

Sample Results

Lake Francis MWC PO Box 422 Dobbins, CA 95935 Work Order: GHC0181

Received: 03/05/25 13:45

Reported: 03/24/25 12:51

System Number: 5800805

Chemical-Well 05-Perchlorate

Term and Qualifier Definitions

Item Definition

Analyzing Laboratory:

ND None detected at or above the reporting limit

Subcontracted Analyses

Sample Site: Well 05 PSW#5800805-005 **Date Collected:** 3/5/2025 10:56:00AM

Sample Number GHC0181-01 Collected by: William Stotts

Source Type: Title 22 Designation:

BSK Laboratory Analysis Perchlorate

Report with Method References attached.

Justin Smith

Laboratory Manager

Integrating people, land and water.

AIC1202 3/21/2025

Invoice: AI08380

Justin Smith Cranmer Analytical Laboratory 1188 E. Main St. Grass Valley, CA 95945

RE: Report for AIC1202 General for State Form Reporting

Dear Justin Smith,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/7/2025. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Client Services Representative, Sarah K. Guenther, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Sarah K. Guenther, Senior Project Manager

Sarch Guerthe



Accredited in Accordance with NELAP ORELAP #4021





Case Narrative

Project and Report Details Invoice Details

Client: Cranmer Analytical Laboratory Invoice To: Cranmer Analytical Laboratory

Report To: Justin Smith Invoice Attn: Andrew Hamilton

Report Due: 3/21/2025

Sample Receipt Conditions

Cooler: Default Cooler Containers Intact

Temperature on Receipt °C: 2.5

COC/Labels Agree
Received On Ice

Packing Material - Other

Sample(s) were received in temperature range.

Initial receipt at BSK-SAC

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

Report Distribution

Recipient(s) Report Format CC:

Justin Smith FINAL.RPT

Reporting FINAL.RPT

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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^{***}None applied***





General for State Form Reporting

GHC0181 #5800805

Certificate of Analysis

Sample ID: AIC1202-01 **Sample Date - Time:** 03/05/2025 - 10:56 Sampled By: Client

Matrix: Drinking Water

Sample Description: GHC0181-01 // Well 05 PSW#5800805-005 Sample Type: Grab

BSK Associates Laboratory Fresno **General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	570	5.0	umhos/cm	1	AIC0551	03/09/25	03/09/25	
Perchlorate	EPA 314.0	ND	1.0	ug/L	1	AIC1267	03/19/25	03/19/25	





BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed Qual
EPA 314.0 - Quality Control										
Batch: AIC1267										Prepared: 3/19/2025
Prep Method: Method Specific Prep	paration									Analyst: CYS
Blank (AIC1267-BLK1)										
Perchlorate	ND	1.0	ug/L							03/19/25
Blank Spike (AIC1267-BS1)										
Perchlorate	15	1.0	ug/L	15	ND	103	85-115			03/19/25
Matrix Spike (AIC1267-MS1), Source	e: AIC1337-01									
Perchlorate	5.7	1.0	ug/L	5.0	ND	114	80-120			03/20/25
Matrix Spike Dup (AIC1267-MSD1), \$	Source: AIC1337-01									
Perchlorate	5.7	1.0	ug/L	5.0	ND	113	80-120	0	15	03/20/25
		SM 2510E	3 - Qua	lity Cor	ntrol					
Batch: AIC0551										Prepared: 3/9/2025
Prep Method: Method Specific Prep	paration									Analyst: PXC
Blank (AIC0551-BLK1)										
Conductivity @ 25C	ND	1.0	umhos/cm	1						03/09/25
Blank Spike (AIC0551-BS1)										
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110			03/09/25
Blank Spike Dup (AlC0551-BSD1)										
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110	0	5	03/09/25
Duplicate (AIC0551-DUP1), Source: VIC0078-01										
Conductivity @ 25C	810	1.0	umhos/cm	ı	810			0	5	03/09/25
, © -	0.0	1.0			0.0			ŭ	·	



General for State Form Reporting



Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- · (1) Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- · Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- \cdot (2) Formerly known as Bis(2-Chloroisopropyl) ether.
 - Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

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Certificate of Analysis

Definitions

mg/L: Milligrams/Liter (ppm) MDL: Method Detection Limit MDA95: Min. Detected Activity Milligrams/Kilogram (ppm) Reporting Limit: DL x Dilution MPN: mg/Kg: RL: Most Probable Number CFU: μg/L: Micrograms/Liter (ppb) ND: None Detected below MRL/MDL Colony Forming Unit Micrograms/Kilogram (ppb) pCi/L: PicoCuries per Liter Absent: Less than 1 CFU/100mLs μg/Kg: RL Mult: RL Multiplier Present: 1 or more CFU/100mLs Percent %:

