



Cranmer Engineering, Inc.
Integrated Engineering Services

Sample Results

Lake Francis MWC
PO Box 422
Dobbins, CA 95935

Work Order: GGK0007

Received: 11/01/24 16:00

Reported: 11/19/24 14:38

System Number: 5800805

Chemical-Hexavalent Chromium

Term and Qualifier Definitions

Item	Definition
ND	None detected at or above the reporting limit

Subcontracted Analyses

Sample Site: Well 04 PSW#5800805-004
Sample Number GGK0007-01
Source Type:

Date Collected: 11/1/2024 1:45:00PM

Collected by: William Stotts

Title 22 Designation:

Analyzing Laboratory: BSK Laboratory
Analysis Hexavalent Chromium

Report with Method References attached.

Sample Site: Well 05 PSW#5800805-005
Sample Number GGK0007-02
Source Type:

Date Collected: 11/1/2024 1:47:00PM

Collected by: William Stotts

Title 22 Designation:

Analyzing Laboratory: BSK Laboratory
Analysis Hexavalent Chromium

Report with Method References attached.

Michelle Harlin For Justin Smith

Laboratory Manager

Integrating people, land and water.

1188 East Main Street, Grass Valley, CA 95945

Phone: (530) 273-7284 | Fax: (530) 273-9507 | www.cranmerengineeringinc.com | E.L.A.P. Certification No. 1936

Sampling • Analytical Testing • Courier Service • System Operators • Engineering • Surveying • Technical Reporting • Planning • Construction Mgmt.



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AHK0696
11/18/2024
Invoice: AH28788

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

RE: Report for AHK0696 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 11/5/2024. 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,

Michelle Craft, Supervisor III - Project Management



Accredited in Accordance with NELAP
ORELAP #4021

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.

AHK0696 FINAL 11182024 1420

Case Narrative

Project and Report Details	Invoice Details
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Client: Cranmer Analytical Laboratory
Report To: Justin Smith
Project #: GGK0007 - #5800805
Received: 11/05/2024 - 15:30
Report Due: 11/19/2024

Invoice To: Cranmer Analytical Laboratory
Invoice Attn: Andrew Hamilton
Project PO#: -

Sample Receipt Conditions

<p>Cooler: Default Cooler Temperature on Receipt °C: 3.3</p>	<p>Containers Intact COC/Labels Agree Preservation Confirmed Received On Ice Packing Material - Other Sample(s) were received in temperature range. Initial receipt at BSK-FAL</p>
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Data Qualifiers

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

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Justin Smith	FINAL.RPT	
Reporting	FINAL.RPT	



AHK0696

General for State Form Reporting

GGK0007 - #5800805

Certificate of Analysis

Sample ID: AHK0696-01

Sampled By: Client

Sample Description: GGK0007-01 // Well 04

Sample Date - Time: 11/01/2024 - 13:45

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Hexavalent Chromium	EPA 218.7	ND	0.050	ug/L	1	AHK0500	11/08/24	11/08/24	

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.



AHK0696

General for State Form Reporting

GGK0007 - #5800805

Certificate of Analysis

Sample ID: AHK0696-02

Sampled By: Client

Sample Description: GGK0007-02 // Well 05

Sample Date - Time: 11/01/2024 - 13:47

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Hexavalent Chromium	EPA 218.7	ND	0.050	ug/L	1	AHK0500	11/08/24	11/08/24	

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.



**BSK Associates Laboratory Fresno
General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 218.7 - Quality Control

Batch: AHK0500

Prepared: 11/8/2024

Prep Method: Method Specific Preparation

Analyst: ERA

Blank (AHK0500-BLK1)

Hexavalent Chromium	ND	0.050	ug/L							11/08/24	
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Blank Spike (AHK0500-BS1)

Hexavalent Chromium	0.040	0.050	ug/L	0.050	ND	80	50-150			11/08/24	
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Matrix Spike (AHK0500-MS1), Source: AHK0691-01

Hexavalent Chromium	6.0	0.050	ug/L	2.0	3.9	105	85-115			11/08/24	
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Matrix Spike Dup (AHK0500-MSD1), Source: AHK0691-01

Hexavalent Chromium	6.0	0.050	ug/L	2.0	3.9	105	85-115	0	15	11/08/24	
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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.
- (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.

