



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

AED0763
 4/19/2021
 Invoice: AE07967

Ron Demmers
 Western Hills Water District
 9501 Morton Davis Dr
 Diablo Grande, CA 95363

RE: Report for AED0763 Diablo Grande/ Special Chloramination

Dear Ron Demmers,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/8/2021. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

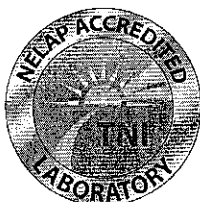
This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Adam Trevarrow , at (800) 877-8310 or (559) 497-2888 x116.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Adam Trevarrow, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

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.

AED0763 FINAL 04192021 1641



Case Narrative

Project and Report Details Invoice Details

Client: Western Hills Water District
Report To: Ron Demmers
Project #: Diablo Grande Chloramination
Received: 4/08/2021 - 14:15
Report Due: 4/15/2021

Invoice To: Western Hills Water District
Invoice Attn: Ashley Wilkins
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 2.7
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Sample(s) arrived at lab on same day sampled.
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Cooler: New Cooler
Temperature on Receipt °C: 0.0
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Sample(s) arrived at lab on same day sampled.
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Table with 3 columns: Recipient(s), Report Format, CC. Row 1: Ron Demmers-1, FINAL.RPT, CC:



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-01
 Sampled By: Liset Arevalo
 Sample Description: 9120 Morton Davis Drive Lot 88

Sample Date - Time: 04/08/2021 - 09:20
 Matrix: Drinking Water
 Sample Type: Grab

Field Data: Res. Cl =0.75 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.20	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.56	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.72	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:08	04/08/21	
Color pH (1)	SM 4500-H+ B	8.1		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.26	0.23	mg/L	1	AED0529	04/09/21 15:04	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 15:04	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.6	0.0	pH Units	1	AED0504	04/09/21 08:09	04/09/21	
pH Temperature in °C		21.7							
Total Dissolved Solids	SM 2540C	410	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	22		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.41	0.10	NTU	1	AED0231	04/08/21 19:30	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	30	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.035	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	3	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination
Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-02
Sampled By: Liset Arevalo
Sample Description: Golf Canyon Drive Lot 63

Sample Date - Time: 04/08/2021 - 10:25
Matrix: Drinking Water
Sample Type: Grab

Field Data: Res. Cl =0.90 mg/L

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.17	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.23	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.51	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:09	04/08/21	
Color pH (1)	SM 4500-H+ B	7.7		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.29	0.23	mg/L	1	AED0529	04/09/21 16:00	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 16:00	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.5	0.0	pH Units	1	AED0504	04/09/21 08:14	04/09/21	
pH Temperature in °C		21.6							
Total Dissolved Solids	SM 2540C	420	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	22		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.36	0.10	NTU	1	AED0231	04/08/21 19:31	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	32	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.13	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	5	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-03
Sampled By: Liset Arevalo
Sample Description: Tee Box Court Lot 84

Sample Date - Time: 04/08/2021 - 07:50
Matrix: Drinking Water
Sample Type: Grab

Field Data: Res. Cl =0.88 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.17	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.39	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.61	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:10	04/08/21	
Color pH (1)	SM 4500-H+ B	7.6		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.26	0.23	mg/L	1	AED0529	04/09/21 16:19	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 16:19	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0523	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.5	0.0	pH Units	1	AED0504	04/09/21 08:19	04/09/21	
pH Temperature in °C		21.5							
Total Dissolved Solids	SM 2540C	420	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	22		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.28	0.10	NTU	1	AED0231	04/08/21 19:32	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.059	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	3	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763

Diablo Grande/ Special Chloramination
Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-04
 Sampled By: Liset Arevalo
 Sample Description: Russ Court Lot 63

Sample Date - Time: 04/08/2021 - 08:55
 Matrix: Drinking Water
 Sample Type: Grab

