DOCKETED	
Docket Number:	21-AFC-02
Project Title:	Willow Rock Energy Storage Center
TN #:	248856
Document Title:	DR68-5 Monthly Geotechnical Update 5 - January 2023
Description:	Monthly Geotechnical Update 5 for Willow Rock 21-AFC-02
Filer:	Kari Miller
Organization:	Golder Associates USA Inc.
Submitter Role:	Applicant Consultant
Submission Date:	2/17/2023 2:47:18 PM
Docketed Date:	2/17/2023

# Willow Rock Monthly Geotechnical Update – January 2023

#### **Status**

The table below overviews the status of the various activities that have been initiated during the geotechnical program at the Willow Rock project site as of 2023/01/31. No drilling activities were completed in January 2023.

Activity	Status	Notes
Shallow Borehole Program	Complete	Shallow borehole program was completed June - August 2022 with 8 shallow borehole and CPT testing.
Seismic Testing Round 1	Complete	Seismic testing was completed in Q1 to provide early insight on bedrock depth and stratigraphy before selecting borehole locations.
Deep Borehole #1	Complete	Drilling, downhole testing, and lab analysis has been completed on borehole #1.
Deep Borehole #2	Complete	Deep borehole #2 has completed drilling, geophysical logging, and pump & packer testing. In-situ stress testing (sigra) was attempted but no successful tests were completed. Lab testing on core samples is complete and summarizing reports are being prepared.
Deep Borehole #3	Complete	Deep borehole #3 has finished drilling to a total depth of 2313' BGL and has completing downhole testing. In-situ stress testing was completed, and 2 successful tests were gathered. Geophysical logging and downhole water samples were gathered. Pump & packer testing was completed in December before the hole was closed. Lab testing on core samples is complete and summarizing reports are being prepared.

# Monthly Update

#### Deep Borehole #2

All lab testing for borehole #2 reached completion in January. Summarizing reports presenting the lab testing data are being prepared.

#### Deep Borehole #3

All lab testing for borehole #2 reached completion in January. Summarizing reports presenting the lab testing data are being prepared. The testing results from the downhole water samples that were gathered from borehole #3 were received this month.

# **Attachment DR68-5**



## **New Data Transmittals**

The geotechnical exploration program has received the following data during January 2023.

Downhole water testing results from borehole #3



Date of Report: 12/08/2022

Lucas Thexton

Hydrostor 365 Bay Street Toronto, CANADA M5H 2V1

Client Project: [none]

**GW Testing BCL Project:** 2227998 **BCL Work Order:** B464517 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 11/22/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Ragen Schallock

Client Service Rep

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Report ID: 1001373848



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Report ID: 1001373848

/Pace <sup>*</sup>								C	ha	in	of Cust	ody F	ori
AWALYTICAL SERVICES 4100 Affas Ct. – Bakersfield,	CA 93308 - 661.327.4	911 – Fa:	x: 661.3	Colonia	No. of Concession, Name of Street, or other Designation, Name of Street, Name		Annual Control						
Client: Hydrostor Inc. Projects			~	, ,	ınalysis	Request	ed		<b>M</b> PORES	William Colonia		Page_1	of_1
	Name: GW Testi	14	10	//	10/2	///	//	/	comm	nents:			
Street Address: 365 Bay Street, Suite 300 BID#	00126767	4	ine		0-45			/					
City, State, Zip: Tokonfo, ON MSH 2V1 CA Printed:			Containers	77	2/2/	///	//						
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	1		_	XX	1	-	$\mathbb{H}$	-	A     A			& Density	
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20.#:	GISKey 🗌 Well Star 🗋	v. rozmiju	3102 Uj			l	11110		nece	wed by		Date	Tirr 

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Chain of Custody and Cooler Receipt Form for 2227998 Page 2 of 2

