



**Pacific Gas and
Electric Company®**

Diablo Canyon Power Plant
P. O. Box 56
Avila Beach, CA 93424

PG&E Letter DCL-2017-500

Electronic Submission
CIWQS Web Application

January 20, 2017

California Regional Water Quality Control Board
Central Coast Region
Attn: Monitoring and Reporting Review Section
895 Aerovista, Suite #101
San Luis Obispo, CA 93401-7906

In accordance with Order 90-09, NPDES No. CA0003751, the 4th Quarter 2016 report on Discharge Self-Monitoring at Diablo Canyon Power Plant (DCPP) is provided. This letter and accompanying report summary has been attached to the State CIWQS application data submittal (eSMR). State DMR Forms are additionally incorporated in the CIWQS electronic data submittal (eDMR).

Facility Name: Pacific Gas & Electric Company
Diablo Canyon Power Plant

Address: P.O. Box 56
Avila Beach, CA 93424

Contact Person: Bryan Cunningham
Job Title: Supervisor, Environmental Operations
Phone Number: (805) 545-4439

WDR/NPDES Order Number: Order No. 90-09, NPDES No. CA0003751

Type of Report: (check one)

QUARTERLY

ANNUAL



Quarter: (check one):

1st

2nd

3rd

4th



Year:

2016 (Annual Reports for **DCPP** are Jan-Dec)

Violation(s) (Place an X by the appropriate choice):



No (there are no violations to report)



Yes

Note: Reference Item 5 of Overview Section regarding an exceedence of the calculated California Ocean Plan limit for Total Residual Chlorine (TRC) at Discharge Outfall 001 during Unit-1 conduit treatment.

IEZS
NR R

If Yes is marked (complete a-g):

a) Parameter(s) in Violation:

**b) Section(s) of WDR/NPDES
Violated:**

c) Reported Value(s):

**d) WDR/NPDES
Limit/Condition:**

e) Dates of Violation(s):
(reference page of report/data sheet)

(If "YES", see overview section of attached report)

f) Explanation of Cause(s):
(attach additional information as needed)

(If "YES", see overview section of attached report)

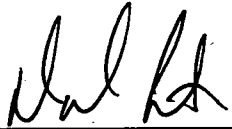
g) Corrective Action(s):
(attach additional information as needed)

(If "YES", see overview section of attached report)

I certify under penalty of law that this document, the CIWQS data submittal, and all associated attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. The results of the influent and effluent monitoring presented are the observed results of the measurements and analyses required by the monitoring program, and is neither an assertion of the adequacy of any instrument reading or analytical result, nor an endorsement of the appropriateness of any analytical or measurement procedure. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or concerns regarding the report provided, or require additional information, please contact Bryan Cunningham at (805) 545-4439.

Sincerely,



1/19/17

Name: David Cortina

Title: Manager, Chemistry and Environmental Operations – Diablo Canyon Power Plant

PG&E Letter DCL-2017-500
CRWQCB Central Coast Region
January 20, 2017
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cc: PDF Formatted Copy of CIWQS Application Submittal:

Regional Administrator
Licensing Assistant, Operations Branch
U.S. Nuclear Regulatory Commission
Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511

Hardcopy Print-Out of CIWQS Application Submittal:

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Chris Newport
NRC Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Diablo Canyon Power Plant 104/5

PACIFIC GAS AND ELECTRIC COMPANY

Fourth Quarter 2016

REPORT ON DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT

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OVERVIEW

1. During the fourth quarter of 2016, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001L, 001N, 001P, 002, 003, 004, and 005 through 015. No discharges occurred from Discharge Paths 001I, 001J, 001K, 001M, 016 and 017. A list of all of the permit discharge pathways, including name and number, is provided in **Appendix 1**.
2. The substances listed in Table B of the California Ocean Plan were each analyzed for and reported in the permit renewal application and application updates for Diablo Canyon Power Plant (DCPP) submitted in 1994, 2001, and 2011. There have been no changes in activities conducted at the plant that would have significantly affected the results previously reported in the above referenced documents. Ocean Plan Table B substances not analyzed for this quarter were not added to any plant discharge streams.
3. Required annual reporting parameter for pathway 001N Sludge Monitoring – quantity (during removal). Approximately 48-tons of water-saturated sludge was removed from the Diablo Canyon Waste Water Treatment Unit in October 2016. The solid fraction of this material was measured at 0.9%, making the solid fraction 0.4-tons.
4. During the fourth quarter of 2016, maintenance activities that required draining of closed cooling water systems were performed, and are summarized below. PG&E received concurrence from the CCRWQCB in response to letters dated July 19, 1995 (PG&E Letter DCL-95-156), May 23, 1996 (PG&E Letter DCL-96-522), and May 19, 1997 (PG&E Letter DCL-97-533) regarding the use of glutaraldehyde and isothiazolin to control microbiological growth and corrosion in DCPP's closed cooling water systems. Discharges are drained at a flow rate such that the chronic toxicity level remains below the "No Observable Effect Concentration" (NOEC) at NPDES Discharge 001.

