



California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

June 08, 2015

Work Order #: BE20035

Heath Harris
Yosemite Falls Well Drilling
PO Box 529
Mariposa, CA 93338

RE: Analytical Services

Enclosed are the analytical results for samples received by our laboratory on 05/20/15 . For your reference, these analyses have been assigned laboratory work order number BE20035 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

A handwritten signature in black ink that reads 'Lisa Montijo'. The signature is fluid and cursive, with the first name 'Lisa' and last name 'Montijo' clearly distinguishable.

Lisa Montijo
Client Services Representative



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Yosemite Falls Well Drilling
PO Box 529
Mariposa CA, 93338

Project: Analytical Services
Project Number: 4980 Hummingbird Lane
Project Manager: Heath Harris

Reported:
06/08/15 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4980 Hummingbird Lane	BE20035-01	Drinking Water	05/20/15 13:25	05/20/15 16:00



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4980 Hummingbird Lane

BE20035-01 (Drinking Water)

Sampled:05/20/15 13:25

Analyte	Notes	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics									
Total Alkalinity as CaCO ₃		170	1.0	mg/L	1	USE2027	05/20/15	05/21/15	SM2320B
Bicarbonate Alkalinity as HCO ₃		200	1.3	mg/L	1	USE2027	05/20/15	05/21/15	SM2320B
Carbonate Alkalinity as CO ₃		ND	1.0	mg/L	1	USE2027	05/20/15	05/21/15	SM2320B
Hydroxide Alkalinity as OH		ND	1.0	mg/L	1	USE2027	05/20/15	05/21/15	SM2320B
Chloride		4.1	2.0	mg/L	1	USE2110	05/21/15	05/22/15	EPA 300.0
Color (Apparent)		5.0	1.0	Color Units	1	USE2103	05/21/15	05/21/15	SM2120B
Cyanide (total)		ND	5.0	µg/L	1	USEF0301	06/03/15	06/03/15	SM4500CN-E
Specific Conductance (EC)		350	1.0	µS/cm	1	USE2027	05/20/15	05/21/15	SM2510B
Fluoride		0.32	0.10	mg/L	1	USE2110	05/21/15	05/22/15	EPA 300.0
Hardness (Total)		160	0.66	mg equiv. CaCO ₃ /L	1	[CALC]	05/28/15	05/28/15	SM 2340B
Langelier Index		0.45		SI	1	USEF0809	06/08/15	06/08/15	SM2330B
Methylene Blue Active Substances		ND	0.050	mg/L	1	USE2106	05/21/15	05/21/15	SM5540C
Nitrate as NO ₃		ND	2.0	mg/L	1	USE2110	05/21/15	05/22/15	EPA 300.0
Nitrite as N		ND	0.30	mg/L	1	USE2110	05/21/15	05/22/15	EPA 300.0
Threshold Odor Number		1.0	1.0	T.O.N.	1	USE2103	05/21/15	05/21/15	SM2150B
pH		8.0	0.10	pH Units	1	USE2027	05/20/15	05/21/15	SM4500-H B
Sulfate as SO ₄		8.8	2.0	mg/L	1	USE2110	05/21/15	05/22/15	EPA 300.0
Total Dissolved Solids		260	10	mg/L	1	USE2601	05/26/15	05/27/15	SM 2540C
Turbidity		0.96	0.10	NTU	1	USE2103	05/21/15	05/21/15	EPA 180.1
Metals - Totals									
Aluminum		5.9	4.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Antimony		3.1	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Arsenic		78	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Barium		10	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Beryllium		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Cadmium		ND	0.20	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Calcium		47	0.10	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Chromium		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Copper		ND	0.0050	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Iron		0.45	0.10	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Lead		1.4	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Magnesium		9.8	0.10	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Manganese		0.13	0.0050	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Mercury		ND	0.10	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Project: Analytical Services
Project Number: 4980 Hummingbird Lane
Project Manager: Heath Harris

Reported:
06/08/15 16:11

4980 Hummingbird Lane

BE20035-01 (Drinking Water)

Sampled:05/20/15 13:25

Analyte	Notes	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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Metals - Totals

Nickel		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Potassium		ND	1.0	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Selenium		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Silver		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Sodium		15	1.0	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7
Thallium		ND	1.0	µg/L	1	USE2201	05/22/15	05/29/15	EPA 200.8
Zinc		0.017	0.0050	mg/L	1	USE2211	05/27/15	05/28/15	EPA 200.7

Microbiologicals

Total Coliforms	< 1.1	1.1	MPN/100mL	1	USE2023	05/20/15	05/22/15	SM9221
Fecal Coliforms	< 1.1	1.1	MPN/100mL	1	USE2023	05/20/15	05/22/15	SM9221

Notes and Definitions

MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
_1x10	< 1.1
ug/L	micrograms per liter (parts per billion concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
mg/L	milligrams per Liter (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
	Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
	If the test was performed in the laboratory, the hold time was exceeded. <u>(for aqueous matrices only)</u>

