

August 29, 2019

Meadowlark Ranches Mutual Water Co.
 Attn: Mike Hadley
 P.O. Box 606
 Santa Ynez, CA 93460-0606

Lab ID : SP 1910640
 Customer : 2-21676

Laboratory Report

Introduction: This report package contains total of 7 pages divided into 4 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Interpretation	(1 page)	: 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 ID #	Matrix
Travel Blank	08/13/2019	08/13/2019	SP 1910640-000	LBW
HB @ Pipe Loop	08/13/2019	08/13/2019	SP 1910640-001	DW

Sampling and Receipt Information: All samples were performed by FGL using the following methods (where applicable):

Bacteriological Sampling	- SOP:200900141
Grab sampling for liquids	- SOP:200900137
Composite sampling for liquids	- SOP:200900139
Grab sampling for solids	- SOP:200900142
Composite sampling for solids	- SOP:200900143

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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

551.1	08/21/2019:212894 All analysis quality controls are within established criteria.
	08/20/2019:209526 All preparation quality controls are within established criteria, except: The following note applies to Decafluorobiphenyl: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Organic QC

552	08/21/2019:209582 All preparation quality controls are within established criteria, except: The following note applies to Dichloroacetic Acid: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
552.2	08/25/2019:213391 All analysis quality controls are within established criteria.

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. 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.

KD:DMB

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



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2019-08-30

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Lab ID : SP 1910640-000
Customer ID : 2-21676

Meadowlark Ranches Mutual Water Co.

Attn: Mike Hadley
P.O. Box 606
Santa Ynez, CA 93460-0606

Sampled On : August 13, 2019-00:00
Sampled By : Matthew Jimenez
Received On : August 13, 2019-15:00
Matrix : Lab. Blank Water

Description : Travel Blank
Project : DBP Monitoring

Sample Result - Organic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 551.1								
Decafluorobiphenyl [‡]	93.1	80-120	%		551.1	08/20/19:209526	551.1	08/21/19:212894
Bromodichloromethane	ND	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Bromoform	ND	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Chloroform	ND	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Dibromochloromethane	ND	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Total Trihalomethanes	ND	--	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894

ND=Non-Detected. PQL=Practical Quantitation Limit. [‡]Surrogate. * PQL adjusted for dilution.

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Lab ID : SP 1910640-001
Customer ID : 2-21676

Meadowlark Ranches Mutual Water Co.

Attn: Mike Hadley
P.O. Box 606
Santa Ynez, CA 93460-0606

Sampled On : August 13, 2019-09:30
Sampled By : Matthew Jimenez
Received On : August 13, 2019-15:00
Matrix : Drinking Water

Description : HB @ Pipe Loop
Project : DBP Monitoring

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 551.1								
Decafluorobiphenyl [‡]	97.8	80-120	%	80	551.1	08/20/19:209526	551.1	08/21/19:212894
Bromodichloromethane	2	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Bromoform	3	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Chloroform	1	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Dibromochloromethane	4	1	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
Total Trihalomethanes	10	--	ug/L		551.1	08/20/19:209526	551.1	08/21/19:212894
EPA 552.2								
2,3-Dibromopropionic Acid [‡]	103	70-130	%	60	552	08/21/19:209582	552.2	08/25/19:213391
Bromoacetic Acid	ND	1	ug/L		552	08/21/19:209582	552.2	08/25/19:213391
Chloroacetic Acid	ND	2	ug/L		552	08/21/19:209582	552.2	08/25/19:213391
Dibromoacetic Acid	3	1	ug/L		552	08/21/19:209582	552.2	08/25/19:213391
Dichloroacetic Acid	ND	1	ug/L		552	08/21/19:209582	552.2	08/25/19:213391
Trichloroacetic Acid	ND	1	ug/L		552	08/21/19:209582	552.2	08/25/19:213391
Haloacetic acids (five)	3	--	ug/L		552	08/21/19:209582	552.2	08/25/19:213391

ND=Non-Detected. PQL=Practical Quantitation Limit. [‡]Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID :SP 1910640-001
Description : HB @ Pipe Loop

Drinking Water Interpretation

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

CONSTITUENT	RESULT	UNITS	MCL	MCL	
				LESS OR EQUAL	EXCEED
Organic - Primary					
Haloacetic acids (five)	3	ug/L	60	Pass	
Total Trihalomethanes	10	ug/L	80	Pass	

ND=Non-Detected.

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 in the yellow pages under the following topics:

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

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Quality Control - Organic



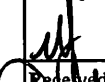
Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic Bromodichloromethane	551.1	08/20/19:209526SBL (SP 1910640-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	9.756	101 %	80-120	
			MS	ug/L	9.908	91.4 %	80-120	
			MSD	ug/L	9.875	86.0 %	80-120	
			MSRPD	ug/L	19.75	5.1 %	≤20	
	551.1	08/21/19:212894SBL	CCV	ug/L	166.7	99.7 %	80-120	
			CCV	ug/L	83.33	102 %	80-120	
Bromoform	551.1	08/20/19:209526SBL (SP 1910640-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	9.756	113 %	80-120	
			MS	ug/L	9.908	114 %	80-120	
			MSD	ug/L	9.875	108 %	80-120	
			MSRPD	ug/L	19.75	3.9 %	≤20	
	551.1	08/21/19:212894SBL	CCV	ug/L	166.7	113 %	80-120	
			CCV	ug/L	83.33	110 %	80-120	
Chloroform	551.1	08/20/19:209526SBL (SP 1910640-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	9.756	99.8 %	80-120	
			MS	ug/L	9.908	92.3 %	80-120	
			MSD	ug/L	9.875	88.6 %	80-120	
			MSRPD	ug/L	19.75	3.9 %	≤20	
	551.1	08/21/19:212894SBL	CCV	ug/L	166.7	97.1 %	80-120	
			CCV	ug/L	83.33	99.7 %	80-120	
Decafluorobiphenyl	551.1	08/20/19:209526SBL (SP 1910640-001)	Blank	ug/L	19.70	105 %	80-120	
			LCS	ug/L	19.51	109 %	80-120	
			MS	ug/L	19.82	108 %	80-120	
			MSD	ug/L	19.75	82.2 %	80-120	
			MSRPD	ug/L	19.75	27.6 %	≤20.0	435
	551.1	08/21/19:212894SBL	CCV	ug/L	333.3	103 %	80-120	
			CCV	ug/L	166.7	109 %	80-120	
Dibromochloromethane	551.1	08/20/19:209526SBL (SP 1910640-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	9.756	105 %	80-120	
			MS	ug/L	9.908	101 %	80-120	
			MSD	ug/L	9.875	94.3 %	80-120	
			MSRPD	ug/L	19.75	4.9 %	≤20	
	551.1	08/21/19:212894SBL	CCV	ug/L	166.7	105 %	80-120	
			CCV	ug/L	83.33	106 %	80-120	
2,3-Dibromopropionic Acid	552	08/21/19:209582MCA (SP 1910715-001)	Blank	ug/L	5.000	91.7 %	70-130	
			LCS	ug/L	5.000	97.1 %	70-130	
			MS	ug/L	5.000	94.7 %	70-130	
			MSD	ug/L	5.000	104 %	70-130	
			MSRPD	ug/L	5.000	0.48	≤1	
	552	08/21/19:209582MCA	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	117 %	70-130	
			MS	ug/L	10.00	102 %	70-130	
			MSD	ug/L	10.00	94.9 %	70-130	
			MSRPD	ug/L	5.000	3.9 %	≤20.0	
Dichloroacetic Acid	552	08/21/19:209582MCA (SP 1910715-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	120 %	70-130	
			MS	ug/L	10.00	145 %	70-130	
			MSD	ug/L	10.00	120 %	70-130	
			MSRPD	ug/L	5.000	18.4 %	≤20.0	435
	552	08/21/19:209582MCA	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	121 %	70-130	
			MS	ug/L	10.00	121 %	70-130	
			MSD	ug/L	10.00	113 %	70-130	
			MSRPD	ug/L	5.000	6.8 %	≤20.0	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Monochloroacetic Acid	552	08/21/19:209582MCA (SP 1910715-001)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	 10.00 10.00 10.00 5.000	ND 124 % 93.7 % 87.8 % 0.59	<2 70-130 70-130 70-130 ≤2	
Trichloroacetic Acid	552	08/21/19:209582MCA (SP 1910715-001)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	 10.00 10.00 10.00 5.000	ND 101 % 105 % 91.4 % 11.9%	<1 70-130 70-130 70-130 ≤20.0	
2,3-Dibromopropionic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	50.00 75.00	103 % 98.0 %	70-130 70-130	
Dibromoacetic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	100.0 150.0	124 % 114 %	70-130 70-130	
Dichloroacetic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	100.0 150.0	118 % 106 %	70-130 70-130	
Monobromoacetic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	100.0 150.0	119 % 118 %	70-130 70-130	
Monochloroacetic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	100.0 150.0	125 % 119 %	70-130 70-130	
Trichloroacetic Acid	552.2	08/25/19:213391MCA	CCV CCV	ug/L ug/L	100.0 150.0	116 % 97.9 %	70-130 70-130	
Definition								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
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.								
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.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								

				2120:08/19/2019				TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information												L215					
Client: Meadowlark 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: DBP Monitoring Purchase Order Number: Quote Number: Sampler(s) <i>M. Jimenez</i> Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ____/____/____ Time: ____/____ Lab Number: SP <i>1910040</i> 2-21676				Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(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)	EPA 551.1 40ml(VOA)-Na2SO3	EPA 552.2 250ml(AGT)-NH4Cl	Time/Mileage														
Samp Num	Location Description	Date Sampled	Time Sampled																						
0	Travel Blank	8/13/19		G	LBW				4																
1	HB @ Pipe Loop	↓	9:30	G	DW				4	1	X														
Remarks: <div style="text-align: center; font-size: 2em;">  </div>				Relinquished		Date:	Time:	Relinquished		Date:	Time:	Relinquished		Date:	Time:										
				<div style="text-align: center;">  </div>		8/13/19	150			Date:	Time:	Received By:		Date:	Time:										

Condition Upon Receipt (Attach to COC)

Sample Receipt at SP:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition?
Temps: ROI / 11c / _____ / _____ / _____ / _____ / _____
4. 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.
5. Do the number of bottles received agree with the COC? ☐ Yes ☐ No ☐ N/A
6. Verify sample date, time, sampler ☐ Yes ☐ No ☐ N/A
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) ☐ Yes ☐ No
8. Were sample custody seals intact? ☐ Yes ☐ No ☐ N/A

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

Alyssa P. Bavero



Digitally signed by Alyssa P. Bavero
Title: Sample Receiving
Date: 08/13/2019-15:22:57

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 1910640