

JAN 10 2023

NEVADA COUNTY
BOARD OF SUPERVISORS

Presentation to: The COUNTY OF NEVADA Board of Supervisors January 10, AD 2023
Presented by: Paul-Edward: [Gilbert]

Good Morning And a Happy New Year to all of you.

To our newest member of the board, congratulations, and now I'm going to bring you up to speed about a subject the board and I have been having over the past several months.

Now they should have briefed you on the request for information that the Assembly made back in November and their response to it.

I would like to thank the county for their response, some of it we are still reviewing, and we did find some nice gems, but most concerning were those questions that you couldn't find any responsive documents for. So, it would be reasonable for you to expect additional letters to come your way as we probe deeper into those subject areas both answered and unanswered.

Now for Lisa's benefit, what we are talking about is Nov 8, 1960, proposition 12. This is where the legislature put on the ballot proposition 12, which asked the people of California to make changes to the constitution and the people voted and they approved those changes.

Now one of those changes was to repeal the commencement date of the 1879 constitution. Now I ask you what is a constitution? Well, a constitution is a contract between the body sovereign We The People and a group of people who make up the many branches of government, who are to provide a service.

But wait, wasn't the California constitution created back in 1849 and when the state was admitted into the Union of several states that it was found to be republican in nature and thus, we were admitted into the union.

So, what happened in 1879, well there was a convention, and some changes were made, and our republican form of government was replaced with a federal overlay and just like that we went from being the California republic to the STATE OF CALIFORNIA a government services corporation.

Now this is where it gets fun, because buried in all the statutes, we find some curious entries about where the STATE OF CALIFORNIA is located. Please do your homework here, the answer might surprise you.

Now back to the contract/constitution. What happens to a contract if both parties agree to repealing the commencement date? Well, to start you wouldn't have a contract. For to have a valid contract there must be a starting date as to when that contract becomes effective.

So, what happens to a constitution when its commencement date is repealed. The constitution becomes null and void. And that is when the STATE OF CALIFORNIA became a defacto government. One that no longer has the authority to govern the people.

So, what happens next is a story not yet written, but will be unfolding before our very eyes in the coming months.

And now I wish you a good day and we will chat more about this and other relevant subjects at the next meeting.



PO Box 972, Cedar Ridge, CA 95924-0972
www.cea-nc.org / email: info@cea-nc.org

RECEIVED

JAN 10 2023

NEVADA COUNTY S
BOARD OF SUPERVISORS

Mine Waste and the Water Pollution Problem Jan 10, 2023

The Final EIR for Rise Gold's Idaho-Maryland Mine is inadequate because it fails to address the potentially significant impact of mine waste disposal.

The Mine project plans to export 1000 tons of tailings and waste rock per day. This mine waste will be dumped into 2 Engineered fill piles over the course of the first 11 years. After that, the mine waste will be disposed of through off-site sales.

There are significant issues with the disposal of mine waste due to the potential to pollute ground water and surface waters by leaching hazardous chemicals. This falls under the jurisdiction of the Regional Water Quality Control Board.

The Water Board classifies mine waste by Groups A, B, and C. Only Group C, which has relatively low levels of contaminants, is clean enough to be used for off-site sales. Groups A and B require more stringent controls. The Water board requires mine waste testing to determine classification. In response to the Draft EIR, the Water Board stated: "The applicant shall not sell or utilize waste rock and tailings from the Project for construction aggregate or fill purposes offsite unless such material has been tested and confirmed to qualify as Group C mining waste..." [1]

In the EIR, the Water Board and numerous other parties identified that there was insufficient testing to determine whether the mine waste would be Group C, suitable for off-site sales.

Per the Water Board comments:

"...the alternative scenario that the mining waste is not suitable for off-site use should be examined."

The Water Board goes on to state that Rise should assess any constraints or challenges associated with waste disposal in case they can't do off-site sales for construction aggregate. They conclude with:

"The Draft EIR should be revised to address this comment." [3]

Rise Gold acquired a collection of drill cores and samples from Emgold Mining when they purchased the mine. In addition, they did over 67,500 linear feet of exploratory drilling. Yet, from all those samples, they chose to test only 11 feet to characterize what will be over 25 million tons of waste rock that will be produced over the life of the mine. [2]

Disposal of mine waste is a critical element of the project with the potential for causing significant long term impacts. Yet no further testing was produced for the Final EIR. This is inexplicable.

