

Lahontan Regional Water Quality Control Board

December 30, 2016

Page Beykpour
CG Roxane LLC
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Sausalito, CA 94965
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COMMENTS REGARDING PHASE 3 SITE GROUNDWATER INVESTIGATION REPORT, CG ROXANE LLC, CRYSTAL GEYSER OLANCHA WATER BOTTLING FACILITY, 1210 SOUTH HIGHWAY 395, OLANCHA, INYO COUNTY

Lahontan Regional Water Quality Control Board (Lahontan Water Board) staff has reviewed CG Roxane LLC's Phase 3 Site Groundwater Investigation Report (Phase 3 Report) for the above-referenced site. Thank you for this submittal. The October 20, 2016 report, prepared by Geosyntec Consultants Inc., was submitted pursuant to Lahontan Water Board Investigative Order No. R6V-2014-0063 (Investigative Order), as amended. The Phase 3 Report presents the results of investigation from six additional groundwater monitoring wells in the vicinity of the three wastewater discharge ponds at the site (former Arsenic Pond, East Pond, and Fire Pond), an additional soil boring (B-1), and an additional groundwater boring (B-2).

The Phase 3 Report provides data generally showing the overall extent of impacts to groundwater from unauthorized waste discharges at CG Roxane LLC's Olancha Water Bottling Facility (Facility). To address remaining data gaps, additional investigation is needed to determine the lateral and vertical extent of impacts beneath and near the former Arsenic Pond and associated appurtenances, as well as determine background concentrations of Arsenic, other metals, and other constituents of concern (COCs) in the soil and groundwater. Pursuant to California Water Code section 13267, the Lahontan Water Board will be amending Investigative Order No. R6V-2014-0063 to include a Phase 4 investigation, Risk Assessment, Corrective Action Plan, and Arsenic Pond Closure Plan, as well as continuation of quarterly groundwater monitoring at the site.

Phase 3 Report Comments

1. Please be sure to format all large data tables and figures to 11" x 17". If maps and data tables are not easily legible at 11" x 17", in addition to electronic submittal of the complete report, please also submit oversized hard copies at an appropriately legible scale, via regular mail, of all figures and tables that are not reasonably legible at 11" by 17" scale.

- 2 -

2. The Phase 3 Report (page 12, middle of first paragraph) concludes that naturally occurring Arsenic concentrations in groundwater increase eastward of the Spring-line fault as a result of the increasing presence of the lacustrine sediments toward Owens Dry Lake. While concentrations of Arsenic and other metals vary considerably at the site, it is not clear that this is directly correlated with, and caused by, their respective concentrations in the fine-grained lacustrine deposits, and/or if so, to what extent. Background concentrations of COCs within the lacustrine deposits, coarser-grained alluvial sediments and/or any other soil types at the site have not been established, nor have their respective effects on water quality been determined. Background concentrations of metals and other COCs at the site are data gaps that must be filled in the Phase 4 investigation. Once established, the background concentrations will be used to better define and assess the extent of impacts at the site, as well as assessment of risks to potential receptors (risk assessment) and corrective action purposes.
3. Please include the wastewater discharge ponds on the cross sections and on the Site Conceptual Model (SCM). Additionally, the SCM was not included as a part the Phase 3 report, but was only submitted as part of a separate Technical Memorandum. Please include the SCM in the Phase 3 Report, and revise the three cross sections and the SCM to depict the lateral and vertical dimensions of each of the three wastewater discharge ponds (as well as the wastewater valve distribution box, and associated plumbing, as appropriate) in cross-sectional view. Please also include isoconcentration contours depicting the lateral and vertical extent of Arsenic in the subsurface on each cross section.
4. Please provide two additional cross sections of the Arsenic plume perpendicular to cross sections A and B, one through MW-8, the Arsenic Pond, B-2, MW-9, and MW-14, and another through MW-5, MW-13 and MW-7. As with the cross sections discussed above in Comment 3, please include the wastewater discharge sources on each cross section, where appropriate, and isoconcentration contours to depict the lateral and vertical extent of Arsenic in the subsurface.
5. Monitoring well MW-14 was dry and could not be sampled for this investigation. If MW-14 continues to remain dry, the well will need to be replaced as part of the next phase of investigation at the site.
6. The July 13, 2016 Phase 3 Work Plan states that wells OW-8US and OW-8U would be monitored (bottom of page 12 of the July 13, 2016 Work Plan). No data was provided for OW-8U. Please add the monitoring and sampling of wells OW-8US and OW-8U to the next round of quarterly monitoring and sampling at the site. Water samples collected from these wells must be collected using low-flow purging and sampling methods (or equivalent), and the samples tested for the same metals and other COCs as those tested for in the groundwater monitoring wells at the site.

- 3 -

7. Geosyntec's assessment of data from the two near surface soil samples (SS-01 and SS-02), collected adjacent to the spring east of the Olancho South building near Groundwater Monitoring, Mitigation and Reporting Plan (GMMRP) spring piezometer SS-1, concludes that the analytical results of these samples are not indicative of a release of spent arsenic filtration media (page 24). In the absence of background concentrations, Water Board staff cannot concur with this statement. Determination of background metals concentrations in surface and subsurface soils in this area are needed prior to making such a conclusion. Laboratory analytical results of Water Board samples that were collected concurrently on 8/23/2016 are attached for your review.
8. Please add the monitoring and sampling of spring piezometer SS-1 to the next round of quarterly monitoring and sampling at the site. Water samples collected from this piezometer must be collected using low-flow purging and sampling methods (or equivalent), and the samples tested for the same metals and other COCs as those tested for in the groundwater monitoring wells at the site.
9. Total and dissolved Antimony (Sb) were detected in several grab groundwater samples at concentrations exceeding the Maximum Contaminant Level (MCL) of 6 micrograms per liter (ug/L) for this constituent. The laboratory analytical detection limit of 10 to 15 ug/L for nearly all of the grab groundwater samples exceeds the MCL of 6 ug/L. Additionally, the detection limit for Antimony in the two samples discussed in Comment 7, above, exceeds the screening criteria. As previously stated, every effort must be made to achieve analytical detection limits below MCLs and/or other environmental screening criteria.
10. The methodology used to collect the grab groundwater samples (bailing) resulted in high sediment content, which may adversely affect analytical method detection limits. Additionally, groundwater field sampling parameter data was not collected. All future groundwater samples, including grab groundwater samples, must be collected using low flow purging and sampling methods (or equivalent) to minimize sediment load in the samples, and field sampling parameters (pH, temperature, electrical conductivity, turbidity, dissolved oxygen, oxidation-reduction potential [ORP] and total and free residual chlorine) must be collected and reported.
11. Determination of background concentrations of metals and other COCs (i.e. TDS, Sulfate, Chloride) is necessary to evaluate the elevated concentrations detected at the site. The following total metals constituents were detected at concentrations exceeding their respective MCLs in the grab groundwater samples: barium, beryllium, cadmium, chromium, copper, lead, nickel and mercury.
12. Geosyntec states that soil boring B-1 is "located upgradient of any wastewater discharge outfall by more than 350 feet" and, based on its location, concludes that the elevated Arsenic and Molybdenum detected in the soil samples from

- 4 -

B-1 are “representative of naturally occurring regional levels that are higher than the median California background levels” (page 24). Water Board staff does not concur with this conclusion. Staff has observed discharge from the Fire Pond to the ground surface immediately adjacent to the southeast corner of the Fire Pond. Additionally, the Fire Pond itself is immediately adjacent to both MW-1 and soil boring B-1. It is possible that leakage from the Fire Pond and/or the surface discharges adjacent to it could be the source of the elevated metals in soil in this area. Site-specific background concentrations are needed to evaluate the results of Arsenic, Molybdenum and other metals detected in the soil samples from this location.

13. Geosyntec concludes (bottom of page 26) that “any potential impacts of dissolved arsenic releases from the former Arsenic Pond are within the Site natural background levels”... Again, staff cannot concur in the absence of establishing actual onsite background concentrations of Arsenic, other metals and other COCs.
14. Geosyntec also concludes (bottom of page 26) that, “current analyses show that groundwater originating at and near the former Arsenic Pond will not impact any water supply wells in the area and, based on current information, no known material harm to the environment or reasonably foreseeable beneficial uses for waters of the State have occurred”. In the absence of a Risk Assessment, Water Board staff cannot concur with these conclusions. Additionally, Geosyntec has produced various figures described as modeling results of particle track analysis from the former Arsenic Pond, however no groundwater modeling report of results has been submitted. Please provide a full report of the hydrogeologic analysis and model, including all data inputs and outputs for the Arsenic Pond. Please also provide particle track analyses for the East Pond and Fire Pond. Additionally, as previously discussed with Mr. Grivetti at the 12/2/2016 public meeting, please provide the pond-mounding hydrogeologic model, including all data inputs and outputs, to determine the extent of any mounding effects (if any) at the Arsenic Pond and East Pond, under both typical and maximum wastewater discharge flows from the Facility.
15. Geosyntec’s recommendations (page 27), were previously addressed in Water Board staff’s 11/14/16 email. As accepted therein, Total and Fecal Coliform and Semi-Volatile Organic Compounds (SVOCs) can be eliminated from the quarterly groundwater monitoring analytical program. However, as also stated therein, staff does not support elimination of analyses for volatile organic compounds (VOCs). VOCs have been detected in wastewater samples from the Facility, and in grab-groundwater samples from soil/hydropunch boring AP-2 (downgradient of the Arsenic Pond). Additionally, VOCs are consistently detected in soil gas samples from the soil vapor probe installed adjacent to the Arsenic Pond. These conditions are indicative of a release of VOCs at the site. Therefore, VOCs remain a constituent of concern and must continue to be analyzed in the groundwater and soil vapor probe monitoring program. The

- 5 -

frequency for monitoring will remain unchanged at quarterly. Additionally, VOCs (including chlorinated hydrocarbons and trihalomethanes) will be required for analysis in the soil and groundwater samples collected beneath and near the former Arsenic Pond and appurtenances in the Phase 4 investigation.

16. Please submit complete copies of all monitoring and sampling reports prepared in accordance with the GMMRP for the Cabin Bar Facility. Please be sure to submit both existing GMMRP reports and all future reports moving forward.

October 2016 Technical Memorandum Comment

17. The information provided in the Technical Memorandum is helpful in evaluating the site in context with the overall picture in the site vicinity. Water Board staff acknowledges that substantially higher Arsenic concentrations, as well as other metals and salts, are present in and toward Owens Lake northeast of the site. When evaluating onsite concentrations at the Facility, however, vastly lower concentrations of Arsenic and other COCs are present, including concentrations of Arsenic well below the MCL of 10 ug/L, and in some locations, below the detection limit. As previously stated, the absence of site-specific data/concentrations of COCs prior to any waste discharges at this site is problematic. This, in tandem with the broad range of concentrations in the area, necessitates a statistically significant background concentration study be performed at the site to establish background conditions, and/or a range of background conditions for the site. Establishing background concentrations is also necessary for risk assessment and corrective action purposes, which will be included in the amended investigative order for the site, to be issued within the next couple of weeks.

Please submit the above-requested revisions, to the Phase 3 report as well as the hydrogeologic modeling results, by **March 1, 2017**.

Please contact me at (530) 542-5452 (Lisa.Scoralle@waterboard.ca.gov), or Catherine Pool, Senior Water Resources Control Engineer, at (530) 542-5460 (Catherine.Pool@waterboards.ca.gov) if you have any questions regarding these matters.



for Lisa Scorallo, PG
Engineering Geologist

Enclosure: Analytical Report of Water Board Split Samples collected 8/23/2016

cc: See next page

- 6 -

cc: Pierre Boulier, CG Roxane LLC
Sebastien Guyard, CG Roxane LLC
Ryan Smith, CG Roxane LLC
Mark Grivetti, Geosyntec Consultants
Kevin Coffman, Geosyntec Consultants
Christopher Sanders
Patty Z. Kouyoumdjian, Executive Officer, Lahontan Water Board
Lauri Kemper, Assistant Executive Officer, Lahontan Water Board
Kim Niemeyer, State Water Board, Office of Chief Counsel
Paul Ciccarelli, State Water Board, Office of Enforcement
Heidi Calvert, California Dept. of Fish and Wildlife
Malcolm Clark, Sierra Club
Cathreen Richards, Inyo County Planning Department
Marvin Moskowitz, Inyo County Environmental Health Services
Joshua Hart, Inyo County Planning Dept.
Bob Harrington, Inyo County Water Dept.
Dustin Hardwick, Cartago Mutual Water Company
Aaron Allen, U.S. Army Corps of Engineers
Dave Stuck, California Dept. of Toxic Substances Control
Glenn Forman, California Dept. of Toxic Substances Control
Matt Kingsley, Inyo County Supervisor
Kevin Carunchio, Inyo County Administrative Officer
Kathy Barton, Inyo County Environmental Health Services
Cathe Pool, Lahontan Water Board
Lisa Scorallo, Lahontan Water Board



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 1 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
B6H3003-01	617RB6008 Grab	Liquid	08/23/16 13:00	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-02	617RB6008 (Dissolved) Grab	Liquid	08/23/16 13:00	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-03	617RB6009 Grab	Liquid	08/23/16 14:00	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-04	617RB6009 (Dissolved) Grab	Liquid	08/23/16 14:00	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-05	617RB6010 Grab	Solid	08/23/16 15:30	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-06	617RB6010 Grab	Solid	08/23/16 15:30	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-07	617RB6011 Grab	Solid	08/23/16 15:45	Lisa Scorallo	08/30/16 10:03	FedEx
B6H3003-08	617RB6011 Grab	Solid	08/23/16 15:45	Lisa Scorallo	08/30/16 10:03	FedEx



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 2 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6008	Liquid	08/23/16 13:00	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids								
Antimony	2.5	10	0.40	ug/L	EPA 200.8	09/07/16 18:15	mel	J
Arsenic	470	5.0	1.2	ug/L	EPA 200.8	09/07/16 18:15	mel	
Barium	430	20	0.18	ug/L	EPA 200.8	09/07/16 18:15	mel	
Beryllium	1.9	10	0.26	ug/L	EPA 200.8	09/07/16 18:15	mel	J
Cadmium	1.3	2.0	0.26	ug/L	EPA 200.8	09/07/16 18:15	mel	J
Total Chromium	140	20	1.9	ug/L	EPA 200.8	09/07/16 18:15	mel	
Cobalt	21	10	0.19	ug/L	EPA 200.8	09/07/16 18:15	mel	
Copper	120	10	0.64	ug/L	EPA 200.8	09/07/16 18:15	mel	
Lead	76	10	0.19	ug/L	EPA 200.8	09/07/16 18:15	mel	
Mercury	ND	0.20	0.050	ug/L	SM 3112B	09/08/16 15:13	ams	
Molybdenum	300	20	0.33	ug/L	EPA 200.8	09/08/16 13:56	mel	
Nickel	39	20	0.20	ug/L	EPA 200.8	09/07/16 18:15	mel	
Selenium	7.2	5.0	1.4	ug/L	EPA 200.8	09/07/16 18:15	mel	
Silver	0.37	10	0.22	ug/L	EPA 200.8	09/07/16 18:15	mel	J
Thallium	1.1	200	0.40	ug/L	EPA 200.8	09/08/16 13:56	mel	J
Vanadium	270	10	4.1	ug/L	EPA 200.8	09/07/16 18:15	mel	
Zinc	280	10	1.5	ug/L	EPA 200.8	09/07/16 18:15	mel	
Volatile Organic Compounds by EPA 8260B								
1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1,1-Trichloroethane	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1,2,2-Tetrachloroethane	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1,2-Trichloroethane	ND	5.0	3.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1-Dichloroethane	ND	5.0	0.98	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1-Dichloroethene	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,1-Dichloropropene	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2,3-Trichlorobenzene	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2,3-Trichloropropane	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2,4-Trichlorobenzene	ND	5.0	3.4	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2,4-Trimethylbenzene	ND	5.0	0.93	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2-Dichlorobenzene	ND	5.0	2.0	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2-Dichloroethane	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,2-Dichloropropane	ND	5.0	1.9	ug/L	EPA 8260B	09/02/16 07:39	jes	

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 3 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6008	Liquid	08/23/16 13:00	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
1,3,5-Trimethylbenzene	ND	5.0	0.79	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,3-Dichlorobenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,3-Dichloropropane	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
1,4-Dichlorobenzene	ND	5.0	0.72	ug/L	EPA 8260B	09/02/16 07:39	jes	
2,2-Dichloropropane	ND	5.0	4.9	ug/L	EPA 8260B	09/02/16 07:39	jes	
2-Butanone(MEK)	ND	30	12	ug/L	EPA 8260B	09/02/16 07:39	jes	
2-Chlorotoluene	ND	5.0	0.92	ug/L	EPA 8260B	09/02/16 07:39	jes	
4-Chlorotoluene	ND	5.0	0.95	ug/L	EPA 8260B	09/02/16 07:39	jes	
4-Methyl-2-Pentanone(MIBK)	ND	50	9.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
Acrolein	ND	100	11	ug/L	EPA 8260B	09/02/16 07:39	jes	
Acrylonitrile	ND	100	12	ug/L	EPA 8260B	09/02/16 07:39	jes	
Benzene	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 07:39	jes	
Bromobenzene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
Bromochloromethane	ND	5.0	3.3	ug/L	EPA 8260B	09/02/16 07:39	jes	
Bromodichloromethane	ND	5.0	1.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
Bromoform	ND	10	5.0	ug/L	EPA 8260B	09/02/16 07:39	jes	
Bromomethane	ND	5.0	4.8	ug/L	EPA 8260B	09/02/16 07:39	jes	
Carbon Tetrachloride	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
Chlorobenzene	ND	5.0	2.3	ug/L	EPA 8260B	09/02/16 07:39	jes	
Chloroethane	ND	5.0	3.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
Chloroform	ND	5.0	4.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Chloromethane	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
cis-1,2-Dichloroethene	ND	5.0	1.8	ug/L	EPA 8260B	09/02/16 07:39	jes	
cis-1,3-Dichloropropene	ND	5.0	3.0	ug/L	EPA 8260B	09/02/16 07:39	jes	
Dibromochloromethane	ND	5.0	3.7	ug/L	EPA 8260B	09/02/16 07:39	jes	
Dibromomethane	ND	5.0	1.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Dichlorodifluoromethane	ND	5.0	1.8	ug/L	EPA 8260B	09/02/16 07:39	jes	
Ethylbenzene	ND	5.0	2.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Hexachlorobutadiene	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
Isopropylbenzene	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Methyl tert Butyl Ether	ND	50	4.3	ug/L	EPA 8260B	09/02/16 07:39	jes	
Methylene Chloride	ND	30	1.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
Naphthalene	ND	5.0	4.4	ug/L	EPA 8260B	09/02/16 07:39	jes	

