

Date of Report: 06/09/2020

Wes Bergman

Palomar Land and Cattle 34300 Canfield Road Palomar Mountain, CA 92060

Client Project: Source Water
BCL Project: Annual Title 21

BCL Work Order: 2013608 Invoice ID: B382233

Enclosed are the results of analyses for samples received by the laboratory on 5/8/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson

Client Service Rep

Felicia Johns

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101



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# **Executive Summary - MCL Exceedances**

Constituent Result PQL MCL Units Method Lab Quals

No exceedances found

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Chain of Custody and Cooler Receipt Form for 2013608 Page 1 of 2 COOL Time DISTRIBUTION IN IK TYNIO MBAS ₽ SUB OUT Are there any tests with holding time less than or equal to 48 hours? Page. ☐ Yes ☑ No BOD ( 0 = Other "Standard Turnar Notes BC Laboratories, Inc. 4100 Atlas Court – Bakersfield CA 93308 (661) 327 – 4911 Fax: (661) 327 – 1918 www.bclabs.com M = Miscellaneous 1.00 Ph 3.Received By: Client: SAME d Global ID: ΰ CHKB Address: Billing Attn: Normal (10 - Days) Chain of Custody Form L = Liquid Analysis Requested Date 5/7/2020 Date GW = Groundwater 7 3-5 Day Rush ssenbisH Cost Center: 1. Relinquished By: Wesley Bergman \*Additional Charges May Apply 2. Relinquished By: 3. Relinquished By: Title 21 Group Test ebimor8 laveJ wo. WW = Wastewater Matrix\* š Project Code: Annual Title 21 48 Hr Rush Time 2 Geotrackor 5 File (CA Default) Geotracker 2 File Other (Specify) 3608 5/11/20 DW = Drinking Water Date Sampler (s):4 CVX RCRA 24 Hr Rush Zip:+ 92060 E Laboratories, Inc. 20-Note to circh: Please fill out each sample description, sample time and date, and sign under relinquished by. Thanks Sample Description SL = Sludge email Address: wes@palomarlandandcattle.com epartic Palomar Land & Cattle Company Cleats Turnaround # of working days:\* State: \* CA Street Address:\* 34300 Canfield Road S = Soil . 5574 Lab TAT Approval: City:\* Palomar Mountain Attac\* Wes Burgman Matrix Types: honell:\*(951 ) 719 9 Required Fields Sample #



Chain of Custody and Cooler Receipt Form for 2013608 Page 2 of 2

BC LABORATORIES INC.				COOLE	RR	CEIP	T FOR	M				Pa	ge(	Of/
Submission #: 20 -136														
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Custody Seals lice Chest D	200		ners.□ • □ Né □	Nor	ne (754)	Con	ments	2000						
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PT CYANIDE		0		-	1									
PT NITROGEN FORMS			-		1									
PT TOTAL SULFIDE					4			_						
202. NITRATE/NITRITE			-		-		***************************************							
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40ml VOA VIAL	DE	E			-			_			_		-	
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CORE		_												
ART KIT														
MMA CANISTER				.										
ments: ople Numbering Completed By: Other	,				-		5/11							

06/09/2020 13:11 Reported: Project: Annual Title 21 Project Number: Source Water Project Manager: Wes Bergman

# **Laboratory / Client Sample Cross Reference**

Laboratory	Client Sample Informati	Client Sample Information							
2013608-01	COC Number:	<del></del>	Receive Date:	05/08/2020 09:00					
	Project Number:		Sampling Date:	05/11/2020 10:27					
	Sampling Location:		Sample Depth:						
	Sampling Point:	B-1	Lab Matrix:	Water					
	Sampled By:		Sample Type:	Drinking Water					

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06/09/2020 13:11 Reported: Project: Annual Title 21

Project Number: Source Water Project Manager: Wes Bergman

BCL Sample ID:	2013608-01	Client Samp	le Name:	B-1, 5/11/20	020 10:27:00	DAM				
Constituent		Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Inorganics										
Chloride		EPA-300.0	4.5	mg/L	1	0.50	250	05/11/20	05/12/20 00:29	
Fluoride		EPA-300.0	ND	mg/L	1	0.10	2.0	05/11/20	05/12/20 00:29	
Nitrate as N		EPA-300.0	0.16	mg/L	1	0.10	10	05/11/20	05/12/20 00:29	
Sulfate		EPA-300.0	8.7	mg/L	1	1.0	250	05/11/20	05/12/20 00:29	
Nitrate + Nitrite as N		Calc	0.16	mg/L	1	0.10	10	05/12/20	05/20/20 17:01	
Turbidity		EPA-180.1	0.68	NT Units	1	0.10	5	05/12/20	05/12/20 07:50	
Nitrite as N		EPA-353.2	ND	mg/L	1	0.050	1	05/11/20	05/11/20 23:32	
Metals										
Total Recoverable Alum	inum	EPA-200.7	ND	mg/L	1	0.050	0.2	05/13/20	05/14/20 19:08	
Total Recoverable Antim	nony	EPA-200.8	ND	mg/L	1	0.0020	0.006	05/13/20	05/13/20 09:42	
Total Recoverable Arser	nic	EPA-200.8	ND	mg/L	1	0.0020	0.010	05/13/20	05/13/20 09:42	
Total Recoverable Bariu	m	EPA-200.7	0.016	mg/L	1	0.010	2	05/13/20	05/14/20 19:08	
Total Recoverable Beryl	lium	EPA-200.8	ND	mg/L	1	0.0010	0.004	05/13/20	05/13/20 09:42	
Total Recoverable Cadn	nium	EPA-200.8	ND	mg/L	1	0.0010	0.005	05/13/20	05/13/20 09:42	
Total Recoverable Chro	mium	EPA-200.7	ND	mg/L	1	0.010	0.1	05/13/20	05/14/20 19:08	
Total Recoverable Copp	er	EPA-200.7	ND	mg/L	1	0.010	1.0	05/13/20	05/14/20 19:08	
Total Recoverable Iron		EPA-200.7	0.094	mg/L	1	0.050	0.3	05/13/20	05/14/20 19:08	
Total Recoverable Lead		EPA-200.8	ND	mg/L	1	0.0010	0.005	05/13/20	05/13/20 09:42	
Total Recoverable Mang	janese	EPA-200.7	0.017	mg/L	1	0.010	0.05	05/13/20	05/14/20 19:08	
Total Recoverable Merc	ury	EPA-245.1	ND	ug/L	1	0.20	2	05/18/20	05/18/20 14:10	
Total Recoverable Nicke	el	EPA-200.7	ND	mg/L	1	0.010	0.1	05/13/20	05/14/20 19:08	
Total Recoverable Seler	nium	EPA-200.8	ND	mg/L	1	0.0020	0.05	05/13/20	05/13/20 09:42	
Total Recoverable Silve	r	EPA-200.7	ND	mg/L	1	0.010	0.1	05/13/20	05/14/20 19:08	
Total Recoverable Thall	um	EPA-200.8	ND	mg/L	1	0.0010	0.002	05/13/20	05/13/20 09:42	
Total Recoverable Zinc		EPA-200.7	ND	mg/L	1	0.050	5.0	05/13/20	05/14/20 19:08	
Organics										
1,2-Dibromo-3-chloropro	ppane	EPA-504.1	ND	ug/L	0.946	0.010	0.2	05/19/20	05/19/20 16:15	
Ethylene dibromide		EPA-504.1	ND	ug/L	0.946	0.010	0.05	05/19/20	05/19/20 16:15	
Aldrin		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
alpha-BHC		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
beta-BHC		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
delta-BHC		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
gamma-BHC (Lindane)		EPA-508	ND	ug/L	1	0.0050	0.2	05/18/20	05/20/20 07:47	

