

January 8, 2024

**Lab No. : SP 2320579**

**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 10 pages divided into 4 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(4 pages)	: Results for each sample submitted.
Interpretation	(3 pages)	: Drinking water Interpretation 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	12/14/2023	12/14/2023	SP 2320579-001	DW
WELL 3	12/14/2023	12/14/2023	SP 2320579-002	DW
WELL 4	12/14/2023	12/14/2023	SP 2320579-003	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: GMA

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-01-08

## RADIO CHEMICALS ANALYSIS

Date of Report : January 8, 2024      Sample ID : SP 2320579-001

Laboratory Name : **FGL Environmental**  
 Sampled On : 12/14/2023-09:55  
 Received On : 12/14/2023-14:00  
 Completed On : 01/08/2024-10:09

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-01-08

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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	0.311	pCi/L	0.975	0.0499		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 : January 8, 2024      Sample ID : SP 2320579-002

Laboratory Name : **FGL Environmental**  
 Sampled On : 12/14/2023-09:44  
 Received On : 12/14/2023-14:00  
 Completed On : 01/08/2024-10:09

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-01-08

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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	1.07	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 : January 8, 2024      Sample ID : SP 2320579-002

Laboratory Name : **FGL Environmental**  
 Sampled On : 12/14/2023-09:44  
 Received On : 12/14/2023-14:00  
 Completed On : 01/08/2024-10:09

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-01-08

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	2.08	pCi/L	1.380	1.99	15	3	1573
EPA RA-05	Radium 228	4030	0.000	pCi/L	0.797	0.0484		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 : January 8, 2024 Sample ID : SP 2320579-003

Laboratory Name : **FGL Environmental**  
 Sampled On : 12/14/2023-10:08  
 Received On : 12/14/2023-14:00  
 Completed On : 01/08/2024-10:09

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2024-01-08

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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	0.000	pCi/L	0.878	0.0495		1	1573

MCL - Maximum Contaminant Level, DLR - Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

January 8, 2024

**Meadowlark Ranches Mutual Water Co.**

Description : WELL 2  
 Project : Water Quality - Radio

Lab No. : SP 2320579-001  
 Customer No. : 2021676  
 Matrix : Drinking Water  
 Sampled On : December 14, 2023 at 09:55

ND=Non-Detect

**Definitions**

MCL	The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.
Primary	Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.
Secondary	Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.
Treatment	<p>If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed under the following searches:</p> <ul style="list-style-type: none"> <li>Water Purification &amp; Filtration Equipment</li> <li>Water Softening &amp; Conditioning Equipment</li> <li>Water Treatment Equipment</li> </ul>

January 8, 2024

**Meadowlark Ranches Mutual Water Co.**

Description : WELL 3  
 Project : Water Quality - Radio

Lab No. : SP 2320579-002  
 Customer No. : 2021676  
 Matrix : Drinking Water  
 Sampled On : December 14, 2023 at 09:44

### Drinking Water Interpretations

**Summary:** Your water was acceptable for all items tested on this sample report. Details are presented below:

Constituent	Result	Units	MCL	Result Compared to MCL	
<b>Inorganic - Primary</b>				Less Than or Equal	Exceeded
Uranium	1.07	pCi/L	30	<b>PASS</b>	
<b>Radio - Primary</b>				Less Than or Equal	Exceeded
Gross Alpha	2.08	pCi/L	15	<b>PASS</b>	

ND=Non-Detect

#### Definitions

MCL	The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.
Primary	Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.
Secondary	Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.
Treatment	<p>If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed under the following searches:</p> <ul style="list-style-type: none"> <li>Water Purification &amp; Filtration Equipment</li> <li>Water Softening &amp; Conditioning Equipment</li> <li>Water Treatment Equipment</li> </ul>



January 8, 2024

**Meadowlark Ranches Mutual Water Co.**

Description : WELL 4  
Project : Water Quality - Radio

Lab No. : SP 2320579-003  
Customer No. : 2021676  
Matrix : Drinking Water  
Sampled On : December 14, 2023 at 10:08

ND=Non-Detect

**Definitions**

MCL	The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.
Primary	Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.
Secondary	Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.
Treatment	If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed under the following searches:  Water Purification & Filtration Equipment Water Softening & Conditioning Equipment Water Treatment Equipment



January 8, 2024

**Meadowlark Ranches Mutual Water Co.**

Lab No. : SP 2320579

Customer No. : 2021676

**Quality Control - Metals**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Uranium	200.8	12/15/2023:214144AC (CH 2390439-001)	MS	ug/L	5.000	88.1%	75-125	
			MSD	ug/L	5.000	108%	75-125	
			MSRPD	ug/L		18.6%	≤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.