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Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
n-Butylbenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
n-Propylbenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
sec-Butylbenzene	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
Styrene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
tert-Butylbenzene	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
Tetrachloroethene	ND	5.0	2.3	ug/L	EPA 8260B	09/02/16 07:39	jes	
Toluene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 07:39	jes	
trans-1,2-Dichloroethene	ND	5.0	1.0	ug/L	EPA 8260B	09/02/16 07:39	jes	
trans-1,3-Dichloropropene	ND	5.0	2.4	ug/L	EPA 8260B	09/02/16 07:39	jes	
Trichloroethene	ND	5.0	2.5	ug/L	EPA 8260B	09/02/16 07:39	jes	
Trichlorofluoromethane	ND	50	1.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Vinyl Chloride	ND	5.0	1.3	ug/L	EPA 8260B	09/02/16 07:39	jes	
Xylenes (m+p)	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 07:39	jes	
Xylenes (ortho)	ND	5.0	4.1	ug/L	EPA 8260B	09/02/16 07:39	jes	
Diisopropyl ether	ND	30	3.0	ug/L	EPA 8260B	09/02/16 07:39	jes	
Ethyl tert-butyl ether	ND	30	2.9	ug/L	EPA 8260B	09/02/16 07:39	jes	
tert-Amyl Methyl Ether	ND	30	3.7	ug/L	EPA 8260B	09/02/16 07:39	jes	
Tert-butyl alcohol	ND	500	21	ug/L	EPA 8260B	09/02/16 07:39	jes	
Surrogate: 1,2-Dichloroethane-d4	104	%	80-120		EPA 8260B	09/02/16 07:39	jes	
Surrogate: Bromofluorobenzene	102	%	80-120		EPA 8260B	09/02/16 07:39	jes	
Surrogate: Toluene-d8	93.6	%	80-120		EPA 8260B	09/02/16 07:39	jes	



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 5 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6008 (Dissolved)	Liquid	08/23/16 13:00	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Metals and Metalloids								
Antimony	3.8	10	0.40	ug/L	EPA 200.8	09/07/16 19:26	mel	J, N_pFilt
Arsenic	420	5.0	1.2	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Barium	6.0	20	0.18	ug/L	EPA 200.8	09/07/16 19:26	mel	J, N_pFilt
Beryllium	ND	10	0.26	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Cadmium	ND	2.0	0.26	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Total Chromium	ND	20	1.9	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Cobalt	ND	10	0.19	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Copper	5.6	10	0.64	ug/L	EPA 200.8	09/07/16 19:26	mel	J, N_pFilt
Lead	11	10	0.19	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Mercury	ND	0.20	0.050	ug/L	SM 3112B	09/08/16 15:15	ams	N_pFilt
Molybdenum	380	50	0.84	ug/L	EPA 200.8	09/09/16 15:07	AP	N_pFilt
Nickel	1.1	20	0.20	ug/L	EPA 200.8	09/07/16 19:26	mel	J, N_pFilt
Selenium	ND	5.0	1.4	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Silver	ND	10	0.22	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Thallium	ND	200	0.20	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Vanadium	85	10	4.1	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt
Zinc	ND	10	1.5	ug/L	EPA 200.8	09/07/16 19:26	mel	N_pFilt



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

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Analytical Report: Page 6 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6009	Liquid	08/23/16 14:00	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids								
Antimony	16	10	0.40	ug/L	EPA 200.8	09/07/16 18:17	mel	
Arsenic	110	5.0	1.2	ug/L	EPA 200.8	09/07/16 18:17	mel	
Barium	970	20	0.18	ug/L	EPA 200.8	09/07/16 18:17	mel	
Beryllium	4.2	10	0.26	ug/L	EPA 200.8	09/07/16 18:17	mel	J
Cadmium	1.4	2.0	0.26	ug/L	EPA 200.8	09/07/16 18:17	mel	J
Total Chromium	130	20	1.9	ug/L	EPA 200.8	09/07/16 18:17	mel	
Cobalt	25	10	0.19	ug/L	EPA 200.8	09/07/16 18:17	mel	
Copper	660	10	0.64	ug/L	EPA 200.8	09/07/16 18:17	mel	
Lead	82	10	0.19	ug/L	EPA 200.8	09/07/16 18:17	mel	
Mercury	2.4	0.20	0.050	ug/L	SM 3112B	09/08/16 15:17	ams	
Molybdenum	66	10	0.17	ug/L	EPA 200.8	09/07/16 18:17	mel	
Nickel	140	20	0.20	ug/L	EPA 200.8	09/07/16 18:17	mel	
Selenium	7.2	5.0	1.4	ug/L	EPA 200.8	09/07/16 18:17	mel	
Silver	2.0	10	0.22	ug/L	EPA 200.8	09/07/16 18:17	mel	J
Thallium	1.1	200	0.20	ug/L	EPA 200.8	09/08/16 14:02	mel	J
Vanadium	240	10	4.1	ug/L	EPA 200.8	09/07/16 18:17	mel	
Zinc	290	10	1.5	ug/L	EPA 200.8	09/07/16 18:17	mel	
Volatile Organic Compounds by EPA 8260B								
1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1,1-Trichloroethane	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1,2,2-Tetrachloroethane	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1,2-Trichloroethane	ND	5.0	3.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1-Dichloroethane	ND	5.0	0.98	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1-Dichloroethene	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,1-Dichloropropene	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2,3-Trichlorobenzene	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2,3-Trichloropropane	ND	5.0	2.9	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2,4-Trichlorobenzene	ND	5.0	3.4	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2,4-Trimethylbenzene	ND	5.0	0.93	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2-Dichlorobenzene	ND	5.0	2.0	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2-Dichloroethane	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,2-Dichloropropane	ND	5.0	1.9	ug/L	EPA 8260B	09/02/16 08:11	jes	

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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 7 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6009	Liquid	08/23/16 14:00	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
1,3,5-Trimethylbenzene	ND	5.0	0.79	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,3-Dichlorobenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,3-Dichloropropane	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
1,4-Dichlorobenzene	ND	5.0	0.72	ug/L	EPA 8260B	09/02/16 08:11	jes	
2,2-Dichloropropane	ND	5.0	4.9	ug/L	EPA 8260B	09/02/16 08:11	jes	
2-Butanone(MEK)	ND	30	12	ug/L	EPA 8260B	09/02/16 08:11	jes	
2-Chlorotoluene	ND	5.0	0.92	ug/L	EPA 8260B	09/02/16 08:11	jes	
4-Chlorotoluene	ND	5.0	0.95	ug/L	EPA 8260B	09/02/16 08:11	jes	
4-Methyl-2-Pentanone(MIBK)	ND	50	9.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
Acrolein	ND	100	11	ug/L	EPA 8260B	09/02/16 08:11	jes	
Acrylonitrile	ND	100	12	ug/L	EPA 8260B	09/02/16 08:11	jes	
Benzene	ND	5.0	1.4	ug/L	EPA 8260B	09/02/16 08:11	jes	
Bromobenzene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
Bromochloromethane	ND	5.0	3.3	ug/L	EPA 8260B	09/02/16 08:11	jes	
Bromodichloromethane	ND	5.0	1.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
Bromoform	ND	10	5.0	ug/L	EPA 8260B	09/02/16 08:11	jes	
Bromomethane	ND	5.0	4.8	ug/L	EPA 8260B	09/02/16 08:11	jes	
Carbon Tetrachloride	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
Chlorobenzene	ND	5.0	2.3	ug/L	EPA 8260B	09/02/16 08:11	jes	
Chloroethane	ND	5.0	3.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
Chloroform	ND	5.0	4.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Chloromethane	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
cis-1,2-Dichloroethene	ND	5.0	1.8	ug/L	EPA 8260B	09/02/16 08:11	jes	
cis-1,3-Dichloropropene	ND	5.0	3.0	ug/L	EPA 8260B	09/02/16 08:11	jes	
Dibromochloromethane	ND	5.0	3.7	ug/L	EPA 8260B	09/02/16 08:11	jes	
Dibromomethane	ND	5.0	1.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Dichlorodifluoromethane	ND	5.0	1.8	ug/L	EPA 8260B	09/02/16 08:11	jes	
Ethylbenzene	ND	5.0	2.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Hexachlorobutadiene	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
Isopropylbenzene	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Methyl tert Butyl Ether	ND	50	4.3	ug/L	EPA 8260B	09/02/16 08:11	jes	
Methylene Chloride	ND	30	1.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
Naphthalene	ND	5.0	4.4	ug/L	EPA 8260B	09/02/16 08:11	jes	

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LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 8 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6009	Liquid	08/23/16 14:00	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
n-Butylbenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
n-Propylbenzene	ND	5.0	1.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
sec-Butylbenzene	ND	5.0	1.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
Styrene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
tert-Butylbenzene	ND	5.0	2.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
Tetrachloroethene	ND	5.0	2.3	ug/L	EPA 8260B	09/02/16 08:11	jes	
Toluene	ND	5.0	2.2	ug/L	EPA 8260B	09/02/16 08:11	jes	
trans-1,2-Dichloroethene	ND	5.0	1.0	ug/L	EPA 8260B	09/02/16 08:11	jes	
trans-1,3-Dichloropropene	ND	5.0	2.4	ug/L	EPA 8260B	09/02/16 08:11	jes	
Trichloroethene	ND	5.0	2.5	ug/L	EPA 8260B	09/02/16 08:11	jes	
Trichlorofluoromethane	ND	50	1.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Vinyl Chloride	ND	5.0	1.3	ug/L	EPA 8260B	09/02/16 08:11	jes	
Xylenes (m+p)	ND	5.0	3.6	ug/L	EPA 8260B	09/02/16 08:11	jes	
Xylenes (ortho)	ND	5.0	4.1	ug/L	EPA 8260B	09/02/16 08:11	jes	
Diisopropyl ether	ND	30	3.0	ug/L	EPA 8260B	09/02/16 08:11	jes	
Ethyl tert-butyl ether	ND	30	2.9	ug/L	EPA 8260B	09/02/16 08:11	jes	
tert-Amyl Methyl Ether	ND	30	3.7	ug/L	EPA 8260B	09/02/16 08:11	jes	
Tert-butyl alcohol	ND	500	21	ug/L	EPA 8260B	09/02/16 08:11	jes	
Surrogate: 1,2-Dichloroethane-d4	100	%	80-120		EPA 8260B	09/02/16 08:11	jes	
Surrogate: Bromofluorobenzene	103	%	80-120		EPA 8260B	09/02/16 08:11	jes	
Surrogate: Toluene-d8	96.0	%	80-120		EPA 8260B	09/02/16 08:11	jes	



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Client Name: Regional WQCB, Lahontan Tahoe Office
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Analytical Report: Page 9 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6009 (Dissolved)	Liquid	08/23/16 14:00	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Metals and Metalloids								
Antimony	45	10	0.40	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Arsenic	60	5.0	1.2	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Barium	26	20	0.18	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Beryllium	ND	10	0.26	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Cadmium	ND	2.0	0.26	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Total Chromium	ND	20	1.9	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Cobalt	ND	10	0.19	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Copper	4.2	10	0.64	ug/L	EPA 200.8	09/07/16 19:28	mel	J, N_pFilt
Lead	ND	10	0.19	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Mercury	ND	0.20	0.050	ug/L	SM 3112B	09/08/16 15:19	ams	N_pFilt
Molybdenum	79	10	0.17	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Nickel	1.3	20	0.20	ug/L	EPA 200.8	09/07/16 19:28	mel	J, N_pFilt
Selenium	ND	5.0	1.4	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Silver	ND	10	0.22	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Thallium	ND	200	0.20	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Vanadium	73	10	4.1	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt
Zinc	ND	10	1.5	ug/L	EPA 200.8	09/07/16 19:28	mel	N_pFilt



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Client Name: Regional WQCB, Lahontan Tahoe Office
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Analytical Report: Page 10 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids; EPA SW846 Series								
Antimony	1.2	10	0.19	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Arsenic	38	10	0.74	mg/kg	EPA 6020	09/01/16 16:35	AP	
Barium	62	10	0.84	mg/kg	EPA 6020	09/01/16 16:35	AP	
Beryllium	ND	5.0	0.37	mg/kg	EPA 6020	09/01/16 16:35	AP	
Cadmium	ND	5.0	0.63	mg/kg	EPA 6020	09/01/16 16:35	AP	
Total Chromium	10	10	0.81	mg/kg	EPA 6020	09/01/16 16:35	AP	
Cobalt	2.4	10	0.19	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Copper	11	10	0.78	mg/kg	EPA 6020	09/01/16 16:35	AP	
Lead	3.7	10	0.29	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Mercury	ND	0.20	0.024	mg/kg	EPA 7471A	09/02/16 13:18	ams	
Molybdenum	3.2	10	0.46	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Nickel	5.7	10	0.48	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Selenium	ND	10	2.4	mg/kg	EPA 6020	09/01/16 16:35	AP	
Silver	ND	10	0.30	mg/kg	EPA 6020	09/01/16 16:35	AP	
Thallium	0.35	50	0.19	mg/kg	EPA 6020	09/01/16 16:35	AP	J
Vanadium	41	10	0.76	mg/kg	EPA 6020	09/01/16 16:35	AP	
Zinc	47	10	1.7	mg/kg	EPA 6020	09/01/16 16:35	AP	
Volatile Organic Compounds by EPA 8260B								
1,1,1-Trichloroethane	ND	20	4.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1,1,2-Tetrachloroethane	ND	20	4.1	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1,2-Trichloroethane	ND	20	4.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1,2,2-Tetrachloroethane	ND	20	10	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1-Dichloroethane	ND	20	3.1	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1-Dichloroethene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,1-Dichloropropene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2,3-Trichlorobenzene	ND	20	12	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2,3-Trichloropropane	ND	40	12	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2,4-Trichlorobenzene	ND	20	12	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2,4-Trimethylbenzene	ND	20	5.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2-Dichlorobenzene	ND	20	8.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2-Dichloroethane	ND	20	6.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,2-Dichloropropane	ND	20	5.1	ug/kg	EPA 8260B	08/30/16 21:04	eec	

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 11 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Volatile Organic Compounds by EPA 8260B								
1,3,5-Trimethylbenzene	ND	20	4.7	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,3-Dichlorobenzene	ND	20	4.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,3-Dichloropropane	ND	20	5.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
1,4-Dichlorobenzene	ND	20	4.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
2,2-Dichloropropane	ND	40	5.0	ug/kg	EPA 8260B	08/30/16 21:04	eec	
2-Butanone(MEK)	ND	200	100	ug/kg	EPA 8260B	08/30/16 21:04	eec	
2-Chlorotoluene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
4-Chlorotoluene	ND	20	4.0	ug/kg	EPA 8260B	08/30/16 21:04	eec	
4-Methyl-2-Pentanone(MIBK)	ND	200	32	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Acetone	ND	400	200	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Acrylonitrile	ND	400	16	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Benzene	ND	20	5.5	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Bromobenzene	ND	20	4.9	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Bromochloromethane	ND	20	7.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Bromodichloromethane	ND	20	2.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Bromoform	ND	20	17	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Bromomethane	ND	100	50	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Carbon Tetrachloride	ND	20	3.7	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Chlorobenzene	ND	20	6.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Chloroethane	ND	20	5.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Chloroform	ND	20	2.9	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Chloromethane	ND	20	10	ug/kg	EPA 8260B	08/30/16 21:04	eec	
cis-1,2-Dichloroethene	ND	20	3.7	ug/kg	EPA 8260B	08/30/16 21:04	eec	
cis-1,3-Dichloropropene	ND	20	3.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Dibromochloromethane	ND	20	6.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Dibromochloropropane	ND	200	27	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Dibromomethane	ND	20	7.3	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Dichlorodifluoromethane	ND	20	14	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Ethylbenzene	ND	20	4.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Hexachlorobutadiene	ND	60	30	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Methyl tert Butyl Ether	ND	200	6.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Methylene Chloride	ND	120	60	ug/kg	EPA 8260B	08/30/16 21:04	eec	
n-Butylbenzene	ND	20	4.9	ug/kg	EPA 8260B	08/30/16 21:04	eec	