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BCL Sample ID: 201	3608-01	Client Sam	ple Name:	B-1, 5/11/20	020 10:27:	00AM				
Constituent		Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Organics										
Chlordane (Technical)		EPA-508	ND	ug/L	1	0.10	2	05/18/20	05/20/20 07:47	
4,4'-DDD		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
4,4'-DDE		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
4,4'-DDT		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
Dieldrin		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
Endosulfan I		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
Endosulfan II		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
Endosulfan sulfate		EPA-508	ND	ug/L	1	0.0050	n/a	05/18/20	05/20/20 07:47	
Endrin		EPA-508	ND	ug/L	1	0.0050	2	05/18/20	05/20/20 07:47	
Endrin aldehyde		EPA-508	ND	ug/L	1	0.010	n/a	05/18/20	05/20/20 07:47	
Heptachlor		EPA-508	ND	ug/L	1	0.0050	0.4	05/18/20	05/20/20 07:47	
Heptachlor epoxide		EPA-508	ND	ug/L	1	0.0050	0.2	05/18/20	05/20/20 07:47	
Methoxychlor		EPA-508	ND	ug/L	1	0.0050	40	05/18/20	05/20/20 07:47	
Toxaphene		EPA-508	ND	ug/L	1	1.0	3	05/18/20	05/20/20 07:47	
PCB-1016		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1221		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1232		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1242		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1248		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1254		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
PCB-1260		EPA-508	ND	ug/L	1	0.20	n/a	05/18/20	05/20/20 07:47	
Total PCB's (Summation)		EPA-508	ND	ug/L	1	0.20	0.5	05/18/20	05/20/20 07:47	
TCMX (Surrogate)		EPA-508	61.7	%	1	60 - 130 (L0	CL - UCL)	05/18/20	05/20/20 07:47	
Bentazon		EPA-515.1	ND	ug/L	1	0.80	n/a	05/13/20	05/15/20 04:01	
2,4-D		EPA-515.1	ND	ug/L	1	0.40	70	05/13/20	05/15/20 04:01	
Dalapon		EPA-515.1	ND	ug/L	1	5.0	200	05/13/20	05/15/20 04:01	
Dinoseb		EPA-515.1	ND	ug/L	1	0.20	7	05/13/20	05/15/20 04:01	
2,4,5-TP (Silvex)		EPA-515.1	ND	ug/L	1	0.070	50	05/13/20	05/15/20 04:01	
2,4-Dichlorophenylacetic acid (	Surrogate)	EPA-515.1	70.0	%	1	40 - 120 (L0	CL - UCL)	05/13/20	05/15/20 04:01	
Benzene		EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
Bromobenzene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Bromochloromethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Bromodichloromethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Bromoform		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Bromomethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	

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<b>BCL Sample ID:</b> 2013608-01	2013608-01 Client Sample Name: B-1, 5/11/2020 10:27:00AM								
Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Organics									
n-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
sec-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
tert-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Carbon tetrachloride	EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
Chlorobenzene	EPA-524.2	ND	ug/L	1	0.50	100	05/12/20	05/12/20 12:39	
Chloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Chloroform	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Chloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
2-Chlorotoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
4-Chlorotoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Dibromochloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2-Dibromo-3-chloropropane	EPA-524.2	ND	ug/L	1	1.0	0.2	05/12/20	05/12/20 12:39	
1,2-Dibromoethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Dibromomethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	600	05/12/20	05/12/20 12:39	
1,3-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,4-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	75	05/12/20	05/12/20 12:39	
Dichlorodifluoromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,1-Dichloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2-Dichloroethane	EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
1,1-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	7	05/12/20	05/12/20 12:39	
cis-1,2-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	70	05/12/20	05/12/20 12:39	
trans-1,2-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	100	05/12/20	05/12/20 12:39	
1,2-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
1,3-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
2,2-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,1-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
cis-1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
trans-1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Total 1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Ethylbenzene	EPA-524.2	ND	ug/L	1	0.50	700	05/12/20	05/12/20 12:39	
Hexachlorobutadiene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Isopropylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
p-Isopropyltoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Methylene chloride	EPA-524.2	3.4	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	

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06/09/2020 13:11 Reported: Project: Annual Title 21 Project Number: Source Water Project Manager: Wes Bergman

BCL Sample ID: 20	CL Sample ID: 2013608-01 Client Sample Name: B-1, 5/11/2020 10:27:00AM									
Constituent		Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Organics										
Methyl t-butyl ether		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Naphthalene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	V11
n-Propylbenzene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Styrene		EPA-524.2	ND	ug/L	1	0.50	100	05/12/20	05/12/20 12:39	
1,1,1,2-Tetrachloroethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,1,2,2-Tetrachloroethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Tetrachloroethene		EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
Toluene		EPA-524.2	ND	ug/L	1	0.50	1000	05/12/20	05/12/20 12:39	
1,2,3-Trichlorobenzene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	V11
1,2,4-Trichlorobenzene		EPA-524.2	ND	ug/L	1	0.50	70	05/12/20	05/12/20 12:39	V11
1,1,1-Trichloroethane		EPA-524.2	ND	ug/L	1	0.50	200	05/12/20	05/12/20 12:39	
1,1,2-Trichloroethane		EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
Trichloroethene		EPA-524.2	ND	ug/L	1	0.50	5	05/12/20	05/12/20 12:39	
Trichlorofluoromethane		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2,3-Trichloropropane		EPA-524.2	ND	ug/L	1	1.0	n/a	05/12/20	05/12/20 12:39	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2,4-Trimethylbenzene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,3,5-Trimethylbenzene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
Vinyl chloride		EPA-524.2	ND	ug/L	1	0.50	2	05/12/20	05/12/20 12:39	
Total Xylenes		EPA-524.2	ND	ug/L	1	0.50	10000	05/12/20	05/12/20 12:39	
Total Trihalomethanes		EPA-524.2	ND	ug/L	1	2.0	10	05/12/20	05/12/20 12:39	
t-Amyl Methyl ether		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
t-Butyl alcohol		EPA-524.2	ND	ug/L	1	10	n/a	05/12/20	05/12/20 12:39	
Ethyl t-butyl ether		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
p- & m-Xylenes		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
o-Xylene		EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
1,2-Dichloroethane-d4 (Surro	gate)	EPA-524.2	110	%	1	75 - 125 (L	CL - UCL)	05/12/20	05/12/20 12:39	
Toluene-d8 (Surrogate)		EPA-524.2	101	%	1	80 - 120 (L	CL - UCL)	05/12/20	05/12/20 12:39	
4-Bromofluorobenzene (Surre	ogate)	EPA-524.2	81.1	%	1	80 - 120 (L	CL - UCL)	05/12/20	05/12/20 12:39	
Acenaphthylene		EPA-525.2	ND	ug/L	1	0.10	n/a	05/12/20	05/14/20 11:20	
Alachlor		EPA-525.2	ND	ug/L	1	0.20	2	05/12/20	05/14/20 11:20	
Anthracene		EPA-525.2	ND	ug/L	1	0.10	n/a	05/12/20	05/14/20 11:20	
Atraton		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Atrazine		EPA-525.2	ND	ug/L	1	0.30	3	05/12/20	05/14/20 11:20	
Benzo[a]anthracene		EPA-525.2	ND	ug/L	1	0.20	n/a	05/12/20	05/14/20 11:20	

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06/09/2020 13:11 Reported: Project: Annual Title 21 Project Number: Source Water Project Manager: Wes Bergman