CEQA requires that the EIR "...give the public and decision makers the most accurate and understandable picture practically possible of the project's likely near-term and long-term impacts." [4] This Final EIR fails to do that.

You are being asked to approve a project without knowing if any portion of the mine waste will qualify as Group C. Currently, there is no realistic plan for continued mine operations if you can't sell the mine waste.

The Final EIR response uses speculative, unproven assumptions stating that the mine rock "...would not be mined until mine waste characterization has been performed to ensure the rock will be suitable for off-site sale. Rock types that are not suitable for off-site sale would likely not be mined, and if mined, the waste rock would be placed underground" [5].

Mine waste classified as Group A and B requires specific management that must be determined by the Water Board, and cannot automatically be placed underground.

Backfilling with waste rock and tailings is the exact scenario which has led to polluted ground water discharges in so many mines in our area. This new element, the placement of Group A or B mine waste underground, was not included in the Draft EIR.

Even disposal of mine waste on the project sites for Engineered fill (Centennial for 5 years, Brunswick for 6 years) requires testing and will have to meet the Water Board's approval. Quoting the Final EIR:

"The barren rock and sand tailings would undergo testing as part of obtaining [Water Discharge Requirements] WDRs for use in the Engineered fill pads, and compliance with water quality objectives will need to be demonstrated to the [Water Board] prior to that placement ." [6]

The project description fails to provide an adequate means of interim storage for mine waste.

The viability of the entire project is dependent upon the safe disposal of mine waste under Group C. There were numerous core samples available that could have undergone static and long-term dynamic testing, yet, subsequent to the release of the Draft EIR, no additional testing was done.

Even if the mine waste is all Group C, it is hard to believe there will be no need to stockpile any of it for shipping off site. 1,000 tons/day will be coming out of the shaft. That's about 50 truck loads/day. Construction aggregate is seasonal. Most construction shuts down in the winter.

The Final EIR is inadequate because it fails to address the potentially significant impact of mine waste disposal. Again, critical testing after project approval does not provide an "...accurate and understandable picture...of the projects likely...impacts".

Thank you.

Ralph Silberstein
John Vaughan
CEA Foundation

///References///

[1] FEIR Page 2-61 (p134)

[2] 1000 Metric tons per day x 365 days per year x 75 years = 27,375,000 tons.

[3] FEIR Page 2-233, 234

[4] <https://casetext.com/regulation/california-code-of-regulations/title-14-natural-resources/division-6-resources-agency/chapter-3-guidelines-for-implementation-of-the-california-environmental-quality-act/article-9-contents-of-environmental-impact-reports/section-15125-environmental-setting>

[5] FEIR Page 2-60

[6] FEIR Page 2-59, 2-60 Master Response 11

Suzanne Smith

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

RECEIVED

JAN 10 2023

NEVADA COUNTY
BOARD OF SUPERVISORS

CLS Labs Job # 13B0794

Problem discovered by: D

Date: 2/16/23

Nature of problem

Sulfite

Chlorine, Total

Chlorine, Residual



Dissolved O2

BOD, 1ST, NO2, NO3, MBAS

(Circle analysis above) Received out of HOLD time.

Client contacted? Yes _____ No _____ Spoke With: _____

By whom: _____ Date: 1 / 1 Time: _____ HRS

Client instructions:

Resolution of problem:

Logged in regardless and will be ran for analysis request.

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # 1380794

Problem discovered by: D

Date: 2/16/13

Nature of problem

Sulfite	Chlorine, Total	Chlorine, Residual	<u>Ph</u>	Dissolved O2
<u>BOD, 1ST, NO2, NO3, MBAS</u>				
<u>(Circle analysis above) Received out of HOLD time.</u>				

Client contacted? Yes ☐ No ☐ Spoke With: _____

By whom: _____ Date: ____/____/____ Time: _____ HRS

Client instructions:

Resolution of problem:

Logged in regardless and will be ran analysis requested.