PACE ANALYTICAL	CC	OOLER I	RECEIPT	FORM			Page	Of		
Submission #: 22-27498										
SHIPPING INFORFED GSO / GI Fed Ex  UPS  GSO / GI Pace Lab Field Service  Other	LS⊡ Ha er⊡(Speci	nd Delive	ery by	Ice Che	HIPPING est∭i i er⊡(Spe	None	Box []		FREE LIC YES 18	QUID NO 🗆 S
Refrigerant: Ice 🕽 Blue Ice 🗆	None I	□ Oth	ner 🗆	Commen	ts:					
	Containe Intact? Yes	No □		Comm						
All samples received? Yes ☐ No ☐	All samples	containers	s intact?	Yes 🖟 No		Descrip	tion(s) mat	tch COC?	Yes No	0
COC Received	nissivity: <u>C</u> emperature:	198 c	entainer:	PE_T _°C 1	hermomete	er ID: _3:	3 <del>7</del> _°°	Date/Tir	ne <u>11-2</u> Init <u>SM /</u>	1-22
SAMPLE CONTAINERS	1	] 2	3	T 4	SAMPLE	NUMBERS	7	3		10
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40x / 80x / 160x PE UNPRES	-					-			-	
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INORGANIC CHEMICAL METALS  INORGANIC CHEMICAL METALS 40z / 80z / 16ee	+	-					<del> </del>			
PT CYANIDE	1									
PT NITROGEN FORMS									-	<del>  </del>
PT TOTAL SULFIDE									1	1
202. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK 10ml VOA VIAL	<del> </del>						-			
OT EPA 1664B	<b>-</b>								-	
T ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
0 ml VOA VIAL- 504										
T EPA 508/608,3/8081A										
(T EPA 515.1/8151A	-									
YT EPA 525.2 YT EPA 525.2 TRAVEL BLANK	-		-							
Oml EPA 547										
0ml EPA 531.1										
oz EPA 548.1										
OT EPA 549.2										8
T EPA 8015M										
T EPA 8270C										
oz/16oz/32oz AMBER										
nz / 16az / 32az JAR	-									
OIL SLEEVE CB VIAL								-		
LASTIC BAG	1	-								
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ERROUS IRON										
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MART KIT										
UMMA CANISTER										3
mments:					- L					
mple Numbering Completed By: Actual / C = Corrected	The		Date/	rime:	12/2		29	Perfecti Ati Do	REV 23 05 CEPORNSISANE	



Reported: 12/08/2022 10:59 Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# **Laboratory / Client Sample Cross Reference**

Laboratory	Client Sample Information	on		
2227998-01	COC Number:		Receive Date:	11/22/2022 09:45
	Project Number:		Sampling Date:	11/19/2022 17:10
	Sampling Location:		Sample Depth:	
	Sampling Point:	982 ft Fluid Sample	Lab Matrix:	Water
	Sampled By:		Sample Type:	Groundwater
	Odinpied By:		Cumple Type.	
2227998-02	COC Number:		Receive Date:	11/22/2022 09:45
	Project Number:		Sampling Date:	11/19/2022 18:10
	Sampling Location:		Sample Depth:	
	Sampling Point:	1219ft Fluid Sample	Lab Matrix:	Water
	Sampled By:		Sample Type:	Groundwater
0007000 00				44/00/0000 00 45
2227998-03	COC Number:	<del></del>	Receive Date:	11/22/2022 09:45
	Project Number:		Sampling Date:	11/19/2022 19:30
	Sampling Location:		Sample Depth:	
	Sampling Point:	1383ft Fluid Sample	Lab Matrix:	Water
	Sampled By:	<del></del>	Sample Type:	Groundwater
2227998-04	COC Number:		Receive Date:	11/22/2022 09:45
	Project Number:		Sampling Date:	11/19/2022 21:30
	Sampling Location:		Sample Depth:	
	Sampling Point:	1527ft Fluid Sample	Lab Matrix:	Water
	Sampled By:		Sample Type:	Groundwater
2227998-05			<b>_</b>	44/00/0000 00:45
2221330-05	COC Number:	<del></del>	Receive Date:	11/22/2022 09:45
	Project Number:	<del></del>	Sampling Date:	11/19/2022 23:30
	Sampling Location:		Sample Depth:	
	Sampling Point:	1875ft Fluid Sample	Lab Matrix:	Water
	Sampled By:		Sample Type:	Groundwater

