

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017



Hurst, Bill
5587 West Camino Cielo
Santa Barbara CA, 93105

Project: Routine
Sub Project:
Project Manager: Water Quality Supervisor

Work Order: 18A1729
Received: 01/19/18 11:10
Reported: 02/02/18

POU Residence - Untreated

18A1729-01 (Water)

Sample Date: 01/18/18 10:58

Sampler: Jen Kozumplik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	5.0		mg/L	01/22/18	01/24/18	1803145	
Bicarbonate (HCO3)	SM 2320 B	220	5.0		mg/L	01/22/18	01/24/18	1803145	
Carbonate (CO3)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
Chloride (Cl)	EPA 300.0	23	1.0	500	mg/L	01/19/18	01/19/18	1803150	
Specific Conductance (E.C.)	SM 2510B	580	2.0	1600	umhos/cm	01/22/18	01/24/18	1803145	
Fluoride (F)	EPA 300.0	0.11	0.10	2	mg/L	01/19/18	01/19/18	1803150	
Hydroxide (OH)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	0.10	0.5	mg/L	01/19/18	01/19/18	1803167	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	01/19/18	01/19/18	1803150	
pH (Lab)	SM 4500HB	7.3			pH Units	01/19/18	01/19/18	1803145	
Sulfate (SO4)	EPA 300.0	94	0.50	500	mg/L	01/19/18	01/19/18	1803150	
Total Filterable Residue/TDS	SM 2540C	340	5.0	1000	mg/L	01/25/18	01/26/18	1804128	

Metals

Boron (B)	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Calcium (Ca)	EPA 200.7	70	1.0		mg/L	01/25/18	01/26/18	1804143	
Calcium (Ca) Dissolved	EPA 200.7	70	1.0		mg/L	01/25/18	01/26/18	1804143	
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe) Dissolved	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Magnesium (Mg)	EPA 200.7	17	1.0		mg/L	01/25/18	01/26/18	1804143	
Magnesium (Mg) Dissolved	EPA 200.7	17	1.0		mg/L	01/25/18	01/26/18	1804143	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/24/18	01/24/18	1804073	
Manganese (Mn) Dissolved	EPA 200.7	ND	20		ug/L	01/24/18	01/24/18	1804073	
Potassium (K)	EPA 200.7	ND	1.0		mg/L	01/25/18	01/26/18	1804143	
Sodium (Na)	EPA 200.7	29	1.0		mg/L	01/25/18	01/26/18	1804143	
Zinc (Zn)	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	
Zinc (Zn) Dissolved	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	

Anion / Cation Balance

Hardness, Total (as CaCO3)	Calculated	240			mg/L	01/25/18	01/26/18	[CALC]	
Total Anions	Calculated	6.22			meq/L	01/25/18	01/24/18	[CALC]	
Total Cations	Calculated	6.16			meq/L	01/25/18	01/26/18	[CALC]	
% difference	Calculated	0.92				01/25/18	01/24/18	[CALC]	

Gregory Nelson
Project Manager

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Hurst, Bill
5587 West Camino Cielo
Santa Barbara CA, 93105

Project: Routine
Sub Project:
Project Manager: Water Quality Supervisor

Work Order: 18A1729
Received: 01/19/18 11:10
Reported: 02/02/18

POU Residence - Treated **18A1729-02 (Water)** **Sample Date:** 01/18/18 11:05 **Sampler:** Jen Kozumplik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	95	5.0		mg/L	01/22/18	01/24/18	1803145	
Bicarbonate (HCO3)	SM 2320 B	120	5.0		mg/L	01/22/18	01/24/18	1803145	
Carbonate (CO3)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
Chloride (Cl)	EPA 300.0	17	1.0	500	mg/L	01/19/18	01/19/18	1803150	
Specific Conductance (E.C.)	SM 2510B	340	2.0	1600	umhos/cm	01/22/18	01/24/18	1803145	
Fluoride (F)	EPA 300.0	ND	0.10	2	mg/L	01/19/18	01/19/18	1803150	
Hydroxide (OH)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	0.10	0.5	mg/L	01/19/18	01/19/18	1803167	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	01/19/18	01/19/18	1803150	
pH (Lab)	SM 4500HB	6.8			pH Units	01/19/18	01/19/18	1803145	
Sulfate (SO4)	EPA 300.0	55	0.50	500	mg/L	01/19/18	01/19/18	1803150	
Total Filterable Residue/TDS	SM 2540C	200	5.0	1000	mg/L	01/25/18	01/26/18	1804128	