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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 12 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
n-Propylbenzene	ND	20	5.1	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Naphthalene	ND	20	15	ug/kg	EPA 8260B	08/30/16 21:04	eec	
sec-Butylbenzene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Styrene	ND	20	3.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
tert-Butylbenzene	ND	20	4.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Tetrachloroethene	ND	20	5.2	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Toluene	ND	20	7.7	ug/kg	EPA 8260B	08/30/16 21:04	eec	
trans-1,2-Dichloroethene	ND	20	5.3	ug/kg	EPA 8260B	08/30/16 21:04	eec	
trans-1,3-Dichloropropene	ND	20	3.0	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Trichloroethene	ND	20	5.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Trichlorofluoromethane	ND	200	5.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Vinyl Chloride	ND	20	8.3	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Xylenes (m+p)	ND	40	9.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Xylenes (ortho)	ND	20	4.7	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Xylenes (total)	ND	40	9.4	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Ethyl tert-butyl ether	ND	60	19	ug/kg	EPA 8260B	08/30/16 21:04	eec	
tert-Amyl Methyl Ether	ND	60	3.8	ug/kg	EPA 8260B	08/30/16 21:04	eec	
tert-Butyl alcohol	ND	200	170	ug/kg	EPA 8260B	08/30/16 21:04	eec	
Surrogate: 1,2-Dichloroethane-d4	95.1	%	75-120		EPA 8260B	08/30/16 21:04	eec	
Surrogate: Bromofluorobenzene	96.9	%	83-120		EPA 8260B	08/30/16 21:04	eec	
Surrogate: Toluene-d8	97.1	%	80-125		EPA 8260B	08/30/16 21:04	eec	
Semivolatile Organic Compounds by EPA 8270C								
1,2,4-Trichlorobenzene	ND	1.0	0.17	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
1,2-Dichlorobenzene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
1,2-Diphenylhydrazine	ND	1.0	0.057	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
1,3,5-Trinitrobenzene	ND	1.0	0.080	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
1,3-Dichlorobenzene	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
1,4-Dichlorobenzene	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,4,6-Trichlorophenol	ND	1.0	0.084	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,4-Dichlorophenol	ND	1.0	0.12	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,4-Dimethylphenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,4-Dinitrophenol	ND	5.0	2.5	mg/kg	EPA 8270C	09/07/16 21:31	JHR	

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Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 13 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 8270C								
2,4-Dinitrotoluene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,6-Dichlorophenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2,6-Dinitrotoluene	ND	1.0	0.072	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2-Chloronaphthalene	ND	1.0	0.12	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2-Chlorophenol	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2-Methyl-4,6-Dinitrophenol	ND	5.0	0.042	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2-Nitrophenol	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
2-Picoline	ND	1.0	0.50	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
3,3'-Dichlorobenzidine	ND	1.0	0.089	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4,4'-DDD	ND	1.0	0.035	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4,4'-DDE	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4,4'-DDT	ND	1.0	0.031	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4-Bromophenyl phenyl ether	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4-Chloro-3-methylphenol	ND	1.0	0.057	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4-Chlorophenyl phenyl ether	ND	1.0	0.070	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
4-Nitrophenol	ND	10	0.025	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
a-BHC	ND	1.0	0.044	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Acenaphthene	ND	1.0	0.087	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Acenaphthylene	ND	1.0	0.93	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aldrin	ND	1.0	0.062	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Anthracene	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1016 (screen)	ND	5.0	0.76	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1221 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1232 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1242 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1248 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1254 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Aroclor 1260 (screen)	ND	5.0	0.67	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
b-BHC	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Benzidine	ND	10	10	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Benzo(a)anthracene	ND	1.0	0.031	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Benzo(a)pyrene	ND	1.0	0.038	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Benzo(b)fluoranthene	ND	1.0	0.10	mg/kg	EPA 8270C	09/07/16 21:31	JHR	

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Analytical Report: Page 14 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 8270C								
Benzo(ghi)perylene	ND	1.0	0.038	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Benzo(k)fluoranthene	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Bis(2-chloroethoxy)methane	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Bis(2-Chloroethyl)ether	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Bis(2-chloroisopropyl)Ether	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Bis(2-ethylhexyl)phthalate	0.19	1.0	0.036	mg/kg	EPA 8270C	09/07/16 21:31	JHR	J
Butyl benzyl phthalate	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Chlordane (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Chrysene	ND	1.0	0.035	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
d-BHC	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Dibenzo(a,h)anthracene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Dieldrin	ND	1.0	0.051	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Diethyl phthalate	ND	1.0	0.054	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Dimethyl phthalate	ND	1.0	0.051	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Di-n-butylphthalate	0.095	1.0	0.059	mg/kg	EPA 8270C	09/07/16 21:31	JHR	J
Di-n-octylphthalate	0.084	1.0	0.059	mg/kg	EPA 8270C	09/07/16 21:31	JHR	J
Endosulfan I	ND	1.0	0.036	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Endosulfan II	ND	1.0	0.034	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Endosulfan Sulfate	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Endrin	ND	1.0	0.068	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Fluoranthene	ND	1.0	0.030	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Fluorene	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Heptachlor	ND	1.0	0.078	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Heptachlor Epoxide	ND	1.0	0.060	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Hexachlorobenzene	ND	1.0	0.063	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Hexachlorobutadiene	ND	1.0	0.18	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Hexachlorocyclopentadiene	ND	50	0.13	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Hexachloroethane	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Indeno(1,2,3-cd)pyrene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Isophorone	ND	1.0	0.11	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Naphthalene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Nitrobenzene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
N-Nitrosodi-n-propylamine	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 21:31	JHR	

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Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 15 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Semivolatile Organic Compounds by EPA 8270C								
N-Nitrosodimethylamine	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
N-Nitrosodiphenylamine	ND	1.0	0.061	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Pentachlorophenol	ND	10	0.038	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Phenanthrene	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Phenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Pyrene	ND	1.0	0.073	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Toxaphene (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
y-BHC	ND	1.0	0.30	mg/kg	EPA 8270C	09/07/16 21:31	JHR	
Surrogate: 2,4,6-Tribromophenol	79.5	%	32-146		EPA 8270C	09/07/16 21:31	JHR	
Surrogate: 2-Fluorobiphenyl	86.5	%	27-117		EPA 8270C	09/07/16 21:31	JHR	
Surrogate: 2-Fluorophenol	59.5	%	21-96		EPA 8270C	09/07/16 21:31	JHR	
Surrogate: 4-Terphenyl-d14	99.6	%	49-126		EPA 8270C	09/07/16 21:31	JHR	
Surrogate: Nitrobenzene-d5	71.0	%	36-110		EPA 8270C	09/07/16 21:31	JHR	
Surrogate: Phenol-d6	73.9	%	28-112		EPA 8270C	09/07/16 21:31	JHR	



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 16 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6010	Solid	08/23/16 15:30	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics								
Antimony	0.042	1.5	0.0037	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Arsenic	0.29	0.50	0.023	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Barium	1.7	10	0.0035	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J, PblkJ
Beryllium	ND	0.075	0.0052	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	
Cadmium	ND	0.10	0.0051	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	
Total Chromium	0.039	0.50	0.038	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Cobalt	0.061	8.0	0.0038	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Copper	0.099	2.5	0.0058	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Lead	0.037	0.50	0.0039	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Mercury	ND	0.010	0.0012	mg/L	EPA 7470A	09/08/16 16:16	ams	
Molybdenum	0.070	35	0.0034	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J, PblkJ
Nickel	0.066	2.0	0.0040	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J, PblkJ
Selenium	ND	0.10	0.027	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	
Silver	ND	0.50	0.0049	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	
Thallium	0.0066	0.70	0.0040	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Vanadium	0.16	2.4	0.081	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J
Zinc	0.61	25	0.030	mg/L	EPA 6020A/WET	09/08/16 15:19	mel	J



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 17 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids; EPA SW846 Series								
Antimony	ND	10	0.19	mg/kg	EPA 6020	09/06/16 16:17	mel	
Arsenic	17	10	0.74	mg/kg	EPA 6020	09/06/16 16:17	mel	
Barium	87	10	0.84	mg/kg	EPA 6020	09/06/16 16:17	mel	
Beryllium	ND	5.0	0.37	mg/kg	EPA 6020	09/06/16 16:17	mel	
Cadmium	ND	5.0	0.63	mg/kg	EPA 6020	09/06/16 16:17	mel	
Total Chromium	1.7	10	0.81	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Cobalt	2.7	10	0.19	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Copper	8.4	10	0.78	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Lead	2.7	10	0.29	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Mercury	ND	0.20	0.024	mg/kg	EPA 7471A	09/02/16 13:24	ams	
Molybdenum	3.3	10	0.46	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Nickel	2.1	10	0.48	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Selenium	ND	10	2.4	mg/kg	EPA 6020	09/06/16 16:17	mel	
Silver	ND	10	0.30	mg/kg	EPA 6020	09/06/16 16:17	mel	
Thallium	0.25	50	0.19	mg/kg	EPA 6020	09/06/16 16:17	mel	J
Vanadium	19	10	0.76	mg/kg	EPA 6020	09/06/16 16:17	mel	
Zinc	50	10	1.7	mg/kg	EPA 6020	09/06/16 16:17	mel	
Volatile Organic Compounds by EPA 8260B								
1,1,1-Trichloroethane	ND	20	4.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1,1,2-Tetrachloroethane	ND	20	4.1	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1,2-Trichloroethane	ND	20	4.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1,2,2-Tetrachloroethane	ND	20	10	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1-Dichloroethane	ND	20	3.1	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1-Dichloroethene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,1-Dichloropropene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2,3-Trichlorobenzene	ND	20	12	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2,3-Trichloropropane	ND	40	12	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2,4-Trichlorobenzene	ND	20	12	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2,4-Trimethylbenzene	ND	20	5.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2-Dichlorobenzene	ND	20	8.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2-Dichloroethane	ND	20	6.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,2-Dichloropropane	ND	20	5.1	ug/kg	EPA 8260B	08/30/16 21:34	eec	

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NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 18 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
1,3,5-Trimethylbenzene	ND	20	4.7	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,3-Dichlorobenzene	ND	20	4.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,3-Dichloropropane	ND	20	5.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
1,4-Dichlorobenzene	ND	20	4.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
2,2-Dichloropropane	ND	40	5.0	ug/kg	EPA 8260B	08/30/16 21:34	eec	
2-Butanone(MEK)	ND	200	100	ug/kg	EPA 8260B	08/30/16 21:34	eec	
2-Chlorotoluene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
4-Chlorotoluene	ND	20	4.0	ug/kg	EPA 8260B	08/30/16 21:34	eec	
4-Methyl-2-Pentanone(MIBK)	ND	200	32	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Acetone	ND	400	200	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Acrylonitrile	ND	400	16	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Benzene	ND	20	5.5	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Bromobenzene	ND	20	4.9	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Bromochloromethane	ND	20	7.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Bromodichloromethane	ND	20	2.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Bromoform	ND	20	17	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Bromomethane	ND	100	50	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Carbon Tetrachloride	ND	20	3.7	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Chlorobenzene	ND	20	6.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Chloroethane	ND	20	5.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Chloroform	ND	20	2.9	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Chloromethane	ND	20	10	ug/kg	EPA 8260B	08/30/16 21:34	eec	
cis-1,2-Dichloroethene	ND	20	3.7	ug/kg	EPA 8260B	08/30/16 21:34	eec	
cis-1,3-Dichloropropene	ND	20	3.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Dibromochloromethane	ND	20	6.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Dibromochloropropane	ND	200	27	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Dibromomethane	ND	20	7.3	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Dichlorodifluoromethane	ND	20	14	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Ethylbenzene	ND	20	4.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Hexachlorobutadiene	ND	60	30	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Methyl tert Butyl Ether	ND	200	6.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Methylene Chloride	ND	120	60	ug/kg	EPA 8260B	08/30/16 21:34	eec	
n-Butylbenzene	ND	20	4.9	ug/kg	EPA 8260B	08/30/16 21:34	eec	

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 19 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
n-Propylbenzene	ND	20	5.1	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Naphthalene	ND	20	15	ug/kg	EPA 8260B	08/30/16 21:34	eec	
sec-Butylbenzene	ND	20	4.6	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Styrene	ND	20	3.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
tert-Butylbenzene	ND	20	4.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Tetrachloroethene	ND	20	5.2	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Toluene	ND	20	7.7	ug/kg	EPA 8260B	08/30/16 21:34	eec	
trans-1,2-Dichloroethene	ND	20	5.3	ug/kg	EPA 8260B	08/30/16 21:34	eec	
trans-1,3-Dichloropropene	ND	20	3.0	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Trichloroethene	ND	20	5.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Trichlorofluoromethane	ND	200	5.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Vinyl Chloride	ND	20	8.3	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Xylenes (m+p)	ND	40	9.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Xylenes (ortho)	ND	20	4.7	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Xylenes (total)	ND	40	9.4	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Ethyl tert-butyl ether	ND	60	19	ug/kg	EPA 8260B	08/30/16 21:34	eec	
tert-Amyl Methyl Ether	ND	60	3.8	ug/kg	EPA 8260B	08/30/16 21:34	eec	
tert-Butyl alcohol	ND	200	170	ug/kg	EPA 8260B	08/30/16 21:34	eec	
Surrogate: 1,2-Dichloroethane-d4	95.7	%	75-120		EPA 8260B	08/30/16 21:34	eec	
Surrogate: Bromofluorobenzene	97.9	%	83-120		EPA 8260B	08/30/16 21:34	eec	
Surrogate: Toluene-d8	96.6	%	80-125		EPA 8260B	08/30/16 21:34	eec	
Semivolatile Organic Compounds by EPA 8270C								
1,2,4-Trichlorobenzene	ND	1.0	0.17	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
1,2-Dichlorobenzene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
1,2-Diphenylhydrazine	ND	1.0	0.057	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
1,3,5-Trinitrobenzene	ND	1.0	0.080	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
1,3-Dichlorobenzene	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
1,4-Dichlorobenzene	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,4,6-Trichlorophenol	ND	1.0	0.084	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,4-Dichlorophenol	ND	1.0	0.12	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,4-Dimethylphenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,4-Dinitrophenol	ND	5.0	2.5	mg/kg	EPA 8270C	09/07/16 22:02	JHR	

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 20 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatile Organic Compounds by EPA 8270C								
2,4-Dinitrotoluene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,6-Dichlorophenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2,6-Dinitrotoluene	ND	1.0	0.072	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2-Chloronaphthalene	ND	1.0	0.12	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2-Chlorophenol	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2-Methyl-4,6-Dinitrophenol	ND	5.0	0.042	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2-Nitrophenol	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
2-Picoline	ND	1.0	0.50	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
3,3'-Dichlorobenzidine	ND	1.0	0.089	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4,4'-DDD	ND	1.0	0.035	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4,4'-DDE	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4,4'-DDT	ND	1.0	0.031	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4-Bromophenyl phenyl ether	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4-Chloro-3-methylphenol	ND	1.0	0.057	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4-Chlorophenyl phenyl ether	ND	1.0	0.070	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
4-Nitrophenol	ND	10	0.025	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
a-BHC	ND	1.0	0.044	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Acenaphthene	ND	1.0	0.087	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Acenaphthylene	ND	1.0	0.93	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aldrin	ND	1.0	0.062	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Anthracene	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1016 (screen)	ND	5.0	0.76	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1221 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1232 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1242 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1248 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1254 (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Aroclor 1260 (screen)	ND	5.0	0.67	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
b-BHC	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Benzidine	ND	10	10	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Benzo(a)anthracene	ND	1.0	0.031	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Benzo(a)pyrene	ND	1.0	0.038	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Benzo(b)fluoranthene	ND	1.0	0.10	mg/kg	EPA 8270C	09/07/16 22:02	JHR	

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Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 21 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Semivolatle Organic Compounds by EPA 8270C								
Benzo(ghi)perylene	ND	1.0	0.038	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Benzo(k)fluoranthene	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Bis(2-chloroethoxy)methane	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Bis(2-Chloroethyl)ether	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Bis(2-chloroisopropyl)Ether	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Bis(2-ethylhexyl)phthalate	0.26	1.0	0.036	mg/kg	EPA 8270C	09/07/16 22:02	JHR	J
Butyl benzyl phthalate	ND	1.0	0.043	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Chlordane (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Chrysene	ND	1.0	0.035	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
d-BHC	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Dibenzo(a,h)anthracene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Dieldrin	ND	1.0	0.051	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Diethyl phthalate	ND	1.0	0.054	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Dimethyl phthalate	ND	1.0	0.051	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Di-n-butylphthalate	0.077	1.0	0.059	mg/kg	EPA 8270C	09/07/16 22:02	JHR	J
Di-n-octylphthalate	ND	1.0	0.059	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Endosulfan I	ND	1.0	0.036	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Endosulfan II	ND	1.0	0.034	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Endosulfan Sulfate	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Endrin	ND	1.0	0.068	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Fluoranthene	ND	1.0	0.030	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Fluorene	ND	1.0	0.065	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Heptachlor	ND	1.0	0.078	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Heptachlor Epoxide	ND	1.0	0.060	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Hexachlorobenzene	ND	1.0	0.063	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Hexachlorobutadiene	ND	1.0	0.18	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Hexachlorocyclopentadiene	ND	50	0.13	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Hexachloroethane	ND	1.0	0.16	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Indeno(1,2,3-cd)pyrene	ND	1.0	0.039	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Isophorone	ND	1.0	0.11	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Naphthalene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Nitrobenzene	ND	1.0	0.14	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
N-Nitrosodi-n-propylamine	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 22:02	JHR	

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LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 22 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Semivolatile Organic Compounds by EPA 8270C								
N-Nitrosodimethylamine	ND	1.0	0.15	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
N-Nitrosodiphenylamine	ND	1.0	0.061	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Pentachlorophenol	ND	10	0.038	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Phenanthrene	ND	1.0	0.042	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Phenol	ND	1.0	0.13	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Pyrene	ND	1.0	0.073	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Toxaphene (screen)	ND	5.0	5.0	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
y-BHC	ND	1.0	0.30	mg/kg	EPA 8270C	09/07/16 22:02	JHR	
Surrogate: 2,4,6-Tribromophenol	83.9	% 32-146			EPA 8270C	09/07/16 22:02	JHR	
Surrogate: 2-Fluorobiphenyl	86.2	% 27-117			EPA 8270C	09/07/16 22:02	JHR	
Surrogate: 2-Fluorophenol	60.6	% 21-96			EPA 8270C	09/07/16 22:02	JHR	
Surrogate: 4-Terphenyl-d14	103	% 49-126			EPA 8270C	09/07/16 22:02	JHR	
Surrogate: Nitrobenzene-d5	75.8	% 36-110			EPA 8270C	09/07/16 22:02	JHR	
Surrogate: Phenol-d6	73.8	% 28-112			EPA 8270C	09/07/16 22:02	JHR	