CLS - Labs

CHAIN OF CUSTODY

CLS ID No:

LOG N 186621

REPORT TO

NAME AND ADDRESS
B. J. ...
...

ORIGINATOR / AGENCY

☒ CLS (916) 638-7301

3200 FITZGERALD DR
RANCHO CERRITOS, CA 94720

OTHER

ANALYSIS REQUESTED

GEOTRACKER:

EDF REPORT | YES ☒ N

GLOBAL ID:

COMPASS

PRESERVATIVES

TURN AROUND TIME

SPECIAL INSTRUCTIONS

OR

DATE TIME

SAMPLE IDENTIFICATION

MATRIX

CONTAINER NO. TYPE

ALT.

ID:

ACQUINISHED BY (SIGN)

PRINT NAME COMPANY

DATE TIME

RECEIVED BY (SIGN)

PRINT NAME COMPANY

SHIPPED BY

FEDX

UPS

OTHER

AIR BRN



CALIFORNIA
LABORATORY
SERVICES
Certified Analytical Results

REPORT TO:		CHAIN OF CUSTODY		CLS ID No.: 14D115Z		LOG N2 198230	
NAME AND ADDRESS: EMKO Environmental, Inc. 551 Lakeside Dr. El Dorado Hills, CA 95762 PROJECT MANAGER: Andy Kopania PROJECT NAME: Wolf Creek SAMPLED BY: Andy Kopania JOB DESCRIPTION:		CLIENT JOB NUMBER		ANALYSIS REQUESTED		GEOTRACKER: EOT REPORT ☐ YES ☒ NO GLOBAL ID:	
DESTINATION LABORATORY ☒ CLS (916) 638-7301 3049 FITZGERALD RD. RANCHO CORDOVA, CA 95742 ☐ OTHER		PRESERVATIVES		Drinking Water Metals Ammonia - 25 ug/L		COPH WRITE ON EOT TRANSMISSION? ☐ YES ☒ NO STATE SYSTEM NUMBER IF "YES" PLEASE ENTER THE SOURCE NUMBER(S).	
SITE LOCATION Cypress Valley		CONTAINER		TURN AROUND TIME		SPECIAL INSTRUCTIONS	
DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	NO.	TYPE	OR	ALT. ID:
4/12/19	10:35	1MD-1-419	W	1	1L	3	X
4/12/19	10:35	1MD-1-419	W	1	500mL	2	X
4/12/19	10:35	1MD-1-419	W	1	125mL	5	X
4/12/19	13:15	SF-Culvert	W	1	1L	3	X
	13:15	SF-Culvert	W	1	500mL	2	X
	13:15	SF-Culvert	W	1	125mL	5	X
	13:55	SF-Pad	W	1	1L	3	X
	13:55	SF-Pad	W	1	500mL	2	X
	13:55	SF-Pad	W	1	125mL	5	X
	15:45	WL-D	W	1	1L	3	X
	15:45	WL-D	W	1	500mL	2	X
	15:45	WL-D	W	1	125mL	5	X
Email/Address akopania@shelglobal.net		PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)	
		Andy Kopania / Emko		4/12/19 8:10 AM			
RELINQUISHED BY (SIGN)		DATE / TIME		CONDITIONS / COMMENTS:		AIR BILL #	
		4/12/19		0.4			
RECEIVED AT LAB BY:		DATE / TIME		SHIPPED BY:		DATE / TIME	
		4/12/19					
SHIPPED BY:		DATE / TIME		SHIPPED BY:		DATE / TIME	
		4/12/19					

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # 1901152

Problem discovered by: Grave

Date: 9, 18, 19

Nature of problem

Sulfite

Chlorine, Total

Chlorine, Residual

Ph

Dissolved O2

(Circle analysis above) Received out of HOLD time.

Client contacted? Yes ☐ No ☐ Spoke With: _____

By whom: _____ Date: / / Time: _____ **HRS**

Client instructions:

Resolution of problem:

Logged in regardless and will be ran for analysis requested.