Metals

Boron (B)	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Calcium (Ca)	EPA 200.7	31	1.0		mg/L	01/25/18	01/26/18	1804143	
Calcium (Ca) Dissolved	EPA 200.7	30	1.0		mg/L	01/25/18	01/26/18	1804143	
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe) Dissolved	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Magnesium (Mg)	EPA 200.7	12	1.0		mg/L	01/25/18	01/26/18	1804143	
Magnesium (Mg) Dissolved	EPA 200.7	11	1.0		mg/L	01/25/18	01/26/18	1804143	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/24/18	01/24/18	1804073	
Manganese (Mn) Dissolved	EPA 200.7	ND	20		ug/L	01/24/18	01/24/18	1804073	
Potassium (K)	EPA 200.7	ND	1.0		mg/L	01/25/18	01/26/18	1804143	
Sodium (Na)	EPA 200.7	23	1.0		mg/L	01/25/18	01/26/18	1804143	
Zinc (Zn)	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	
Zinc (Zn) Dissolved	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	

Anion / Cation Balance

Hardness, Total (as CaCO3)	Calculated	130			mg/L	01/25/18	01/26/18	[CALC]	
Total Anions	Calculated	3.59			meq/L	01/25/18	01/24/18	[CALC]	
Total Cations	Calculated	3.54			meq/L	01/25/18	01/26/18	[CALC]	
% difference	Calculated	1.5				01/25/18	01/24/18	[CALC]	

Gregory Nelson
Project Manager

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Hurst, Bill
5587 West Camino Cielo
Santa Barbara CA, 93105

Project: Routine
Sub Project:
Project Manager: Water Quality Supervisor

Work Order: 18A1729
Received: 01/19/18 11:10
Reported: 02/02/18

Pre - Storage **18A1729-03 (Water)** **Sample Date:** 01/18/18 11:20 **Sampler:** Jen Kozumplik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	5.0		mg/L	01/22/18	01/24/18	1803145	
Bicarbonate (HCO3)	SM 2320 B	220	5.0		mg/L	01/22/18	01/24/18	1803145	
Carbonate (CO3)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
Chloride (Cl)	EPA 300.0	20	1.0	500	mg/L	01/19/18	01/19/18	1803150	
Specific Conductance (E.C.)	SM 2510B	560	2.0	1600	umhos/cm	01/22/18	01/24/18	1803145	
Fluoride (F)	EPA 300.0	0.13	0.10	2	mg/L	01/19/18	01/19/18	1803150	
Hydroxide (OH)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	0.10	0.5	mg/L	01/19/18	01/19/18	1803167	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	01/19/18	01/19/18	1803150	
pH (Lab)	SM 4500HB	7.2			pH Units	01/19/18	01/19/18	1803145	
Sulfate (SO4)	EPA 300.0	93	0.50	500	mg/L	01/19/18	01/19/18	1803150	
Total Filterable Residue/TDS	SM 2540C	340	5.0	1000	mg/L	01/25/18	01/26/18	1804128	

Metals

Boron (B)	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Calcium (Ca)	EPA 200.7	70	1.0		mg/L	01/25/18	01/26/18	1804143	
Calcium (Ca) Dissolved	EPA 200.7	69	1.0		mg/L	01/25/18	01/26/18	1804143	
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe)	EPA 200.7	1800	100	300	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe) Dissolved	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Magnesium (Mg)	EPA 200.7	17	1.0		mg/L	01/25/18	01/26/18	1804143	
Magnesium (Mg) Dissolved	EPA 200.7	17	1.0		mg/L	01/25/18	01/26/18	1804143	
Manganese (Mn)	EPA 200.7	28	20	50	ug/L	01/24/18	01/24/18	1804073	
Manganese (Mn) Dissolved	EPA 200.7	21	20		ug/L	01/24/18	01/24/18	1804073	
Potassium (K)	EPA 200.7	ND	1.0		mg/L	01/25/18	01/26/18	1804143	
Sodium (Na)	EPA 200.7	28	1.0		mg/L	01/25/18	01/26/18	1804143	
Zinc (Zn)	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	
Zinc (Zn) Dissolved	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	

Anion / Cation Balance

Hardness, Total (as CaCO3)	Calculated	250			mg/L	01/25/18	01/26/18	[CALC]	
Total Anions	Calculated	6.11			meq/L	01/25/18	01/24/18	[CALC]	
Total Cations	Calculated	6.12			meq/L	01/25/18	01/26/18	[CALC]	
% difference	Calculated	0.063				01/25/18	01/24/18	[CALC]	

Gregory Nelson
Project Manager

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Hurst, Bill
5587 West Camino Cielo
Santa Barbara CA, 93105

