

September 7, 2018

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

Lab ID : SP 1810880
 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	08/20/2018	08/20/2018	SP 1810880-000	LBW
HB @ Pipe Loop	08/20/2018	08/20/2018	SP 1810880-001	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	08/24/2018:212474 All analysis quality controls are within established criteria, except: The following note applies to Decafluorobiphenyl: 362 Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.
	08/27/2018:212641 All analysis quality controls are within established criteria.

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Organic QC

551.1	08/24/2018:210118 All preparation quality controls are within established criteria.
552	08/27/2018:210194 All preparation quality controls are within established criteria.
552.2	08/31/2018:212826 All analysis quality controls are within established criteria.
	08/31/2018:212828 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: 2018-09-09

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Lab ID : SP 1810880-000

Customer ID : 2-21676

Meadowlark Ranches Mutual Water Co.

Attn: Mike Hadley

P.O. Box 606

Santa Ynez, CA 93460-0606

Sampled On : August 20, 2018-00:00

Sampled By : Matthew Jimenez

Received On : August 20, 2018-14:10

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 [‡]	103	80-120	%		551.1	08/24/18:210118	551.1	08/24/18:212474
Bromodichloromethane	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Bromoform	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Chloroform	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Dibromochloromethane	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Total Trihalomethanes	ND	--	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641

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

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Lab ID : SP 1810880-001

Customer ID : 2-21676

Meadowlark Ranches Mutual Water Co.

Attn: Mike Hadley

P.O. Box 606

Santa Ynez, CA 93460-0606

Sampled On : August 20, 2018-09:45

Sampled By : Matthew Jimenez

Received On : August 20, 2018-14:10

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 [‡]	104	80-120	%		551.1	08/24/18:210118	551.1	08/24/18:212474
Bromodichloromethane	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Bromoform	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Chloroform	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Dibromochloromethane	ND	1	ug/L		551.1	08/24/18:210118	551.1	08/27/18:212641
Total Trihalomethanes	ND	--	ug/L	80	551.1	08/24/18:210118	551.1	08/27/18:212641
EPA 552.2								
2,3-Dibromopropionic Acid [‡]	134	70-130	%		552	08/27/18:210194	552.2	08/31/18:212828
Bromoacetic Acid	ND	1	ug/L		552	08/27/18:210194	552.2	08/31/18:212826
Chloroacetic Acid	ND	2	ug/L		552	08/27/18:210194	552.2	08/31/18:212826
Dibromoacetic Acid	ND	1	ug/L		552	08/27/18:210194	552.2	08/31/18:212826
Dichloroacetic Acid	ND	1	ug/L		552	08/27/18:210194	552.2	08/31/18:212826
Trichloroacetic Acid	ND	1	ug/L		552	08/27/18:210194	552.2	08/31/18:212826
Haloacetic acids (five)	ND	--	ug/L	60	552	08/27/18:210194	552.2	08/31/18:212826