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSA8</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>POV</i>	Practical Quantitation Verification standard
<i>LCSD</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

<i>Blanks</i>	Verifies that there is no or minimal contamination in the prep method or calibration procedure
<i>Control Samples</i>	Verifies the accuracy of the method, including the prep procedure
<i>Duplicates</i>	Verifies the precision of the instrument and/or method
<i>Spikes/Fortified Matrix</i>	Determines sample matrix interferences, if any
<i>Standard</i>	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time
<i>L</i>	Target analyte response was below the laboratory defined negative threshold
<i>U</i>	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes. March 1983
(2)	EPA 600/R-83-100. Methods for the Determination of Inorganic Substances in Environmental Samples. August 1993
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement 1, May 1994
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste
(5)	Standard Methods for the Examination of Water and Wastewater

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or quantitation qualifier associated with the result.

Subject: RE: 1880794
From: "Mark Smith" <marks@californialab.com>
Date: 02/20/2018 11:00
To: "Cynthia Casarez" <cynthiac@fglinc.com>
CC: "Shellie Furnas" <shellief@californialab.com>

Hi Cynthia

You are correct, I saw the discrepancy yesterday during our review, however, we failed to send the revised COC - please see attached. Should you have any questions, please do not hesitate to give us a call. Take care and enjoy your day.

Mark G. Smith
Operations Manager
California Laboratory Services
3249 Fitzgerald Rd
Rancho Cordova, CA 95742
(800) 638-7301 Ext. 105 (Office)
916.638.4510 (FAX)
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-----Original Message-----

From: Cynthia Casarez [<mailto:cynthiac@fglinc.com>]
Sent: Tuesday, February 20, 2018 10:51 AM
To: Mark Smith <marks@californialab.com>
Subject: Re: 1880794

Thank You Mark.

I Also did not receive a sample container for Lab ID: 1880794-09.

On 02/20/2018 10:47, Mark Smith wrote:

Hello Cynthia:

No these samples do not require state reporting - thank you for checking - enjoy your day.

Rise Grass Valley Inc.

ACZ Project ID: L55806
Date Received: 11/11/2019 14:20
Received By: mjj
Date Printed: 11/12/2019

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?		X	
L55806-02 : Sample container was broken, was placed in ziplock bag.			
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?		X	

Some parameters were received past hold time.

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler ID	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA31789	1-1.8	6.0	15	N/A

Was ice present in the shipment container(s)?

No - Wet or gel ice was not present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Rise Grass Valley Inc.

ACZ Project ID: L55806

ACZ ID	WORKBOOK	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation ($< 10\times$ MDL).
WG487159	Manganese, total (3050)		M60100 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
WG486762	Mercury (WET DI)		M7470 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG486482	Mercury by Direct Combustion AA		M7473 CVAAS	Q5	Sample was received above recommended temperature.
			M7473 CVAAS	QR	Sample matrix is solid rock and a homogeneous sample aliquot could not be created for Hg analysis prior to preparation and air drying. Hg analysis was performed on crushed, homogenized, and air dried (40°C) sub sample. Some loss of Hg may have occurred. Residual moisture on the prepped sample fraction was used for data correction.
			M7473 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG486611	Molybdenum (WET DI)		60100 ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG487159	Molybdenum, total (3050)		M60100 ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
WG486611	Nickel (WET DI)		60100 ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG487159	Nickel, total (3050)		M60100 ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
WG486756	Nitrate/Nitro as N (WET DI)		M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	Q5	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
		Nitrate as N (WET DI)	M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	Q5	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG485504	Residue (Rubbish) (TDS) ≥ 1900 (WET DI)		SM2540G	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG487090	Selenite (WET DI)		60208 ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
	Silver (WET DI)		60208 ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10\times$ MDL).
WG488017	Sulfate (WET DI)		D816 07 Turbidimetric	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