Project: Routine
Sub Project:
Project Manager: Water Quality Supervisor

Work Order: 18A1729
Received: 01/19/18 11:10
Reported: 02/02/18

Manifold 18A1729-04 (Water) **Sample Date:** 01/18/18 11:25 **Sampler:** Jen Kozumplik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Alkalinity, Total (as CaCO3)	SM 2320 B	180	5.0		mg/L	01/22/18	01/24/18	1803145	
Bicarbonate (HCO3)	SM 2320 B	220	5.0		mg/L	01/22/18	01/24/18	1803145	
Carbonate (CO3)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
Chloride (Cl)	EPA 300.0	23	1.0	500	mg/L	01/19/18	01/19/18	1803150	
Specific Conductance (E.C.)	SM 2510B	580	2.0	1600	umhos/cm	01/22/18	01/24/18	1803145	
Fluoride (F)	EPA 300.0	0.14	0.10	2	mg/L	01/19/18	01/19/18	1803150	
Hydroxide (OH)	SM 2320B	ND	5.0		mg/L	01/22/18	01/24/18	1803145	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	0.10	0.5	mg/L	01/19/18	01/19/18	1803167	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	01/19/18	01/19/18	1803150	
pH (Lab)	SM 4500HB	7.5			pH Units	01/19/18	01/19/18	1803145	
Sulfate (SO4)	EPA 300.0	94	0.50	500	mg/L	01/19/18	01/19/18	1803150	
Total Filterable Residue/TDS	SM 2540C	330	5.0	1000	mg/L	01/25/18	01/26/18	1804128	

Metals

Boron (B)	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Calcium (Ca)	EPA 200.7	73	1.0		mg/L	01/25/18	01/26/18	1804143	
Calcium (Ca) Dissolved	EPA 200.7	71	1.0		mg/L	01/25/18	01/26/18	1804143	
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe)	EPA 200.7	280	100	300	ug/L	01/24/18	01/24/18	1804073	
Iron (Fe) Dissolved	EPA 200.7	ND	100		ug/L	01/24/18	01/24/18	1804073	
Magnesium (Mg)	EPA 200.7	18	1.0		mg/L	01/25/18	01/26/18	1804143	
Magnesium (Mg) Dissolved	EPA 200.7	17	1.0		mg/L	01/25/18	01/26/18	1804143	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/24/18	01/24/18	1804073	
Manganese (Mn) Dissolved	EPA 200.7	ND	20		ug/L	01/24/18	01/24/18	1804073	
Potassium (K)	EPA 200.7	1.0	1.0		mg/L	01/25/18	01/26/18	1804143	
Sodium (Na)	EPA 200.7	30	1.0		mg/L	01/25/18	01/26/18	1804143	
Zinc (Zn)	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	
Zinc (Zn) Dissolved	EPA 200.7	ND	50	5000	ug/L	01/24/18	01/24/18	1804073	

Anion / Cation Balance

Hardness, Total (as CaCO3)	Calculated	260			mg/L	01/25/18	01/26/18	[CALC]	
Total Anions	Calculated	6.22			meq/L	01/25/18	01/24/18	[CALC]	
Total Cations	Calculated	6.46			meq/L	01/25/18	01/26/18	[CALC]	
% difference	Calculated	3.8				01/25/18	01/24/18	[CALC]	

Gregory Nelson
Project Manager

Clinical Laboratory of San Bernardino, Inc.

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Hurst, Bill

5587 West Camino Cielo
Santa Barbara CA, 93105

Project: Routine

Sub Project:

Project Manager: Water Quality Supervisor

Work Order: 18A1729

Received: 01/19/18 11:10

Reported: 02/02/18

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND

Analyte NOT DETECTED at or above the reporting limit

A handwritten signature in black ink, appearing to read 'Gregory Nelson'.

Gregory Nelson
Project Manager

Clinical Lab of San Bernardino, Inc.

Chain of Custody

wo 18 A1729

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client				Destination Laboratory								Analysis Requested																			
Bill Hurst Address: Client Contact: Bill Phone No.: 805 886 1850 FAX No.: System No.: Project: Sampled By: Jea Horzumpht Comments: (S.W.T.S.: MK-tdxvye@gmail.com)				[] Clinical Grand Terrace / ELAP 1088 [] Clinical Lompoc / ELAP 1678 [] Other: Total Containers ZnC4H6O4 Na2SO3 NaOH HCl HNO3 C6H8O6 NH4Cl Na2S2O3 Unpreserved Sample Type Matrix								Dissolved Aluminum				Dissolved Barium				Total Aluminum				Total Barium							
												general mineral				Zn				Ca, Mg				Fe, Mn							
												X				X				X				X				X			
												X				X				X				X				X			
Container ID				Sample Identification				Date / Time				Print Name / Company				Received By (Sign)															
0118181058				POU residence - untreated				01/18/11 10:30				Jea Horzumpht (CLLAB)				Jea Horzumpht															
0118181105				POU residence - treated				01/18/11 11:20				PRE - STORAGE				01/18/11 11:10				Jea Horzumpht											
0118181120				PRE - STORAGE																											
0118181125				MANHOLE																											

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other
 Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign) *[Signature]* Print Name / Company Jea Horzumpht (CLLAB)

Received By (Sign) *[Signature]* Print Name / Company Jea Horzumpht

Date / Time 01/18/11 11:10

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: Fed Ex Golden State Overnight UPS OnTrac USPS Other

Condition: On Wet Ice Intact Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: _____ Clinical Lab Receipt Temp.: _____ °C

Page _____ of _____