Field Data: Res. Cl =0.79 mg/L

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.18	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.45	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.61	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:11	04/08/21	
Color pH (1)	SM 4500-H+ B	8.0		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	700	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.24	0.23	mg/L	1	AED0529	04/09/21 16:38	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 16:38	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.7	0.0	pH Units	1	AED0504	04/09/21 08:24	04/09/21	
pH Temperature in °C		21.2							
Total Dissolved Solids	SM 2540C	400	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.50	0.10	NTU	1	AED0231	04/08/21 19:33	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.045	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	5	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-05
 Sampled By: Liset Arevalo
 Sample Description: Schneider Lane Lot 21

Sample Date - Time: 04/08/2021 - 09:05
 Matrix: Drinking Water
 Sample Type: Grab

Field Data: Res. Cl =0.80 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.15	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.51	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.69	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:12	04/08/21	
Color pH (1)	SM 4500-H+ B	8.1		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	700	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.28	0.23	mg/L	1	AED0529	04/09/21 16:56	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 16:56	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.7	0.0	pH Units	1	AED0504	04/09/21 08:29	04/09/21	
pH Temperature in °C		21.1							
Total Dissolved Solids	SM 2540C	420	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.48	0.10	NTU	1	AED0231	04/08/21 19:34	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.084	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	0.011	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	41	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-06
 Sampled By: Liset Arevalo
 Sample Description: 9280 Panoz Court Lot 188

Sample Date - Time: 04/08/2021 - 08:35

Matrix: Drinking Water

Sample Type: Grab

Field Data: Res. Cl =0.80 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.17	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.51	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.71	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:13	04/08/21	
Color pH (1)	SM 4500-H+ B	7.9		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	700	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.25	0.23	mg/L	1	AED0529	04/09/21 18:12	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 18:12	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.7	0.0	pH Units	1	AED0504	04/09/21 08:35	04/09/21	
pH Temperature in °C		21.3							
Total Dissolved Solids	SM 2540C	410	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.33	0.10	NTU	1	AED0231	04/08/21 19:35	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.033	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	1	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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.

AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-07
Sampled By: Liset Arevalo
Sample Description: Copper Mountain Road

Sample Date - Time: 04/08/2021 - 07:30

Matrix: Drinking Water

Sample Type: Grab

Field Data: Res. Cl =0.89 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.16	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.30	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.60	0.10	mg/L	1	AED0539	04/09/21 13:08	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:14	04/08/21	
Color pH (1)	SM 4500-H+ B	7.7		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AED0529	04/09/21 20:05	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 20:05	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.7	0.0	pH Units	1	AED0504	04/09/21 08:39	04/09/21	
pH Temperature in °C		21.2							
Total Dissolved Solids	SM 2540C	420	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	1.8	0.10	NTU	1	AED0231	04/08/21 19:36	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	32	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.047	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	3	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-08

Sampled By: Liset Arevalo

Sample Description: 9454 California Oak Circle Lot 38

Sample Date - Time: 04/08/2021 - 09:55

Matrix: Drinking Water

Sample Type: Grab

Field Data: Res. Cl =0.92 mg/L

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	56	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	56	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.11	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.11	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.24	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Color, Apparent	SM 2120B	10	5.0	CU	1	AED0231	04/08/21 19:15	04/08/21	
Color pH (1)	SM 4500-H+ B	7.7		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.29	0.23	mg/L	1	AED0529	04/09/21 17:15	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 17:15	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.6	0.0	pH Units	1	AED0504	04/09/21 08:44	04/09/21	
pH Temperature in °C		21.5							
Total Dissolved Solids	SM 2540C	410	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	22		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	1.3	0.10	NTU	1	AED0231	04/08/21 19:37	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	32	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.33	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	25	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coll	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-09
Sampled By: Liset Arevalo
Sample Description: 9360 Jacks Place Lot 297

Sample Date - Time: 04/08/2021 - 09:35
Matrix: Drinking Water
Sample Type: Grab

Field Data: Res. Cl =0.74 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	53	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.15	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.37	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.48	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Color, Apparent	SM 2120B	5.0	5.0	CU	1	AED0231	04/08/21 19:17	04/08/21	
Color pH (1)	SM 4500-H+ B	7.9		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	720	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.28	0.23	mg/L	1	AED0529	04/09/21 17:34	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 17:34	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.7	0.0	pH Units	1	AED0504	04/09/21 08:49	04/09/21	
pH Temperature in °C		21.9							
Total Dissolved Solids	SM 2540C	400	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	22		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.36	0.10	NTU	1	AED0231	04/08/21 19:38	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.27	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	<1	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-10
Sampled By: Liset Arevalo
Sample Description: Sand Trap Lot 91