Show the bookmarks in this folder

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
	WG487159	Manganese, total (3060)	M62100 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG486752	Mercury (WET DI)	M7470 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG486482	Mercury by Direct Combustion AA	M7473 CVAAS	Q5	Sample was received above recommended temperature.
			M7473 CVAAS	OR	Sample matrix is solid rock and a homogeneous sample aliquot could not be created for Hg analysis prior to preparation and air drying. Hg analysis was performed on crushed, homogenized, and air dried (40C) sub sample. Some loss of Hg may have occurred. Residual moisture on the prepped sample fraction was used for data correction.
			M7473 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG486511	Molybdenum (WET DI)	60100 ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nickel (WET DI)	60100 ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG487169	Nickel, total (3050)	M60100 ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG486756	Nitrate/Nitrite as N (WET DI)	M353 2 - Automated Cadmium Reduction	HC	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	Q5	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N (WET DI)	M353 2 - Automated Cadmium Reduction	HC	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	Q5	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG486774	Residue Filterable (TDS) @1900 (WET DI)	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG487002	Selenium (WET DI)	6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Silver (WET DI)	6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG486511	Sulfate (WET DI)	D516-07 - Turbidimetric	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			D516-07 - Turbidimetric	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data

REPAD 15 06.05.07

Rise Grass Valley Inc.

ACZ Project ID: L55806

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					or LFB) was acceptable.
WG486752	Mercury (WET DI)		M7470 CVA4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG486482	Mercury by Direct Combustion AA		M7473 CVAAS M7473 CVAAS	Q5	Sample was received above recommended temperature.
				QR	Sample matrix is solid rock and a homogeneous sample aliquot could not be created for Hg analysis prior to preparation and air drying. Hg analysis was performed on crushed, homogenized, and air dried (40C) sub sample. Some loss of Hg may have occurred. Residual moisture on the prepped sample fraction was used for data correction.
			M7473 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG486811	Molybdenum (WET DI)		8010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG487169	Molybdenum, total (3059)		M60100 ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
WG486811	Nickel (WET DI)		8010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG486756	Nitrate/Nitrite as N (WET DI)		M353.2 - Automated Cadmium Reduction M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
				HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-for analysis.
			M353.2 - Automated Cadmium Reduction M353.2 - Automated Cadmium Reduction	Q5	Sample was received above recommended temperature.
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	Nitrite as N (WET DI)		M353.2 - Automated Cadmium Reduction M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
				HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-for analysis.
			M353.2 - Automated Cadmium Reduction M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG487543	pH		M9341C/M9340C	EB	A pH value outside the range of the probe standardization is estimated.
WG486634	Residue, Filterable (TDS) @ 180C (WET DI)		8M65400	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG487125	Selenium (WET DI)		8020B ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	Silver (WET DI)		8020B ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG486017	Sulfate (WET DI)		D516-07 - Turbidimetry	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-for analysis.
			D516-07 - Turbidimetry	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-07 - Turbidimetry	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Rise Grass Valley Inc.

ACZ Project ID: L55808

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG487159	Manganese, total (3050)	M9610D ICP	M3	sample is too low for accurate evaluation ($< 10 \times$ MDL) The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG486752	Mercury (WET DI)	M7476 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG486482	Mercury by Direct Combustion AA	M7473 CVAAS M7473 CVAAS	C6	Sample was received above recommended temperature.
			M7473 CVAAS	OR	Sample matrix is solid rock and a homogeneous sample aliquot could not be created for Hg analysis prior to preparation and air drying. Hg analysis was performed on crushed, homogenized, and air dried (40C) sub sample. Some loss of Hg may have occurred. Residual moisture on the prepped sample fraction was used for data correction.
			M7473 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG486811	Molybdenum (WET DI)	6010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG487169	Molybdenum total (3050)	M9610D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG486811	Nickel (WET DI)	6010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG487169	Nickel total (3050)	M9610D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG486756	Nitrate/Nitrite as N (WET DI)	M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	C6	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
		Nitrite as N (WET DI)	M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	C6	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG486804	Residue Filterable (TDS) @ 1800 (WET DI)	SM2540	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG487095	Selenium (WET DI)	6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
		Silver (WET DI)	6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10 \times$ MDL).
	WG486812	Sulfate (WET DI)	0514-01-10 Titrimetric	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

REPAD:15.06.05.01

Rise Grass Valley Inc.