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Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 23 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Laboratory Reference Number

B6H3003-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
617RB6011	Solid	08/23/16 15:45	08/30/16 10:03

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics								
Antimony	0.010	1.5	0.0037	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J
Arsenic	0.79	0.50	0.023	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Barium	0.90	10	0.0035	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J, PblkJ
Beryllium	ND	0.075	0.0052	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Cadmium	ND	0.10	0.0051	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Total Chromium	ND	0.50	0.038	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Cobalt	0.023	8.0	0.0038	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J
Copper	0.044	2.5	0.0058	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J
Lead	ND	0.50	0.0039	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Mercury	ND	0.010	0.0012	mg/L	EPA 7470A	09/08/16 15:36	ams	
Molybdenum	0.18	35	0.0034	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J, PblkJ
Nickel	0.022	2.0	0.0040	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J, PblkJ
Selenium	ND	0.10	0.027	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Silver	ND	0.50	0.0049	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Thallium	ND	0.70	0.0040	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	
Vanadium	0.24	2.4	0.081	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J
Zinc	0.11	25	0.030	mg/L	EPA 6020A/WET	09/08/16 15:21	mel	J



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

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Analytical Report: Page 24 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I07072 - EPA 200.2 SOP M02C										
Blank (6I07072-BLK1)					Prepared & Analyzed: 09/07/16					
Antimony	ND	10	0.40	ug/L						
Arsenic	ND	5.0	1.2	ug/L						
Barium	ND	20	0.18	ug/L						
Beryllium	ND	10	0.26	ug/L						
Cadmium	ND	2.0	0.26	ug/L						
Total Chromium	ND	20	1.9	ug/L						
Cobalt	ND	10	0.19	ug/L						
Copper	ND	10	0.64	ug/L						
Lead	ND	10	0.19	ug/L						
Molybdenum	ND	10	0.17	ug/L						
Nickel	0.233	20	0.20	ug/L						J
Selenium	ND	5.0	1.4	ug/L						
Silver	ND	10	0.22	ug/L						
Vanadium	ND	10	4.1	ug/L						
Zinc	ND	10	1.5	ug/L						
LCS (6I07072-BS1)					Prepared & Analyzed: 09/07/16					
Antimony	349	10	0.40	ug/L	334	105	85-115			
Arsenic	338	5.0	1.2	ug/L	334	101	85-115			
Barium	323	20	0.18	ug/L	334	96.8	85-115			
Beryllium	353	10	0.26	ug/L	334	106	85-115			
Cadmium	334	2.0	0.26	ug/L	334	100	85-115			
Total Chromium	337	20	1.9	ug/L	334	101	85-115			
Cobalt	331	10	0.19	ug/L	334	99.2	85-115			
Copper	306	10	0.64	ug/L	334	91.8	85-115			
Lead	303	10	0.19	ug/L	334	90.7	85-115			
Molybdenum	361	10	0.17	ug/L	334	108	85-115			
Nickel	328	20	0.20	ug/L	334	98.5	85-115			
Selenium	299	5.0	1.4	ug/L	334	89.7	85-115			
Silver	332	10	0.22	ug/L	334	99.7	85-115			
Vanadium	346	10	4.1	ug/L	334	104	85-115			
Zinc	310	10	1.5	ug/L	334	93.0	85-115			

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EPA No. CA00102
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LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 25 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I07072 - EPA 200.2 SOP M02C										
LCS Dup (6I07072-BSD1)				Prepared & Analyzed: 09/07/16						
Antimony	361	10	0.40 ug/L	334	108	85-115	3.33	20		
Arsenic	346	5.0	1.2 ug/L	334	104	85-115	2.23	20		
Barium	343	20	0.18 ug/L	334	103	85-115	6.17	20		
Beryllium	362	10	0.26 ug/L	334	109	85-115	2.52	20		
Cadmium	344	2.0	0.26 ug/L	334	103	85-115	2.90	20		
Total Chromium	342	20	1.9 ug/L	334	102	85-115	1.35	20		
Cobalt	337	10	0.19 ug/L	334	101	85-115	1.84	20		
Copper	314	10	0.64 ug/L	334	94.1	85-115	2.47	20		
Lead	317	10	0.19 ug/L	334	95.0	85-115	4.63	20		
Molybdenum	375	10	0.17 ug/L	334	112	85-115	3.68	20		
Nickel	337	20	0.20 ug/L	334	101	85-115	2.53	20		
Selenium	301	5.0	1.4 ug/L	334	90.4	85-115	0.796	20		
Silver	327	10	0.22 ug/L	334	98.0	85-115	1.71	20		
Vanadium	354	10	4.1 ug/L	334	106	85-115	2.26	20		
Zinc	316	10	1.5 ug/L	334	94.9	85-115	1.96	20		
Matrix Spike (6I07072-MS1)		Source: B6H3088-01			Prepared & Analyzed: 09/07/16					
Antimony	344	10	0.40 ug/L	334	0.411	103	70-130			
Arsenic	337	5.0	1.2 ug/L	334	3.08	100	70-130			
Barium	327	20	0.18 ug/L	334	1.56	97.7	70-130			
Beryllium	326	10	0.26 ug/L	334	ND	97.7	70-130			
Cadmium	324	2.0	0.26 ug/L	334	ND	97.1	70-130			
Total Chromium	314	20	1.9 ug/L	334	ND	94.3	70-130			
Cobalt	311	10	0.19 ug/L	334	ND	93.4	70-130			
Copper	395	10	0.64 ug/L	334	86.7	92.6	70-130			
Lead	325	10	0.19 ug/L	334	31.9	87.9	70-130			
Molybdenum	336	10	0.17 ug/L	334	4.99	99.4	70-130			
Nickel	310	20	0.20 ug/L	334	0.650	92.8	70-130			
Selenium	323	5.0	1.4 ug/L	334	ND	97.0	70-130			
Silver	308	10	0.22 ug/L	334	ND	92.3	70-130			
Vanadium	331	10	4.1 ug/L	334	4.87	97.8	70-130			
Zinc	379	10	1.5 ug/L	334	54.7	97.3	70-130			



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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 26 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch 6I07072 - EPA 200.2 SOP M02C

Matrix Spike (6I07072-MS2)

Source: B6I0192-01

Prepared & Analyzed: 09/07/16

Antimony	380	10	0.40	ug/L	334	ND	114	70-130		
Arsenic	373	5.0	1.2	ug/L	334	1.72	111	70-130		
Barium	416	20	0.18	ug/L	334	56.0	108	70-130		
Beryllium	344	10	0.26	ug/L	334	ND	103	70-130		
Cadmium	344	2.0	0.26	ug/L	334	ND	103	70-130		
Total Chromium	347	20	1.9	ug/L	334	ND	104	70-130		
Cobalt	349	10	0.19	ug/L	334	1.20	104	70-130		
Copper	336	10	0.64	ug/L	334	10.5	97.6	70-130		
Lead	316	10	0.19	ug/L	334	0.224	94.8	70-130		
Molybdenum	391	10	0.17	ug/L	334	1.95	117	70-130		QOcal
Nickel	347	20	0.20	ug/L	334	11.4	101	70-130		
Selenium	108	5.0	1.4	ug/L	334	ND	32.5	70-130		QFnt, QMout
Silver	325	10	0.22	ug/L	334	ND	97.6	70-130		
Vanadium	370	10	4.1	ug/L	334	ND	111	70-130		
Zinc	375	10	1.5	ug/L	334	34.6	102	70-130		

Batch 6I07133 - 200.8/ No Digest M12

Blank (6I07133-BLK1)

Prepared & Analyzed: 09/07/16

Antimony	ND	10	0.40	ug/L						QBfil
Arsenic	ND	5.0	1.2	ug/L						QBfil
Barium	ND	20	0.18	ug/L						QBfil
Beryllium	ND	10	0.26	ug/L						QBfil
Cadmium	ND	2.0	0.26	ug/L						QBfil
Total Chromium	ND	20	1.9	ug/L						QBfil
Cobalt	ND	10	0.19	ug/L						QBfil
Copper	ND	10	0.64	ug/L						QBfil
Lead	ND	10	0.19	ug/L						QBfil
Molybdenum	ND	10	0.17	ug/L						QBfil
Nickel	ND	20	0.20	ug/L						QBfil
Selenium	ND	5.0	1.4	ug/L						QBfil
Silver	ND	10	0.22	ug/L						QBfil
Thallium	ND	200	0.20	ug/L						QBfil
Vanadium	ND	10	4.1	ug/L						QBfil
Zinc	ND	10	1.5	ug/L						QBfil

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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 27 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I07133 - 200.8/ No Digest M12										
LCS (6I07133-BS1)					Prepared & Analyzed: 09/07/16					
Antimony	51.0	10	0.40	ug/L	50.0	102	85-115			
Arsenic	51.2	5.0	1.2	ug/L	50.0	102	85-115			
Barium	55.7	20	0.18	ug/L	50.0	111	85-115			
Beryllium	50.1	10	0.26	ug/L	50.0	100	85-115			
Cadmium	49.4	2.0	0.26	ug/L	50.0	98.8	85-115			
Total Chromium	48.5	20	1.9	ug/L	50.0	97.0	85-115			
Cobalt	47.9	10	0.19	ug/L	50.0	95.8	85-115			
Copper	47.2	10	0.64	ug/L	50.0	94.4	85-115			
Lead	48.7	10	0.19	ug/L	50.0	97.4	85-115			
Molybdenum	49.0	10	0.17	ug/L	50.0	98.1	85-115			
Nickel	47.8	20	0.20	ug/L	50.0	95.7	85-115			
Selenium	51.6	5.0	1.4	ug/L	50.0	103	85-115			
Silver	48.1	10	0.22	ug/L	50.0	96.1	85-115			
Thallium	46.5	200	0.20	ug/L	50.0	92.9	85-115			J
Vanadium	49.9	10	4.1	ug/L	50.0	99.8	85-115			
Zinc	49.7	10	1.5	ug/L	50.0	99.4	85-115			
LCS Dup (6I07133-BSD1)					Prepared & Analyzed: 09/07/16					
Antimony	54.4	10	0.40	ug/L	50.0	109	85-115	6.38	20	
Arsenic	54.2	5.0	1.2	ug/L	50.0	108	85-115	5.73	20	
Barium	59.1	20	0.18	ug/L	50.0	118	85-115	5.97	20	QMSD
Beryllium	52.6	10	0.26	ug/L	50.0	105	85-115	4.89	20	
Cadmium	51.7	2.0	0.26	ug/L	50.0	103	85-115	4.63	20	
Total Chromium	51.8	20	1.9	ug/L	50.0	104	85-115	6.64	20	
Cobalt	51.1	10	0.19	ug/L	50.0	102	85-115	6.34	20	
Copper	50.7	10	0.64	ug/L	50.0	101	85-115	7.18	20	
Lead	52.3	10	0.19	ug/L	50.0	105	85-115	7.12	20	
Molybdenum	52.5	10	0.17	ug/L	50.0	105	85-115	6.81	20	
Nickel	51.1	20	0.20	ug/L	50.0	102	85-115	6.53	20	
Selenium	56.7	5.0	1.4	ug/L	50.0	113	85-115	9.40	20	
Silver	50.9	10	0.22	ug/L	50.0	102	85-115	5.83	20	
Thallium	49.9	200	0.20	ug/L	50.0	99.8	85-115	7.14	20	J
Vanadium	53.1	10	4.1	ug/L	50.0	106	85-115	6.24	20	
Zinc	53.0	10	1.5	ug/L	50.0	106	85-115	6.45	20	



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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 28 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch 6I07133 - 200.8/ No Digest M12

Matrix Spike (6I07133-MS1)

Source: B6H3003-04

Prepared & Analyzed: 09/07/16

Antimony	96.4	10	0.40	ug/L	50.0	44.6	104	70-130		
Arsenic	108	5.0	1.2	ug/L	50.0	60.5	95.4	70-130		
Barium	84.7	20	0.18	ug/L	50.0	25.9	118	70-130		
Beryllium	55.1	10	0.26	ug/L	50.0	ND	110	70-130		
Cadmium	54.0	2.0	0.26	ug/L	50.0	ND	108	70-130		
Total Chromium	55.1	20	1.9	ug/L	50.0	ND	110	70-130		
Cobalt	53.2	10	0.19	ug/L	50.0	ND	106	70-130		
Copper	55.9	10	0.64	ug/L	50.0	4.19	103	70-130		
Lead	53.5	10	0.19	ug/L	50.0	ND	107	70-130		
Molybdenum	124	10	0.17	ug/L	50.0	78.8	91.1	70-130		
Nickel	54.0	20	0.20	ug/L	50.0	1.32	105	70-130		
Selenium	54.6	5.0	1.4	ug/L	50.0	ND	109	70-130		
Silver	51.1	10	0.22	ug/L	50.0	ND	102	70-130		
Thallium	50.8	200	0.20	ug/L	50.0	ND	102	70-130		J
Vanadium	123	10	4.1	ug/L	50.0	72.6	101	70-130		
Zinc	54.2	10	1.5	ug/L	50.0	ND	108	70-130		

Batch 6I08066 - EPA 200.2 SOP M02C

Blank (6I08066-BLK1)

Prepared: 09/07/16 Analyzed: 09/08/16

Molybdenum	0.217	10	0.17	ug/L						J
Thallium	ND	200	0.20	ug/L						

LCS (6I08066-BS1)

Prepared: 09/07/16 Analyzed: 09/08/16

Molybdenum	331	10	0.17	ug/L	334		99.1	85-115		
Thallium	296	200	0.20	ug/L	334		88.9	85-115		

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EPA No. CA00102
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LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 29 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I08066 - EPA 200.2 SOP M02C										
LCS Dup (6I08066-BSD1)					Prepared: 09/07/16 Analyzed: 09/08/16					
Molybdenum	336	10	0.17	ug/L	334	101	85-115	1.75	20	
Thallium	303	200	0.20	ug/L	334	90.8	85-115	2.18	20	
Matrix Spike (6I08066-MS1)					Source: B6H3088-01RE1 Prepared: 09/07/16 Analyzed: 09/08/16					
Molybdenum	336	10	0.17	ug/L	334	5.24	99.0	70-130		
Thallium	287	200	0.20	ug/L	334	ND	86.1	70-130		
Batch 6I08075 - EPA 7470A/SM 3112B										
Blank (6I08075-BLK1)					Prepared & Analyzed: 09/08/16					
Mercury	ND	0.20	0.050	ug/L						
Blank (6I08075-BLK2)					Prepared & Analyzed: 09/08/16					
Mercury	ND	0.20	0.050	ug/L						QBfil
LCS (6I08075-BS1)					Prepared & Analyzed: 09/08/16					
Mercury	6.52	0.20	0.050	ug/L	6.68	97.7	85-115			
Matrix Spike (6I08075-MS1)					Source: B6H3003-01 Prepared & Analyzed: 09/08/16					
Mercury	6.88	0.20	0.050	ug/L	6.68	ND	103	70-130		
Matrix Spike Dup (6I08075-MSD1)					Source: B6H3003-01 Prepared & Analyzed: 09/08/16					
Mercury	6.84	0.20	0.050	ug/L	6.68	ND	102	70-130	0.708	20
Batch 6I09025 - 200.8/ No Digest M12										
Blank (6I09025-BLK1)					Prepared & Analyzed: 09/09/16					
Molybdenum	ND	10	0.17	ug/L						QBfil



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Analytical Report: Page 30 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I09025 - 200.8/ No Digest M12										
LCS (6I09025-BS1)					Prepared & Analyzed: 09/09/16					
Molybdenum	49.2	10	0.17	ug/L	50.0	98.3	85-115			
LCS Dup (6I09025-BSD1)					Prepared & Analyzed: 09/09/16					
Molybdenum	50.8	10	0.17	ug/L	50.0	102	85-115	3.35	20	
Matrix Spike (6I09025-MS1)					Source: B6H3003-04RE1 Prepared & Analyzed: 09/09/16					
Molybdenum	380	50	0.84	ug/L	250	127	101	70-130		



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Analytical Report: Page 31 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01060 - EPA 200.2 SOP M02C										
Blank (6I01060-BLK1)				Prepared & Analyzed: 09/01/16						
Antimony	ND	10	0.19	mg/kg						
Arsenic	ND	10	0.74	mg/kg						
Barium	ND	10	0.84	mg/kg						
Beryllium	ND	5.0	0.37	mg/kg						
Cadmium	ND	5.0	0.63	mg/kg						
Total Chromium	ND	10	0.81	mg/kg						
Cobalt	ND	10	0.19	mg/kg						
Copper	ND	10	0.78	mg/kg						
Lead	ND	10	0.29	mg/kg						
Molybdenum	ND	10	0.46	mg/kg						
Nickel	ND	10	0.48	mg/kg						
Selenium	ND	10	2.4	mg/kg						
Silver	ND	10	0.30	mg/kg						
Thallium	ND	50	0.19	mg/kg						
Vanadium	ND	10	0.76	mg/kg						
Zinc	ND	10	1.7	mg/kg						
LCS (6I01060-BS1)				Prepared & Analyzed: 09/01/16						
Antimony	231	10	0.19	mg/kg	200	115	79-132			
Arsenic	233	10	0.74	mg/kg	200	117	80-120			
Barium	209	10	0.84	mg/kg	200	104	80-120			
Beryllium	219	5.0	0.37	mg/kg	200	110	79-124			
Cadmium	230	5.0	0.63	mg/kg	200	115	80-122			
Total Chromium	212	10	0.81	mg/kg	200	106	81-118			
Cobalt	212	10	0.19	mg/kg	200	106	80-124			
Copper	216	10	0.78	mg/kg	200	108	80-117			
Lead	200	10	0.29	mg/kg	200	100	82-124			
Molybdenum	222	10	0.46	mg/kg	200	111	82-130			
Nickel	216	10	0.48	mg/kg	200	108	81-117			
Selenium	232	10	2.4	mg/kg	200	116	74-122			
Silver	190	10	0.30	mg/kg	200	95.0	20-164			
Thallium	191	50	0.19	mg/kg	200	95.3	75-118			
Vanadium	212	10	0.76	mg/kg	200	106	82-122			
Zinc	233	10	1.7	mg/kg	200	116	75-124			