Sample Date - Time: 04/08/2021 - 10:05
Matrix: Drinking Water
Sample Type: Grab

Field Data: Res. Cl =0.90 mg/L

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	54	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.16	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.34	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	0.58	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:18	04/08/21	
Color pH (1)	SM 4500-H+ B	7.7		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.27	0.23	mg/L	1	AED0529	04/09/21 17:53	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 17:53	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.6	0.0	pH Units	1	AED0504	04/09/21 09:08	04/09/21	
pH Temperature in °C		21.5							
Total Dissolved Solids	SM 2540C	400	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.29	0.10	NTU	1	AED0231	04/08/21 19:39	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	0.057	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	2	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-11
Sampled By: Liset Arevalo
Sample Description: Zone 3 #16 Storage Tank

Sample Date - Time: 04/08/2021 - 08:15

Matrix: Drinking Water

Sample Type: Grab

Field Data: Res. Cl =1.35 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		11	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	52	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	0.15	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	0.84	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	1.1	0.10	mg/L	1	AED0551	04/09/21 14:51	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:19	04/08/21	
Color pH (1)	SM 4500-H+ B	7.9		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	710	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AED0529	04/09/21 20:24	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 20:24	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	7.6	0.0	pH Units	1	AED0504	04/09/21 09:13	04/09/21	
pH Temperature in °C		21.3							
Total Dissolved Solids	SM 2540C	410	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.28	0.10	NTU	1	AED0231	04/08/21 19:40	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	32	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	ND	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	ND	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	<1	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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.

AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

Diablo Grande Chloramination

Certificate of Analysis

Sample ID: AED0763-12
Sampled By: Liset Arevalo
Sample Description: Clearwell Storage Tank

Sample Date - Time: 04/08/2021 - 09:15

Matrix: Drinking Water

Sample Type: Grab

Field Data: Res. Cl =2.98 mg/L

**BSK Associates Laboratory Fresno
 General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aggressive Index		10	0.0	AGGR	1	AED0926	04/15/21	04/15/21	
Alkalinity as CaCO3	SM 2320B	49	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Bicarbonate as CaCO3	SM 2320B	49	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Carbonate as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Hydroxide as CaCO3	SM 2320B	ND	3.0	mg/L	1	AED0504	04/09/21	04/09/21	
Ammonia as N	EPA 350.1	ND	0.10	mg/L	1	AED0534	04/09/21	04/09/21	
Chlorine, Free Residual (1)	SM 4500-Cl G	1.8	0.20	mg/L	2	AED0551	04/09/21 14:51	04/09/21	
Chlorine, Total Residual (1)	SM 4500-Cl G	2.0	0.20	mg/L	2	AED0551	04/09/21 14:51	04/09/21	
Color, Apparent	SM 2120B	ND	5.0	CU	1	AED0231	04/08/21 19:20	04/08/21	
Color pH (1)	SM 4500-H+ B	7.0		pH Units	1	AED0231	04/08/21	04/08/21	
Conductivity @ 25C	SM 2510B	720	1.0	umhos/cm	1	AED0504	04/09/21	04/09/21	
Nitrate as N	EPA 300.0	0.26	0.23	mg/L	1	AED0529	04/09/21 20:42	04/09/21	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AED0529	04/09/21 20:42	04/09/21	
Threshold Odor	SM 2150B	ND	1.0	T.O.N.	1	AED0223	04/08/21 18:10	04/08/21	
pH (1)	SM 4500-H+ B	6.9	0.0	pH Units	1	AED0504	04/09/21 09:17	04/09/21	
pH Temperature in °C		21.4							
Total Dissolved Solids	SM 2540C	410	5.0	mg/L	1	AED0598	04/12/21	04/12/21	
Temperature	SM 2550B	21		°C	1	AED0504	04/09/21	04/09/21	
Turbidity	SM 2130B	0.51	0.10	NTU	1	AED0231	04/08/21 19:41	04/08/21	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AED0532	04/12/21	04/15/21	
Iron	EPA 200.7	ND	0.030	mg/L	1	AED0532	04/12/21	04/15/21	
Manganese	EPA 200.7	0.011	0.010	mg/L	1	AED0532	04/12/21	04/15/21	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Heterotrophic Plate Count (48 Hour)