Certificate of Analysis

Definitions

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

Certificate of Analysis

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

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-023
State of Nevada	NV-C24-00233	State of Oregon - NELAP	4021-023
EPA UCMR5	CA00079	State of Washington	C997-24b

Sacramento

State of California - ELAP 1180-S1

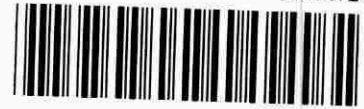
San Bernardino

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		

Sample Integrity



BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	<u>Yes</u> No NA	Were correct containers and preservatives received for the tests requested?	<u>Yes</u> No
	If samples were taken today, is there evidence that chilling has begun?	Yes No <u>NA</u>	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No <u>NA</u> Yes No <u>NA</u>
	Did all bottles arrive unbroken and intact?	<u>Yes</u> No	Was a sufficient amount of sample received?	<u>Yes</u> No
	Did all bottle labels agree with COC?	<u>Yes</u> No	Do samples have a hold time <72 hours?	Yes <u>No</u>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes <u>NA</u>	Was PM notified of discrepancies? PM: dt: email scan copy	Yes No <u>NA</u>	

Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)		Checks*	Passed?				
	Bacti Na₂S₂O₃	—	—	—	—			
None (P) White Label	—	—	—	—				
Cr6 (P) Lt. Green Label/Blue Cap NH₄OH(NH₄)₂SO₄ DW	Cl, pH > 8	<u>P</u> F			IA			
Cr6 (P) Pink Label/Blue Cap NH₄OH(NH₄)₂SO₄ WW	pH 9.3-9.7	P F						
Cr6 (P) Black Label/Blue Cap NH₄OH(NH₄)₂SO₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F						
HNO ₃ (P) Red Label or HCl (P) Purple Cap/Lt. Blue Label	—	—						
H ₂ SO ₄ (P) or (AG) Yellow Label	pH < 2	P F						
NaOH (P) Green Cap/Label	Cl, pH > 10	P F						
NaOH + ZnAc (P)	pH > 9	P F						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F						
NH ₄ Cl (AG) Purple Label 552	—	—						
EDA (P) or (AG) Brown Label DBPs	—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—						
Buffer pH 4 (CG)	—	—						
H ₃ PO ₄ (CG) Salmon Label	—	—						
Trizma - EPA 537.1 Light Blue Label FB	—	—						
Ammonia Acetate - EPA 533 Purple Label FB	—	—						
Bottled Water	—	—						
Clear Glass: Jar / VOA	—	—						
OTHER:	—	—						
OTHER:	—	—						

Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check
	S P					pH Lot # <u>AH07648</u> Cl Lot # <u>AH09382</u>

Comments	*Preservation check completed by lab performing analysis.	<input checked="" type="checkbox"/> Indicates Blanks Received
		504 ___ 524.2 ___ TTHM ___ 537/533 ___ TCP ___
	Labeled by:	Checked by:

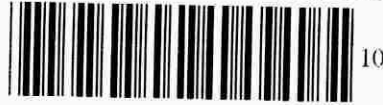
Scanned: Rush/Short HT Page: _____ Time: _____

T5



Cranmer Engineering, Inc.
Integrated Engineering Services

AIHK0696 Cranm7284 11/05/2024



10

SUBCONTRACT ORDER

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: *WJH*

Work Order: GGK0007

Project # 5800805

Analysis	Comments	Source ID
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Sample ID: GGK0007-01 Well 04 PSW#5800805-004 ✓ <i>Drinking Water Sampled: 11/01/2024 13:45</i>		CA5800805_004_004
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Hexavalent Chromium

Containers Supplied:

Poly 250 mL, Ammonium Bu

Sample ID: GGK0007-02 Well 05 PSW#5800805-005 ✓ <i>Drinking Water Sampled: 11/01/2024 13:47</i>		CA5800805_005_005
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Hexavalent Chromium

Containers Supplied:

Poly 250 mL, Ammonium Bu

Temp °C 3.3°C

Thermometer # 82

EDT Upload YES NO

Day Bay
Released By

11/04/24
Date

Jonathan Morse
Received By

11/5/24 15:30
Date

WJH / FedEx