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 1810880-001
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)	ND	ug/L	60	Pass	
Total Trihalomethanes	ND	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	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	100 %	80-120	
			MS	ug/L	10.00	89.0 %	80-120	
			MSD	ug/L	10.00	89.7 %	80-120	
			MSRPD	ug/L	20.00	0.8 %	≤20	
	551.1	08/27/18:212641BJW	CCV	ug/L	166.7	94.3 %	80-120	
			CCV	ug/L	83.33	86.5 %	80-120	
	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	107 %	80-120	
			MS	ug/L	10.00	96.6 %	80-120	
			MSD	ug/L	10.00	98.7 %	80-120	
			MSRPD	ug/L	20.00	2.2 %	≤20	
Bromodichloromethane	551.1	08/27/18:212641BJW	CCV	ug/L	166.7	98.3 %	80-120	
			CCV	ug/L	83.33	94.4 %	80-120	
Bromoform	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	103 %	80-120	
			MS	ug/L	10.00	90.3 %	80-120	
			MSD	ug/L	10.00	90.3 %	80-120	
			MSRPD	ug/L	20.00	0.07 %	≤20	
	551.1	08/27/18:212641BJW	CCV	ug/L	166.7	97.4 %	80-120	
			CCV	ug/L	83.33	89.4 %	80-120	
Chloroform	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	103 %	80-120	
			MS	ug/L	10.00	90.3 %	80-120	
			MSD	ug/L	10.00	90.3 %	80-120	
			MSRPD	ug/L	20.00	0.07 %	≤20	
	551.1	08/27/18:212641BJW	CCV	ug/L	166.7	97.4 %	80-120	
			CCV	ug/L	83.33	89.4 %	80-120	
Decafluorobiphenyl	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L	20.00	103 %	80-120	
			LCS	ug/L	20.00	107 %	80-120	
			MS	ug/L	20.00	100 %	80-120	
			MSD	ug/L	20.00	108 %	80-120	
			MSRPD	ug/L	20.00	7.3 %	≤20.0	
	551.1	08/24/18:212474BJW	CCV	ug/L	166.7	123 %	80-120	362
			CCV	ug/L	333.3	102 %	80-120	
Dibromochloromethane	551.1	08/24/18:210118BJW (SP 1810880-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	107 %	80-120	
			MS	ug/L	10.00	94.6 %	80-120	
			MSD	ug/L	10.00	96.3 %	80-120	
			MSRPD	ug/L	20.00	1.7 %	≤20	
	551.1	08/27/18:212641BJW	CCV	ug/L	166.7	99.1 %	80-120	
			CCV	ug/L	83.33	91.8 %	80-120	
2,3-Dibromopropionic Acid	552	08/27/18:210194BJW (SP 1810682-001)	Blank	ug/L	5.000	112 %	70-130	
			LCS	ug/L	5.000	126 %	70-130	
			MS	ug/L	5.000	118 %	70-130	
			MSD	ug/L	5.000	130 %	70-130	
			MSRPD	ug/L	5.000	9.5 %	≤20.0	
Dibromoacetic Acid	552	08/27/18:210194BJW (SP 1810682-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	92.7 %	70-130	
			MS	ug/L	10.00	91.2 %	70-130	
			MSD	ug/L	10.00	105 %	70-130	
			MSRPD	ug/L	5.000	14.3 %	≤20.0	
Dichloroacetic Acid	552	08/27/18:210194BJW (SP 1810682-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	96.6 %	70-130	
			MS	ug/L	10.00	95.9 %	70-130	
			MSD	ug/L	10.00	109 %	70-130	
			MSRPD	ug/L	5.000	13.1 %	≤20.0	
Monobromoacetic Acid	552	08/27/18:210194BJW (SP 1810682-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	81.5 %	70-130	
			MS	ug/L	10.00	97.0 %	70-130	
			MSD	ug/L	10.00	111 %	70-130	
			MSRPD	ug/L	5.000	12.8 %	≤20.0	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Monochloroacetic Acid	552	08/27/18:210194BJW	Blank	ug/L		ND	<2	
			LCS	ug/L	10.00	105 %	70-130	
		(SP 1810682-001)	MS	ug/L	10.00	107 %	70-130	
			MSD	ug/L	10.00	117 %	70-130	
			MSRPD	ug/L	5.000	9.3 %	≤20.0	
Trichloroacetic Acid	552	08/27/18:210194BJW	Blank	ug/L		ND	<1	
			LCS	ug/L	10.00	97.6 %	70-130	
		(SP 1810682-001)	MS	ug/L	10.00	95.4 %	70-130	
			MSD	ug/L	10.00	113 %	70-130	
			MSRPD	ug/L	5.000	17.2 %	≤20.0	
2,3-Dibromopropionic Acid	552.2	08/31/18:212828BJW	CCV	ug/L	50.00	96.5 %	70-130	
			CCV	ug/L	75.00	99.6 %	70-130	
Dibromoacetic Acid	552.2	08/31/18:212826BJW	CCV	ug/L	100.0	79.0 %	70-130	
			CCV	ug/L	150.0	81.4 %	70-130	
Dichloroacetic Acid	552.2	08/31/18:212826BJW	CCV	ug/L	100.0	83.2 %	70-130	
			CCV	ug/L	150.0	82.9 %	70-130	
Monobromoacetic Acid	552.2	08/31/18:212826BJW	CCV	ug/L	100.0	79.4 %	70-130	
			CCV	ug/L	150.0	74.1 %	70-130	
Monochloroacetic Acid	552.2	08/31/18:212826BJW	CCV	ug/L	100.0	93.5 %	70-130	
			CCV	ug/L	150.0	88.8 %	70-130	
Trichloroacetic Acid	552.2	08/31/18:212826BJW	CCV	ug/L	100.0	82.1 %	70-130	
			CCV	ug/L	150.0	83.6 %	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								
362 : Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.								



CHAIN OF CUSTODY
www.fglinc.com

www.fglinc.com

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

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 / 9 / _____ / _____ / _____ / _____ / _____
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

Shawn Peck



Digitally signed by Shawn Peck
Title: Sample Receiving
Date: 08/28/2018-09:48:54

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 1810880