Heterotrophic Plate Count	SM 9215B	<1	1	CFU/ml	AED0450	04/08/21 15:29	04/10/21 14:36	
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Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
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Coliform, Total and E.Coli by Quanti-Tray 51 Wells

E. Coli	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	
Total Coliform	SM 9223B	<1	1	MPN/100 mL	AED0449	04/08/21 17:22	04/09/21 13:05	

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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AED0529

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: DXR

Blank (AED0529-BLK1)

Nitrate as N	ND	0.23	mg/L							04/09/21	
Nitrite as N	ND	0.050	mg/L							04/09/21	

Blank Spike (AED0529-BS1)

Nitrate as N	22	0.23	mg/L	23	ND	97	90-110			04/09/21	
Nitrite as N	1.0	0.050	mg/L	1.0	ND	103	90-110			04/09/21	

Matrix Spike (AED0529-MS1), Source: AED0826-02

Nitrate as N	11	0.23	mg/L	11	ND	97	80-120			04/09/21	
Nitrite as N	0.41	0.050	mg/L	0.50	ND	82	75-125			04/09/21	

Matrix Spike (AED0529-MS2), Source: AED0781-03

Nitrate as N	12	0.23	mg/L	11	0.66	101	80-120			04/09/21	
Nitrite as N	0.38	0.050	mg/L	0.50	ND	76	75-125			04/09/21	

Matrix Spike Dup (AED0529-MSD1), Source: AED0826-02

Nitrate as N	11	0.23	mg/L	11	ND	98	80-120	1	20	04/09/21	
Nitrite as N	0.42	0.050	mg/L	0.50	ND	84	75-125	2	20	04/09/21	

Matrix Spike Dup (AED0529-MSD2), Source: AED0781-03

Nitrate as N	12	0.23	mg/L	11	0.66	102	80-120	1	20	04/09/21	
Nitrite as N	0.38	0.050	mg/L	0.50	ND	76	75-125	0	20	04/09/21	

EPA 350.1 - Quality Control

Batch: AED0534

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: CTD

Blank (AED0534-BLK1)

Ammonia as N	ND	0.10	mg/L							04/09/21	
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Blank Spike (AED0534-BS1)

Ammonia as N	3.9	0.10	mg/L	4.0	ND	97	90-110			04/09/21	
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Blank Spike Dup (AED0534-BSD1)

Ammonia as N	3.9	0.10	mg/L	4.0	ND	97	90-110	1	20	04/09/21	
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Matrix Spike (AED0534-MS1), Source: AED0763-02

Ammonia as N	3.9	0.10	mg/L	4.0	0.17	94	90-110			04/09/21	
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Matrix Spike (AED0534-MS2), Source: AED0763-12

Ammonia as N	3.7	0.10	mg/L	4.0	ND	92	90-110			04/09/21	
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AED0763 FINAL 04192021 1641



BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Table with 12 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, Limits, RPD Limit, Date Analyzed, Qual.

SM 2120B - Quality Control

Batch: AED0231 Prepared: 4/8/2021
Prep Method: Method Specific Preparation Analyst: SNH

Blank (AED0231-BLK1)

Color, Apparent ND 5.0 CU 04/08/21

Duplicate (AED0231-DUP1), Source: AED0750-01

Color, Apparent ND 5.0 CU ND 20 04/08/21

Duplicate (AED0231-DUP2), Source: AED0763-08

Color, Apparent 10 5.0 CU 10 0 20 04/08/21

SM 2130B - Quality Control

Batch: AED0231 Prepared: 4/8/2021
Prep Method: Method Specific Preparation Analyst: SNH