ACZ Project ID: L55808

ACZ ID	WORKITEM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL)
WG487169	Manganese, total (3050)		M5010D ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
WG486782	Mercury (WET DI)		M7470 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG486482	Mercury by Direct Combustion AA		M7473 CVAAS M7473 CVAAS	O6	Sample was received above recommended temperature.
				QR	Sample matrix is solid rock and a homogenous sample aliquot could not be created for Hg analysis prior to preparation and air drying. Hg analysis was performed on crushed, homogenized, and air dried (40C) sub sample. Some loss of Hg may have occurred. Residual moisture on the prepped sample fraction was used for data correction.
			M7473 CVAAS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG486811	Molybdenum (WET DI)		6010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG487169	Molybdenum total (3050)		M5010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
WG486811	Nickel (WET DI)		6010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG487169	Nickel, total (3050)		M5010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
WG486756	Nitrate/Nitrite as N (WET DI)		M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	O6	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
		Nitrite as N (WET DI)	M353 2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353 2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353 2 - Automated Cadmium Reduction	O6	Sample was received above recommended temperature.
			M353 2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG486804	Residue Filterable (TDS) @ 1800 (WET DI)		SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG487095	Selenium (WET DI)		6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
	Silver (WET DI)		6020B ICP MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL)
WG488017	Sulfate (WET DI)		0516-07 - Titrimetric	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.



Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Amount	Value of the QC Type of interest
Uperc	Upper limit for RPD, in %
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
QXP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Inter Calibration Blank	MS	Matrix Spike
ICV	Inter Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSEB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSDW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure
Control Samples	Verifies the accuracy of the method, including the prep procedure
Duplicates	Verifies the precision of the instrument and/or method
Spike/Fortified Matrix	Determines sample matrix interferences, if any
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time
L	Target analyte response was below the laboratory defined negative threshold
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020 Methods for Chemical Analysis of Water and Wastes, March 1983
- (2) EPA 600/R-83-101 Methods for the Determination of Inorganic Substances in Environmental Samples, August 1981
- (3) EPA 600/R-84-111 Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1984
- (4) EPA SW 845 Test Methods for Evaluating Solid Waste
- (5) Standard Methods for the Examination of Water and Wastewater

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations
- (2) Soil, Sludge, and Fly Ash matrices for inorganic analyses are reported on a dry weight basis
- (3) Animal matrices for inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "MDL" column indicates there is an extended qualifier and/or certification qualifier associated with the result
- (5) If the MDL equals the PQL, in the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please call:

1-800-334-5493, ext. 200 or 201 or 202 or 203 or 204 or 205 or 206 or 207 or 208 or 209 or 210 or 211 or 212 or 213 or 214 or 215 or 216 or 217 or 218 or 219 or 220 or 221 or 222 or 223 or 224 or 225 or 226 or 227 or 228 or 229 or 230 or 231 or 232 or 233 or 234 or 235 or 236 or 237 or 238 or 239 or 240 or 241 or 242 or 243 or 244 or 245 or 246 or 247 or 248 or 249 or 250 or 251 or 252 or 253 or 254 or 255 or 256 or 257 or 258 or 259 or 260 or 261 or 262 or 263 or 264 or 265 or 266 or 267 or 268 or 269 or 270 or 271 or 272 or 273 or 274 or 275 or 276 or 277 or 278 or 279 or 280 or 281 or 282 or 283 or 284 or 285 or 286 or 287 or 288 or 289 or 290 or 291 or 292 or 293 or 294 or 295 or 296 or 297 or 298 or 299 or 300 or 301 or 302 or 303 or 304 or 305 or 306 or 307 or 308 or 309 or 310 or 311 or 312 or 313 or 314 or 315 or 316 or 317 or 318 or 319 or 320 or 321 or 322 or 323 or 324 or 325 or 326 or 327 or 328 or 329 or 330 or 331 or 332 or 333 or 334 or 335 or 336 or 337 or 338 or 339 or 340 or 341 or 342 or 343 or 344 or 345 or 346 or 347 or 348 or 349 or 350 or 351 or 352 or 353 or 354 or 355 or 356 or 357 or 358 or 359 or 360 or 361 or 362 or 363 or 364 or 365 or 366 or 367 or 368 or 369 or 370 or 371 or 372 or 373 or 374 or 375 or 376 or 377 or 378 or 379 or 380 or 381 or 382 or 383 or 384 or 385 or 386 or 387 or 388 or 389 or 390 or 391 or 392 or 393 or 394 or 395 or 396 or 397 or 398 or 399 or 400 or 401 or 402 or 403 or 404 or 405 or 406 or 407 or 408 or 409 or 410 or 411 or 412 or 413 or 414 or 415 or 416 or 417 or 418 or 419 or 420 or 421 or 422 or 423 or 424 or 425 or 426 or 427 or 428 or 429 or 430 or 431 or 432 or 433 or 434 or 435 or 436 or 437 or 438 or 439 or 440 or 441 or 442 or 443 or 444 or 445 or 446 or 447 or 448 or 449 or 450 or 451 or 452 or 453 or 454 or 455 or 456 or 457 or 458 or 459 or 460 or 461 or 462 or 463 or 464 or 465 or 466 or 467 or 468 or 469 or 470 or 471 or 472 or 473 or 474 or 475 or 476 or 477 or 478 or 479 or 480 or 481 or 482 or 483 or 484 or 485 or 486 or 487 or 488 or 489 or 490 or 491 or 492 or 493 or 494 or 495 or 496 or 497 or 498 or 499 or 500 or 501 or 502 or 503 or 504 or 505 or 506 or 507 or 508 or 509 or 510 or 511 or 512 or 513 or 514 or 515 or 516 or 517 or 518 or 519 or 520 or 521 or 522 or 523 or 524 or 525 or 526 or 527 or 528 or 529 or 530 or 531 or 532 or 533 or 534 or 535 or 536 or 537 or 538 or 539 or 540 or 541 or 542 or 543 or 544 or 545 or 546 or 547 or 548 or 549 or 550 or 551 or 552 or 553 or 554 or 555 or 556 or 557 or 558 or 559 or 560 or 561 or 562 or 563 or 564 or 565 or 566 or 567 or 568 or 569 or 570 or 571 or 572 or 573 or 574 or 575 or 576 or 577 or 578 or 579 or 580 or 581 or 582 or 583 or 584 or 585 or 586 or 587 or 588 or 589 or 590 or 591 or 592 or 593 or 594 or 595 or 596 or 597 or 598 or 599 or 600 or 601 or 602 or 603 or 604 or 605 or 606 or 607 or 608 or 609 or 610 or 611 or 612 or 613 or 614 or 615 or 616 or 617 or 618 or 619 or 620 or 621 or 622 or 623 or 624 or 625 or 626 or 627 or 628 or 629 or 630 or 631 or 632 or 633 or 634 or 635 or 636 or 637 or 638 or 639 or 640 or 641 or 642 or 643 or 644 or 645 or 646 or 647 or 648 or 649 or 650 or 651 or 652 or 653 or 654 or 655 or 656 or 657 or 658 or 659 or 660 or 661 or 662 or 663 or 664 or 665 or 666 or 667 or 668 or 669 or 670 or 671 or 672 or 673 or 674 or 675 or 676 or 677 or 678 or 679 or 680 or 681 or 682 or 683 or 684 or 685 or 686 or 687 or 688 or 689 or 690 or 691 or 692 or 693 or 694 or 695 or 696 or 697 or 698 or 699 or 700 or 701 or 702 or 703 or 704 or 705 or 706 or 707 or 708 or 709 or 710 or 711 or 712 or 713 or 714 or 715 or 716 or 717 or 718 or 719 or 720 or 721 or 722 or 723 or 724 or 725 or 726 or 727 or 728 or 729 or 730 or 731 or 732 or 733 or 734 or 735 or 736 or 737 or 738 or 739 or 740 or 741 or 742 or 743 or 744 or 745 or 746 or 747 or 748 or 749 or 750 or 751 or 752 or 753 or 754 or 755 or 756 or 757 or 758 or 759 or 760 or 761 or 762 or 763 or 764 or 765 or 766 or 767 or 768 or 769 or 770 or 771 or 772 or 773 or 774 or 775 or 776 or 777 or 778 or 779 or 780 or 781 or 782 or 783 or 784 or 785 or 786 or 787 or 788 or 789 or 790 or 791 or 792 or 793 or 794 or 795 or 796 or 797 or 798 or 799 or 800 or 801 or 802 or 803 or 804 or 805 or 806 or 807 or 808 or 809 or 810 or 811 or 812 or 813 or 814 or 815 or 816 or 817 or 818 or 819 or 820 or 821 or 822 or 823 or 824 or 825 or 826 or 827 or 828 or 829 or 830 or 831 or 832 or 833 or 834 or 835 or 836 or 837 or 838 or 839 or 840 or 841 or 842 or 843 or 844 or 845 or 846 or 847 or 848 or 849 or 850 or 851 or 852 or 853 or 854 or 855 or 856 or 857 or 858 or 859 or 860 or 861 or 862 or 863 or 864 or 865 or 866 or 867 or 868 or 869 or 870 or 871 or 872 or 873 or 874 or 875 or 876 or 877 or 878 or 879 or 880 or 881 or 882 or 883 or 884 or 885 or 886 or 887 or 888 or 889 or 890 or 891 or 892 or 893 or 894 or 895 or 896 or 897 or 898 or 899 or 900 or 901 or 902 or 903 or 904 or 905 or 906 or 907 or 908 or 909 or 910 or 911 or 912 or 913 or 914 or 915 or 916 or 917 or 918 or 919 or 920 or 921 or 922 or 923 or 924 or 925 or 926 or 927 or 928 or 929 or 930 or 931 or 932 or 933 or 934 or 935 or 936 or 937 or 938 or 939 or 940 or 941 or 942 or 943 or 944 or 945 or 946 or 947 or 948 or 949 or 950 or 951 or 952 or 953 or 954 or 955 or 956 or 957 or 958 or 959 or 960 or 961 or 962 or 963 or 964 or 965 or 966 or 967 or 968 or 969 or 970 or 971 or 972 or 973 or 974 or 975 or 976 or 977 or 978 or 979 or 980 or 981 or 982 or 983 or 984 or 985 or 986 or 987 or 988 or 989 or 990 or 991 or 992 or 993 or 994 or 995 or 996 or 997 or 998 or 999 or 1000