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Analytical Report: Page 32 of 57
 Project Name: CRWQCB -IFB #15-025-160
 Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01060 - EPA 200.2 SOP M02C										
Matrix Spike (6I01060-MS1)		Source: B6H3003-07			Prepared & Analyzed: 09/01/16					
Antimony	0.215	10	0.19	mg/kg	200	ND	NR	10-156		QFspk, J
Arsenic	19.3	10	0.74	mg/kg	200	19.3	NR	73-122		QFspk
Barium	85.0	10	0.84	mg/kg	200	81.1	1.96	61-132		QFspk
Beryllium	ND	5.0	0.37	mg/kg	200	ND	NR	68-128		QFspk
Cadmium	ND	5.0	0.63	mg/kg	200	ND	NR	72-121		QFspk
Total Chromium	1.72	10	0.81	mg/kg	200	1.53	NR	60-129		QFspk, J
Cobalt	2.48	10	0.19	mg/kg	200	2.37	NR	64-128		QFspk, J
Copper	9.33	10	0.78	mg/kg	200	8.93	NR	36-141		QFspk, J
Lead	2.44	10	0.29	mg/kg	200	2.39	NR	60-126		QFspk, J
Molybdenum	3.76	10	0.46	mg/kg	200	3.52	NR	60-140		QFspk, J
Nickel	2.03	10	0.48	mg/kg	200	1.98	NR	60-135		QFspk, J
Selenium	ND	10	2.4	mg/kg	200	ND	NR	65-123		QFspk
Silver	ND	10	0.30	mg/kg	200	ND	NR	10-155		QFspk
Thallium	ND	50	0.19	mg/kg	200	ND	NR	57-122		QFspk
Vanadium	18.4	10	0.76	mg/kg	200	18.1	NR	66-136		QFspk
Zinc	60.3	10	1.7	mg/kg	200	67.4	NR	26-166		QFspk
Matrix Spike Dup (6I01060-MSD1)		Source: B6H3003-07			Prepared & Analyzed: 09/01/16					
Antimony	ND	10	0.19	mg/kg	200	ND	NR	10-156	20	QFspk
Arsenic	18.6	10	0.74	mg/kg	200	19.3	NR	73-122	3.71	20
Barium	84.6	10	0.84	mg/kg	200	81.1	1.77	61-132	0.460	20
Beryllium	ND	5.0	0.37	mg/kg	200	ND	NR	68-128		20
Cadmium	ND	5.0	0.63	mg/kg	200	ND	NR	72-121		20
Total Chromium	1.65	10	0.81	mg/kg	200	1.53	NR	60-129	4.19	20
Cobalt	2.47	10	0.19	mg/kg	200	2.37	NR	64-128	0.685	20
Copper	9.61	10	0.78	mg/kg	200	8.93	NR	36-141	3.04	20
Lead	2.62	10	0.29	mg/kg	200	2.39	NR	60-126	7.31	20
Molybdenum	3.66	10	0.46	mg/kg	200	3.52	NR	60-140	2.82	20
Nickel	2.09	10	0.48	mg/kg	200	1.98	NR	60-135	3.11	20
Selenium	ND	10	2.4	mg/kg	200	ND	NR	65-123		20
Silver	ND	10	0.30	mg/kg	200	ND	NR	10-155		20
Thallium	ND	50	0.19	mg/kg	200	ND	NR	57-122		20
Vanadium	18.2	10	0.76	mg/kg	200	18.1	NR	66-136	1.16	20
Zinc	61.9	10	1.7	mg/kg	200	67.4	NR	26-166	2.67	20



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Analytical Report: Page 33 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01060 - EPA 200.2 SOP M02C										
Reference (6I01060-SRM1)				Prepared & Analyzed: 09/01/16						
Silver	28.0	10	0.30	mg/kg	29.8	94.1	91.6-108.4			
Batch 6I02010 - EPA 7471A										
Blank (6I02010-BLK1)				Prepared & Analyzed: 09/02/16						
Mercury	ND	0.20	0.024	mg/kg						
LCS (6I02010-BS1)				Prepared & Analyzed: 09/02/16						
Mercury	0.324	0.20	0.024	mg/kg	0.334	97.1	78-120			
Matrix Spike (6I02010-MS1)				Source: B6H3003-07		Prepared & Analyzed: 09/02/16				
Mercury	0.346	0.20	0.024	mg/kg	0.334	ND	103	31-144		
Matrix Spike Dup (6I02010-MSD1)				Source: B6H3003-07		Prepared & Analyzed: 09/02/16				
Mercury	0.345	0.20	0.024	mg/kg	0.334	ND	103	31-144	0.0409	25
Reference (6I02010-SRM1)				Prepared & Analyzed: 09/02/16						
Mercury	5.43	4.0	0.49	mg/kg	5.00	109	90-110			
Batch 6I06077 - EPA 200.2 SOP M02C										
Blank (6I06077-BLK1)				Prepared & Analyzed: 09/06/16						
Antimony	ND	10	0.19	mg/kg						
Arsenic	ND	10	0.74	mg/kg						
Barium	ND	10	0.84	mg/kg						
Beryllium	ND	5.0	0.37	mg/kg						
Cadmium	ND	5.0	0.63	mg/kg						
Total Chromium	ND	10	0.81	mg/kg						
Cobalt	ND	10	0.19	mg/kg						
Copper	ND	10	0.78	mg/kg						
Lead	ND	10	0.29	mg/kg						
Molybdenum	ND	10	0.46	mg/kg						
Nickel	ND	10	0.48	mg/kg						
Selenium	ND	10	2.4	mg/kg						
Silver	ND	10	0.30	mg/kg						
Thallium	ND	50	0.19	mg/kg						
Vanadium	ND	10	0.76	mg/kg						
Zinc	ND	10	1.7	mg/kg						



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Analytical Report: Page 34 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06077 - EPA 200.2 SOP M02C										
LCS (6I06077-BS1)					Prepared & Analyzed: 09/06/16					
Antimony	208	10	0.19	mg/kg	200	104	79-132			
Arsenic	200	10	0.74	mg/kg	200	100	80-120			
Barium	210	10	0.84	mg/kg	200	105	80-120			
Beryllium	193	5.0	0.37	mg/kg	200	96.4	79-124			
Cadmium	205	5.0	0.63	mg/kg	200	103	80-122			
Total Chromium	205	10	0.81	mg/kg	200	102	81-118			
Cobalt	201	10	0.19	mg/kg	200	101	80-124			
Copper	190	10	0.78	mg/kg	200	95.2	80-117			
Lead	189	10	0.29	mg/kg	200	94.7	82-124			
Molybdenum	211	10	0.46	mg/kg	200	105	82-130			
Nickel	204	10	0.48	mg/kg	200	102	81-117			
Selenium	187	10	2.4	mg/kg	200	93.5	74-122			
Silver	183	10	0.30	mg/kg	200	91.4	20-164			
Thallium	180	50	0.19	mg/kg	200	90.2	75-118			
Vanadium	207	10	0.76	mg/kg	200	104	82-122			
Zinc	175	10	1.7	mg/kg	200	87.7	75-124			
Matrix Spike (6I06077-MS1)					Source: B6H3003-07RE1 Prepared & Analyzed: 09/06/16					
Antimony	117	10	0.19	mg/kg	200	ND	58.3	10-156		
Arsenic	227	10	0.74	mg/kg	200	16.9	105	73-122		
Barium	323	10	0.84	mg/kg	200	87.0	118	61-132		
Beryllium	188	5.0	0.37	mg/kg	200	ND	93.9	68-128		
Cadmium	208	5.0	0.63	mg/kg	200	ND	104	72-121		
Total Chromium	216	10	0.81	mg/kg	200	1.75	107	60-129		
Cobalt	212	10	0.19	mg/kg	200	2.70	105	64-128		
Copper	192	10	0.78	mg/kg	200	8.42	91.6	36-141		
Lead	189	10	0.29	mg/kg	200	2.69	93.2	60-126		
Molybdenum	231	10	0.46	mg/kg	200	3.33	114	60-140		
Nickel	209	10	0.48	mg/kg	200	2.10	103	60-135		
Selenium	194	10	2.4	mg/kg	200	ND	96.9	65-123		
Silver	171	10	0.30	mg/kg	200	ND	85.5	10-155		
Thallium	188	50	0.19	mg/kg	200	0.252	93.9	57-122		
Vanadium	245	10	0.76	mg/kg	200	18.7	113	66-136		
Zinc	223	10	1.7	mg/kg	200	49.7	86.9	26-166		



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Analytical Report: Page 35 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag		
Batch 6I06077 - EPA 200.2 SOP M02C												
Matrix Spike Dup (6I06077-MSD1)			Source: B6H3003-07RE1								Prepared & Analyzed: 09/06/16	
Antimony	91.8	10	0.19	mg/kg	200	ND	45.9	10-156	23.8	20	QRPDa	
Arsenic	220	10	0.74	mg/kg	200	16.9	101	73-122	3.37	20		
Barium	318	10	0.84	mg/kg	200	87.0	115	61-132	1.66	20		
Beryllium	176	5.0	0.37	mg/kg	200	ND	88.2	68-128	6.30	20		
Cadmium	201	5.0	0.63	mg/kg	200	ND	101	72-121	3.39	20		
Total Chromium	210	10	0.81	mg/kg	200	1.75	104	60-129	2.94	20		
Cobalt	203	10	0.19	mg/kg	200	2.70	99.9	64-128	4.73	20		
Copper	183	10	0.78	mg/kg	200	8.42	87.3	36-141	4.57	20		
Lead	179	10	0.29	mg/kg	200	2.69	88.3	60-126	5.30	20		
Molybdenum	222	10	0.46	mg/kg	200	3.33	109	60-140	3.85	20		
Nickel	198	10	0.48	mg/kg	200	2.10	97.8	60-135	5.33	20		
Selenium	194	10	2.4	mg/kg	200	ND	96.9	65-123	0.0244	20		
Silver	165	10	0.30	mg/kg	200	ND	82.4	10-155	3.62	20		
Thallium	177	50	0.19	mg/kg	200	0.252	88.6	57-122	5.80	20		
Vanadium	237	10	0.76	mg/kg	200	18.7	109	66-136	3.45	20		
Zinc	220	10	1.7	mg/kg	200	49.7	85.1	26-166	1.60	20		



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Analytical Report: Page 36 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06088 - EPA 200.2 WET E02										
Blank (6I06088-BLK1)				Prepared & Analyzed: 09/08/16						
Antimony	ND	1.5	0.0037	mg/L						
Arsenic	ND	0.50	0.023	mg/L						
Barium	0.0128	10	0.0035	mg/L						J
Beryllium	ND	0.075	0.0052	mg/L						
Cadmium	ND	0.10	0.0051	mg/L						
Total Chromium	ND	0.50	0.038	mg/L						
Cobalt	ND	8.0	0.0038	mg/L						
Copper	ND	2.5	0.0058	mg/L						
Lead	ND	0.50	0.0039	mg/L						
Molybdenum	0.00341	35	0.0034	mg/L						J
Nickel	0.00760	2.0	0.0040	mg/L						J
Selenium	ND	0.10	0.027	mg/L						
Silver	ND	0.50	0.0049	mg/L						
Thallium	ND	0.70	0.0040	mg/L						
Vanadium	ND	2.4	0.081	mg/L						
Zinc	ND	25	0.030	mg/L						
LCS (6I06088-BS1)				Prepared & Analyzed: 09/08/16						
Antimony	4.09	1.5	0.0037	mg/L	4.00	102	82-124			
Arsenic	4.04	0.50	0.023	mg/L	4.00	101	80.5-126			
Barium	40.1	10	0.0035	mg/L	44.0	91.2	77-123			
Beryllium	3.51	0.075	0.0052	mg/L	4.00	87.7	78-123			
Cadmium	3.70	0.10	0.0051	mg/L	4.00	92.5	79-121			
Total Chromium	3.54	0.50	0.038	mg/L	4.00	88.6	75-120			
Cobalt	3.57	8.0	0.0038	mg/L	4.00	89.3	79-117			J
Copper	3.39	2.5	0.0058	mg/L	4.00	84.7	78-115			
Lead	3.38	0.50	0.0039	mg/L	4.00	84.4	75-125			
Molybdenum	4.15	35	0.0034	mg/L	4.00	104	82-124			J
Nickel	3.47	2.0	0.0040	mg/L	4.00	86.7	78-113			
Selenium	3.97	0.10	0.027	mg/L	4.00	99.3	82-118			
Silver	3.62	0.50	0.0049	mg/L	4.00	90.4	64-127			
Thallium	3.15	0.70	0.0040	mg/L	4.00	78.7	77-114			
Vanadium	3.74	2.4	0.081	mg/L	4.00	93.5	83-119			
Zinc	3.54	25	0.030	mg/L	4.00	88.5	73-121			J



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Client Name: Regional WQCB, Lahontan Tahoe Office
 Contact: Rebecca Phillips
 Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 37 of 57
 Project Name: CRWQCB -IFB #15-025-160
 Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06088 - EPA 200.2 WET E02										
Matrix Spike (6I06088-MS1)			Source: B6H3003-08			Prepared & Analyzed: 09/08/16				
Antimony	4.23	1.5	0.0037	mg/L	4.00	0.0104	106	78-132		
Arsenic	4.95	0.50	0.023	mg/L	4.00	0.788	104	75-133		
Barium	43.5	10	0.0035	mg/L	44.0	0.900	96.9	73-128		
Beryllium	3.60	0.075	0.0052	mg/L	4.00	ND	89.9	75-127		
Cadmium	3.82	0.10	0.0051	mg/L	4.00	ND	95.4	74-125		
Total Chromium	3.74	0.50	0.038	mg/L	4.00	ND	93.5	63-131		
Cobalt	3.75	8.0	0.0038	mg/L	4.00	0.0228	93.1	72-125		J
Copper	3.59	2.5	0.0058	mg/L	4.00	0.0436	88.6	67-124		
Lead	3.48	0.50	0.0039	mg/L	4.00	ND	86.9	71-125		
Molybdenum	4.49	35	0.0034	mg/L	4.00	0.184	108	54-165		J
Nickel	3.61	2.0	0.0040	mg/L	4.00	0.0223	89.7	70-121		
Selenium	4.16	0.10	0.027	mg/L	4.00	ND	104	72-126		
Silver	3.76	0.50	0.0049	mg/L	4.00	ND	94.0	61-131		
Thallium	3.28	0.70	0.0040	mg/L	4.00	ND	82.0	65-122		
Vanadium	4.18	2.4	0.081	mg/L	4.00	0.239	98.5	75-129		
Zinc	3.72	25	0.030	mg/L	4.00	0.107	90.3	59-126		J
Matrix Spike Dup (6I06088-MSD1)			Source: B6H3003-08			Prepared & Analyzed: 09/08/16				
Antimony	4.14	1.5	0.0037	mg/L	4.00	0.0104	103	78-132	2.30	20
Arsenic	4.81	0.50	0.023	mg/L	4.00	0.788	101	75-133	2.81	20
Barium	41.6	10	0.0035	mg/L	44.0	0.900	92.4	73-128	4.58	20
Beryllium	3.55	0.075	0.0052	mg/L	4.00	ND	88.7	75-127	1.38	20
Cadmium	3.76	0.10	0.0051	mg/L	4.00	ND	94.1	74-125	1.41	20
Total Chromium	3.63	0.50	0.038	mg/L	4.00	ND	90.7	63-131	3.04	20
Cobalt	3.65	8.0	0.0038	mg/L	4.00	0.0228	90.6	72-125	2.72	20 J
Copper	3.47	2.5	0.0058	mg/L	4.00	0.0436	85.7	67-124	3.26	20
Lead	3.33	0.50	0.0039	mg/L	4.00	ND	83.1	71-125	4.46	20
Molybdenum	4.35	35	0.0034	mg/L	4.00	0.184	104	54-165	3.18	20 J
Nickel	3.52	2.0	0.0040	mg/L	4.00	0.0223	87.3	70-121	2.66	20
Selenium	4.02	0.10	0.027	mg/L	4.00	ND	100	72-126	3.41	20
Silver	3.64	0.50	0.0049	mg/L	4.00	ND	91.0	61-131	3.21	20
Thallium	3.17	0.70	0.0040	mg/L	4.00	ND	79.3	65-122	3.31	20
Vanadium	4.08	2.4	0.081	mg/L	4.00	0.239	96.0	75-129	2.50	20
Zinc	3.64	25	0.030	mg/L	4.00	0.107	88.3	59-126	2.21	20 J



