

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: GLAB 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.

Margh-

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 Current PDC COC submitted NO NO Case narrative provided



Sample: HC02621 Name: 01A-GLAE Matrix: Drinking		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 12:02	BRS	EPA 200.8 REV 5.4
Sample: HC02621 Name: 01BHGLA Matrix: Drinking		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 12:03	BRS	EPA 200.8 REV 5.4
Sample: HC02621 Name: 02A-GLAE Matrix: Drinking		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 12:05	BRS	EPA 200.8 REV 5.4
Sample: HC02621 Name: 02B-GLAE Matrix: Drinking		⁻ Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 14:59	BRS	EPA 200.8 REV 5.4



	Sample: HC02621-05 Name: 03A-GLAB-WF- Matrix: Drinking Water		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	ter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total N</u>	letals - PIA									
Lead		< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:00	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-06 Name: 03B-GLAB-WF- Matrix: Drinking Water		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	ter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	letals - PIA									
Lead		< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:01	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-07 Name: 04A-GLAB-WF- Matrix: Drinking Water		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	ter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	letals - PIA									
Lead		< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:03	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-08 Name: 05-GLAB-F-133 Matrix: Drinking Water	- Regular	r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	ter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	letals - PIA									
Lead		< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:04	BRS	EPA 200.8 REV 5.4



	Sample: HC02621-09 Name: 06-GLAB-F-K-I Matrix: Drinking Wate		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	eter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	<u> Metals - PIA</u>									
Lead		24.9	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:05	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-10 Name: 07-GLAB-F-K-I Matrix: Drinking Wate		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	eter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	letals - PIA									
Lead		3.64	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:07	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-11 Name: 08-GLAB-DW-I Matrix: Drinking Wate		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	eter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total N	letals - PIA									
Lead		3.13	ug/L		03/21/24 14:31	1	1.00	03/22/24 12:33	BRS	EPA 200.8 REV 5.4
	Sample: HC02621-12 Name: 09-GLAB-SPR Matrix: Drinking Wate		r Sample					Sampled: 03/13/2 Received: 03/14/2		
Parame	eter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total M	letals - PIA									
Lead		1.45	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:08	BRS	EPA 200.8 REV 5.4



Sample: HC0262	1-13						Sampled: 03/13/2	24 07:32	
Name: 10-GLAB	-F-K-W-L						Received: 03/14/2	24 16:20	
Matrix: Drinking	g Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	22.5	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:12	BRS	EPA 200.8 REV 5.4
Sample: HC0262	1-14						Sampled: 03/13/2	24 07:33	
Name: 11-GLAB	-F-K-W-R						Received: 03/14/2	24 16:20	
Matrix: Drinking	g Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	9.91	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:14	BRS	EPA 200.8 REV 5.4
Sample: HC0262	1-15						Sampled: 03/13/2	24 07:35	
Name: 12-GLAB							Received: 03/14/2		
Matrix: Drinking	g Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:18	BRS	EPA 200.8 REV 5.4
Sample: HC0262	1-16						Sampled: 03/13/2	24 07:39	
Name: 13-GLAB							Received: 03/14/2		
Matrix: Drinking	g Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Lead	6.14	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:19	BRS	EPA 200.8 REV 5.4



Sample: HC026 Name: 14-GLA							Sampled: 03/13/2 Received: 03/14/2		
Matrix: Drink	ing Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:21	BRS	EPA 200.8 REV 5.4
	621-18 AB-WF-300/500-L .ing Water - Regular	Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:22	BRS	EPA 200.8 REV 5.4
	621-19 AB-WF-300-500-R ing Water - Regular	Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:23	BRS	EPA 200.8 REV 5.4
Sample: HC026 Name: 17-GL/ Matrix: Drink		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:25	BRS	EPA 200.8 REV 5.4



Sample: HC026 Name: 18-GLA							Sampled: 03/13/2 Received: 03/14/2		
	ing Water - Regular	Sample					Received. 03/14/2	24 10.20	
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:29	BRS	EPA 200.8 REV 5.4
Sample: HC026 Name: 19-GLA Matrix: Drinki		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:30	BRS	EPA 200.8 REV 5.4
Sample: HC026 Name: 20A-WI Matrix: Drinki		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:32	BRS	EPA 200.8 REV 5.4
Sample: HC026 Name: 20B-WI Matrix: Drinki		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:33	BRS	EPA 200.8 REV 5.4



