

April 9, 2024

**Lab No. : SP 2403680**

**Customer No. : 2021676**

**Meadowlark Ranches Mutual Water Co.**

Attn: Mike Hadley

P.O. Box 606

Santa Ynez, CA 93460-0606

### Laboratory Report

**Introduction:** This report package contains a total of 7 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(4 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
WELL 2	03/13/2024	03/13/2024	SP 2403680-001	DW
WELL 3	03/13/2024	03/13/2024	SP 2403680-002	DW
WELL 4	03/13/2024	03/13/2024	SP 2403680-003	DW

**Sampling and Receipt Information:** All samples were performed by FGL.

All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.


#### Test Summary

EPA 200.8	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 900.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA RA-05	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

**Certification:** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: MKH

Approved By **Kelly A. Dunnahoo, B.S.**



 Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-04-09

## RADIO CHEMICALS ANALYSIS

Date of Report : April 9, 2024

Sample ID : SP 2403680-001

Laboratory Name : **FGL Environmental**

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2024-04-09

Sampled On : 03/13/2024-09:25

Received On : 03/13/2024-14:10

Completed On : 04/09/2024-09:04

Sampled By : Matthew Jimenez

Employed By : FGL Environmental

### Sample Point Information

**EDT**

PS Code : CA4200612\_002\_002

Sample Point Name : WELL 2

Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

### RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA RA-05	Radium 228	4030	0.000	pCi/L	0.931	0.0494		1	1573

MCL - Maximum Contaminant Level,

DLR - Detection Limit for Reporting Purpose,


ND - Not Detected at or above DLR

## INORGANIC CHEMICALS ANALYSIS

Date of Report : April 9, 2024

Sample ID : SP 2403680-002

Laboratory Name : **FGL Environmental**

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2024-04-09

Sampled On : 03/13/2024-09:45

Received On : 03/13/2024-14:10

Completed On : 04/09/2024-09:04

Sampled By : Matthew Jimenez

Employed By : FGL Environmental

### Sample Point Information

**EDT**

PS Code : CA4200612\_003\_003

Sample Point Name : WELL 3

Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

### ADDITIONAL INORGANIC

Method Code	Chemicals	Analyte Code	Result	Units	MCL	DLR	ELAP
EPA 200.8	Uranium	4006	ND	pCi/L	20	1	1573

MCL - Maximum Contaminant Level,

DLR - Detection Limit for Reporting Purpose,


ND - Not Detected at or above DLR

## RADIO CHEMICALS ANALYSIS

Date of Report : April 9, 2024

Sample ID : SP 2403680-002

Laboratory Name : **FGL Environmental**

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2024-04-09

Sampled On : 03/13/2024-09:45

Received On : 03/13/2024-14:10

Completed On : 04/09/2024-09:04

Sampled By : Matthew Jimenez

Employed By : FGL Environmental

### Sample Point Information

**EDT**

PS Code : CA4200612\_003\_003

Sample Point Name : WELL 3

Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

### RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA 900.0	Gross Alpha	4109	1.93	pCi/L	1.360	1.89	15	3	1573
EPA RA-05	Radium 228	4030	0.000	pCi/L	1.050	0.0502		1	1573

MCL - Maximum Contaminant Level,

DLR - Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

## RADIO CHEMICALS ANALYSIS

Date of Report : April 9, 2024

Sample ID : SP 2403680-003

Laboratory Name : **FGL Environmental**

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2024-04-09

Sampled On : 03/13/2024-09:35

Received On : 03/13/2024-14:10

Completed On : 04/09/2024-09:04

Sampled By : Matthew Jimenez

Employed By : FGL Environmental

### Sample Point Information

**EDT**

PS Code : CA4200612\_004\_004

Sample Point Name : WELL 4

Water System Name : MEADOWLARK RANCHES MUTUAL WATER COMPANY

### RADIOLOGICAL

Method Code	Chemicals	Analyte Code	Result	Units	Counting Error +/-	MDA95	MCL	DLR	ELAP
EPA RA-05	Radium 228	4030	0.153	pCi/L	1.150	0.0493		1	1573

MCL - Maximum Contaminant Level,

DLR - Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

April 9, 2024

**Meadowlark Ranches Mutual Water Co.**

Lab No. : SP 2403680

Customer No. : 2021676

**Quality Control - Metals**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Uranium	200.8	03/14/2024:202889AC (VI 2441897-001)	MS	ug/L	5.000	90.1%	75-125	
			MSD	ug/L	5.000	103%	75-125	
			MSRPD	ug/L		13.6%	≤20	

**Definition**

- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

April 9, 2024

Meadowlark Ranches Mutual Water Co.

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### Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Radio</b>								
Gross Alpha	900.0	03/21/2024:203124AMR	Blank	pCi/L		ND	<1.2077	
			LCS	pCi/L	128.2	123%	50-135	
			MS	pCi/L	128.2	69.1%	60-140	
		(SP 2403816-001)	MSD	pCi/L	128.2	75.5%	60-140	
			MSRPD	pCi/L		8.0%	≤30	
Radium - 228	Ra - 05	04/04/2024:203162EMV	RgBlk	pCi/L		0.5309	0.050846	
			LRS	pCi/L	22.01	83.9%	65-108	
			MS	pCi/L	22.01	104%	75-125	
		(SP 2403557-001)	MSD	pCi/L	22.01	113%	75-125	
			MSRPD	pCi/L		8.8%	≤25	

### Definition

Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
LRS	: Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
RgBlk	: Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.

1923:03/18/2024				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information												L215				
<b>Client:</b> Meadowlark Ranches Mutual Water Co. <b>Address:</b> Attn: Mike Hadley P.O. Box 606 Santa Ynez, CA 93460-0606 <b>Phone:</b> (805)688-3132 <b>Fax:</b> <b>Contact Person:</b> Mike Hadley <b>Project Name:</b> Water Quality - Radio <b>Purchase Order Number:</b> <b>Quote Number:</b>				<b>Method of Sampling:</b> Composite(C) Grab(G) <b>Type of Sample</b> **SEE REVERSE SIDE** <b>Potable(P)</b> <b>Non-Potable(NP)</b> <b>Ag Water(AgW)</b> <b>Bacti Type:</b> Other(O) <b>System(SYS)</b> <b>Source(SR)</b> <b>Waste(W)</b> <b>Bacti Reason:</b> Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL) <b>Sampling-Sampling Fee</b> <b>Radio Chemistry-Ra 228</b> 32oz(P)-HNO3 <b>Radio Chemistry-Gross Alpha</b> 32oz(P) <b>Metals, Total-U</b> 250ml(P)-HNO3																
<b>Sampler(s)</b> M. Jimenez <b>Sampling Fee:</b> _____ <b>Pickup Fee:</b> _____ <b>Compositor Setup Date:</b> ____/____/____ <b>Time:</b> ____/____				<b>Lab Number:</b> SP 2403680 2-21676																
Samp Num	Location Description	Date Sampled	Time Sampled	G	DW															
1	WELL 2	3/13/24	9:25	G	DW					X	2									
2	WELL 3	↓	9:45	G	DW					X	2	1	1							
3	WELL 4	↓	9:35	G	DW					X	2									
<b>Remarks:</b>				Relinquished 				Date: 3/13/24 Time: 1410				Relinquished 				Date: Time:				
				Received By: CDA				Date: 2 Time: 2				Received By:				Date: Time:				

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