NR: Non-Reportable MCL: Maximum Contaminant Limit U: The analyte was not detected at or

above the reported sample quantitation

limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

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Certificate of Analysis

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-024
State of Nevada	NV-C24-00233	State of Oregon - NELAP	4021-024
EPA UCMR5	CA00079	State of Washington	C997-25

Sacramento

State of California - ELAP 1180-S1

San Bernardino

State of California - ELAP 1180-S2 Los Angeles CSD 9254478

NELAP certified 4119-009 State of Oregon - NELAP 4119-009

Vancouver

NELAP certified WA100008-019 State of Oregon - NELAP WA100008-019

State of Washington C824-24

AIC1202 Cranm7284 03/07/2025

Sample Integrity

RSI	〈Bottles: Yes (No) Page	\ of /		\		J		
	Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA		orrect containers d for the tests re	and preservatives quested?	Yes No		
COC Info	If samples were taken today, is there evidence that chilling has begun?	Yes No NA	es No NA Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)					
	Did all bottles arrive unbroken and intact?	Yes No	Was a	(Yes) No				
	Did all bottle labels agree with COC?	(Yes No			ld time <72 hours?	Yes No		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes MA	ves Was PM notified of discrepancies? PM: dt: email s		email scan copy	Yes No MA		
	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1				
	Bacti Na ₂ S ₂ O ₃							
	None (P)White Label	_	-	124				
	Cr6 (P) LL Green Label/Blue Cap NH40H(NH4)2SO4 DW	CI, pH > 8	P F					
ap	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	PF					
performed in the l	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	PF					
eq	HNO ₃ (P) Red Label or HCI (P) Purple Cap/Lt. Blue Label	_	:					
orm	H ₂ SO ₄ (P) or (AG) Yellow Label	pH < 2	PF		N.C			
erfe	NaOH (P) Green Cap/Label	CI, pH >10	PF		AN			
are p	NaOH + ZnAc (P)	pH > 9	PF					
	A SERVICE DE LA CALIFICIA DE LA CALIFICA DE LA CALIFICA DE LA CALIFICA DE LA CALIFICA DELLA DELLA DELLA CALIFICA DELLA DELLA CALIFICA DELLA DELLA DELLA DELLA DELLA DELLA DELLA CALIFICA DELLA DELLA DELLA DEL	pitro			1			
¥.	Dissolved Oxygen 300ml (g)		_	TUDI VALUEDI SE	\	2		
5 2	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270				1 7			
ived either N/A or	HCI (AG)Lt. Blue Label O&G, Diesel, TCP	-	_			7/2		
ece	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525				1 41	110		
8 8	Na ₂ SO ₃ 250mL (AG) ^{Neon Green Label} 515	-				/ "		
tles R checks	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	2 5 7 5 2 7 7 7 7			DOMESTIC OF THE STATE OF			
Bottles Received rine checks are either	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 548, THM, 524							
B		Contractive Contra		N POST AND STR		SEEDER MAINTE		
ch Ch	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547			<u> </u>				
tion	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH < 3	PF					
rva	NH ₄ Cl (AG) ^{Purple Label} 552		-					
Bot preservation/chlorine	EDA (P) or (AG) Brown Label DBPs	_	_					
IS DI	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624							
ear	Buffer pH 4 (CG)	<u></u> s	-					
E	H ₃ PO ₄ (CG) ^{Salmon Label}							
1	Trizma – EPA 537.1Light Blue Label FB							
•	Ammonia Acetate - EPA 533 Purple Label FB		N 4 1					
	Bottled Water	_						
	Clear Glass: Jar / VOA							
	OTHER:		==					
	OTHER:							
	Container Preservative	Lot#	Initials	Date/Time		heck		
Split	SP				pH Lot #			
o,	SP		CI Lot #					
	*Preservation check completed by lab perform	ning analysis.	✓ Indicates Blanks Received 504 524.2 TTHM 537/533 TCP ✓ MS/MSD Received Method:					
Comments								
o	Labeled by: Checked	l by:			W			
	Labeled by: Checked	. by.	7					
	Sc	anned:/	Ru	ush/Short HT P	age:Time	e:		

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Wetice (Walkin) AIC1202 Cranm7284

Sending Laboratory:

CEI

PO Box 1240

Grass Valley, CA 95945 Phone: 530-273-7284

Fax: -

Project Manager: Justin Smith

Subcontracted Laboratory:

BSK Laboratory 687 N Laverne Avenue Fresno, CA 93706

Phone: (559) 497-2888

Fax:

Work Order: GHC0181

Project # 5800805

Analysis		Project # 5800805	
Sample ID: GHC0181-01 Well OF DSW#502020	Comments	Source ID	
Drinking Water Sampled: 03/05/2025 10:56		CA5800805_005 _005	
Perchlorate			
Containers Supplied: Poly 250mL (A)			

REC FAZ **EDT Upload** YES NO _ 3/12500355 Released By Date Received By Page 9 of 9 Page 10 of 10