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Client Name: Regional WQCB, Lahontan Tahoe Office
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Analytical Report: Page 38 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I08074 - EPA 200.2 WET E02										
Blank (6I08074-BLK1)				Prepared & Analyzed: 09/08/16						
Mercury	ND	0.010	0.0012	mg/L						
LCS (6I08074-BS1)				Prepared & Analyzed: 09/08/16						
Mercury	0.0650	0.010	0.0012	mg/L	0.0668	97.3	80-120			
Matrix Spike (6I08074-MS1)				Source: B6H3003-06 Prepared & Analyzed: 09/08/16						
Mercury	0.0670	0.010	0.0012	mg/L	0.0668	ND	100	75-125		
Matrix Spike Dup (6I08074-MSD1)				Source: B6H3003-06 Prepared & Analyzed: 09/08/16						
Mercury	0.0669	0.010	0.0012	mg/L	0.0668	ND	100	75-125	0.156	20



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Analytical Report: Page 39 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6H30087 - Purge and Trap										
Blank (6H30087-BLK1)				Prepared & Analyzed: 08/30/16						
1,1,1-Trichloroethane	ND	10	2.1	ug/kg						
1,1,1,2-Tetrachloroethane	ND	10	2.1	ug/kg						
1,1,2-Trichloroethane	ND	10	2.4	ug/kg						
1,1,2,2-Tetrachloroethane	ND	10	5.0	ug/kg						
1,1-Dichloroethane	ND	10	1.6	ug/kg						
1,1-Dichloroethene	ND	10	2.3	ug/kg						
1,1-Dichloropropene	ND	10	2.3	ug/kg						
1,2,3-Trichlorobenzene	ND	10	5.9	ug/kg						
1,2,3-Trichloropropane	ND	20	5.8	ug/kg						
1,2,4-Trichlorobenzene	ND	10	6.2	ug/kg						
1,2,4-Trimethylbenzene	ND	10	2.9	ug/kg						
1,2-Dichlorobenzene	ND	10	4.3	ug/kg						
1,2-Dichloroethane	ND	10	3.4	ug/kg						
1,2-Dichloropropane	ND	10	2.5	ug/kg						
1,3,5-Trimethylbenzene	ND	10	2.4	ug/kg						
1,3-Dichlorobenzene	ND	10	2.2	ug/kg						
1,3-Dichloropropane	ND	10	2.8	ug/kg						
1,4-Dichlorobenzene	ND	10	2.1	ug/kg						
2,2-Dichloropropane	ND	20	2.5	ug/kg						
2-Butanone(MEK)	ND	100	50	ug/kg						
2-Chlorotoluene	ND	10	2.3	ug/kg						
4-Chlorotoluene	ND	10	2.0	ug/kg						
4-Methyl-2-Pentanone(MIBK)	ND	100	16	ug/kg						
Acetone	ND	200	100	ug/kg						
Acrylonitrile	ND	200	7.9	ug/kg						
Benzene	ND	10	2.7	ug/kg						
Bromobenzene	ND	10	2.4	ug/kg						
Bromochloromethane	ND	10	3.6	ug/kg						
Bromodichloromethane	ND	10	1.1	ug/kg						
Bromoform	ND	10	8.7	ug/kg						
Bromomethane	ND	50	25	ug/kg						
Carbon Tetrachloride	ND	10	1.8	ug/kg						
Chlorobenzene	ND	10	3.2	ug/kg						
Chloroethane	ND	10	2.6	ug/kg						
Chloroform	ND	10	1.4	ug/kg						
Chloromethane	ND	10	5.0	ug/kg						

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

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Analytical Report: Page 40 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6H30087 - Purge and Trap										
Blank (6H30087-BLK1)				Prepared & Analyzed: 08/30/16						
cis-1,2-Dichloroethene	ND	10	1.9	ug/kg						
cis-1,3-Dichloropropene	ND	10	1.7	ug/kg						
Dibromochloromethane	ND	10	3.1	ug/kg						
Dibromochloropropane	ND	100	13	ug/kg						
Dibromomethane	ND	10	3.6	ug/kg						
Dichlorodifluoromethane	ND	10	7.0	ug/kg						
Ethylbenzene	ND	10	2.2	ug/kg						
Hexachlorobutadiene	ND	30	15	ug/kg						
Methyl tert Butyl Ether	ND	100	3.2	ug/kg						
Methylene Chloride	ND	60	30	ug/kg						
n-Butylbenzene	ND	10	2.4	ug/kg						
n-Propylbenzene	ND	10	2.6	ug/kg						
Naphthalene	ND	10	7.6	ug/kg						
sec-Butylbenzene	ND	10	2.3	ug/kg						
Styrene	ND	10	1.7	ug/kg						
tert-Butylbenzene	ND	10	2.4	ug/kg						
Tetrachloroethene	ND	10	2.6	ug/kg						
Toluene	ND	10	3.9	ug/kg						
trans-1,2-Dichloroethene	ND	10	2.7	ug/kg						
trans-1,3-Dichloropropene	ND	10	1.5	ug/kg						
Trichloroethene	ND	10	2.9	ug/kg						
Trichlorofluoromethane	ND	100	2.7	ug/kg						
Vinyl Chloride	ND	10	4.2	ug/kg						
Xylenes (m+p)	ND	20	4.7	ug/kg						
Xylenes (ortho)	ND	10	2.4	ug/kg						
Xylenes (total)	ND	20	4.7	ug/kg						
Ethyl tert-butyl ether	ND	30	9.6	ug/kg						
tert-Amyl Methyl Ether	ND	30	1.9	ug/kg						
tert-Butyl alcohol	ND	100	85	ug/kg						
Surrogate: 1,2-Dichloroethane-d4	193			ug/kg	200	96.6	75-120			
Surrogate: Bromofluorobenzene	196			ug/kg	200	97.9	83-120			
Surrogate: Toluene-d8	193			ug/kg	200	96.6	80-125			



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Client Name: Regional WQCB, Lahontan Tahoe Office
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Analytical Report: Page 41 of 57
 Project Name: CRWQCB -IFB #15-025-160
 Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6H30087 - Purge and Trap										
LCS (6H30087-BS1)					Prepared & Analyzed: 08/30/16					
1,1-Dichloroethane	589	10	1.6	ug/kg	500	118	55-123			
1,1-Dichloroethene	475	10	2.3	ug/kg	500	95.0	22-136			
1,4-Dichlorobenzene	568	10	2.1	ug/kg	500	114	70-124			
Benzene	584	10	2.7	ug/kg	500	117	67-123			
Bromodichloromethane	484	10	1.1	ug/kg	500	96.8	79-120			
Bromoform	498	10	8.7	ug/kg	500	99.6	48-138			
Chloroform	593	10	1.4	ug/kg	500	119	70-130			
Dibromochloromethane	499	10	3.1	ug/kg	500	99.7	63-126			
Ethylbenzene	594	10	2.2	ug/kg	500	119	70-131			
Methyl tert Butyl Ether	439	100	3.2	ug/kg	500	87.9	64-125			
Tetrachloroethene	610	10	2.6	ug/kg	500	122	70-130			
Toluene	558	10	3.9	ug/kg	500	112	70-128			
Trichloroethene	595	10	2.9	ug/kg	500	119	73-130			
Vinyl Chloride	300	10	4.2	ug/kg	500	60.1	27-130			
Xylenes (m+p)	1180	20	4.7	ug/kg	1000	118	70-130			
Xylenes (ortho)	578	10	2.4	ug/kg	500	116	70-130			
<i>Surrogate:</i>	191			ug/kg	200	95.4	75-120			
<i>1,2-Dichloroethane-d4</i>										
<i>Surrogate:</i>	187			ug/kg	200	93.4	83-120			
<i>Bromofluorobenzene</i>										
<i>Surrogate: Toluene-d8</i>	201			ug/kg	200	100	80-125			
LCS Dup (6H30087-BSD1)					Prepared & Analyzed: 08/30/16					
1,1-Dichloroethane	537	10	1.6	ug/kg	500	107	55-123	9.27	20	
1,1-Dichloroethene	415	10	2.3	ug/kg	500	83.1	22-136	13.4	20	
1,4-Dichlorobenzene	563	10	2.1	ug/kg	500	113	70-124	0.858	20	
Benzene	544	10	2.7	ug/kg	500	109	67-123	7.04	20	
Bromodichloromethane	456	10	1.1	ug/kg	500	91.2	79-120	5.94	20	
Bromoform	476	10	8.7	ug/kg	500	95.2	48-138	4.55	20	
Chloroform	553	10	1.4	ug/kg	500	111	70-130	7.06	20	
Dibromochloromethane	465	10	3.1	ug/kg	500	93.1	63-126	6.87	20	
Ethylbenzene	571	10	2.2	ug/kg	500	114	70-131	3.83	20	
Methyl tert Butyl Ether	432	100	3.2	ug/kg	500	86.4	64-125	1.71	20	
Tetrachloroethene	578	10	2.6	ug/kg	500	116	70-130	5.51	20	
Toluene	531	10	3.9	ug/kg	500	106	70-128	4.98	20	
Trichloroethene	544	10	2.9	ug/kg	500	109	73-130	9.01	20	
Vinyl Chloride	236	10	4.2	ug/kg	500	47.1	27-130	24.1	20	QRPDa
Xylenes (m+p)	1120	20	4.7	ug/kg	1000	112	70-130	4.80	20	

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 EPA No. CA00102
 NELAP No. OR4035
 LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 42 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6H30087 - Purge and Trap										
LCS Dup (6H30087-BSD1)					Prepared & Analyzed: 08/30/16					
Xylenes (ortho)	550	10	2.4	ug/kg	500	110	70-130	4.95	20	
Surrogate: 1,2-Dichloroethane-d4	188			ug/kg	200	93.8	75-120			
Surrogate: Bromofluorobenzene	193			ug/kg	200	96.4	83-120			
Surrogate: Toluene-d8	201			ug/kg	200	100	80-125			
Duplicate (6H30087-DUP1)		Source: B6H3003-07			Prepared & Analyzed: 08/30/16					
1,1,1-Trichloroethane	ND	20	4.2	ug/kg					40	
1,1,1,2-Tetrachloroethane	ND	20	4.1	ug/kg					40	
1,1,2-Trichloroethane	ND	20	4.8	ug/kg					40	
1,1,2,2-Tetrachloroethane	ND	20	10	ug/kg					40	
1,1-Dichloroethane	ND	20	3.1	ug/kg					40	
1,1-Dichloroethene	ND	20	4.6	ug/kg					40	
1,1-Dichloropropene	ND	20	4.6	ug/kg					40	
1,2,3-Trichlorobenzene	ND	20	12	ug/kg					40	
1,2,3-Trichloropropane	ND	40	12	ug/kg					40	
1,2,4-Trichlorobenzene	ND	20	12	ug/kg					40	
1,2,4-Trimethylbenzene	ND	20	5.8	ug/kg					40	
1,2-Dichlorobenzene	ND	20	8.6	ug/kg					40	
1,2-Dichloroethane	ND	20	6.8	ug/kg					40	
1,2-Dichloropropane	ND	20	5.1	ug/kg					40	
1,3,5-Trimethylbenzene	ND	20	4.7	ug/kg					40	
1,3-Dichlorobenzene	ND	20	4.4	ug/kg					40	
1,3-Dichloropropane	ND	20	5.6	ug/kg					40	
1,4-Dichlorobenzene	ND	20	4.2	ug/kg					40	
2,2-Dichloropropane	ND	40	5.0	ug/kg					40	
2-Butanone(MEK)	ND	200	100	ug/kg					40	
2-Chlorotoluene	ND	20	4.6	ug/kg					40	
4-Chlorotoluene	ND	20	4.0	ug/kg					40	
4-Methyl-2-Pentanone(MIBK)	ND	200	32	ug/kg					40	
Acetone	ND	400	200	ug/kg					40	
Acrylonitrile	ND	400	16	ug/kg					40	
Benzene	ND	20	5.5	ug/kg					40	
Bromobenzene	ND	20	4.9	ug/kg					40	
Bromochloromethane	ND	20	7.2	ug/kg					40	
Bromodichloromethane	ND	20	2.2	ug/kg					40	
Bromoform	ND	20	17	ug/kg					40	

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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 43 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6H30087 - Purge and Trap										
Duplicate (6H30087-DUP1)		Source: B6H3003-07			Prepared & Analyzed: 08/30/16					
Bromomethane	ND	100	50	ug/kg	ND				40	
Carbon Tetrachloride	ND	20	3.7	ug/kg	ND				40	
Chlorobenzene	ND	20	6.4	ug/kg	ND				40	
Chloroethane	ND	20	5.2	ug/kg	ND				40	
Chloroform	ND	20	2.9	ug/kg	ND				40	
Chloromethane	ND	20	10	ug/kg	ND				40	
cis-1,2-Dichloroethene	ND	20	3.7	ug/kg	ND				40	
cis-1,3-Dichloropropene	ND	20	3.4	ug/kg	ND				40	
Dibromochloromethane	ND	20	6.2	ug/kg	ND				40	
Dibromochloropropane	ND	200	27	ug/kg	ND				40	
Dibromomethane	ND	20	7.3	ug/kg	ND				40	
Dichlorodifluoromethane	ND	20	14	ug/kg	ND				40	
Ethylbenzene	ND	20	4.4	ug/kg	ND				40	
Hexachlorobutadiene	ND	60	30	ug/kg	ND				40	
Methyl tert Butyl Ether	ND	200	6.4	ug/kg	ND				40	
Methylene Chloride	ND	120	60	ug/kg	ND				40	
n-Butylbenzene	ND	20	4.9	ug/kg	ND				40	
n-Propylbenzene	ND	20	5.1	ug/kg	ND				40	
Naphthalene	ND	20	15	ug/kg	ND				40	
sec-Butylbenzene	ND	20	4.6	ug/kg	ND				40	
Styrene	ND	20	3.4	ug/kg	ND				40	
tert-Butylbenzene	ND	20	4.8	ug/kg	ND				40	
Tetrachloroethene	ND	20	5.2	ug/kg	ND				40	
Toluene	ND	20	7.7	ug/kg	ND				40	
trans-1,2-Dichloroethene	ND	20	5.3	ug/kg	ND				40	
trans-1,3-Dichloropropene	ND	20	3.0	ug/kg	ND				40	
Trichloroethene	ND	20	5.8	ug/kg	ND				40	
Trichlorofluoromethane	ND	200	5.4	ug/kg	ND				40	
Vinyl Chloride	ND	20	8.3	ug/kg	ND				40	
Xylenes (m+p)	ND	40	9.4	ug/kg	ND				40	
Xylenes (ortho)	ND	20	4.7	ug/kg	ND				40	
Xylenes (total)	ND	40	9.4	ug/kg	ND				40	
Ethyl tert-butyl ether	ND	60	19	ug/kg	ND				40	
tert-Amyl Methyl Ether	ND	60	3.8	ug/kg	ND				40	
tert-Butyl alcohol	ND	200	170	ug/kg	ND				40	

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 44 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch 6H30087 - Purge and Trap

Duplicate (6H30087-DUP1)

Source: B6H3003-07

Prepared & Analyzed: 08/30/16

Surrogate: 1,2-Dichloroethane-d4	194		ug/kg	200		96.9	75-120			
Surrogate: Bromofluorobenzene	199		ug/kg	200		99.5	83-120			
Surrogate: Toluene-d8	194		ug/kg	200		97.1	80-125			

Matrix Spike (6H30087-MS1)

Source: B6H3003-05

Prepared & Analyzed: 08/30/16

1,1-Dichloroethane	1100	20	3.1	ug/kg	1000	ND	110	20-139		
1,1-Dichloroethene	924	20	4.6	ug/kg	1000	ND	92.4	10-156		
1,4-Dichlorobenzene	1110	20	4.2	ug/kg	1000	ND	111	45-132		
Benzene	1120	20	5.5	ug/kg	1000	ND	112	19-143		
Bromodichloromethane	912	20	2.2	ug/kg	1000	ND	91.2	20-133		
Bromoform	897	20	17	ug/kg	1000	ND	89.7	10-139		
Chloroform	1120	20	2.9	ug/kg	1000	ND	112	19-140		
Dibromochloromethane	916	20	6.2	ug/kg	1000	ND	91.6	11-135		
Ethylbenzene	1150	20	4.4	ug/kg	1000	ND	115	29-147		
Methyl tert Butyl Ether	914	200	6.4	ug/kg	1000	ND	91.4	38-125		
Tetrachloroethene	1160	20	5.2	ug/kg	1000	ND	116	22-146		
Toluene	1080	20	7.7	ug/kg	1000	ND	108	25-144		
Trichloroethene	1110	20	5.8	ug/kg	1000	ND	111	18-145		
Vinyl Chloride	580	20	8.3	ug/kg	1000	ND	58.0	10-150		
Xylenes (m+p)	2280	40	9.4	ug/kg	2000	ND	114	30-144		
Xylenes (ortho)	1110	20	4.7	ug/kg	1000	ND	111	34-143		

Surrogate: 1,2-Dichloroethane-d4	190		ug/kg	200		94.9	75-120			
Surrogate: Bromofluorobenzene	191		ug/kg	200		95.7	83-120			
Surrogate: Toluene-d8	199		ug/kg	200		99.6	80-125			

Batch 6I01072 - Purge and Trap

Blank (6I01072-BLK1)

Prepared: 09/01/16 Analyzed: 09/02/16

1,1,1,2-Tetrachloroethane	ND	0.50	0.14	ug/L						
1,1,1-Trichloroethane	ND	0.50	0.12	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/L						
1,1,2-Trichloroethane	ND	0.50	0.31	ug/L						
1,1-Dichloroethane	ND	0.50	0.098	ug/L						
1,1-Dichloroethene	ND	0.50	0.12	ug/L						
1,1-Dichloropropene	ND	0.50	0.14	ug/L						
1,2,3-Trichlorobenzene	ND	0.50	0.29	ug/L						