Blank (AED0231-BLK1)

Turbidity ND 0.10 NTU 04/08/21

Duplicate (AED0231-DUP1), Source: AED0750-01

Turbidity 0.41 0.10 NTU 0.40 2 20 04/08/21

SM 2150B - Quality Control

Batch: AED0223 Prepared: 4/8/2021
Prep Method: Method Specific Preparation Analyst: SNH

Blank (AED0223-BLK1)

Threshold Odor ND 1.0 T.O.N. 04/08/21

Blank (AED0223-BLK2)

Threshold Odor ND 1.0 T.O.N. 04/08/21

SM 2320B - Quality Control

Batch: AED0504 Prepared: 4/9/2021
Prep Method: Method Specific Preparation Analyst: CEG

Blank (AED0504-BLK1)

Alkalinity as CaCO3 ND 3.0 mg/L 04/09/21
Bicarbonate as CaCO3 ND 3.0 mg/L 04/09/21
Carbonate as CaCO3 ND 3.0 mg/L 04/09/21
Hydroxide as CaCO3 ND 3.0 mg/L 04/09/21

Blank Spike (AED0504-BS1)

Alkalinity as CaCO3 98 3.0 mg/L 100 ND 98 80-120 04/09/21

Blank Spike Dup (AED0504-BSD1)

Alkalinity as CaCO3 95 3.0 mg/L 100 ND 95 80-120 3 20 04/09/21

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AED0763

Diablo Grande/ Special Chloramination

**BSK Associates Laboratory Fresno
General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Date Analyzed	Qual
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SM 2320B - Quality Control

Batch: AED0504

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: CEG

Duplicate (AED0504-DUP1), Source: AED0721-01

Alkalinity as CaCO3	94		3.0 mg/L		94			0	10	04/09/21	
Bicarbonate as CaCO3	94		3.0 mg/L		94			0	10	04/09/21	
Carbonate as CaCO3	ND		3.0 mg/L		ND				10	04/09/21	
Hydroxide as CaCO3	ND		3.0 mg/L		ND				10	04/09/21	

SM 2510B - Quality Control

Batch: AED0504

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: CEG

Blank Spike (AED0504-BS1)

Conductivity @ 25C	1400		1.0 umhos/cm	1400	ND	97	90-110			04/09/21	
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Blank Spike Dup (AED0504-BSD1)

Conductivity @ 25C	1400		1.0 umhos/cm	1400	ND	98	90-110	1	5	04/09/21	
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Duplicate (AED0504-DUP1), Source: AED0721-01

Conductivity @ 25C	210		1.0 umhos/cm		210			1	5	04/09/21	
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SM 2540C - Quality Control

Batch: AED0598

Prepared: 4/12/2021

Prep Method: Method Specific Preparation

Analyst: DEH

Blank (AED0598-BLK1)

Total Dissolved Solids	ND		5.0 mg/L							04/12/21	
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Blank Spike (AED0598-BS1)

Total Dissolved Solids	1000		mg/L	1000		100	70-130			04/12/21	
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Duplicate (AED0598-DUP1), Source: AED0763-01

Total Dissolved Solids	410		5.0 mg/L		410			0	10	04/12/21	
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Duplicate (AED0598-DUP2), Source: AED0763-11

Total Dissolved Solids	410		5.0 mg/L		410			1	10	04/12/21	
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SM 2550B - Quality Control

Batch: AED0504

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: CEG

Duplicate (AED0504-DUP1), Source: AED0721-01

Temperature	21.8		°C		21.7			0		04/09/21	
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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

**BSK Associates Laboratory Fresno
General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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SM 4500-Cl G - Quality Control

Batch: AED0539

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: BCB

Blank (AED0539-BLK1)

Chlorine, Free Residual (1)	ND	0.10	mg/L							04/09/21	
Chlorine, Total Residual (1)	ND	0.10	mg/L							04/09/21	

Blank Spike (AED0539-BS1)

Chlorine, Free Residual (1)	0.91	0.10	mg/L	1.0	ND	91	90-110			04/09/21	
Chlorine, Total Residual (1)	0.92	0.10	mg/L	1.0	ND	92	90-110			04/09/21	