Sample: HC0262 Name: 21A-WF	-600-L	0					Sampled: 03/13/2 Received: 03/14/2		
Matrix: Drinkir	ng Water - Regular	Sample							
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:37	BRS	EPA 200.8 REV 5.4
Sample: HC0262 Name: 21B-WF Matrix: Drinkir		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:39	BRS	EPA 200.8 REV 5.4
Sample: HC0262 Name: 22-WF-6 Matrix: Drinkir		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:40	BRS	EPA 200.8 REV 5.4
Sample: HC0262 Name: 23-GLAI Matrix: Drinkir		Sample					Sampled: 03/13/2 Received: 03/14/2		
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u> Total Metals - PIA</u>									
Lead	< 1.00	ug/L		03/22/24 08:27	1	1.00	03/22/24 15:41	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

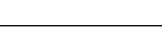
- CHI McHenry, IL 4314-A W. Crystal Lake Road, McHenry, IL 60050 TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279 Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556
- PIA Peoria, 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

			4	ì		State of Origin: MO	: MO		- Mail	Pace Analytical
ENVIRONATION			12.TM)	MISSOUR State		Cert. Needed:	T	NON		
Workorder: HA		Workord	Workorder Name:	MSU:	MSU: CDC GTLO	Owner Received Date:	p		Results Requested By:	
Report To:		Subc	Subcontract To:			The second	13 140	Reque	Requested Analysis	
Chenise Lambert-Sykes										
Pace Hazelwood		Pace	Pace Analytical	, ino						
944 Anglum Koaa Hazelwood, MO 63042		Peori	2231 W. AILUTEL L Peoria, IL 61615							
Phone 800.333.3278		800.5	800.333.3278			Unpreserved Containers	ie di			
Sample (D	Sample Tvpe	Collect Date/Time	Time	Dibil	Matrix		DW Lead	Turb Che		LAB USE ONLY
01-CDC-WF-ENT-L	Grab	3/13/2024	0601		DW		1 X	×		
02-CDC-WF-ENT-R	Grab	3/13/2024	0601		DW		1 X	X		
03-CDC-F-180-UP	Grab	3/13/2024	0603		DW		1 X	×		
04-CDC-F-180-LOW	Grab	3/13/2024	0604		DW		1 X	×		
05-CDC-F-183-UP	Grab	3/13/2024	0606		DW		1 X	×		
06-CDC-F-183-LOW	Grab	3/13/2024	0607		DW		1 X	-		
07-CDC-F-183-W	Grab	3/13/2024	0608		DW		1 X	-		
08-CDC-F-185-E	Grab	3/13/2024	0609		DW		1 X	×		
09-CDC-F-185-W	Grab	3/13/2024	0611		MQ		1 X	×		
10-CDC-F-185-N	Grab	3/13/2024	0612		DW		1 X	×		
11-CDC-F-K-HW	Grab	3/13/2024	0614		DW		1 X	×		
12-CDC-F-K-N	Grab	3/13/2024	0616		DW			×		
13-CDC-SPRAY-K-N	Grab	3/13/2024	0617		DW		1 X	×		
14-CDC-DW-L	Grab	3/13/2024	0620		DW			×		
15-CDC-DW-R	Grab	3/13/2024	0622		DW			×		
16-CDC-F-282-E-UP	Grab	3/13/2024	0632		DW			×		
17-CDC-F-282-E-LOW	Grab	3/13/2024	0633		DW		1 X	×		
18-CDC-F-282-W	Grab	3/13/2024	0634		DW		1 X	×		
19-CDC-F-288-E	Grab	3/13/2024	0630		DW		1 X	×		
20-CDC-F-288-W-UP	Grab	3/13/2024	0627		DW		1 ×			
21-CDC-F-288-W-LOW	Grab	3/13/2024	0628		DW		1 X	×		
Transfers Released By	A STATE OF AND		Date/Time		Reveived By	Diff. No.	Date/Time		Comments	
			3/13/24,	0843	aluent.	3143	¥ 1120	*SAMP	*SAMPLES UNPRESERVED AT COLLECTION	COLLECTION
Column MI			10.00	. 1	0	•			Normal TAT, Log Client IDs	: IDs
0)	()	ALLI HA/H/E	\$	Report to 1PPB, EDD	
				(`					
				10			Charles Variation Provide Contraction	- KD-	Sample Intact Nr N	N N