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Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

BCL Sample ID:	2227998-01	Client Samp	Client Sample Name: 982 ft Fluid Sample, 11/19/2022 5					2 5:10:00PM				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN			
рН		8.14	pH Units	0.05	0.05	EPA-150.1		S05	1			
Total Dissolved Solids	s @ 180 C	260	mg/L	20	10	EPA-160.1	ND	A10	2			

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	EPA-150.1	12/01/22 06:00	12/01/22 17:07	RML	MET-1	1	B152939	No Prep	
2	EPA-160.1	11/23/22 15:00	11/23/22 15:00	CAD	MANUAL	2	B154513	No Prep	

DCN = Data Continuation Number

Report ID: 1001373848



Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

BCL Sample ID:	2227998-02	Client Samp	le Name:	1219ft Flu	iid Sample	2 6:10:00PM				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
pН		8.13	pH Units	0.05	0.05	EPA-150.1		S05	1	
Total Dissolved Solids	s @ 180 C	260	mg/L	20	10	EPA-160.1	ND	A10	2	

			Run			QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method		
1	EPA-150.1	12/01/22 06:00	12/01/22 17:14	RML	MET-1	1	B152939	No Prep		
2	EPA-160.1	11/23/22 15:00	11/23/22 15:00	CAD	MANUAL	2	B154513	No Prep		

DCN = Data Continuation Number

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Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

BCL Sample ID:	2227998-03	Client Samp	Client Sample Name: 1383ft Fluid Sample, 11/19/2022					Client Sample Name: 1383ft Fluid Sample, 11/19/2022 7:30:00PM					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN				
pH		7.98	pH Units	0.05	0.05	EPA-150.1		S05	1				
Total Dissolved Solids	s @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A10	2				

			Run		-	QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method		
1	EPA-150.1	12/01/22 06:00	12/01/22 17:21	RML	MET-1	1	B152939	No Prep		
2	EPA-160.1	11/23/22 15:00	11/23/22 15:00	CAD	MANUAL	2	B154513	No Prep		

DCN = Data Continuation Number

Report ID: 1001373848



Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

BCL Sample ID:	2227998-04	Client Samp	le Name:	1527ft Fluid Sample, 11/19/2022 9:30:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
рН		8.35	pH Units	0.05	0.05	EPA-150.1		S05	1		
Total Dissolved Solids	s @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A10	2		

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	EPA-150.1	12/01/22 06:00	12/01/22 17:28	RML	MET-1	1	B152939	No Prep
2	EPA-160.1	11/23/22 15:00	11/23/22 15:00	CAD	MANUAL	2	B154513	No Prep

DCN = Data Continuation Number

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Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

BCL Sample ID:	2227998-05	Client Samp	le Name:	1875ft Fluid Sample, 11/19/2022 11:30:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
pH		8.21	pH Units	0.05	0.05	EPA-150.1		S05	1		
Total Dissolved Solids	s @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A10	2		

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	EPA-150.1	12/01/22 06:00	12/01/22 17:35	RML	MET-1	1	B152939	No Prep
2	EPA-160.1	11/23/22 15:00	11/23/22 15:00	CAD	MANUAL	2	B154513	No Prep

DCN = Data Continuation Number

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Report ID: 1001373848



Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B154513							
Total Dissolved Solids @ 180 C	B154513-BLK1	ND	mg/L	6.7	3.3		1

					Run				
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B154513-BLK1	PB	EPA-160.1	11/23/22	11/23/22 15:00	CAD	MANUAL	0.667	

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**Reported:** 12/08/2022 10:59