Duplicate (AED0539-DUP1), Source: AED0783-01

Chlorine, Free Residual (1)	ND	0.10	mg/L		ND			20		04/09/21	
Chlorine, Total Residual (1)	ND	0.10	mg/L		ND			20		04/09/21	

SM 4500-Cl G - Quality Control

Batch: AED0551

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: BCB

Blank (AED0551-BLK1)

Chlorine, Free Residual (1)	ND	0.10	mg/L							04/09/21	
Chlorine, Total Residual (1)	ND	0.10	mg/L							04/09/21	

Blank Spike (AED0551-BS1)

Chlorine, Free Residual (1)	0.90	0.10	mg/L	1.0	ND	90	90-110			04/09/21	
Chlorine, Total Residual (1)	0.91	0.10	mg/L	1.0	ND	91	90-110			04/09/21	

Duplicate (AED0551-DUP1), Source: AED0783-05

Chlorine, Free Residual (1)	ND	0.10	mg/L		ND			20		04/09/21	
Chlorine, Total Residual (1)	ND	0.10	mg/L		ND			20		04/09/21	

SM 4500-H+ B - Quality Control

Batch: AED0231

Prepared: 4/8/2021

Prep Method: Method Specific Preparation

Analyst: SNH

Duplicate (AED0231-DUP1), Source: AED0750-01

Color pH (1)	7.40		pH Units		7.40			0		04/08/21	
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Duplicate (AED0231-DUP2), Source: AED0763-08

Color pH (1)	7.70		pH Units		7.70			0		04/08/21	
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SM 4500-H+ B - Quality Control

Batch: AED0504

Prepared: 4/9/2021

Prep Method: Method Specific Preparation

Analyst: CEG

Duplicate (AED0504-DUP1), Source: AED0721-01

pH (1)	8.02		0.0 pH Units		8.01			0		04/09/21	
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AED0763 FINAL 04192021 1641



AED0763

Diablo Grande/ Special Chloramination

BSK Associates Laboratory Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.7 - Quality Control

Batch: AED0532

Prepared: 4/12/2021

Prep Method: EPA 200.2

Analyst: MDS

Blank (AED0532-BLK2)

Calcium	ND	0.10	mg/L							04/15/21	
Iron	ND	0.030	mg/L							04/15/21	
Manganese	ND	0.010	mg/L							04/15/21	

Blank Spike (AED0532-BS2)

Calcium	3.8	0.10	mg/L	4.0	ND	96	85-115			04/15/21	
Iron	0.20	0.030	mg/L	0.20	ND	102	85-115			04/15/21	
Manganese	0.19	0.010	mg/L	0.20	ND	95	85-115			04/15/21	

Blank Spike Dup (AED0532-BSD2)

Calcium	3.9	0.10	mg/L	4.0	ND	96	85-115	0	20	04/15/21	
Iron	0.20	0.030	mg/L	0.20	ND	101	85-115	1	20	04/15/21	
Manganese	0.19	0.010	mg/L	0.20	ND	96	85-115	0	20	04/15/21	

Matrix Spike (AED0532-MS3), Source: AED0763-01

Calcium	34	0.10	mg/L	4.0	30	89	70-130			04/15/21	
Iron	0.24	0.030	mg/L	0.20	0.035	105	70-130			04/15/21	
Manganese	0.20	0.010	mg/L	0.20	ND	95	70-130			04/15/21	

Matrix Spike (AED0532-MS4), Source: AED0763-09

Calcium	35	0.10	mg/L	4.0	31	92	70-130			04/15/21	
Iron	0.50	0.030	mg/L	0.20	0.27	113	70-130			04/15/21	
Manganese	0.20	0.010	mg/L	0.20	ND	96	70-130			04/15/21	

Matrix Spike Dup (AED0532-MSD3), Source: AED0763-01

Calcium	35	0.10	mg/L	4.0	30	105	70-130	2	20	04/15/21	
Iron	0.24	0.030	mg/L	0.20	0.035	105	70-130	0	20	04/15/21	
Manganese	0.20	0.010	mg/L	0.20	ND	95	70-130	1	20	04/15/21	