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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 45 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap										
Blank (6I01072-BLK1)										
Prepared: 09/01/16 Analyzed: 09/02/16										
1,2,3-Trichloropropane	ND	0.50	0.29	ug/L						
1,2,4-Trichlorobenzene	ND	0.50	0.34	ug/L						
1,2,4-Trimethylbenzene	ND	0.50	0.093	ug/L						
1,2-Dichlorobenzene	ND	0.50	0.20	ug/L						
1,2-Dichloroethane	ND	0.50	0.21	ug/L						
1,2-Dichloropropane	ND	0.50	0.19	ug/L						
1,3,5-Trimethylbenzene	ND	0.50	0.079	ug/L						
1,3-Dichlorobenzene	ND	0.50	0.15	ug/L						
1,3-Dichloropropane	ND	0.50	0.22	ug/L						
1,4-Dichlorobenzene	ND	0.50	0.072	ug/L						
2,2-Dichloropropane	ND	0.50	0.49	ug/L						
2-Butanone(MEK)	ND	3.0	1.2	ug/L						
2-Chlorotoluene	ND	0.50	0.092	ug/L						
4-Chlorotoluene	ND	0.50	0.095	ug/L						
4-Methyl-2-Pentanone(MIBK)	ND	5.0	0.95	ug/L						
Acrolein	ND	10	1.1	ug/L						
Acrylonitrile	ND	10	1.2	ug/L						
Benzene	ND	0.50	0.14	ug/L						
Bromobenzene	ND	0.50	0.22	ug/L						
Bromochloromethane	ND	0.50	0.33	ug/L						
Bromodichloromethane	ND	0.50	0.11	ug/L						
Bromoform	ND	1.0	0.50	ug/L						
Bromomethane	ND	0.50	0.48	ug/L						
Carbon Tetrachloride	ND	0.50	0.15	ug/L						
Chlorobenzene	ND	0.50	0.23	ug/L						
Chloroethane	ND	0.50	0.35	ug/L						
Chloroform	ND	0.50	0.46	ug/L						
Chloromethane	ND	0.50	0.36	ug/L						
cis-1,2-Dichloroethene	ND	0.50	0.18	ug/L						
cis-1,3-Dichloropropene	ND	0.50	0.30	ug/L						
Dibromochloromethane	ND	0.50	0.37	ug/L						
Dibromomethane	ND	0.50	0.16	ug/L						
Dichlorodifluoromethane	ND	0.50	0.18	ug/L						
Ethylbenzene	ND	0.50	0.26	ug/L						
Hexachlorobutadiene	0.270	0.50	0.21	ug/L						J
Isopropylbenzene	ND	0.50	0.36	ug/L						

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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 46 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap										
Blank (6I01072-BLK1)					Prepared: 09/01/16 Analyzed: 09/02/16					
Methyl tert Butyl Ether	ND	5.0	0.43	ug/L						
Methylene Chloride	ND	3.0	0.15	ug/L						
Naphthalene	ND	0.50	0.44	ug/L						
n-Butylbenzene	ND	0.50	0.15	ug/L						
n-Propylbenzene	ND	0.50	0.15	ug/L						
sec-Butylbenzene	ND	0.50	0.12	ug/L						
Styrene	ND	0.50	0.22	ug/L						
tert-Butylbenzene	ND	0.50	0.21	ug/L						
Tetrachloroethene	ND	0.50	0.23	ug/L						
Toluene	ND	0.50	0.22	ug/L						
trans-1,2-Dichloroethene	ND	0.50	0.10	ug/L						
trans-1,3-Dichloropropene	ND	0.50	0.24	ug/L						
Trichloroethene	ND	0.50	0.25	ug/L						
Trichlorofluoromethane	ND	5.0	0.16	ug/L						
Vinyl Chloride	ND	0.50	0.13	ug/L						
Xylenes (m+p)	ND	0.50	0.36	ug/L						
Xylenes (ortho)	ND	0.50	0.41	ug/L						
Diisopropyl ether	ND	3.0	0.30	ug/L						
Ethyl tert-butyl ether	ND	3.0	0.29	ug/L						
tert-Amyl Methyl Ether	ND	3.0	0.37	ug/L						
Tert-butyl alcohol	ND	5.0	2.1	ug/L						
Surrogate: 1,2-Dichloroethane-d4	10.0			ug/L	10.0	100	80-120			
Surrogate: Bromofluorobenzene	10.2			ug/L	10.0	102	80-120			
Surrogate: Toluene-d8	9.58			ug/L	10.0	95.8	80-120			
LCS (6I01072-BS1)					Prepared: 09/01/16 Analyzed: 09/02/16					
1,1-Dichloroethane	24.7	0.50	0.098	ug/L	25.0	98.8	70-130			
1,1-Dichloroethene	24.0	0.50	0.12	ug/L	25.0	96.1	70-130			
1,4-Dichlorobenzene	25.8	0.50	0.072	ug/L	25.0	103	70-130			
Benzene	25.4	0.50	0.14	ug/L	25.0	101	70-130			
Bromodichloromethane	23.1	0.50	0.11	ug/L	25.0	92.4	70-130			
Bromoform	23.5	1.0	0.50	ug/L	25.0	93.9	70-130			
Chloroform	27.6	0.50	0.46	ug/L	25.0	111	70-130			
Dibromochloromethane	23.9	0.50	0.37	ug/L	25.0	95.6	70-130			
Ethylbenzene	25.9	0.50	0.26	ug/L	25.0	104	70-130			
Methyl tert Butyl Ether	21.5	5.0	0.43	ug/L	25.0	86.1	70-130			

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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 47 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap										
LCS (6I01072-BS1)					Prepared: 09/01/16 Analyzed: 09/02/16					
Tetrachloroethene	27.4	0.50	0.23	ug/L	25.0	110	70-130			
Toluene	24.6	0.50	0.22	ug/L	25.0	98.5	70-130			
Trichloroethene	26.6	0.50	0.25	ug/L	25.0	106	70-130			
Vinyl Chloride	19.9	0.50	0.13	ug/L	25.0	79.7	70-130			
Xylenes (m+p)	51.2	0.50	0.36	ug/L	50.0	102	70-130			
Xylenes (ortho)	25.4	0.50	0.41	ug/L	25.0	102	70-130			
<i>Surrogate:</i>	9.75			ug/L	10.0	97.5	80-120			
<i>1,2-Dichloroethane-d4</i>										
<i>Surrogate:</i>	9.14			ug/L	10.0	91.4	80-120			
<i>Bromofluorobenzene</i>										
<i>Surrogate: Toluene-d8</i>	9.89			ug/L	10.0	98.9	80-120			
LCS Dup (6I01072-BSD1)					Prepared: 09/01/16 Analyzed: 09/02/16					
1,1-Dichloroethane	24.5	0.50	0.098	ug/L	25.0	97.9	70-130	0.936	20	
1,1-Dichloroethene	23.2	0.50	0.12	ug/L	25.0	92.8	70-130	3.47	20	
1,4-Dichlorobenzene	25.5	0.50	0.072	ug/L	25.0	102	70-130	1.25	20	
Benzene	25.1	0.50	0.14	ug/L	25.0	100	70-130	1.23	20	
Bromodichloromethane	23.0	0.50	0.11	ug/L	25.0	91.8	70-130	0.651	20	
Bromoform	24.2	1.0	0.50	ug/L	25.0	96.9	70-130	3.10	20	
Chloroform	27.0	0.50	0.46	ug/L	25.0	108	70-130	2.42	20	
Dibromochloromethane	24.5	0.50	0.37	ug/L	25.0	97.8	70-130	2.27	20	
Ethylbenzene	25.6	0.50	0.26	ug/L	25.0	102	70-130	1.21	20	
Methyl tert Butyl Ether	21.2	5.0	0.43	ug/L	25.0	84.6	70-130	1.78	20	
Tetrachloroethene	27.1	0.50	0.23	ug/L	25.0	108	70-130	1.17	20	
Toluene	24.4	0.50	0.22	ug/L	25.0	97.6	70-130	0.979	20	
Trichloroethene	26.3	0.50	0.25	ug/L	25.0	105	70-130	1.17	20	
Vinyl Chloride	19.4	0.50	0.13	ug/L	25.0	77.5	70-130	2.85	20	
Xylenes (m+p)	50.8	0.50	0.36	ug/L	50.0	102	70-130	0.882	20	
Xylenes (ortho)	25.2	0.50	0.41	ug/L	25.0	101	70-130	0.789	20	
<i>Surrogate:</i>	9.72			ug/L	10.0	97.2	80-120			
<i>1,2-Dichloroethane-d4</i>										
<i>Surrogate:</i>	9.24			ug/L	10.0	92.4	80-120			
<i>Bromofluorobenzene</i>										
<i>Surrogate: Toluene-d8</i>	9.89			ug/L	10.0	98.9	80-120			



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Analytical Report: Page 48 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap									
Duplicate (6I01072-DUP1)		Source: B6H3003-03			Prepared: 09/01/16		Analyzed: 09/02/16		
1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/L	ND			40	
1,1,1-Trichloroethane	ND	5.0	1.2	ug/L	ND			40	
1,1,2,2-Tetrachloroethane	ND	5.0	2.9	ug/L	ND			40	
1,1,2-Trichloroethane	ND	5.0	3.1	ug/L	ND			40	
1,1-Dichloroethane	ND	5.0	0.98	ug/L	ND			40	
1,1-Dichloroethene	ND	5.0	1.2	ug/L	ND			40	
1,1-Dichloropropene	ND	5.0	1.4	ug/L	ND			40	
1,2,3-Trichlorobenzene	ND	5.0	2.9	ug/L	ND			40	
1,2,3-Trichloropropane	ND	5.0	2.9	ug/L	ND			40	
1,2,4-Trichlorobenzene	ND	5.0	3.4	ug/L	ND			40	
1,2,4-Trimethylbenzene	ND	5.0	0.93	ug/L	ND			40	
1,2-Dichlorobenzene	ND	5.0	2.0	ug/L	ND			40	
1,2-Dichloroethane	ND	5.0	2.1	ug/L	ND			40	
1,2-Dichloropropane	ND	5.0	1.9	ug/L	ND			40	
1,3,5-Trimethylbenzene	ND	5.0	0.79	ug/L	ND			40	
1,3-Dichlorobenzene	ND	5.0	1.5	ug/L	ND			40	
1,3-Dichloropropane	ND	5.0	2.2	ug/L	ND			40	
1,4-Dichlorobenzene	ND	5.0	0.72	ug/L	ND			40	
2,2-Dichloropropane	ND	5.0	4.9	ug/L	ND			40	
2-Butanone(MEK)	ND	30	12	ug/L	ND			40	
2-Chlorotoluene	ND	5.0	0.92	ug/L	ND			40	
4-Chlorotoluene	ND	5.0	0.95	ug/L	ND			40	
4-Methyl-2-Pentanone(MIBK)	ND	50	9.5	ug/L	ND			40	
Acrolein	ND	100	11	ug/L	ND			40	
Acrylonitrile	ND	100	12	ug/L	ND			40	
Benzene	ND	5.0	1.4	ug/L	ND			40	
Bromobenzene	ND	5.0	2.2	ug/L	ND			40	
Bromochloromethane	ND	5.0	3.3	ug/L	ND			40	
Bromodichloromethane	ND	5.0	1.1	ug/L	ND			40	
Bromoform	ND	10	5.0	ug/L	ND			40	
Bromomethane	ND	5.0	4.8	ug/L	ND			40	
Carbon Tetrachloride	ND	5.0	1.5	ug/L	ND			40	
Chlorobenzene	ND	5.0	2.3	ug/L	ND			40	
Chloroethane	ND	5.0	3.5	ug/L	ND			40	
Chloroform	ND	5.0	4.6	ug/L	ND			40	
Chloromethane	ND	5.0	3.6	ug/L	ND			40	

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Analytical Report: Page 49 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap										
Duplicate (6I01072-DUP1)		Source: B6H3003-03			Prepared: 09/01/16		Analyzed: 09/02/16			
cis-1,2-Dichloroethene	ND	5.0	1.8	ug/L	ND				40	
cis-1,3-Dichloropropene	ND	5.0	3.0	ug/L	ND				40	
Dibromochloromethane	ND	5.0	3.7	ug/L	ND				40	
Dibromomethane	ND	5.0	1.6	ug/L	ND				40	
Dichlorodifluoromethane	ND	5.0	1.8	ug/L	ND				40	
Ethylbenzene	ND	5.0	2.6	ug/L	ND				40	
Hexachlorobutadiene	ND	5.0	2.1	ug/L	ND				40	
Isopropylbenzene	ND	5.0	3.6	ug/L	ND				40	
Methyl tert Butyl Ether	ND	50	4.3	ug/L	ND				40	
Methylene Chloride	ND	30	1.5	ug/L	ND				40	
Naphthalene	ND	5.0	4.4	ug/L	ND				40	
n-Butylbenzene	ND	5.0	1.5	ug/L	ND				40	
n-Propylbenzene	ND	5.0	1.5	ug/L	ND				40	
sec-Butylbenzene	ND	5.0	1.2	ug/L	ND				40	
Styrene	ND	5.0	2.2	ug/L	ND				40	
tert-Butylbenzene	ND	5.0	2.1	ug/L	ND				40	
Tetrachloroethene	ND	5.0	2.3	ug/L	ND				40	
Toluene	ND	5.0	2.2	ug/L	ND				40	
trans-1,2-Dichloroethene	ND	5.0	1.0	ug/L	ND				40	
trans-1,3-Dichloropropene	ND	5.0	2.4	ug/L	ND				40	
Trichloroethene	ND	5.0	2.5	ug/L	ND				40	
Trichlorofluoromethane	ND	50	1.6	ug/L	ND				40	
Vinyl Chloride	ND	5.0	1.3	ug/L	ND				40	
Xylenes (m+p)	ND	5.0	3.6	ug/L	ND				40	
Xylenes (ortho)	ND	5.0	4.1	ug/L	ND				40	
Diisopropyl ether	ND	30	3.0	ug/L	ND				40	
Ethyl tert-butyl ether	ND	30	2.9	ug/L	ND				40	
tert-Amyl Methyl Ether	ND	30	3.7	ug/L	ND				40	
Tert-butyl alcohol	ND	500	21	ug/L	ND				40	
Surrogate: 1,2-Dichloroethane-d4	10.4			ug/L	10.0	104	80-120			
Surrogate: Bromofluorobenzene	10.1			ug/L	10.0	101	80-120			
Surrogate: Toluene-d8	9.49			ug/L	10.0	94.9	80-120			



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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

Address: 2501 Lake Tahoe Boulevard
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Analytical Report: Page 50 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I01072 - Purge and Trap										
Matrix Spike (6I01072-MS1)		Source: B6H3003-01			Prepared: 09/01/16		Analyzed: 09/02/16			
1,1-Dichloroethane	274	5.0	0.98	ug/L	250	ND	110	70-130		
1,1-Dichloroethene	271	5.0	1.2	ug/L	250	ND	108	70-130		
1,4-Dichlorobenzene	266	5.0	0.72	ug/L	250	ND	106	70-130		
Benzene	273	5.0	1.4	ug/L	250	ND	109	70-130		
Bromodichloromethane	239	5.0	1.1	ug/L	250	ND	95.5	70-130		
Bromoform	251	10	5.0	ug/L	250	ND	100	70-130		
Chloroform	292	5.0	4.6	ug/L	250	ND	117	70-130		
Dibromochloromethane	252	5.0	3.7	ug/L	250	ND	101	70-130		
Ethylbenzene	275	5.0	2.6	ug/L	250	ND	110	70-130		
Methyl tert Butyl Ether	231	50	4.3	ug/L	250	ND	92.4	70-130		
Tetrachloroethene	291	5.0	2.3	ug/L	250	ND	117	70-130		
Toluene	258	5.0	2.2	ug/L	250	ND	103	70-130		
Trichloroethene	289	5.0	2.5	ug/L	250	ND	116	70-130		
Vinyl Chloride	230	5.0	1.3	ug/L	250	ND	92.1	70-130		
Xylenes (m+p)	542	5.0	3.6	ug/L	500	ND	108	70-130		
Xylenes (ortho)	270	5.0	4.1	ug/L	250	ND	108	70-130		
Surrogate: 1,2-Dichloroethane-d4	9.81			ug/L	10.0		98.1	80-120		
Surrogate: Bromofluorobenzene	9.35			ug/L	10.0		93.5	80-120		
Surrogate: Toluene-d8	9.81			ug/L	10.0		98.1	80-120		



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Client Name: Regional WQCB, Lahontan Tahoe Office