BCL Sample ID:	2013608-01	Client Sam	ole Name:	B-1, 5/11/20	020 10:27:	00AM				
Constituent		Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Organics										
Benzo[b]fluoranthene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Benzo[k]fluoranthene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Benzo[a]pyrene		EPA-525.2	ND	ug/L	1	0.10	0.2	05/12/20	05/14/20 11:20	
Benzo[g,h,i]perylene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Benzyl butyl phthalate		EPA-525.2	ND	ug/L	1	4.0	n/a	05/12/20	05/14/20 11:20	
delta-BHC		EPA-525.2	ND	ug/L	1	0.20	n/a	05/12/20	05/14/20 11:20	
gamma-BHC (Lindane)		EPA-525.2	ND	ug/L	1	0.20	0.2	05/12/20	05/14/20 11:20	
Bromacil		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Chrysene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Diazinon		EPA-525.2	ND	ug/L	1	0.20	n/a	05/12/20	05/14/20 11:20	
Dibenzo[a,h]anthracene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Di(2-ethylhexyl)adipate		EPA-525.2	ND	ug/L	1	1.0	400	05/12/20	05/14/20 11:20	
Dimethoate		EPA-525.2	ND	ug/L	1	2.0	n/a	05/12/20	05/14/20 11:20	
Dimethyl phthalate		EPA-525.2	ND	ug/L	1	1.0	n/a	05/12/20	05/14/20 11:20	
Di-n-butyl phthalate		EPA-525.2	ND	ug/L	1	1.0	n/a	05/12/20	05/14/20 11:20	
Fluorene		EPA-525.2	ND	ug/L	1	0.20	n/a	05/12/20	05/14/20 11:20	
Hexachlorobenzene		EPA-525.2	ND	ug/L	1	0.20	1	05/12/20	05/14/20 11:20	
Hexachlorocyclopentadie	ne	EPA-525.2	ND	ug/L	1	1.0	50	05/12/20	05/14/20 11:20	
Indeno[1,2,3-cd]pyrene		EPA-525.2	ND	ug/L	1	0.30	n/a	05/12/20	05/14/20 11:20	
Methoxychlor		EPA-525.2	ND	ug/L	1	0.30	40	05/12/20	05/14/20 11:20	
Metolachlor		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Metribuzin		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Molinate		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Phenanthrene		EPA-525.2	ND	ug/L	1	0.10	n/a	05/12/20	05/14/20 11:20	
Prometon		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Prometryn		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Pyrene		EPA-525.2	ND	ug/L	1	0.10	n/a	05/12/20	05/14/20 11:20	
Secbumeton		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Simazine		EPA-525.2	ND	ug/L	1	0.30	4	05/12/20	05/14/20 11:20	
Terbutryn		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Thiobencarb		EPA-525.2	ND	ug/L	1	0.50	n/a	05/12/20	05/14/20 11:20	
Perylene-d12 (Surrogate)		EPA-525.2	74.2	%	1	60 - 140 (L	.CL - UCL)	05/12/20	05/14/20 11:20	
Aldicarb		EPA-531.2	ND	ug/L	1	3.0	n/a	05/11/20	05/12/20 05:26	
Aldicarb sulfone		EPA-531.2	ND	ug/L	1	4.0	n/a	05/11/20	05/12/20 05:26	
Aldicarb sulfoxide		EPA-531.2	ND	ug/L	1	3.0	n/a	05/11/20	05/12/20 05:26	

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06/09/2020 13:11 Reported: Project: Annual Title 21 Project Number: Source Water Project Manager: Wes Bergman

BCL Sample ID: 2013608-01	Client Samp	le Name:	B-1, 5/11/20	020 10:27:	00AM				
Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Organics									
Propoxur	EPA-531.2	ND	ug/L	1	5.0	n/a	05/11/20	05/12/20 05:26	
Carbaryl	EPA-531.2	ND	ug/L	1	5.0	n/a	05/11/20	05/12/20 05:26	
Carbofuran	EPA-531.2	ND	ug/L	1	5.0	40	05/11/20	05/12/20 05:26	
3-Hydroxycarbofuran	EPA-531.2	ND	ug/L	1	3.0	n/a	05/11/20	05/12/20 05:26	
Methiocarb	EPA-531.2	ND	ug/L	1	5.0	n/a	05/11/20	05/12/20 05:26	
Methomyl	EPA-531.2	ND	ug/L	1	2.0	n/a	05/11/20	05/12/20 05:26	
Oxamyl	EPA-531.2	ND	ug/L	1	5.0	200	05/11/20	05/12/20 05:26	
BDMC (Surrogate)	EPA-531.2	91.9	%	1	70 - 130 (L	.CL - UCL)	05/11/20	05/12/20 05:26	
Endothal	EPA-548.1	ND	ug/L	10	20	100	05/12/20	05/13/20 02:52	
Diquat	EPA-549.2	ND	ug/L	1	4.0	20	05/13/20	05/13/20 15:34	
Uncategorized									
Decachlorobiphenyl (Surrogate)	EPA-508	69.6	%	1	60 - 130 (L	.CL - UCL)	05/18/20	05/20/20 07:47	
Pentachlorophenol	EPA-515.1	ND	ug/L	1	0.050	n/a	05/13/20	05/15/20 04:01	
Picloram	EPA-515.1	ND	ug/L	1	0.10	n/a	05/13/20	05/15/20 04:01	
Diisopropyl ether	EPA-524.2	ND	ug/L	1	0.50	n/a	05/12/20	05/12/20 12:39	
bis(2-Ethylhexyl)phthalate	EPA-525.2	ND	ug/L	1	3.0	n/a	05/12/20	05/14/20 11:20	
1,3-Dimethyl-2-nitrobenzene (Surrogate)	EPA-525.2	48.2	%	1	70 - 130 (L	.CL - UCL)	05/12/20	05/14/20 11:20	S09
Triphenylphosphate (Surrogate)	EPA-525.2	119	%	1	70 - 130 (L	.CL - UCL)	05/12/20	05/14/20 11:20	
Pyrene-d10 (Surrogate)	EPA-525.2	94.6	%	1	70 - 130 (L	.CL - UCL)	05/12/20	05/14/20 11:20	
1-Naphthol	EPA-531.2	ND	ug/L	1	5.0	n/a	05/11/20	05/12/20 05:26	
Glyphosate	EPA-547	ND	ug/L	1	25	n/a	05/15/20	05/15/20 16:14	
Dibromoacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
Dichloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
Monobromoacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
Monochloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
Trichloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
Total HAA's (Summation)	EPA-552.3	ND	ug/L	1	1.0	n/a	05/13/20	05/14/20 16:14	
2,3-Dibromopropionic acid (Surrogate)	EPA-552.3	125	%	1	70 - 130 (L	.CL - UCL)	05/13/20	05/14/20 16:14	
Total Recoverable Calcium	EPA-200.7	15	mg/L	1	0.10	n/a	05/13/20	05/14/20 19:08	
Total Recoverable Magnesium	EPA-200.7	4.6	mg/L	1	0.050	n/a	05/13/20	05/14/20 19:08	
Total Recoverable Sodium	EPA-200.7	12	mg/L	1	0.50	n/a	05/13/20	05/14/20 19:08	
Total Recoverable Potassium	EPA-200.7	3.9	mg/L	1	1.0	n/a	05/13/20	05/14/20 19:08	
Bicarbonate Alkalinity as CaCO3	SM-2320B	66	mg/L	1	4.1	n/a	05/15/20	05/15/20 21:03	
Carbonate Alkalinity as CaCO3	SM-2320B	ND	mg/L	1	4.1	n/a	05/15/20	05/15/20 21:03	

Report ID: 1001037393



06/09/2020 13:11 Reported: Project: Annual Title 21

Project Number: Source Water Project Manager: Wes Bergman

BCL Sample ID:	2013608-01	Client Sam	ple Name:	B-1, 5/11/20	20 10:27:00	DAM				
Constituent		Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
Uncategorized										
Hydroxide Alkalinity as	CaCO3	SM-2320B	ND	mg/L	1	4.1	n/a	05/15/20	05/15/20 21:03	
Total Alkalinity as CaC	O3	SM-2320B	66	mg/L	1	4.1	n/a	05/15/20	05/15/20 21:03	
рН		SM-4500H B	7.25	pH Units	1	0.05	n/a	05/15/20	05/15/20 21:03	S05
Total Dissolved Solids	@ 180 C	SM-2540C	120	mg/L	0.500	5.0	n/a	05/13/20	05/13/20 14:00	
Color		SM-2120B	1.0	Color Units	1	1.0	n/a	05/12/20	05/12/20 07:50	
Odor		SM-2150B	No Obs Odor	Odor Units	1	1.0	n/a	05/12/20	05/12/20 07:50	
Chloramine as Cl2		SM-4500-C LF	ND	mg/L	1	0.10	n/a	05/11/20	05/11/20 14:00	S05
Residual Chlorine		SM-4500-C LF	ND	mg/L	1	0.10	n/a	05/11/20	05/11/20 14:00	S05
Chlorine dioxide		SM-4500-C IO2-B	ND	mg/L	1	0.20	n/a	05/11/20	05/11/20 14:30	S05
Total Cyanide		EPA-335.4	ND	mg/L	1	0.0050	n/a	05/13/20	05/14/20 15:50	

Report ID: 1001037393

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

ADE1368 Invoice: AD10146

Felicia Johnson BC Laboratories 4100 Atlas Court Bakersfield, CA 93308

RE: Report for ADE1368 General: Project Manager-Felicia Johnson

Dear Felicia Johnson,

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 5/13/2020. 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 2009 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, Sarah K. Guenther, at 559-497-2888.

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

Sincerely,

Sarah K. Guenther, Project Manager

Sarah Guerthen



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.