Matrix Spike Dup (AED0532-MSD4), Source: AED0763-09

Calcium	35	0.10	mg/L	4.0	31	108	70-130	2	20	04/15/21	
Iron	0.50	0.030	mg/L	0.20	0.27	112	70-130	0	20	04/15/21	
Manganese	0.20	0.010	mg/L	0.20	ND	96	70-130	1	20	04/15/21	

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AED0763 FINAL 04192021 1641



Certificate of Analysis

Notes:

- The Chain of Custody document and Sample integrity Sheet are part of the analytical report.
Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps.
Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
J-value is equivalent to DNQ (Detected, not quantified) which is a trace value.
(1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136.
Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts.
The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
(2) - Formerly known as Bis(2-Chloroisopropyl) ether.

Definitions

Table with 4 columns: Unit/Abbreviation, Definition, Unit/Abbreviation, Definition. Includes mg/L, mg/Kg, ug/L, ug/Kg, %, NR, MDL, RL, ND, pCi/L, RL Mult, MCL, MDA95, MPN, CFU, Absent, Present, U.

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

Aggressive Index

Threshold Odor



Certificate of Analysis

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-017
State of Nevada	CA000792020-2	State of Oregon - NELAP	4021-017
EPA - UCMR4	CA00079	State of Washington	C997-21

Sacramento

State of California - ELAP 2435

San Bernardino

State of California - ELAP	2993	Los Angeles CSD	9254478
NELAP certified	4119-005	State of Oregon - NELAP	4119-005

Vancouver

NELAP certified	WA100008-013	State of Oregon - NELAP	WA100008-013
State of Washington	C824-20		



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

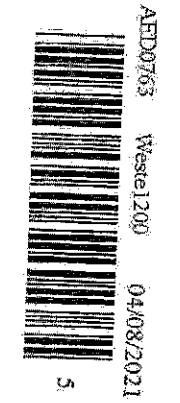
COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$			Yes	No	NA	Were correct containers and preservatives received for the tests requested?			Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?			Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)			Yes	No	NA
	Did all bottles arrive unbroken and intact?			Yes	No		Was a sufficient amount of sample received?			Yes	No	
	Did all bottle labels agree with COC?			Yes	No		Do samples have a hold time <72 hours?			Yes	No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Yes	NA		Was PM notified of discrepancies? PM: _____ By/Time: _____			Yes	No	NA
Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml(VOA(V)) 125ml(D)	Checks*	Passed?	1-12								
	Bacti Na ₂ S ₂ O ₃	—	—	2								
	None (P) ^{White Cap}	—	—	1C								
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	P	F								
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	P	F								
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P	F								
	HNO ₃ (P) ^{Red Cap} or HCl (P) ^{Purple Cap/Lt. Blue Label}	—	—	1B								
	H ₂ SO ₄ (P) ^{Yellow Cap/Label} or (AG)	pH < 2	P	F	1A							
	NaOH (P) ^{Green Cap}	Cl, pH > 10	P	F								
	NaOH + ZnAc (P)	pH > 9	P	F								
	Dissolved Oxygen 300ml (g)	—	—									
	None (AG) 608/6081/8082, 625, 632/8321, 8151, 8270	—	—	1B								
	HCl (AG) ^{Lt. Blue Label} O&G, Diesel, TCP	—	—									
	Ascorbic, EDTA, KH ₂ Cr (AG) ^{Pink Label} 525	—	—									
	Na ₂ SO ₃ 250mL (AG) ^{Neon Green Label} 515	—	—									
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—									
	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 548, THM, 524	—	—									
	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547	—	—									
	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531	pH < 3	P	F								
	NH ₄ Cl (AG) ^{Purple Label} 552	—	—									
	EDA (P) or (AG) ^{Brown Label} DBPs	—	—									
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—									
	Buffer pH 4 (CG)	—	—									
	H ₃ PO ₄ (CG) ^{Salmon Label}	—	—									
	Trizma — EPA 537.1 - Field Blank Required	—	—									
	Other:											
	Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—									
	Bottled Water	—	—									
Clear Glass 125mL / 250mL / 500mL / 1 Liter	—	—										
Solids: Brass / Steel / Plastic Bag	—	—										
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials						
	S P			S P								
	S P			S P								
Comments	*Preservation check completed by lab performing analysis.			✓ Indicates Blanks Received								
				504 ___ 524.2 ___ TTHM ___ 537.1 ___ TCP ___								
			✓ MS/MSD Received Method: _____									