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Analytical Report: Page 51 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Semivolatile Organic Compounds by EPA 8270C - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Flag
Batch 6I06085 - EPA 3550B										
Blank (6I06085-BLK1)										
Prepared: 09/06/16 Analyzed: 09/07/16										
1,2,4-Trichlorobenzene	ND	1.0	0.17	mg/kg						
1,2-Dichlorobenzene	ND	1.0	0.14	mg/kg						
1,2-Diphenylhydrazine	ND	1.0	0.057	mg/kg						
1,3,5-Trinitrobenzene	ND	1.0	0.080	mg/kg						
1,3-Dichlorobenzene	ND	1.0	0.15	mg/kg						
1,4-Dichlorobenzene	ND	1.0	0.16	mg/kg						
2,4,6-Trichlorophenol	ND	1.0	0.084	mg/kg						
2,4-Dichlorophenol	ND	1.0	0.12	mg/kg						
2,4-Dimethylphenol	ND	1.0	0.13	mg/kg						
2,4-Dinitrophenol	ND	5.0	2.5	mg/kg						
2,4-Dinitrotoluene	ND	1.0	0.039	mg/kg						
2,6-Dichlorophenol	ND	1.0	0.13	mg/kg						
2,6-Dinitrotoluene	ND	1.0	0.072	mg/kg						
2-Chloronaphthalene	ND	1.0	0.12	mg/kg						
2-Chlorophenol	ND	1.0	0.15	mg/kg						
2-Methyl-4,6-Dinitrophenol	ND	5.0	0.042	mg/kg						
2-Nitrophenol	ND	1.0	0.15	mg/kg						
2-Picoline	ND	1.0	0.50	mg/kg						
3,3'-Dichlorobenzidine	ND	1.0	0.089	mg/kg						
4,4'-DDD	ND	1.0	0.035	mg/kg						
4,4'-DDE	ND	1.0	0.042	mg/kg						
4,4'-DDT	ND	1.0	0.031	mg/kg						
4-Bromophenyl phenyl ether	ND	1.0	0.065	mg/kg						
4-Chloro-3-methylphenol	ND	1.0	0.057	mg/kg						
4-Chlorophenyl phenyl ether	ND	1.0	0.070	mg/kg						
4-Nitrophenol	ND	10	0.025	mg/kg						
a-BHC	ND	1.0	0.044	mg/kg						
Acenaphthene	ND	1.0	0.087	mg/kg						
Acenaphthylene	ND	1.0	0.93	mg/kg						
Aldrin	ND	1.0	0.062	mg/kg						
Anthracene	ND	1.0	0.043	mg/kg						
Aroclor 1016 (screen)	ND	5.0	0.76	mg/kg						
Aroclor 1221 (screen)	ND	5.0	5.0	mg/kg						
Aroclor 1232 (screen)	ND	5.0	5.0	mg/kg						
Aroclor 1242 (screen)	ND	5.0	5.0	mg/kg						
Aroclor 1248 (screen)	ND	5.0	5.0	mg/kg						

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EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



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Analytical Report: Page 52 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Semivolatile Organic Compounds by EPA 8270C - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Flag
Batch 6I06085 - EPA 3550B									
Blank (6I06085-BLK1)									
					Prepared: 09/06/16 Analyzed: 09/07/16				
Aroclor 1254 (screen)	ND	5.0	5.0	mg/kg					
Aroclor 1260 (screen)	ND	5.0	0.67	mg/kg					
b-BHC	ND	1.0	0.043	mg/kg					
Benzidine	ND	10	10	mg/kg					
Benzo(a)anthracene	ND	1.0	0.031	mg/kg					
Benzo(a)pyrene	ND	1.0	0.038	mg/kg					
Benzo(b)fluoranthene	ND	1.0	0.10	mg/kg					
Benzo(ghi)perylene	ND	1.0	0.038	mg/kg					
Benzo(k)fluoranthene	ND	1.0	0.15	mg/kg					
Bis(2-chloroethoxy)methane	ND	1.0	0.15	mg/kg					
Bis(2-Chloroethyl)ether	ND	1.0	0.16	mg/kg					
Bis(2-chloroisopropyl)Ether	ND	1.0	0.15	mg/kg					
Bis(2-ethylhexyl)phthalate	0.107	1.0	0.036	mg/kg					J
Butyl benzyl phthalate	ND	1.0	0.043	mg/kg					
Chlordane (screen)	ND	5.0	5.0	mg/kg					
Chrysene	ND	1.0	0.035	mg/kg					
d-BHC	ND	1.0	0.065	mg/kg					
Dibenzo(a,h)anthracene	ND	1.0	0.039	mg/kg					
Dieldrin	ND	1.0	0.051	mg/kg					
Diethyl phthalate	ND	1.0	0.054	mg/kg					
Dimethyl phthalate	ND	1.0	0.051	mg/kg					
Di-n-butylphthalate	ND	1.0	0.059	mg/kg					
Di-n-octylphthalate	ND	1.0	0.059	mg/kg					
Endosulfan I	ND	1.0	0.036	mg/kg					
Endosulfan II	ND	1.0	0.034	mg/kg					
Endosulfan Sulfate	ND	1.0	0.042	mg/kg					
Endrin	ND	1.0	0.068	mg/kg					
Fluoranthene	ND	1.0	0.030	mg/kg					
Fluorene	ND	1.0	0.065	mg/kg					
Heptachlor	ND	1.0	0.078	mg/kg					
Heptachlor Epoxide	ND	1.0	0.060	mg/kg					
Hexachlorobenzene	ND	1.0	0.063	mg/kg					
Hexachlorobutadiene	ND	1.0	0.18	mg/kg					
Hexachlorocyclopentadiene	ND	50	0.13	mg/kg					
Hexachloroethane	ND	1.0	0.16	mg/kg					
Indeno(1,2,3-cd)pyrene	ND	1.0	0.039	mg/kg					

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Client Name: Regional WQCB, Lahontan Tahoe Office

Contact: Rebecca Phillips

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Analytical Report: Page 53 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olanca, Olanca CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Semivolatile Organic Compounds by EPA 8270C - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06085 - EPA 3550B										
Blank (6I06085-BLK1)										
Prepared: 09/06/16 Analyzed: 09/07/16										
Isophorone	ND	1.0	0.11	mg/kg						
Naphthalene	ND	1.0	0.14	mg/kg						
Nitrobenzene	ND	1.0	0.14	mg/kg						
N-Nitrosodi-n-propylamine	ND	1.0	0.13	mg/kg						
N-Nitrosodimethylamine	ND	1.0	0.15	mg/kg						
N-Nitrosodiphenylamine	ND	1.0	0.061	mg/kg						
Pentachlorophenol	ND	10	0.038	mg/kg						
Phenanthrene	ND	1.0	0.042	mg/kg						
Phenol	ND	1.0	0.13	mg/kg						
Pyrene	ND	1.0	0.073	mg/kg						
Toxaphene (screen)	ND	5.0	5.0	mg/kg						
γ-BHC	ND	1.0	0.30	mg/kg						
<i>Surrogate:</i>	4.1			mg/kg	5.00		81.1		32-146	
<i>2,4,6-Tribromophenol</i>										
<i>Surrogate: 2-Fluorobiphenyl</i>	3.1			mg/kg	3.33		91.7		27-117	
<i>Surrogate: 2-Fluorophenol</i>	3.5			mg/kg	5.00		70.0		21-96	
<i>Surrogate: 4-Terphenyl-d14</i>	3.4			mg/kg	3.33		103		49-126	
<i>Surrogate: Nitrobenzene-d5</i>	2.9			mg/kg	3.33		86.4		36-110	
<i>Surrogate: Phenol-d6</i>	4.1			mg/kg	5.00		81.3		28-112	
LCS (6I06085-BS1)										
Prepared: 09/06/16 Analyzed: 09/07/16										
1,2,4-Trichlorobenzene	2.37	1.0	0.17	mg/kg	3.33		71.2		31-93	
1,4-Dichlorobenzene	2.24	1.0	0.16	mg/kg	3.33		67.1		50-94	
2,4-Dichlorophenol	3.82	1.0	0.12	mg/kg	5.00		76.3		57-100	
2,4-Dimethylphenol	3.51	1.0	0.13	mg/kg	5.00		70.2		51-100	
2,4-Dinitrotoluene	2.52	1.0	0.039	mg/kg	3.33		75.6		44-111	
2-Chlorophenol	3.52	1.0	0.15	mg/kg	5.00		70.3		54-100	
4-Chloro-3-methylphenol	3.70	1.0	0.057	mg/kg	5.00		74.1		61-108	
4-Nitrophenol	3.24	10	0.025	mg/kg	5.00		64.7		21-117	J
Acenaphthene	2.55	1.0	0.087	mg/kg	3.33		76.6		54-108	
Isophorone	2.95	1.0	0.11	mg/kg	3.33		88.4		55-119	
N-Nitrosodi-n-propylamine	2.55	1.0	0.13	mg/kg	3.33		76.6		52-104	
Pentachlorophenol	3.57	10	0.038	mg/kg	5.00		71.5		41-115	J
Phenol	3.25	1.0	0.13	mg/kg	5.00		65.0		21-124	
Pyrene	2.75	1.0	0.073	mg/kg	3.33		82.6		66-108	
<i>Surrogate:</i>	3.9			mg/kg	5.00		78.6		32-146	
<i>2,4,6-Tribromophenol</i>										
<i>Surrogate: 2-Fluorobiphenyl</i>	2.8			mg/kg	3.33		85.5		27-117	

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Analytical Report: Page 54 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Semivolatile Organic Compounds by EPA 8270C - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06085 - EPA 3550B										
LCS (6I06085-BS1) Prepared: 09/06/16 Analyzed: 09/07/16										
Surrogate: 2-Fluorophenol	3.3		mg/kg	5.00		66.2	21-96			
Surrogate: 4-Terphenyl-d14	3.1		mg/kg	3.33		94.0	49-126			
Surrogate: Nitrobenzene-d5	2.7		mg/kg	3.33		80.0	36-110			
Surrogate: Phenol-d6	3.9		mg/kg	5.00		77.3	28-112			
LCS Dup (6I06085-BSD1) Prepared: 09/06/16 Analyzed: 09/07/16										
1,2,4-Trichlorobenzene	2.57	1.0	0.17	mg/kg	3.33	77.0	31-93	7.83	40	
1,4-Dichlorobenzene	2.46	1.0	0.16	mg/kg	3.33	73.7	50-94	9.40	40	
2,4-Dichlorophenol	4.10	1.0	0.12	mg/kg	5.00	81.9	57-100	7.06	40	
2,4-Dimethylphenol	3.69	1.0	0.13	mg/kg	5.00	73.8	51-100	4.96	40	
2,4-Dinitrotoluene	2.68	1.0	0.039	mg/kg	3.33	80.4	44-111	6.21	40	
2-Chlorophenol	3.88	1.0	0.15	mg/kg	5.00	77.6	54-100	9.90	40	
4-Chloro-3-methylphenol	4.12	1.0	0.057	mg/kg	5.00	82.3	61-108	10.5	40	
4-Nitrophenol	3.49	10	0.025	mg/kg	5.00	69.7	21-117	7.44	40	J
Acenaphthene	2.77	1.0	0.087	mg/kg	3.33	83.0	54-108	7.97	40	
Isophorone	3.13	1.0	0.11	mg/kg	3.33	94.0	55-119	6.08	40	
N-Nitrosodi-n-propylamine	2.76	1.0	0.13	mg/kg	3.33	82.8	52-104	7.81	40	
Pentachlorophenol	3.87	10	0.038	mg/kg	5.00	77.4	41-115	7.92	40	J
Phenol	3.60	1.0	0.13	mg/kg	5.00	72.0	21-124	10.2	40	
Pyrene	3.02	1.0	0.073	mg/kg	3.33	90.5	66-108	9.15	40	
Surrogate:	4.2		mg/kg	5.00		84.7	32-146			
2,4,6-Tribromophenol										
Surrogate: 2-Fluorobiphenyl	3.1		mg/kg	3.33		92.2	27-117			
Surrogate: 2-Fluorophenol	3.5		mg/kg	5.00		70.4	21-96			
Surrogate: 4-Terphenyl-d14	3.5		mg/kg	3.33		104	49-126			
Surrogate: Nitrobenzene-d5	2.8		mg/kg	3.33		84.6	36-110			
Surrogate: Phenol-d6	4.2		mg/kg	5.00		83.5	28-112			
Matrix Spike (6I06085-MS1) Source: B6H3003-05 Prepared: 09/06/16 Analyzed: 09/07/16										
1,2,4-Trichlorobenzene	2.27	1.0	0.17	mg/kg	3.33	ND	68.0	28-90		
1,4-Dichlorobenzene	2.12	1.0	0.16	mg/kg	3.33	ND	63.5	27-88		
2,4-Dichlorophenol	3.72	1.0	0.12	mg/kg	5.00	ND	74.4	22-100		
2,4-Dimethylphenol	3.74	1.0	0.13	mg/kg	5.00	ND	74.8	20-100		
2,4-Dinitrotoluene	2.36	1.0	0.039	mg/kg	3.33	ND	70.9	25-110		
2-Chlorophenol	3.40	1.0	0.15	mg/kg	5.00	ND	68.0	20-98		
4-Chloro-3-methylphenol	3.85	1.0	0.057	mg/kg	5.00	ND	77.1	24-116		
4-Nitrophenol	3.08	10	0.025	mg/kg	5.00	ND	61.6	19-110		J
Acenaphthene	2.65	1.0	0.087	mg/kg	3.33	ND	79.6	38-102		
Isophorone	2.83	1.0	0.11	mg/kg	3.33	ND	84.8	26-112		

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Analytical Report: Page 55 of 57

Project Name: CRWQCB -IFB #15-025-160

Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes

Temp: 9 °C

Semivolatile Organic Compounds by EPA 8270C - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6I06085 - EPA 3550B										
Matrix Spike (6I06085-MS1)		Source: B6H3003-05			Prepared: 09/06/16		Analyzed: 09/07/16			
N-Nitrosodi-n-propylamine	2.48	1.0	0.13	mg/kg	3.33	ND	74.5	31-96		
Pentachlorophenol	3.45	10	0.038	mg/kg	5.00	ND	69.1	12-112		J
Phenol	3.17	1.0	0.13	mg/kg	5.00	ND	63.5	25-102		
Pyrene	3.00	1.0	0.073	mg/kg	3.33	ND	90.1	54-103		
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.0			mg/kg	5.00		81.0	32-146		
<i>Surrogate: 2-Fluorobiphenyl</i>	2.8			mg/kg	3.33		85.1	27-117		
<i>Surrogate: 2-Fluorophenol</i>	3.5			mg/kg	5.00		70.0	21-96		
<i>Surrogate: 4-Terphenyl-d14</i>	3.3			mg/kg	3.33		99.3	49-126		
<i>Surrogate: Nitrobenzene-d5</i>	2.4			mg/kg	3.33		73.3	36-110		
<i>Surrogate: Phenol-d6</i>	3.7			mg/kg	5.00		74.4	28-112		
Matrix Spike Dup (6I06085-MSD1)		Source: B6H3003-05			Prepared: 09/06/16		Analyzed: 09/07/16			
1,2,4-Trichlorobenzene	2.42	1.0	0.17	mg/kg	3.33	ND	72.6	28-90	6.63	40
1,4-Dichlorobenzene	2.26	1.0	0.16	mg/kg	3.33	ND	67.9	27-88	6.60	40
2,4-Dichlorophenol	3.91	1.0	0.12	mg/kg	5.00	ND	78.3	22-100	5.08	40
2,4-Dimethylphenol	3.89	1.0	0.13	mg/kg	5.00	ND	77.8	20-100	3.90	40
2,4-Dinitrotoluene	2.55	1.0	0.039	mg/kg	3.33	ND	76.6	25-110	7.75	40
2-Chlorophenol	3.63	1.0	0.15	mg/kg	5.00	ND	72.5	20-98	6.45	40
4-Chloro-3-methylphenol	4.06	1.0	0.057	mg/kg	5.00	ND	81.3	24-116	5.32	40
4-Nitrophenol	3.47	10	0.025	mg/kg	5.00	ND	69.3	19-110	11.8	40 J
Acenaphthene	2.67	1.0	0.087	mg/kg	3.33	ND	80.1	38-102	0.676	40
Isophorone	2.95	1.0	0.11	mg/kg	3.33	ND	88.6	26-112	4.34	40
N-Nitrosodi-n-propylamine	2.58	1.0	0.13	mg/kg	3.33	ND	77.5	31-96	3.95	40
Pentachlorophenol	3.67	10	0.038	mg/kg	5.00	ND	73.5	12-112	6.17	40 J
Phenol	3.26	1.0	0.13	mg/kg	5.00	ND	65.2	25-102	2.67	40
Pyrene	3.06	1.0	0.073	mg/kg	3.33	ND	91.7	54-103	1.78	40
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.2			mg/kg	5.00		83.8	32-146		
<i>Surrogate: 2-Fluorobiphenyl</i>	3.0			mg/kg	3.33		89.5	27-117		
<i>Surrogate: 2-Fluorophenol</i>	3.9			mg/kg	5.00		78.0	21-96		
<i>Surrogate: 4-Terphenyl-d14</i>	3.5			mg/kg	3.33		104	49-126		
<i>Surrogate: Nitrobenzene-d5</i>	2.7			mg/kg	3.33		81.9	36-110		
<i>Surrogate: Phenol-d6</i>	3.8			mg/kg	5.00		76.5	28-112		



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Client Name: Regional WQCB, Lahontan Tahoe Office
Contact: Rebecca Phillips
Address: 2501 Lake Tahoe Boulevard
Lake Tahoe, CA 96150

Analytical Report: Page 56 of 57
Project Name: CRWQCB -IFB #15-025-160
Project Number: CGR Olancha, Olancha CA

Work Order Number: B6H3003

Report Date: 13-Sep-2016

Received on Ice (Y/N): Yes Temp: 9 °C

Notes and Definitions

- J Estimated value
- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- PbIkJ The analyte was detected in the Method Blank at a concentration between the MDL and the MRL.
- QBfil Method blank was filtered prior to processing.
- QFnt The referenced sample did not require this QC analyte, so a follow-up is not needed.
- QFspk Apparent spike preparation error - spiking mixture prepared incorrectly, not added to the sample, incorrect amount added or incorrect pH adjustment.
- QMout MS and/or MSD recovery did not meet laboratory acceptance criteria.
- QMSD The MS recovery and MS/MSD RPD met laboratory acceptance criteria. MSD recovery was not within range. MSD performed to assess precision data only.
- QOcal The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- QRPDa Both percent recoveries were acceptable, however, the RPD result was above laboratory acceptance criteria.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / "" : NELAP does not offer accreditation for this analyte/method/matrix combination



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Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

cc:

e-MDL_No Alias.rpt