Project: GW Testing Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

### **Quality Control Report - Laboratory Control Sample**

								Control Limits				
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run#	
QC Batch ID: B152939												
pH	B152939-BS2	LCS	7.0200	7.0000	pH Units	100		95 - 105			1	
QC Batch ID: B154513												
Total Dissolved Solids @ 180 C	B154513-BS1	LCS	590.00	586.00	mg/L	101		90 - 110			2	

					Run			
Run#	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B152939-BS2	LCS	EPA-150.1	12/01/22	12/01/22 16:17	RML	MET-1	1
2	B154513-BS1	LCS	EPA-160.1	11/23/22	11/23/22 15:00	CAD	MANUAL	5

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Reported: 12/08/2022 10:59

Project: GW Testing

Project Number: [none]

Project Manager: Lucas Thexton

# Water Analysis (General Chemistry)

### **Quality Control Report - Precision & Accuracy**

			Control Limits								
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals R#
	1 1100	ما مانم به م	Jan NI								
QC Batch ID: B152939	_ Use	d client samp	ile: iN								
pH	DUP	2227992-01	5.9200	5.9300		pH Units	0.2		20		1
QC Batch ID: B154513	Use	d client samp	le: N								
Total Dissolved Solids @ 180 C	DUP	2227944-01	1210.0	1220.0		mg/L	8.0		10		2

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B152939-DUP1	DUP	EPA-150.1	12/01/22	12/01/22 16:37	RML	MET-1	1
2	B154513-DUP1	DUP	EPA-160.1	11/23/22	11/23/22 15:00	CAD	MANUAL	10

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ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308 (661) 395-0539 FAX (661) 395-3069

December 7, 2022

Ragen Schallock Pace Analytical 4100 Atlas Court Bakersfield, CA 93308

TEL: (661) 327-4911 FAX: (661) 327-1918

Project ID: 2227998 RE: 2211392

Dear Ragen Schallock:

Zalco Laboratories, Inc. received 5 samples on 11/23/2022 for the analyses presented in the following report,

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana Project Manager

Report ID: 1001373848

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Conteminant Level ": See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C, Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



#### Subcontract Report for 2227998 PDF File Name: WO\_2227998\_sub\_ZLCLB.pdf Page 2 of 8



#### ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308

(661) 395-0539 FAX (661) 395-3069

Pace Analytical 4100 Atlas Court Bakersfield, CA 93308

Project: Master
Project #: 2227998
Attention: Ragen Schallock

Work Order No.: 2211392 Reported: 12/07/2022

Received: 11/23/22 12:10

Lab Sample ID: 2211392-01

Collected By: Cleint

Client Sample ID: 2227998-01

Date Collected: 11/19/2022 5:10:00PM

							Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Density @ 15 C (60 F)	1.0012			g/mL		ASTM D 4052	11/28/22	11/28/22	JAM
Viscosity									
1-Viscosity @ 60°F	0.860			cSt		ASTM D 445	11/28/22	11/28/22	JAM
2-Viscosity @ 70°F	0.760			cSt		ASTM D 445	11/28/22	11/28/22	JAM
3-Viscosity @ 80°F	0.680			cSt		ASTM D 445	11/28/22	11/28/22	JAM
4-Viscosity @ 100°F	0.550			cSt		ASTM D 445	11/28/22	11/28/22	JAM

NSS: Non Sufficient Sample H: Exceeds Analysis Hols Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Total T

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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#### ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308 (661) 395-0539 FAX (661) 395-3069

 Pace Analytical
 Project:
 Master
 Work Order No.:
 2211392

 4100 Atlas Court
 Project #:
 2227998
 Reported:
 12/07/2022

 Bakersfield, CA 93308
 Attention:
 Ragen Schallock
 Received:
 11/23/22 12:10

Lab Sample ID: 2211392-02 Collected By: Cleint

Client Sample ID: 2227998-02 Date Collected: 11/19/2022 6:10:00PM

							Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Density @ 15 C (60 F)	1,0010			g/mL		ASTM D 4052	11/28/22	11/28/22	JAM
Viscosity									
1-Viscosity @ 60°F	0.860			cSt		ASTM D 445	11/28/22	11/28/22	JAM
2-Viscosity @ 70°F	0.760			cSt		ASTM D 445	11/28/22	11/28/22	JAM
3-Viscosity @ 80°F	0.680			cSt		ASTM D 445	11/28/22	11/28/22	JAM
4-Viscosity @ 100°F	0.550			cSt		ASTM D 445	11/28/22	11/28/22	JAM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contentration Level 1: See Case Namely 1: See Namely 1: See Case Namely 1: See Namely 1: See Case Namely 1: See