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Environment			Missouri State	21 ste	Cert. Needed:	T AFES	ON X		
WORKS INC			MAI NO.	5	Owner Received	ρ	4	Results Requested	
Workorder: HA		Workorder Name:		MSU: GLAB GTLO	Date:			By:	ī
Report To:		Subcontract	ct To:		A Prove -		Requested	ted Analysis	
Chenise Lambert-Sykes									
Pace Hazelwood		Pace Analytical	vtical						
944 Anglum Road		7.7.7 M. A	2231 W. Altorier Urive						
Hazelwood, MO 63042 Phone 800.333.3278		PEOFIA, IL 61612 800.333.3278	- c101c		Unproserved				
		MILLIN.		10.22		-	ир Сред		
Sample ID	Sample Type	Collect Date/Time	Lab ID	Contraction of the second	trix			LAB USE ONLY	۶ſ
01A-GLAB-WF-200	Grab	3/13/2024 0712	2	MD		1 ×			Т
01BHGLAB-WF-200	Grab			DW		1 ·	-		T
02A-GLAB-WF-300	Grab		9	DW			-		Т
02B-GLAB-WF-300	Grab			MO			××		1
03A-GLAB-WF-105	Grab		× 1						T
03B-GLAB-WF-105	Grab			M					T
04A-GLAB-WF-119	Grab	3/13/2024 0721		Ma		××	× >		T
04B-GLAB-WF-119	drad -								T
05-GLAB-F-133	Grab		m.,	MO			< >		Т
06-GLAB-F-K-MID-L	Grab						<>		T
07-GLAB-F-K-MID-R	Grab					× >	_		Т
08-GLAB-DW-K	Grad			DW0					Т
09-GLAB-SPRAY-K	Grab			MO		< >	< >		Т
10-GLAB-F-K-W-L	Grab	3/13/2024 0/32	7 0	MO					T
11-GLAB-F-K-W-R	Grab		γ.						T
12-GLAB-IM-K	Grab	3/13/2024 0/35		MO		× ×	< >		Т
13-GLAB-F-K-HW	oldu	1					_		Т
14-GLAB-WF-311	Grab	1	4 0	MO			< >		Т
15+GLAB-WF-300/500+L	Grab	- II		M					Т
16-GLAB-WF-300-500-R	Grab			MA		< : -	_		T
17-GLAB-F-CONC	Grab	_	2	DW			×		T
18-GLAB-F-CONC	Grab	- 1	9	MO			-		Т
19-GLAB-WF-700-L	Grab		9	MQ			×		1
20A-WF-700-R	Grab	3/13/2024 0758	8	DW	_	T T	×		Т
20B-WF-700-R	Grab	3/13/2024 0757	7	DW		1 X	×		Т
21A-WF-600-L	Grab	3/13/2024 0800	0	DW		1 X	×		
21B-WF-600-L	Grab	3/13/2024 0801	1	DW		1 X	X		
22-WF-600-R	Grab		2	MQ		1 X	×		
23-GLAB-WF-311-BF	Grab		5	MQ		1 1 X	X		
Transfers Released Bv		Date/	e/Time	Reveived By		Date/Time		Comments	
Man Mall,	EN/	3/1	124,08	43 Clar	V	3142411	AO *SAMPI	*SAMPLES UNPRESERVED AT COLLECTION	
in the		1.8	1	0				Normal TAT, Log Client IDs	
and and			6.7.1		N	31 4/m 16	1670	Report to 1PPB, EDD	
			(2				ſ
			Custody Soal V or (N)		Receive	Deceined on Ico V of M	Chi	Sample Intact IV br N	

Page 1 of 1

FMT-ALL-C-002rev.00 24March2009