Rise Grass Valley Inc.

ACZ Project ID: L55808

Date Received: 11/11/2019 14:21

Received By: mg

Date Printed: 11/12/2019

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Sample Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1531 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Comments

Shipping Containers

Cooler ID	Temp (°C)	Temp Critical (°C)	Bedrock/Hill	Custody Seal
NOJ1191	13.8	NA	13	N/A

Was ice present in the shipment container(s)?

NA - Was or gel/ice was not present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

CLS LABS
SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # 1401152

Problem discovered by: Grall

Date: 9, 18, 19

Nature of problem

Sulfite

Chlorine, Total

Chlorine, Residual

Ph

Dissolved O2

(Circle analysis above) Received out of HOLD time.

Client contacted? Yes ☐ No ☐ Spoke With: _____

By whom: _____ Date: 1 / 1 Time: _____ HRS

Client instructions:

Resolution of problem:

Logged in regardless and will be ran for analysis requested.

Rise Grass Valley Inc.

ACZ Project ID: L55806
Date Received: 11/11/2019 14:20
Received By: mj
Date Printed: 11/12/2019

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? 1			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?		X	
L55806-02 : Sample container was broken, was placed in ziplock bag.			
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?		X	

Some parameters were received past hold time.

NA indicates Not Applicable

Chain of Custody Signed Remarks

Client Contact Remarks

Container

Container ID	Temp (°C)	Temp Criteria (°C)	Radiation	Custody Seal Intact
NA11783	19.8	4-6.5	75	N/A

Was ice present in the shipment container(s)?

No - Wet or gel ice was not present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria