

October 11, 2017

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

Lab ID : SP 1711495
 Customer : 2-21676

Laboratory Report

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

Case Narrative	(2 pages) : An overview of the work performed at FGL.
Sample Results	(4 pages) : Results for each sample submitted.
Quality Control	(1 page) : 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
Treatment Plant - Treated	09/20/2017	09/20/2017	SP 1711495-001	DW
Well #2 Active	09/20/2017	09/20/2017	SP 1711495-002	DW
Well #3 Standby	09/20/2017	09/20/2017	SP 1711495-003	DW
Well #4 (Indian Way) Active	09/20/2017	09/20/2017	SP 1711495-004	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:

Inorganic - Wet Chemistry QC

314.0	09/29/2017:214809 All analysis quality controls are within established criteria
	09/29/2017:212052 All preparation quality controls are within established criteria

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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: 2017-10-11

INORGANIC CHEMICALS ANALYSIS

Date of Report : October 11, 2017	Sample ID : SP 1711495-001
Laboratory Name : FGL Environmental	Approved By Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2017-10-11
Sampled On : 09/20/2017-10:00	
Received On : 09/20/2017-15:00	Sampler : Matthew Jimenez
Completed On : 09/29/2017	Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-009 **EDT**

Name Or Number of Sample Source : TREATMENT PLANT

User ID : 42C	Station Number : 4200612-009
Date/Time of Sample : 1709201000 YYMMDDTTTT	Laboratory Code : 5 8 6 7
Submitted By : FGL Environmental	Phone # : (805) 392-2000

ADDITIONAL INORGANIC


MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
6	ug/L	Perchlorate	A-031	ND	4

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report : October 11, 2017	Sample ID : SP 1711495-002
Laboratory Name : FGL Environmental	Approved By Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2017-10-11
Sampled On : 09/20/2017-10:15	
Received On : 09/20/2017-15:00	Sampler : Matthew Jimenez
Completed On : 09/29/2017	Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-001 **EDT**

Name Or Number of Sample Source : WELL #2 ACTIVE

User ID : 42C	Station Number : 4200612-001	
Date/Time of Sample : 1709201015	Laboratory Code : 5 8 6 7	
	YYMMDDTTTT	
Submitted By : FGL Environmental	Phone # : (805) 392-2000	

ADDITIONAL INORGANIC


MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
6	ug/L	Perchlorate	A-031	ND	4

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report : October 11, 2017	Sample ID : SP 1711495-003
Laboratory Name : FGL Environmental	Approved By Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2017-10-11
Sampled On : 09/20/2017-09:55	
Received On : 09/20/2017-15:00	Sampler : Matthew Jimenez
Completed On : 09/29/2017	Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-006 **EDT**

Name Or Number of Sample Source : WELL #3 STANDBY

User ID : 42C	Station Number : 4200612-006
Date/Time of Sample : 1709200955	Laboratory Code : 5 8 6 7
YYMMDDTTTT	
Submitted By : FGL Environmental	Phone # : (805) 392-2000

ADDITIONAL INORGANIC


MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
6	ug/L	Perchlorate	A-031	ND	4

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report : October 11, 2017	Sample ID : SP 1711495-004
Laboratory Name : FGL Environmental	Approved By Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2017-10-11
Sampled On : 09/20/2017-10:20	
Received On : 09/20/2017-15:00	Sampler : Matthew Jimenez
Completed On : 09/29/2017	Employed By : FGL Environmental

System Name : MEADOWLARK RANCHES MWC Number : 4200612-007 **EDT**

Name Or Number of Sample Source : WELL #4 (INDIAN WAY) ACTIVE

User ID : 42C	Station Number : 4200612-007	
Date/Time of Sample : 1709201020	Laboratory Code : 5 8 6 7	
	YYMMDDTTTT	
Submitted By : FGL Environmental	Phone # : (805) 392-2000	

ADDITIONAL INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
6	ug/L	Perchlorate	A-031	ND	4

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,


ND - Not Detected at or above DLR

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Perchlorate	314.0	09/29/17:212052MCA (CH 1777767-001)	Blank	ug/L		ND	<2	
			LCS	ug/L	25.00	104 %	85-115	
			MS	ug/L	25.00	93.2 %	80-120	
			MSD	ug/L	25.00	93.6 %	80-120	
			MSRPD	ug/L	25.00	0.4%	≤15	
	314.0	09/29/17:214809MCA	ICB	ppb		1.08	2.0	
			ICV	ppb	2.000	107 %	85-115	
			CCB	ppb		0.00	2.0	
			CCV	ppb	10.00	101 %	85-115	
			CCB	ppb		0.00	2.0	
			CCV	ppb	10.00	105 %	85-115	
			CCB	ppb		0.00	2.0	
			CCV	ppb	10.00	104 %	85-115	
Definition								
ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline 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.								

				2340:08/21/2017				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: Perchlorate Monitoring Purchase Order Number: Quote Number:				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)	Wet Chemistry-Perchlorate 16oz(P)	Time/Mileage												
Sampler(s) <div style="font-family: cursive; font-size: 1.2em;">M. J. Meuer</div>																						
Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: ____/____/____ Time: ____/____																						
Lab Number: SP 1711495 2-21676																						
Samp Num	Location Description	Date Sampled	Time Sampled																			
1	Treatment Plant - Treated	9/20/17	10:00	G	DW				1	X												
2	Well #2 Active	↓	10:15	G	DW				1													
3	Well #3 Standby		9:55	G	DW				1													
4	Well #4 (Indian Way) Active	↓	10:20	G	DW				1													
Remarks: <div style="font-size: 2em; font-family: cursive; display: inline-block; vertical-align: middle;">4</div>				Relinquished		Date: 9/20/17		Time: 1500		Relinquished		Date:		Time:		Relinquished		Date: Time:				
				Received By: Alex		Date: 9/20/17		Time: 1500		Received By:		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 / 4 / _____ / _____ / _____ / _____ / _____
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

Inez Covarrubias



Digitally signed by Inez Covarrubias
Title: Sample Receiving
Date: 09/22/2017-15:38:43

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 1711495