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ADE1368



General: Project Manager-Felicia Johnson

#### Case Narrative

Invoice Details

Project PO#: -

Project and Report Details

Client:

BC Laboratories Involce To: BC Laboratories Felicia Johnson Invoice Attn: Felicia Johnson Report To:

2013608 Project #: Received: 5/13/2020 - 15:59 Report Due: 5/28/2020

Sample Receipt Conditions

Cooler: Default Cooler Containers Intact COC/Labels Agree Temperature on Receipt °C: 2.2 Received On Wet Ice

Packing Material - Bubble Wrap

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:

Sample was received without chemical preservation. Sample volume was split and preserved by the laboratory.

#### Report Distribution

Recipient(s)	Report Format	CC:
Felicia Johnson	FINAL.RPT	
Felicia Johnson	FINAL.RPT	sguenther@bskassociates.com;johnw@bclabs.c
		om

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**ADE1368** 

General: Project Manager-Felicia Johnson

2013808

# Certificate of Analysis

Sample ID: ADE1368-01 Sampled By: Client

Sample Description: 2013608-01

Sample Date - Time: 05/11/2020 - 10:27 Matrix: Bottled Water

Sample Type: Grab

### BSK Associates Laboratory Fresno General Chemistry

					RL				
Analyte	Method	Result	RL	Units	Mult	Batch	Prepared	Analyzed	Qual
Bromate	EPA 317.0	ND	0.0010	mg/L	1	ADE0981	05/26/20	05/26/20	501.41
Bromide	EPA 300.1	0.024	0.0050	mg/L	1	ADE0841	05/18/20	05/18/20	
Surregate: Dichloroacetate	EPA 300.1	108 %	Acceptable 5 contracts	range: 90	-115 %				
Chlorite	EPA 300.1	ND	0.0050	mg/L	1	ADE0841	05/18/20	05/18/20	SC1.41
Surrogate: Dichloroacetate	EPA 300.1	108 %	Acceptable	range: 90	-115 %				

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ADE1368 FINAL 05282020 0905

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# ADE1368

General: Project Manager-Felicia Johnson

# BSK Associates Laboratory Fresno

### **General Chemistry Quality Control Report**

				Spike	Source		%REC		RPD	Date
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed Qual
		EPA 300.	L - Ous	lity Cor	strol					
Batch: ADE0841		LI A 300.	- 600	inty coi	ittoi					Prepared: 5/18/202
Prep Method: Method Specific Prepa	eration									
riep metriod, metriod Specific Frepa	iration									Analyst: RE
Blank (ADE0841-BLK1)										
Chlorite	ND	0.0050	mg/L							05/18/20
Bromide	ND	0.0050	mg/L							05/18/20
Surrogate: Dichloroacetate	0.489			0.50		98	90-115			05/18/20
Blank Spike (ADE0841-BS1)										
Chlorite	0.20	0.0050	mg/L	0.20	ND	100	85-115			05/18/20
Bromide	0.19	0.0050	mg/L	0.20	ND	97	85-115			05/18/20
Surrogate: Dichloroacetate	0.507			0.50		101	90-115			05/18/20
Blank Spike Dup (ADE0841-BSD1)										
Chlorite	0.20	0.0050	mg/L	0.20	ND	100	85-115	1	10	05/18/20
Bromide	0.20	0.0050	mg/L	0.20	ND	99	85-115	1	10	05/18/20
Surrogate: Dichloroacetate	0.518	3,3430		0.50		104	90-115			05/18/20
Matrix Spike (ADE0841-MS1), Source	- ADE1369.01									
Chlorite	0.21	0.010	mg/L	0.20	ND	105	75-125			05/18/20
Bromide	0.21	0.010	mg/L	0.20	0.024	96	75-125			05/18/20
Surrogate: Dichloroacetate	1.11	0.010	ingre	1.0	0.024	111	90-115			05/18/20
Matrix Spike (ADE0841-MS2), Source	- ADE0005.07									
Chlorite	0.17	0.010	mg/L	0.20	ND	87	75-125			05/18/20
Bromide	0.28	0.010	-	0.20	0.086	98	75-125			05/18/20
Surrogate: Dichloroacetate	1.08	0.010	mg/L	1.0	0.000	108	90-115			05/18/20
Matrix Spike Dup (ADE0841-MSD1), S	Course: ADE1369 01									
Chlorite	0.21	0.010	mg/L	0.20	ND	105	75-125	0	10	05/18/20
Bromide	0.21	0.010	mg/L	0.20	0.024	94	75-125	1	10	05/18/20
Surrogate: Dichloroacetate	1.08	0.010	mgr	1.0	5.524	108	90-115			05/18/20
Matrix Calles Dun (ADERGA) MCD2), 6	Pauron ADEODOE 07									
Matrix Spike Dup (ADE0841-MSD2), \$ Chlorite	0.18	0.010	mg/L	0.20	ND	89	75-125	2	10	05/18/20
Bromide	0.29	0.010	mg/L	0.20	0.086	101	75-125	3	10	05/18/20
Surrogate: Dichloroacetate	1.11	0.010	ingre	1.0	5.000	111	90-115		.0	05/18/20
		EPA 317.0	) - Que	ality Cor	itrol					
Batch: ADE0981		217017.	- 4446							Prepared: 5/26/202
Prep Method: Method Specific Prepa	aration									Analyst: DXI
Blank (ADE0981-BLK1)										-
Bromate	ND	0.0010	mg/L							05/26/20
Disable Calles (ADECCO)										
Blank Spike (ADE0981-BS1)	0.0000			0.010			05 445			05/20/20
Bromate	0.0099	0.0010	mg/L	0.010	ND	99	85-115			05/26/20
Blank Spike Dup (ADE0981-BSD1)										
he results in this report apply to the sample								А	DE136	8 FINAL 05282020 0905
ccordance with the chain of custody docur nalytical report must be reproduced in its e										
,,				ociates.						Page 4 of 9

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Subcontract Report for 2013608 PDF File Name: WO\_2013608\_SUB\_BSKSA.pdf Page 5 of 9



### ADE1368

General: Project Manager-Felicia Johnson

### BSK Associates Laboratory Fresno

### General Chemistry Quality Control Report

Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed Qual
	EPA 317.0	) - Qua	lity Cor	itrol					
			•						Prepared: 5/26/2020
eparation									Analyst: DXR
0.010	0.0010	mg/L	0.010	ND	104	85-115	5	10	05/26/20
rce: ADE1368-01									
0.0096	0.0010	mg/L	0.010	ND	96	75-125			05/26/20
), Source: ADE1368-01									
		mg/L	0.010	ND	97	75-125	1	10	05/26/20
	0.010 rce: ADE1368-01 0.0096 ), Source: ADE1368-01	eparation  0.010 0.0010 0.0010 rce: ADE1368-01 0.0096 0.0010	EPA 317.0 - Qual eparation  0.010 0.0010 mg/L rce: ADE1368-01 0.0010 mg/L ), Source: ADE1368-01	PA 317.0 - Quality Conseparation  O.010  O.0010  O.001	### Result RL Units Level Result  ###################################	Result   RL   Units   Level   Result   %/REC	PA 317.0 - Quality Control  EPA 317.0 - Quality Control  Eparation  0.010 0.0010 mg/L 0.010 ND 104 85-115  rce: ADE1368-01 0.0096 0.0010 mg/L 0.010 ND 96 75-125  ), Source: ADE1368-01	Result   RL   Units   Level   Result   %REC   Limits   RPD	Result   RL   Units   Level   Result   %REC   Limits   RPD   Limit

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ADE1368

General: Project Manager-Felicia Johnson

### 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. If Field Reagent Blanks were not submitted with the samples, this method requirement has
  not been performed.
- 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. A trace value is an analyte detected between the MDL and the
  laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve
  extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which
  contribute to the un-reliability of these values.
- (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. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- · 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 characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) Formerly known as Bis(2-Chloroisopropyl) ether.

#### Definitions

mq/L: Milligrams/Liter (ppm) MDL: Method Detection Limit MDA95: Min. Detected Activity Milligrams/Kilogram (ppm) Reporting Limit: DL x Dilution MPN: Most Probable Number mg/Kg: μg/L: Micrograms/Liter (ppb) ND: None Detected below MRL/MDL CFU: Colony Forming Unit Micrograms/Kilogram (ppb) pCi/L: Less than 1 CFU/100mLs μg/Kg: PicoCuries per Liter Absent: Percent RL Mult: RL Multiplier 1 or more CFU/100mLs Present: Non-Reportable Maximum Contaminant Limit The analyte was not detected at or above the reported sample quantitation

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

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

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Subcontract Report for 2013608 PDF File Name: WO\_2013608\_SUB\_BSKSA.pdf Page 7 of 9



### ADE1368

General: Project Manager-Felicia Johnson

### Certificate of Analysis

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

2435

Fresno

State of California - ELAP 1180 State of Hawaii 4021 Los Angeles CSD 9254479 NELAP certified 4021-014 State of Nevada CA000792020-2 State of Oregon - NELAP 4021-014 EPA - UCMR4 CA00079 State of Washington C997-20

San Bernardino

State of California - ELAP 2993 Los Angeles CSD 9254478 4119-004 State of Oregon - NELAP 4119-004 NELAP certified

Vancouver

NELAP certified WA100008-012 State of Oregon - NELAP WA100008-013

State of Washington C824-19

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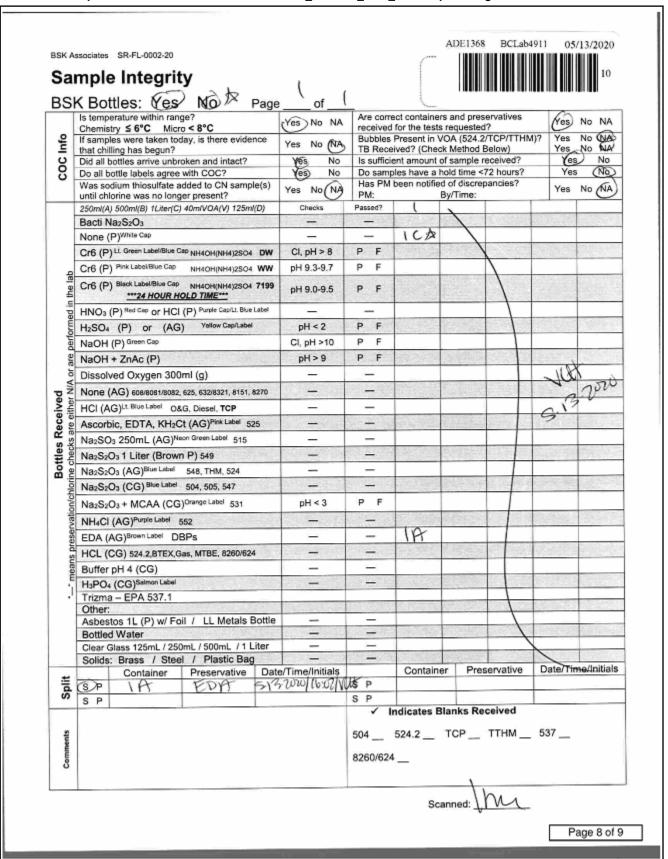
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# SUBCONTRACT ORDER **BC** Laboratories

2013608

n 111 1.11

#### SENDING LABORATORY:

BC Laboratories 4100 Atlas Ct Bakersfield, CA 93308 Phone: 661-327-4911 Fax: 661-327-1918

Project Manager: Felicia Johnson

# RECEIVING LABORATORY:

BSK Analytical Labs- Fresno \$BSKSA-EINV 1414 Stanislaus Street Fresno, CA 93706

Phone :(800) 877-8310 Fax: (559) 485-6935

Analysis	Due	Expires	Laboratory ID	Comments	DOTALE	Utiles
Sample ID: 2013608-01	Water	Sampled:05/11/20 10:27				
oi300.1w Chlorite BSKSA	05/22/20 17:0	0 05/25/20 10:27				
oi300.1w Bromide Low Level	05/22/20 17:0	0 06/08/20 10:27				

BSKSA oi300.0w Bromate (ug/L) 05/22/20 17:00 06/08/20 10:27 BSKSA

NA 5-13-2020 15:59 Released By Page 1 of 1

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May 19, 2020

FAL Project 13120

Ms. Felicia Johnson BC Laboratories 4100 Atlas Court Bakersfield, CA 93308

Dear M.s. Johnson,

The following results are associated with Frontier Analytical Laboratory project 13120. This corresponds to your subcontract order number 2013608. One drinking water sample was received on 5/14/2020 in good condition. This sample was extracted and analyzed by EPA Method 1613 for 2,3,7,8-TCDD only. BC Laboratories requested a turnaround time of fifteen business days for project 13120.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed results are specifically for the sample referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is 4041. Our State of California ELAP certificate number is 2934. This report has been emailed to you as a portable document file (PDF). A hardcopy of this report will not be sent to you unless specifically requested.

If you have any questions regarding project 13120, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Thomas C. Crabtree Director

FRONTIER ANALYTICAL LABORATORY

5172 Hillsdale Circle \* El Dorado Hills, CA 95762 Tel (916) 934-0900 \* Fax (916) 934-0999 www.frontieranalytical.com

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# Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: 13120

Received on: 05/14/2020 Project Due: 06/05/2020 Storage: R-4

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
13120-001-84	1	2013608	2013608-01	EPA 1613 TCDD	Drinking Water	05/11/2020	10:27 am	05/11/2021

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## EPA Method 1613 **TCDD**



FAL ID: 13120-001-MB Client ID: Method Blank Matrix: Drinking Water Batch No: X5324

Date Extracted: 05-15-2020 Date Received: NA Amount 1.000 L

ICal: PCDDFAL3-3-23-20 GC Column: DB5MS Units: pa/L

Acquired: 05-15-2020 WHO TEQ: NA

Compound 2,3,7,8-TCDD Conc ND

DL 0.539 MDL

Internal Standards

QC Limits

0.368

% Rec

Qual

Qual

13C-2,3,7,8-TCDD

90.5 31.0 - 137

Cleanup Surrogate

37CI-2,3,7,8-TCDD 99.3 42.0 - 164

- Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- Analyte confirmation on secondary column
- Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- Sample acceptance criteria not met
- Matrix interferences
- Result taken from dilution or reinjection

5/19/2020

Reviewed By: Date: 5/19/2020

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Subcontract Report for 2013608 PDF File Name: wo\_2013608\_sub\_frntl.pdf Page 4 of 8

## EPA Method 1613 TCDD



FAL ID: 13120-001-OPR Client ID: OPR Matrix: Drinking Water Batch No: X5324 Date Extracted: 05-15-2020 Date Received: NA Amount 1.000 L

87.9 25.0 - 141

ICal: PCDDFAL3-3-23-20 GC Column: DB5MS Units: ng/ml Acquired: 05-15-2020 WHO TEQ: NA

 Compound
 Conc
 QC Limits

 2,3,7,8-TCDD
 11.9
 7.30 - 14.6

 Internal Standards
 % Rec
 QC Limits

Cleanup Surrogate

13C-2,3,7,8-TCDD

37CI-2,3,7,8-TCDD 99.5 37.0 - 158

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: 5/19/2020

000004 of 000008

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Subcontract Report for 2013608 PDF File Name: wo\_2013608\_sub\_frntl.pdf Page 5 of 8

## EPA Method 1613 **TCDD**



FAL ID: 13120-001-SA Client ID: 2013608-01 Matrix: Drinking Water Batch No: X5324

Date Extracted: 05-15-2020 Date Received: 05-14-2020 Amount: 0.968 L

ICal: PCDDFAL3-3-23-20 GC Column: DB5MS Units: pa/L

Acquired: 05-15-2020 WHO TEQ: NA

Compound 2,3,7,8-TCDD Conc ND

DL Qual 0.561

MDL 0.368

Internal Standards 13C-2,3,7,8-TCDD % Rec

QC Limits Qual

88.6

31.0 - 137

Cleanup Surrogate

37CI-2,3,7,8-TCDD

103 42.0 - 164

- Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- Analyte confirmation on secondary column
- Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- Sample acceptance criteria not met
- Matrix interferences
- Result taken from dilution or reinjection

5/19/2020

Reviewed By: Date: 5/19/2020

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## SUBCONTRACT ORDER BC Laboratories 2013608

### SENDING LABORATORY:

BC Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918

Project Manager: Felicia Johnson

RECEIVING LABORATORY:

Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762 Phone: (916) 934-0900 FAX: (916) 934-0999 13120

0 514.70000051

FRNTL

000

 Analysis
 Due
 Expires
 Comments

 Sample ID: 2013608-01
 Water
 Sampled: 05/11/20 10:27
 BOHL UTUK

 EPA 1613B - 2,3,7,8-TCDD
 05/22/20 17:00
 05/10/21 10:27

 Containers supplied: 1
 0.0
 0.0

Released By Date Received By Date

Released By Date Received By Date 000006 of 000008

FRNTI Page 1 of 1

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# Frontier Analytical Laboratory

## Sample Login Form

FAL Project ID: 13120

Client:	BC Laboratories, Inc
Client Project ID:	2013608
Date Received:	05/14/2020
Time Received:	10:50 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	1
Storage Location:	R-4

Method of Delivery:	Golden State Overnight
Tracking Number:	47057051320371826500
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	Yes
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	Between 4 and 9
Anomalies or additional comments:	

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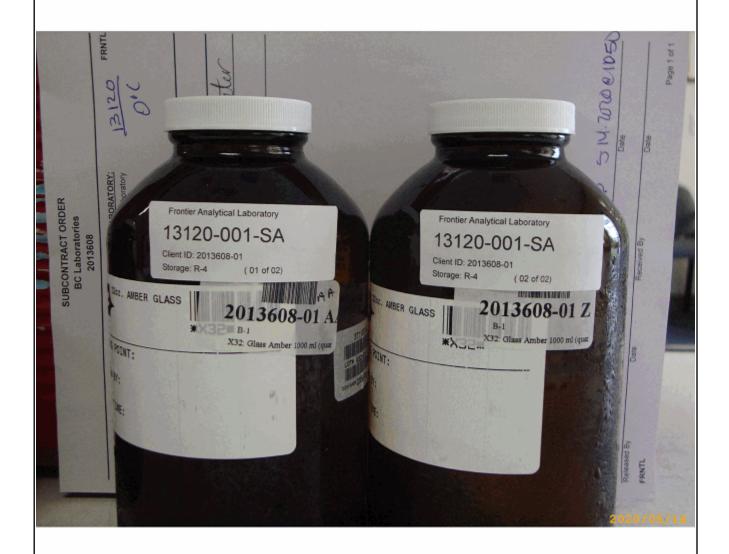
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**Eaton Analytical** 

750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)



# Laboratory Report

for

BC Laboratories, Inc. 4100 Atlas Court Bakersfield, CA 93308 Attention: Tina Green



WV6M: Rosalynn Dang

Project Manager



Report:871358 Project:SUBCONTRACT Group:Low Level Phenolics

- \* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
- \* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- \* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report.

Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

- \* Test results relate only to the sample(s) tested.
- \* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- \* This report shall not be reproduced except in full, without the written approval of the laboratory.

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# **Eaton Analytical**

### STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
lowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

<sup>\*</sup> NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 T | 626-386-1100 F | 866-988-3757 www.EurofinsUS.com/Eaton

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### Subcontract Report for 2013608 PDF File Name: WO\_2013608\_SUB\_MWHMR.PDF Page 3 of 9

#### ISO/IEC 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/AZLA. Refer to Certificate and scope of accreditation

	NC.			pe or accredita
SPECIFIC TESTS	METHOD OR TECHNIQUE USED	mental (Drinking Water)	mental (Waste Water)	Water as a Component of Food and Sevid evil Balti ed Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	×		х
1,4-Dioxane	EPA 522	×		×
2,3,7,8-TCDD	Modified EPA 1913B	×		X
Acrylamide	In House Method (2440)	×		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	×	×	x
Ammonia	EPA 350.1		×	x
Ammonia	SM 4500-NH3 H		×	x
Anions and DBPs by IC	EPA 300.0	×	×	x
Anions and DBPs by IC	EPA 300.1	×		x
Asbettos	EPA 100.2	×	×	
BOD / CBOD	SM 5210B		×	x
Bromate	In House Method (2447)	×		x
Carbamates	EPA 531.2	×		х
Carbonate as CO3	SM 2330B	×	×	х
Carbonyls	EPA 556	×		х
COD	EPA 410.4 / 8M 5220D		×	
Chloramines	SM 4500-CL G	×	×	x
Chlorinated Acids	EPA 515.4	×		×
Chlorinated Acids	EPA 555	×		X
Chlorine Diaxide	SM 4500-CLO2 D Palin Test	×		×
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	×	×	×
Conductivity	EPA 120.1		×	
	SM 2510B		_	-
Conductivity Corrosivity (Langelier Index)	SM 2330B	×	×	x
Oyanide, Amenable	SM 4500-CN G	×	×	<u> </u>
Cyanide, Free	SM 4500CN F	×	×	×
Cyanide, Total	EPA 335.4	×	×	×
Oyanogan Chlorida (screen)	In House Method (2470)	×		х
Diguat and Paraguat	EPA 549.2	×		x
DBP/HAA	SM 6251B	×		x
Dissolved Oxygen	SM 4500-0 G		×	x
DOC	SM 5310C	×		x
E. Coli	(MTF/EC+MUG)	×		×
E. Coli	CFR 141.21(f)(8)(i)	×		X
E. Coli	SM 9223		×	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	×		x
E. Coli (Enumeration)	SM 9223B	×		×
EDB/DCBP	EPA 604.1	×		
EDB/DBCP and DBP	EPA 551.1	×		×
EDTA and NTA	In House Method (2454)	×		×
Endothall	EPA 548.1	×		X
Endothall	In-house Method (2445)	×		×
Enterococci	SM 9230B	×	×	
Fecal Coliform	SM 9221 E (MTF/EC)	×		
Fecal Coliform	SM 9221C, E (MTF/EC)		×	
Fecal Coliform				
(Enumeration)	9M 9221E (MTF/EC)	×		х
Fecal Coliform with Chlorine Present	SM 9221E		×	
Fecal Streptococci	SM 9230B	×	×	
Fluoride	SM 4500-F C	×	×	×
Glyphosete	EPA 547	×		×
Glyphosate + AMPA	In House Method (3618)	×		x
Gross Alpha/Beta	EPA 900.0	×	×	×
Gross Alpha Coprecipitation	SM 7110 C	×	×	×
Hardness	SM 2340B	×	×	× ×
Hoterotrophic Bacteria	In House Method (2439)	×		x
Heterotrophic Bacteria	SM 9215 B	×		×
Hexavalent Chromium	EPA 218.6	×	×	-
AFM WIN WITH WITH	5111 5 100 V			

		Environ-	Emaron-	T
	METHOD OR	mental	mental	Wateraca
SPECIFIC TESTS		(Drinking	(Waste	Component of Fo
	TECHNIQUE USED	Water)	Water)	and Sec Sec/ Sottled Water
Hexavalent Chromium	EPA 218.7	×		×
Hexavalent Chromium	SM 3500-Cr B		×	
Hormones	EPA 539	×		×
Hydroxide as OH Calc.	SM 2330B	×		×
Kjeldahi Nitrogen	EPA 351.2		×	
Legionella	Legiclert	×		х
Mercury	EPA 200.8	×		×
Metals	EPA 200.7 / 200.8	×	×	×
Microcyetin LR	ELISA (2360)	×		×
Microcystin, Total	EPA 546	×		×
NDMA	EEA/Agilent 521.1	×		×
	In house method (2425)			_ ^
Nitrate/Nitrite Nitrogen	EPA 353.2	×	×	×
OCL, Peticides/PC8	EPA 505	×		×
Ortho Phosphate	EPA 365.1	×	×	×
Ortho Phosphorous	SM 4500P E	×		×
Oxyhalides Disinfection	EPA 317.0	х		×
Byproducts				
Perchiorate	EPA 331.0	×		×
Perchlorate (low and high)	EPA 314.0	×		×
Perfluorinated Alkyl Acids	EPA 537	×		×
Perfluorinated Polutant	In house Method (2434)	×		×
pH	EPA 150.1	×		
pH	SM 4500-H+B	×	×	×
Phenylurea Pesticides/	In House Method, based on EPA	×		×
Herbicides	532 (2448)			
Psaudomonas	IDEXX Pseudalert (2461)	×		×
Radium-226	GA Institute of Tech	×		×
Padium-228	GA Institute of Tech	×		×
Radon-222	SM 7500RN	×		×
Residue, Filterable	SM 2540C	×	×	×
		_ ^	_ ^	_ ^
Residue, Non-filterable	SM 2540D		×	
Residue, Total	SM 25408		×	×
Residue, Volatile	EPA 160.4		×	
Sami-VOC	EPA 525.2	×		×
Slica	SM 4500-Si D	×	×	
Slica	SM 4500-SIO2 C	х	х	
Sulfide	SM 4500-S" D		×	
Sulfite	3M 4500-90 <sup>7</sup> B	х	×	×
Surfactants	8M 5540C	×	×	×
			_ ^	
Taste and Odor Analytes	SM 6040E	×		×
Total Coliform (R/A)	SM 9221 A, B	×		×
Total Coliform	SM 9221 A, B, C	×		×
(Enumeration) Total Coliform / E. coli	College Str 2000			
	Colisure SM 9223	×		×
Total Coliform	SM 9221B		×	
Total Coliform with Chlorine Present	SW 9221B		×	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	×		×
TOC	SM 5310C	×	×	×
TOX	SM 5320B		×	
Total Phenois	EPA 420.1		×	
Total Phonois	EPA 420.4	х	х	×
Total Phosphorous	SM 4500 P E		×	
Triazine Pesticides & Degradates	In House (3617)	×		х
Turbidity	EPA 180.1	×	×	×
	SM 2130B	×	×	*
Turkidika	EPA 200.8		- *	
	ELW WITE	×		×
Uranium by ICP/MS				I
Turbidity Uranium by ICP/MS UV 254	SM 5910B	×		
Uranium by ICP/MS		×		×
Uranium by ICP/M 8 UV 254 VOC	SM 5910B EPA 524.2	×		
Uranium by ICP/M 8 UV 254	SW 5910B			×

750 Rayal Caks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 https://www.eurofinsus.com/Eaton. Version 006 1004/81

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Report ID: 1001037393



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eurofins | Eaton Analytical

#### Acknowledgement of Samples Received

Addr: BC Laboratories, Inc. 4100 Atlas Court Bakersfield, CA 93308

Attn: Tina Green Phone: 661-852-4272 Client ID: BCLAB Folder #: 871358 Project: SUBCONTRACT Sample Group: Low Level Phenolics

Project Manager: Rosalynn Dang Phone: 626-386-1250 PO #: 2013608

The following samples were received from you on May 14, 2020 at 1043. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample # Sample ID Sample Date
202005140653 2013608-01 05/11/2020 1027

Phenolic Compounds-low level

**Test Description** 

Reported: 05/27/2020

Page 1 of 1

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

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		CONTRACT ORDER 3C Laboratories 2013608	3° on IU	
SENDING LABORATORY: BC Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918 Project Manager: Felicia Johnson		RECEIVING LABOR Eurofins Eaton Analy 750 Royal Oaks, Suit Monrovia, CA 91101 Martha Frost Phone: (626) 386-11 FAX: (626) 568-632	tical - Monrovia te 100	MWHMR
Analysis	Due	Expires	Comments	94.
	05/22/20 17:0	pled: 05/11/20 10:27 00 06/08/20 10:27	Bottle Who	tor
Containers supplied:	<i>lellaw</i>			
	· ,			
Released By	5-13-70 Date	Received By	5/14/20 NO	43
Released By	Date	Received By	Date	<u> </u>

Report ID: 1001037393



Number (C)  'C)  'C)  'C)  'C)  'C)  'C)  'C)	Sulfs:
AIN OF CUSTODY RECORD  IP RECEIVED:  C'D DAY OF COLLECTION? Yes / No  C'D DAY OF COLLECTION? Yes / No  C'D DAY OF COLLECTION? Yes / No  PICE: Frozen Partially Frozen Thaw  ast / Top Line / Other: (ALS)  Collection)  Collection)  Collection  To the same day as sample collection, within 8 h  collection)  To the same day as sample collection, within 8 h  collection)  Samples with Headspace (see below):  Samples with Headspace (see below):  Samples with Headspace (see below):  Sample Soft of Annovin, LCMS methods using 40 ml vials, 18 sample of the Nanofole of Nanofol	IN seed of tween three batts with H Batts Batts

Report ID: 1001037393



## Subcontract Report for 2013608 PDF File Name: WO\_2013608\_SUB\_MWHMR.PDF Page 7 of 9



Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Laboratory Comments

Report: 871358

Project: SUBCONTRACT Group: Low Level Phenolics

BC Laboratories, Inc. Tina Green 4100 Atlas Court Bakersfield, CA 93308

#### Flags Legend:

NE - Results reported for Phenolic Compounds Low Level are obtained using an in-line distillation process, based on EPA Methods 420.2 and 420.4

The Comments Report may be blank if there are no comments for this report.

Page 7 of 9 pages

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Report ID: 1001037393

1 800 566 LABS (1 800 566 5227)

## Subcontract Report for 2013608 PDF File Name: WO\_2013608\_SUB\_MWHMR.PDF Page 8 of 9

eurofins

Eaton Analytical

Laboratory Data

Tel: (626) 386-1100 Fax: (866) 988-3757

Project: SUBCONTRACT Group: Low Level Phenolics

Report: 871358

BC Laboratories, Inc. Tina Green 4100 Atlas Court Bakersfield, CA 93308

Samples Received on: 05/14/2020 1043

Analyzed Prep Batch Analytical Batch Method Analyte Dilution 2013608-01 (202005140653) Sampled on 05/11/2020 1027

EPA 420.4 - Phenolic Compounds-low level

05/24/20 17:42 1250951 (EPA 420.4) Phenolic Compounds-low level ND (NE)

(c) indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have alight differences in final result than the component analyses.

Page 8 of 9 pages

Report ID: 1001037393



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**Eaton Analytical** 

Laboratory QC

Tel: (626) 386-1100 Fax: (866) 968-3757 1 800 566 LABS (1 800 566 5227) Report: 871358 Project: SUBCONTRACT Group: Low Level Phenolics

BC Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD5
Phenolic Com	pounds-low level by EPA 420.4								
Analytic	al Batch: 1250951					Analysis D	ate: 05/24/	2020	
LCS1	Phenolic Compounds-low level		20	20.3	ug/L	102	(90-110)		
LCS2	Phenolic Compounds-low level		20	20.6	ug/L	103	(90-110)	20	1.5
MBLK	Phenolic Compounds-low level			<0.50	ug/L				
MRL_CHK	Phenolic Compounds-low level		1	0.708	ug/L	71	(50-150)		
MS_20200505034	8 Phenolic Compounds-low level	ND	5	4.42	ug/L	88	(80-120)		
MS_20200508008	Phenolic Compounds-low level	ND	5	5.40	ug/L	104	(80-120)		
MSD_2020050503	48 Phenolic Compounds-low level	ND	5	3.94	ug/L	78	(80-120)	20	12
MSD_2020050800	180 Phenolic Compounds-low level	ND	5	5.10	ug/L	98	(80-120)	20	5.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>

Onterio for MS and Dup are advisory only, batch control is based on LCS. Criterio for duplicates are advisory only, unless otherwise specified in the method. RPD not calculated for CCS value offerent is concentration than LCS1 is used.

RPD not calculated for CD2 value offerent is not five times the MRL (Winimum Reporting Level).

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

Report ID: 1001037393

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

June 09, 2020

Felicia Johnson BC Laboratories 4100 Atlas Ct. Bakersfield, CA 93308

RE: Project: 2013608

Pace Project No.: 30363595

Dear Felicia Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin a Ferris

Carin Ferris carin.ferris@pacelabs.com 724-850-5615 Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### CERTIFICATIONS

Project: 2013608 Pace Project No.: 30363595

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547 Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3 Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526 Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

#### REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### SAMPLE SUMMARY

Project: 2013608 Pace Project No.: 30363595

Lab ID Sample ID Matrix Date Collected Date Received 30363595001 2013608-01 05/18/20 10:00 Drinking Water 05/11/20 10:27

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### SAMPLE ANALYTE COUNT

Project: 2013608 Pace Project No.: 30363595

Lab ID	Sample ID	Method	Analysts	Reported	Laboratory	
30363595001	2013608-01	EPA 904.0	VAL	1	PASI-PA	

PASI-PA = Pace Analytical Services - Greensburg

#### REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### PROJECT NARRATIVE

Project: 2013608 Pace Project No.: 30363595

 Method:
 EPA 904.0

 Description:
 904.0 Radium 228

 Client:
 BC Laboratories

 Date:
 June 09, 2020

#### General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

#### REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

06/08/20 14:13 15262-20-1

#### ANALYTICAL RESULTS - RADIOCHEMISTRY

2013608 Project: Pace Project No.: 30363595

Radium-228

Sample: 2013608-01 Lab ID: 30363595001 Collected: 05/11/20 10:27 Received: 05/18/20 10:00 Matrix: Drinking Water

Site ID: Sample Type: Comments: . The sampler's name and signature were not listed on the COC.