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C, Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Report ID: 1001373848 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com Page 16 of 22



#### Subcontract Report for 2227998 PDF File Name: WO\_2227998\_sub\_ZLCLB.pdf Page 4 of 8



#### ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308 (661) 395-0539 FAX (661) 395-3069

Pace Analytical 4100 Atlas Court Bakersfield, CA 93308 Project: Master
Project #: 2227998
Attention: Ragen Schallock

Work Order No.: 2211392

Reported: 12/07/2022 Received: 11/23/22 12:10

Lab Sample ID: 2211392-03

Collected By: Client

Client Sample ID: 2227998-03

Date Collected: 11/19/2022 7:30:00PM

							Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Density @ 15 C (60 F)	1.0011			g/mL		ASTM D 4052	11/28/22	11/28/22	JAM
Viscosity									
1-Viscosity @ 60°F	0.860			c5t		ASTM D 445	11/28/22	11/28/22	JAM
2-Viscosity @ 70°F	0.760			cSt		ASTM D 445	11/28/22	11/28/22	JAM
3-Viscosity @ 80°F	0.680			cSt		ASTM D 445	11/28/22	11/28/22	JAM
4-Viscosity @ 100°F	0.550			cSt		ASTM D 445	11/28/22	11/28/22	JAM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Conteminant Level 1: See Case Narrative

The results in this report apply to the samples analyzed in accordance with the chain of oustody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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#### Subcontract Report for 2227998 PDF File Name: WO\_2227998\_sub\_ZLCLB.pdf Page 5 of 8



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308

(661) 395-0539 FAX (661) 395-3069

Pace Analytical 4100 Atlas Court Bakersfield, CA 93308 Project: Master Project #: 2227998 Attention: Ragen Schallock Work Order No.: 2211392 Reported: 12/07/2022

Received: 11/23/22 12:10

Lab Sample ID: 2211392-04

Collected By: Cleint

Client Sample ID: 2227998-04

Date Collected: 11/19/2022 9:30:00PM

							Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Density @ 15 C (60 F)	1.0013			g/mL		ASTM D 4052	11/28/22	11/28/22	JAM
Viscosity									
1-Viscosity @ 60°F	0.860			cSt		ASTM D 445	11/28/22	11/28/22	MAL
2-Viscosity @ 70°F	0.760			cSt		ASTM D 445	11/28/22	11/28/22	JAM
3-Viscosity @ 80°F	0.680			cSt		ASTM D 445	11/28/22	11/28/22	JAM
4-Viscosity @ 100°F	0.550			cSt		ASTM D 445	11/28/22	11/28/22	JAM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level ": See Case Narrative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analysical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Report ID: 1001373848 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com Page 18 of 22