ATTENTION: Heath Harris		ATTENTION:		☐ STANDARD FORMAT	
NAME: Yosemite Falls Well Drilling		NAME:		☐ EDT (STATE FORM)	
ADDRESS: PO Box 1808		ADDRESS:		☐ GEOTRACKER/COELT (LUFT)	
Mantoloking, CA 95338				☐ PDF ☐ EXCEL	
PHONE: 209-966-4461		PHONE:		☐ County DHS:	
FAX: 209-966-4484		FAX:		☐ Environmental Health Agency:	
OTHER: yosemitefalls@Sti.net					
SAMPLE INFORMATION		SAMPLE TYPES:		PROJECT INFORMATION	
SAMPLED BY (PRINT): Heath Harris		SOLID: BS - BIOSOLID CR - CERAMIC SL - SOIL/SOLID		CONTRACT/P.O. NO.:	
SIGNATURE: Heath Harris		LIQUID: DW - DRINKING WATER GW - GROUND WATER OL - OIL SF - SURFACE WATER ST - STORM WATER WW - WASTE WATER		PROJECT:	
☐ PUBLIC SYSTEM ☐ ROUTINE				PROJECT NUMBER:	
☒ PRIVATE WELL ☐ REPEAT				PROJECT MANAGER: Heath Harris	
☐ OTHER ☐ REPLACEMENT					
TURN AROUND TIME: ☐ RUSH, DUE ON:				ANALYSIS REQUESTED	
☐ STANDARD					

[illegible]

COMMENTS/ADDITIONAL INSTRUCTIONS:						
RELINQUISHED BY		COMPANY	DATE	TIME	RECEIVED BY	COMPANY
<i>Neil</i>		<i>UPWD</i>	<i>5/20/15</i>	<i>1400</i>	<i>Mary Bell</i>	<i>MTA</i>
<i>Mary Bell</i>		<i>MTA</i>	<i>5-20-15</i>	<i>1600</i>		

**PARCEL MAP and MAJOR SUBDIVISION
PROOF OF WATER QUANTITY and QUALITY
REQUIREMENTS**

Prior to recordation of the parcel map, the applicant shall provide evidence to the Mariposa County Health Department that a well or wells of proven capacity have been installed on the project site. Proven capacity shall be a well or wells capable of producing one thousand gallons per lot per twelve-hour day for each lot. Proof of production shall be an approved pump test of the well or wells certified by a licensed engineer, hydrogeologist, well driller with a C-57 license, or licensed well pump contractor. The minimum pump testing duration of the well or wells on each lot shall be the following: Once the recovery rate has stabilized the well must be pumped for a minimum of 3 hours for a well producing 10 gallons per minute (gpm) or more; 24 hours for a well producing 5 gpm to less than 10 gpm; and 72 hours for a well producing less than 5 gpm. Additionally, a report of a completed well shall include a general mineral, physical and inorganic analysis as required under California Code of Regulations, Title 22, for non-transient, non-community water systems, and an analysis for coliform bacteria.
See Below

APN / Lot Number			
Maximum Contaminant Levels for Subdivision Well approvals per Planning Commission Conditions			
	Maximum Contaminant Level, mg/L	Results	Approval
Chemical			
Aluminum	1.		
Antimony	0.008		
Arsenic	0.05		
Barium	1.		
Beryllium	0.004		
Cadmium	0.005		
Chromium	0.05		
Fluoride	2.0		
Lead	0.015		
Mercury	0.002		
Nickel	0.1		
Nitrate (as NO ₃)	45		
Nitrite (as nitrogen)	1.		
Selenium	0.05		
Thallium	0.002		
Bacteriological Total and Fecal Coliform from a Chlorine free sample	Absent - Total Absent - Fecal		
General Mineral and Physical analysis	Varies		

Yosemite Falls Inc
Lic 691117

Well Test for Metropolis Prop Group @ 4980 Hummingbird Ln
5/20/2015

Time	Meter Reading	Static	GPM
12:35PM	3130	21'11"	17.25
12:40PM	3210	24'2"	17.25
12:50PM	3380	25'1/2"	17.25
12:55PM	3470	25' 3 1/2"	17.25
1:00PM	3560	25'7"	17.25

1:01PM Throttled pump down to get static water to stabilize

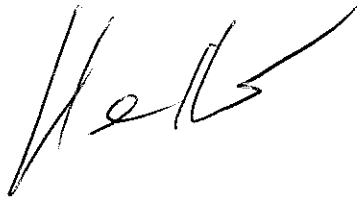
1:35PM	4070	25'11"	11.75
2:35PM	4780	26'	11.75
3:35PM	5490	26' 1/2"	11.75
4:35PM	6190	26 1/2"	11.75

Ended Pump Test at 4:35PM

Started Official 3 Hour test at 1:35 PM and ended test at 4:35PM.

Subtract Meter Reading 6190 from 4070 to get total gallons pumped in 3 hour period.
 $6190 - 4070 = 2120$

GPM/Minutes of Stabalized Water Level= Total GPM
 $2120/180 = 11.77$

A handwritten signature in black ink, appearing to be 'H. B.' or similar, with a stylized flourish at the end.