BSK Associates

Regulatory Laboratories

1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 Fax (559) 497-2893
 www.bskassociates.com

Required Fields Temp 27.0.0 ALL



Company/Client Name: Western Hills Water District
 Report Attention: Ron Demmers
 Additional ccs: PO#:
 Invoice To: Phone: 559-536-0012 Fax: 209-620-4565
 State: CA Zip: 95363
 City: Patterson
 Project: Diablo Grande Chloramination
 PRT: 5010039-003
 Reporting Options: Trace (4-Flag) Stamp EDD Type: E-Mail Fax Mail
 How would you like your completed results sent? Standard - 10 Business Days TAT* **Rush: Date Needed 5 DAY
 Regulatory Carbon Copies: CDPH Fresno Cd Tulare Cd Stockton Branch
 Mailed Cd Madras Cd Other
 Regulatory Compliance: EDT in California DPH System Number: Geotracker #:

#	Sample Description*	Sampled		Matrix*	Comments / Station Code / WTRAX	Analytical Results											
		Date	Time			HPC	Color, Odor, NTU	Nitrite	Ammonia- Nitrogen	Total Coliform, E. Coll	Free Chlorine, total Chlorine	pH, Temperature	Conductivity, TDS,	Aggressive Index			
1	9120 Morton Davis Drive Lot 88	3/2/12	920	DW	C12 .75	X	X	X	X	X	X	X	X	X	X		
2	Golf Canyon Drive lot 63	"	1025	DW	C12 .90	X	X	X	X	X	X	X	X	X	X		
3	Tee Box Court Lot 84	"	750	DW	C12 .88	X	X	X	X	X	X	X	X	X	X		
4	Russ Court Lot 63	"	855	DW	C12 .79	X	X	X	X	X	X	X	X	X	X		
5	Schneider Lane Lot 21	"	905	DW	C12 .80	X	X	X	X	X	X	X	X	X	X		
6	9280 Panoz Court Lot 188	"	835	DW	C12 .80	X	X	X	X	X	X	X	X	X	X		
7	Copper Mountain Road	"	730	DW	C12 .89	X	X	X	X	X	X	X	X	X	X		
8	9454 California oak circle Lot 38	"	955	DW	C12 .92	X	X	X	X	X	X	X	X	X	X		
9	9360 Jacks Place Lot 297	"	985	DW	C12 .74	X	X	X	X	X	X	X	X	X	X		
10	Sand Trap Lot 91	"	1005	DW	C12 .90	X	X	X	X	X	X	X	X	X	X		
11	Zone 3 # 16 Storage Tank	"	815	DW	C12 1.35	X	X	X	X	X	X	X	X	X	X		
12	Clearwell Storage Tank	3/2/12	915	DW	C12 2.98	X	X	X	X	X	X	X	X	X	X		

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water NW=Natural Water STW=Storm Water DW=Drinking Water SO=Solid

Requester: (Signature and Printed Name) *Ron Demmers*
 Date: 3/2/12
 Company: W H W D
 Requested by: (Signature and Printed Name) *Ron Demmers*
 Date: 3/2/12
 Company: W H W D
 Received by: (Signature and Printed Name)
 Date: 3/2/12
 Company: W H W D
 Shipping Method: AIR Blue UPS GSO MAILER FEDEX Courier:
 Amount: \$450.00
 Payment Received at Delivery: Cash Check Inl. Cash

Agreement for services rendered is found herein and is valid within 30 days from the date involved. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the shipping method acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this shipping order, and agrees to BSK's terms and conditions for laboratory services unless otherwise stated. BSK's current terms and conditions can be found at www.bskassociates.com/BSK_Lab/Print/Conditions.pdf

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