#### Subcontract Report for 2227998 PDF File Name: WO\_2227998\_sub\_ZLCLB.pdf Page 6 of 8



#### ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308

(661) 395-0539 FAX (661) 395-3069

 Pace Analytical
 Project:
 Master

 4100 Allas Court
 Project #:
 2227998

 Bakersfield, CA 93308
 Attention:
 Ragen Schallock

Work Order No.: 2211392 Reported: 12/07/2022 Received: 11/23/22 12:10

Lab Sample ID: 2211392-05 Collected By: Cleint

Client Sample ID: 2227998-05 Date Collected: 11/19/2022 11:30:00PM

							Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Density @ 15 C (60 F)	1.0011			g/mL		ASTM D 4052	11/28/22	11/28/22	JAM
Viscosity									
1-Viscosity @ 60°F	0.860			cSt		ASTM D 445	11/28/22	11/28/22	JAM
2-Viscosity @ 70°F	0.760			cSt		ASTM D 445	11/28/22	11/28/22	JAM
3-Viscosity @ 80"F	0.680			cSt		ASTM D 445	11/28/22	11/28/22	JAM
4-Viscosity @ 100°F	0.550			cSt		ASTM D 445	11/28/22	11/28/22	JAM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Conteminant Level \*: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Report ID: 1001373848 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com Page 19 of 22



Subcontract Report for 2227998 PDF File Name: WO 2227998 sub ZI CI B pdf Page 7 of 8