EPA 904.0

Parameters Method Act ± Unc (MDC) Carr Trac Units Analyzed CAS No. Qual Pace Analytical Services - Greensburg

pCi/L

0.425 ± 0.343 (0.692)

C:72% T:82%

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#### QUALITY CONTROL - RADIOCHEMISTRY

2013608 Project: Pace Project No.: 30363595

QC Batch: 397244 Analysis Method: EPA 904.0 QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228

> Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30363595001

METHOD BLANK: 1924014 Matrix: Water

Associated Lab Samples: 30363595001

Act ± Unc (MDC) Carr Trac Parameter Units Analyzed Qualifiers Radium-228 0.522 ± 0.355 (0.679) C:75% T:84% pCi/L 06/08/20 10:59

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### QUALIFIERS

Project: 2013608 Pace Project No.: 30363595

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

POL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Date: 06/09/2020 12:51 PM

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute

#### REPORT OF LABORATORY ANALYSIS

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# SUBCONTRACT ORDER **BC Laboratories** 2013608

SENDING LABORATORY:

BC Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918

Project Manager: Felicia Johnson

RECEIVING LABORATORY:

PACE Analytical 1638 Roseytown Road, Ste 2,3 &4 Greensburg, PA 15601 Phone: (724) 850-5600 FAX: (724) 850-5601

PACEA

01

Sample ID: 2013608-01 EPA 904.0 Radium 228

Analysis

Water

Due

Sampled: 05/11/20 10:27 05/22/20 17:00

Expires

11/08/20 10:27

WO#:30363595

Comments

Released B

70 Date

Received By

Received By

Released By

Date

Date

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PACEA





Subcontract Report for 2013608 PDF File Name: wo\_2013608\_sub\_pacea.pdf Page 10 of 10

Page Analytical Client Name:		βC	Lat	Project # 3 0 3 6 3 5	9 5
(				Label DIC	
Courter: Fed Ex DUPS DUSPS Client Tracking #: 12 965 376 UZ 42	D:	ommen 150 G	cial	Lims Login	
Custody Seal on Cooler/Box Present:  yes	∠ nc			intact: Dyes Dno	
	Туре	of Ice:	(Ve)	Blue None	
Cooler Temperature Observed Temp		·c	Corre	oction Factor: 103 °C Final Temp: °C	
Tamp should be above freezing to 6°C				nH nener Lottle Date and Initials of person examining	
				pH peper Lots Date and Initials of person examining contents: NW 5-16-2C	
Comments:	Yes	No	N/A	100-17	
Chain of Custody Present:		_		1.	
Chain of Custody Filled Out:			-	2.	
Chain of Custody Relinquished:	$\vdash$	-	-	3.	
Sampler Name & Signature on COC:	-	/	-	4.	
Sample Labels match COC:	שמ	/		5. No time/date	
-Includes date/lime/ID Matrix:	100		_		
Samples Arrived within Hold Time:	$\leftarrow$		-	6.	
Short Hold Time Analysis (<72hr remaining):	-	<u> </u>	-	7.	
Rush Turn Around Time Requested:		K	-	8.	
Sufficient Volume:	K		-	9.	
Correct Containers Used:	-	<u></u>	-	10.	
-Pace Containers Used:	1-	<u> </u>	-		
Containers Intact:	$\vdash$		-	11.	
Orthophosphate field filtered	1	-	6	12.	
Hex Cr Aqueous sample field filtered	+		5	13.	
Organic Samples checked for dechlorination:	+-	-	1	15.	
Filtered volume received for Dissolved tests All containers have been checked for preservation.	$\vdash$	<del> </del>	1		
exceptions: VOA, coliform, TOC, O&G, Phenolics,	Radon		_	16. pH12	
Non-aqueous matrix	_	_	,	1	
All containers meet method preservation	Ł	1		Initial when DW DateNime of preservation	
requirements.			•	Lot # of added	
	_			preservative	
Headspace in VOA Vlals ( >6mm):	-		<del>]                                    </del>	17.	
Trip Blank Prosent:		-	$\vdash$	J18.	
Trip Blank Custody Seals Present Rad Samples Screened < 0.5 mreminr	1	-	۲	Initial when DW Date: 5-16-26	
Rad damples december 4 0.5 miletim	$\mathbb{Z}$		_	completed: 10 Date: 3 0 20	,
Client Notification/ Resolution:					
Person-Gontacted:			-Date	/Time:Contacted By:	
Comments/ Resolution:					
<ul> <li>A check in this box indicates that add</li> </ul>					
Note: Whenever there is a discrepancy affecting North C Certification Office (i.e. out of hold, incorrect preservative	arolina	complia	ince se	imples, a copy of this form will be sent to the North Carolina DEHNR	
*PM review is documented electronically in LIMS. When t	he Proje	ect Man	ager d	oses the SRF Review schedule in LIMS. The review is in the Status section	
of the Workorder Edit Screen.					



Subcontract Report for 2013608 PDF File Name: wo\_2013608\_sub\_weckl.PDF



# Certificate of Analysis

FINAL REPORT

5/28/2020

Normal

Work Orders: 0E14025 Report Date:

> 5/14/2020 Received Date:

Turnaround Time: (661) 327-4911 Phones:

(661) 327-1918

Attn: Felicia Johnson

Project: 2013608

Client: BC Laboratories 4100 Atlas Court Bakersfield, CA 93308 P.O. #:

Billing Code:

Dear Felicia Johnson,

Enclosed are the results of analyses for samples received 5/14/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

# Sample Results

Sample:	2013608-01						2	ampied: 05/11/2010:	27 by Client
	0E14025-01 (Wa	ter)							
Analyte				Result	MRL	Units	Dill	Analyzed	Qualifier
Method: EPA	900.0		Batch ID: W0E0978	Instr: RAD02	Prepared: 05	/18/20 10:19		Analyst: hot	
Gross Alph	ha			1.1		pCi/L	1	05/22/20	
Uncertair	nty: 0.45	MDA: 0.653							
Gross Beta				5.4		pCi/L	1	05/22/20	
Uncertain	nty: 0.665	MDA: 0.906							

0E14025 Page 1 of 3

> 14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634 www.wecklabs.com

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. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Report ID: 1001037393 Page 50 of 53



LCS Dup (W0E0978-BSD1)

Uncertainty: 0.802

Uncertainty: 0.853

MDA: 0.65

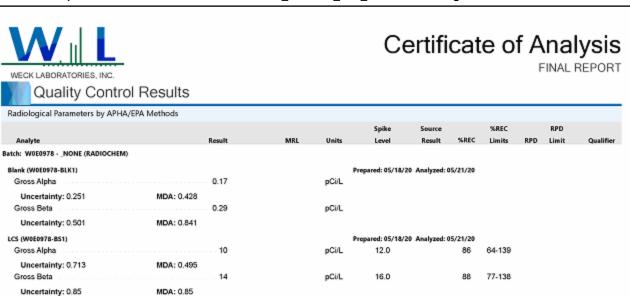
MDA: 0.884

13

Gross Alpha

Gross Beta

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Prepared: 05/18/20 Analyzed: 05/21/20

64-139

77-138

30

83

12.0

16.0

pCi/L

0E14025 Page 2 of 3

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# Certificate of Analysis

FINAL REPORT



# Notes and Definitions

Item Definition
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%REC Percent Recovery

Dil Dilution

MDA Minimum Detectable Activity

MRL The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

The MRL is also known as Limit of Quantitation (LOQ)

RPD Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola Project Manager









ELAP-CA #1132 \* EPA-UCMR #CA00211 \* HW-DOH # \* ISO17025 ANAB #L2457.01 \* LACSD #10143 \* NELAP-OR #4047 \*

NJ-DEP #CA015 \* NV-DEP #NAC 445A \* SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

0E14025 Page 3 of 3

14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634 www.wecklabs.com Palomar Land and Cattle

34300 Canfield Road

Project: Annual Title 21

Palomar Mountain, CA 92060

Project Number: Source Water

Project Manager: Wes Bergman

#### **Notes And Definitions**

MDL Method Detection Limit
ND Analyte Not Detected

PQL Practical Quantitation Limit

S05 The sample holding time was exceeded.

S09 The surrogate recovery for this compound was not within the control limits.

V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

BW-MCL = MCLs for Title 21 Bottled Water

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