January 8, 2024

**Meadowlark Ranches Mutual Water Co.**

Lab No. : SP 2320579

Customer No. : 2021676

**Quality Control - Radio**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Radio</b>								
Gross Alpha	900.0	01/02/2024:200010AMR  (SP 2321052-001)	Blank	pCi/L		ND	<1.3162	
			LCS	pCi/L	128.2	92.9%	50-135	
			MS	pCi/L	128.2	79.3%	60-140	
			MSD	pCi/L	128.2	351%	60-140	435
			MSRPD	pCi/L		124.6%	≤30	435
Radium - 228	Ra - 05	01/04/2024:214375EMV	RgBlk	pCi/L		0.64034	0.051582	
			LRS	pCi/L	10.46	79.8%	65-108	
			BS	pCi/L	10.46	87.4%	75-125	
			BSD	pCi/L	10.46	96.0%	75-125	
			BSRPD	pCi/L		9.3%	≤25	

**Definition**

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
- 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.

**Explanation**

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

1923:12/18/2023 TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information L215

Client: **Meachowllark Ranches Mutual Water Co.**  
Address: Attn: Mike Hadley  
P.O. Box 606  
Santa Ynez, CA 93460-0606  
Phone: (805) 688-3132 Fax:  
Contact Person: Mike Hadley  
Project Name: **Water Quality - Radio**  
Purchase Order Number:  
Quote Number:

Sampler(s)  
*M. J. Mercer*  
Sampling Fee: \_\_\_\_\_ Pickup Fee: \_\_\_\_\_  
Compositor Setup Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_/\_\_\_  
Lab Number: **SP 2320579** 2-21676

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample	Poizable(P) Non-Poizable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Sampling-Sampling Fee	Radio Chemistry-Ra 228 32oz(P)-HNO3	Radio Chemistry-Gross Alpha 32oz(P)	Metals, Total-U 250ml(P)-HNO3						
1	WELL 2	12/14/23	9:55	G	DW				X	2								
2	WELL 3	↓	9:44	G	DW				X	2	1	1						
3	WELL 4	↓	10:08	G	DW				X	2								

Remarks: Relinquished Date: 12/14/23 Time: 1500  
Received By: [Signature] Date: 12/14/23 Time: 1500

**Corporate Offices & Laboratory**  
853 Corporation Street  
Santa Paula, CA 93060  
Phone: (805) 392-2000  
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

**Office & Laboratory**  
2500 Stagecoach Road  
Stockton, CA 95215  
Phone: (209) 942-0182  
Fax: (209) 942-0423

**Office & Laboratory**  
563 E. Lindo  
Chico, CA 95926  
Phone: (530) 343-5818  
Fax: (530) 343-3807

**Office & Laboratory**  
3442 Empresa Drive, Suite D  
San Luis Obispo, CA 93401  
Phone: (805) 783-2940  
Fax: (805) 783-2912

**Office & Laboratory**  
9415 W. Goshen Avenue  
Visalia, CA 93291  
Phone: (559) 734-9473  
Fax: (559) 734-8435

### Condition Upon Receipt (Attach to COC) SP 2320579


#### Sample Receipt at SP:

- 1. Number of ice chests/packages received: 1
- 2. Shipper tracking number(s) \_\_\_\_\_
- 3. Temp IR Gun ID#: \_\_\_\_\_
- 4. Were samples received on Ice?  **Yes**  **No** Temps: ROI / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- 5. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
- 6. Do the number of bottles received agree with the COC?  **Yes**  **No**  **N/A**
- 7. Verify sample date, time, sampler  **Yes**  **No**
- 8. Were the samples received intact? (i.e. no broken bottles, leaks, etc.)  **Yes**  **No**

#### Sample Verification, Labeling and Distribution:

- 1. Were all requested analyses understood and acceptable?  **Yes**  **No**
- 2. Did bottle labels correspond with the client's ID's?  **Yes**  **No**
- 3. Were all bottles requiring sample preservation properly preserved?  **Yes**  **No**  **N/A**  **FGL**  
[Exception: Oil & Grease, VOA and CrVI verified in lab]
- 4. VOAs checked for Headspace?  **Yes**  **No**  **N/A**
- 5. Were all analyses within holding times at time of receipt?  **Yes**  **No**
- 6. Have rush or project due dates been checked and accepted?  **Yes**  **No**  **N/A**

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by: \_\_\_\_\_ Reviewed and Approved By **Inez Covarrubias**  Digitally signed by Inez Covarrubias  
Title: Sample Receiving  
Date: 12/15/2023-10:58:40

#### Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

- 1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

- 2. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

(2021676)  
Meadowlark Ranches Mutual Water Co.  
**SP 2320579**  
IV/CDA-12/15/2023-10:58:40