Table   Laboratories   Agging   Aggin							
SENDING LABORATORY:   Pace Analytical   22   13   22   24   10   20   20   20   20   20   20   20							
SENDING LABORATORY:   Pace Analytical			Pace Analyti	cal (6 rsfield	l, CA)		
RECEIVING LABORATORY:   RECEIVING LABORATORY:   ZI				2227998		7211002	
Pace Analytical	CENDING LABORATION					2211392	
### A100 Attas Court ### A100					ATORY:	;	ZLCLB
Bakersfield, CA 93308 Phone: 661-327-1918 Phone: 661-327-1918 Phone: 361-327-1918 Project Manager: Ragen Schallock  DOD: No  Level 4: No  EDDs Needed: Expires Comments  1/13/22 23:59  11/18/23 17:10  ASTM D4052 - Density ASTM D445 - Viscosity 12/13/22 23:59  11/18/23 17:10  CAD frinking Water PSCode  GeoTracker - Global ID: Sample ID: 2227998-01  ASTM D445 - Viscosity 12/13/22 23:59  11/18/23 18:10  ASTM D445 - Viscosity 12/13/22 23:59  11/18/23 18:10  ASTM D445 - Viscosity 12/13/22 23:59  11/18/23 18:10  ASTM D4052 - Density 12/13/22 23:59  11/18/23 18:10  Containers supplied: Containers C							
Phone: 661-327-4911 FAX: 661-327-1918 Project Manager: Ragen Schallock  DOD: No  Analysis  Due  Expires  Comments  5_7 C  ASTM D4052 - Density ASTM D445 - Viscosity  CA Drinking Water PSCode  GeoTracker - Global ID:  Sample ID: 222798-01  Water  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D445 - Viscosity  12/13/22 23:59  11/18/23 18:10  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D445 - Viscosity  12/13/22 23:59  11/18/23 19:30  ASTM D4052 - Density  ASTM D445 - Viscosity  12/13/22 23:59  11/18/23 19:30  ASTM D4052 - Density  ASTM D4052 - Density  ASTM D4052 - Density  12/13/22 23:59  11/18/23 21:30  ASTM D4052 - Density  12/13/22 23:59  11/18/23							
Project Manager: Ragen Schallock  DOD: No  Analysis  DOE  Expires  Comments  DIE  Expires  Expires  Comments  DIE  Expires  Comments  DIE  Expires  Comments  DIE  Expires  Comments  DIE  Expires  Expires  Comments  DIE  Ex	Phone: 661-327-4911				10		
DOD: No			P	hone: 395-0539			
Analysis Due Expires Comments 5 - 7 C  ASTM D4052 - Density 12/13/22 23:59 11/18/23 17:10  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 17:10  CA Drinking Water PSCode GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-01 Water Sampled: 11/19/22 17:10 Sample Name: 982 ft Fluid Sample  Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 18:10  CA Drinking Water PSCode GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-02 Water Sampled: 11/19/22 18:10 Sample Name: 1219ft Fluid Sample  Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  CA Drinking Water PSCode GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied: Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied: Sample ID: 2227998-04 Water Sampled: 11/19/22 19:30 Sample Name: 1527ft Fluid Sample  Containers supplied: 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  Sample Name: 1527ft Fluid Sample  Containers supplied: 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  Sample Name: 1527ft Fluid Sample  Containers supplied: 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 12/13/22 23:59	r roject Manager, Rageri Scha	IIOCK	F.	AX: 395-3069			
Analysis Due Expires Comments 5 7 ( ASTM D4052 - Density 12/13/22 23:59 11/18/23 17:10  ASTM D4052 - Density 12/13/22 23:59 11/18/23 17:10  CAD frinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-01 Water  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 18:10  ASTM D4052 - Density 12/13/22 23:59 11/18/23 18:10  CAD frinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-02 Water Sampled: 11/19/22 18:10 Sample Name: 1219ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  CAD frinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  CAD frinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  Sample Name: 1527ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  Sample Name: 1527ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)	DOD: No		Level 4: No	EDDs Needed:			
ASTM D4052 - Density	Analysis		Due		Comments	570	
ASTM D445 - Viscosity	ASTM D4052 - Density		12/13/22 23:59	11/18/23 17:10		7-10	
CA Drinking Water PSCode   GeoTracker - Global ID:   Field Point:   Log Code:	ASTM D445 - Viscosity						
Sample ID: 2227998-01	CA Drinking Water PSCode			1.07 107 20 11.10			
Sample ID: 2227998-01 Water	GeoTracker - Global	ID:		Field Point		Log Code:	
Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: — Sample ID: 2227998-02 Water Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density ASTM D4052 - Density CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: — Sample Name: 1219ft Fluid Sample  12/13/22 23:59 11/18/23 19:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30 CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: — Sample ID: 2227998-03 Water  Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4052 - Density 13/18/23 21	Sample ID: 2227998-01	Water	Sampled:	1	Sample Name		
X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density	Containers supplied:				oumple Haifie	. Joz it Fluid Sample	=
ASTM D4052 - Density		irt)					
ASTM D445 - Viscosity  CA Drinking Water PSCode  Geo Tracker - Global ID:  Sample ID: 2227998-02		·	10/10/22 22 22				
CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: —  Sample ID: 2227998-02 Water Sampled: 11/19/22 18:10 Sample Name: 1219ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 19:30  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 19:30  GeoTracker - Global ID: Field Point: Log Code: —  Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4053 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4054 - Viscosity 12/13/22 23:59 11/18/23 21:30  ASTM D4055 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4056 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4057 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4058 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4059 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D4059 - Density 13/18/23 19:30  ASTM D405							
Sample ID: 227998-02   Water   Sampled: 11/19/22 18:10   Sample Name: 1219ft Fluid Sample Containers supplied: X32: Glass Amber 1000 ml (quart)	•		12/13/22 23:59	11/18/23 18:10			
Sample   D: 2227998-02   Water   Sampled: 11/19/22 18:10   Sample Name: 1219ft Fluid Sample		D:					
Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density  ASTM D445 - Viscosity  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-03 Water  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density  A							
X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density		water	Sampled:	11/19/22 18:10	Sample Name:	1219ft Fluid Sample	9
ASTM D4052 - Density							
ASTM D445 - Viscosity  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-03 Water Sampled: 11/19/22 19:30 Sample Name: 1383ft Fluid Sample  Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied:  (32: Glass Amber 1000 ml (quart)  ASTM D455 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied:  (32: Glass Amber 1000 ml (quart)	A32: Glass Amber 1000 ml (qua	rt)					
ASTM D445 - Viscosity CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-03 Water  Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied: X32: Glass Amber 1000 ml (quart)  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Calcalation of the Containers supplied: 11/19/22 21:30 Date  Released By Date	ASTM D4052 - Density		12/13/22 23:59	11/18/23 19:30			
CA Drinking Water PSCode   GeoTracker - Global ID:   Field Point:   Log Code:   Sample ID: 2227998-03   Water   Sampled:   11/19/22 19:30   Sample Name:   1383ft Fluid Sample   Containers supplied:   X32: Glass Amber 1000 ml (quart)     12/13/22 23:59   11/18/23 21:30     11/18/23 21:30       12/13/22 23:59   11/18/23 21:30	ASTM D445 - Viscosity		12/13/22 23:59				
Sample ID: 2227998-03							
Sample ID: 2227998-03		D;	,	Field Point:		Log Code:	
Containers supplied:  X32: Glass Amber 1000 ml (quart)  ASTM D4052 - Density 12/13/22 23:59 11/18/23 21:30  ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied:  (32: Glass Amber 1000 ml (quart)  Annual 1/-23-22 Amwal 11/23/22 12510  Date Received By Date	Sample ID: 2227998-03	Water	Sampled:	11/19/22 19:30	Sample Name		
ASTM D4052 - Density	Containers supplied:		(4		pro manio.		•
ASTM D4052 - Density		rt) .					
ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 21:30  CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied: (32: Glass Amber 1000 ml (quart)  Assume Ideased By Date  Received By Date			10/10/00 00 00				
CA Drinking Water PSCode  GeoTracker - Global ID: Field Point: Log Code: Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied: (32: Glass Amber 1000 ml (quart)  And Veb 1 1 23 22 12 10  Released By Date  Received By Date			· ·		-		
GeoTracker - Global ID: Field Point: Log Code:  Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample  Containers supplied: (32: Glass Amber 1000 ml (quart)  Annual II 23 22 I2 IO  Released By Date Received By Date	-		12/10/22 23:09	11/18/23 21:30			
Sample ID: 2227998-04 Water Sampled: 11/19/22 21:30 Sample Name: 1527ft Fluid Sample Containers supplied: (32: Glass Amber 1000 ml (quart)    Containers supplied: 4		):		Field Point			
Containers supplied: (32: Glass Amber 1000 ml (quart)    Amagina   1/-23-22   Amagina   1/23   125   10     Released By Date   Received By Date			Sampled		Camala M		
(32: Glass Amber 1000 ml (quart)  Analysis I   23 - 22 Analysis I   23   22   25   10   Released By Date Received By Date	_		Sampled:	11/18/22 21:30	Sample Name:	152/ft Fluid Sample	
Andrew 1/23/22 12/10 Released By Date Received By Date		e)	,		•		
Released By Date Received By Date	tour mi (quar	'/					
Released By Date Received By Date	$\cap$						
Released By Date Received By Date	2) ~	//		Line	î I		
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Released By Date Received By Date	keleased By//			ceived By	THE RESERVE THE PERSON NAMED IN COLUMN 2 I		
Released By Date Received By Date							
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Analysis

Subcontract Report for 2227998 PDF File Name: WO\_2227998\_sub\_ZLCLB.pdf Page 8 of 8

# Pace Analytical (Bakersfield, CA) 2227998 2211392 Due Expires Comments 12/13/22 23:59 11/18/23 23:30

ASTM D4052 - Density 12/13/22 23:59 11/18/23 23:30
ASTM D445 - Viscosity 12/13/22 23:59 11/18/23 23:30

CA Drinking Water PSCode

GeoTracker - Global ID: Field Point: Log Code: --Sample ID: 2227998-05 Water Sampled: 11/19/22 23:30 Sample Name: 1875ft Fluid Sample

Containers supplied:

X32: Glass Amber 1000 ml (quart)

SUBCONTRACT ORDER

 Mungual Released By
 1/23-22

 Released By
 Date
 Received By
 Date

 Released By
 Date
 Received By
 Date

 2LCLB
 Printed 11/23/2022 9:19:55AM
 Page 2 of 2



Hydrostor Reported: 12/08/2022 10:59

365 Bay Street Project: GW Testing

Toronto, CANADA M5H 2V1 Project Number: [none] Project Manager: Lucas Thexton

#### **Notes And Definitions**

MDL Method Detection Limit ND Analyte Not Detected

PQL Practical Quantitation Limit

A10 Detection and quantitation limits were raised due to matrix interference.

S05 The sample holding time was exceeded.

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