Date	System	Volume (gallons)	Glutaraldehyde (mg/l)	Isothiazolin (mg/l as Cl')	Total Suspended Solids (mg/l)	Oil & Grease (mg/l)
11/15/16	Unit-2 CCW	2,700	99	0	< 2.0	< 1.4

5. On December 02, 2016, a brief Total Residual Chlorine (TRC) spike occurred on the Unit-1 outfall monitor at the start of the routine 04:00 chemical treatment cycle. The resultant monitored peak value was 142-ppb TRC for Discharge 001, an exceedance of the 89-ppb calculated Ocean Plan limit for TRC discharge during a 20-minute cooling water conduit chlorination treatment. The event was not an exceedance of the 200-ppb NPDES permit limit for TRC.

Regional Water Quality Control Board staff (von Langen) was notified of the event via voice-mail message on Monday December 05, 2016 following evaluation of chlorine injection system monitoring data and confirmation that an exceedance had occurred.

Review of injection system operations, including associated condenser waterbox and discharge outfall chlorine monitor data, determined that an excessive concentration of chemical had been injected into seawater Conduit 1-1 during the scheduled treatment cycle. Chemical treatment to Conduit 1-1 was subsequently suspended pending determination of the cause.

An investigation of chemical skid equipment conditions in conjunction with system testing determined cause of the excessive injection was failure of a sodium hypochlorite supply isolation valve to fully-close during system flushing. Failure of the isolation valve

resulted in concentrated sodium hypochlorite instead of deionized water being pumped into the chemical line leading to the 1-1 Conduit during the water flushing phase of pump skid operations at the end of the prior injection cycle. The 1-1 Conduit chemical line had therefore effectively been flushed-out and laid-up with concentrated sodium hypochlorite instead of water. At the start of the subsequent treatment cycle at 04:00 on December 02, the sodium hypochlorite in the line was injected into the 1-1 Conduit resulting in a brief excessive concentration of chemical in the seawater flow. This in turn resulted in an excessive residual chlorine concentration at the Unit-1 outfall during the treatment cycle.

Corrective action involved replacement of the identified faulty sodium hypochlorite supply line isolation valve. Subsequent system testing and operation determined the valve replacement adequately resolved this equipment-related issue.

6. Two events affected the results of continuous chlorine monitoring at Discharge 001 during the fourth quarter 2016. For these events, engineering evaluations were subsequently completed as authorized by the Regional Board in accordance with PG&E's January 5, 1994 letter. The engineering evaluations were based on condenser water box chlorine measurements, recorded chemical injection rates, circulating water pump status, and discharge chlorine readings before and after the period in question. Based on these factors, estimates for results during the affected periods were generated. The event intervals, affected monitor, number of affected results, the cause(s), and corrective action(s) have been tabulated below. Results from the engineering evaluations were all below the applicable 89-µg/L discharge limit.

Interval	Affected Monitor	Affected Readings	Cause	Corrective Actions
10/26/16 to 11/02/16	Unit-2	16	Low monitor response during QC-check.	Monitor recalibrated.
11/16/16 to 11/23/16	Unit-1	39	High monitor response during QC-check.	Monitor recalibrated.

SUMMARY OF MONITORING PROGRAM

A. Monitoring of Plant Influent and Effluent

1. The results of the October, November, and December 2016 plant influent and effluent monitoring have been reported via the CIWQS web application to which this letter is attached.
2. The laboratory report for one acute bioassay on water sampled from Discharge 001, performed December 21st through December 25th, 2016, is attached to the CIWQS application submittal. The acute bioassay results show that toxicity was 0.0 TUa (no acute toxicity).

Note: The 0.0 TUa value is not included in the CIWQS application spreadsheet as the formatting of the data spreadsheet does not accommodate zero value entries.

3. The laboratory report for one chronic bioassay on water sampled from Discharge 001, performed December 20th through December 22nd, 2016. The chronic bioassay results show that toxicity was 1.00 TUc (no chronic toxicity).

B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

Ecological studies in the vicinity of Diablo Cove conducted during the fourth quarter continued under the Diablo Canyon Receiving Water Monitoring Program (RWMP) as requested in a letter from the Central Coast Regional Water Quality Control Board (CCRWQCB) dated December 9, 1998, and as detailed in a letter (PG&E Letter DCL-99-503) dated January 8, 1999. This program includes tasks from the Ecological Monitoring Program (EMP) with additional stations and increased sampling frequencies. The RWMP replaces the EMP and the Thermal Effects Monitoring Program (TEMP).

2. In Situ Bioassay

Results of the Mussel Watch Program will be reported to the CCRWQCB directly from the California Department of Fish and Wildlife (CDF&W) in the Department's periodic report for this program.

C. Sodium Bromide Treatment Program

Diablo Canyon Power Plant is continuing the use of sodium bromide and sodium hypochlorite to control macrofouling growth for both Units. Both circulating water conduits of each Unit can be chemically treated simultaneously. Each treated conduit typically receives a twenty-minute injection every four hours (six injections a day) of sodium bromide in combination with sodium hypochlorite.

Each chemical injection treatment attempts to achieve a target concentration in the range of 250-300 parts per billion (ppb) Total Residual Oxidant (TRO) when measured at the inlet waterbox of the condenser. Discharge TRO concentrations measured at the plant outfall remained below NPDES permit limitations and the calculated Ocean Plan limit throughout the quarter, with exception of an equipment-related event in December that resulted in one calculated Ocean Plan limit exceedance for Unit-1 during treatment (Reference Item 5 of Overview Section).

Both conduits of Unit 1 were treated with simultaneous injections of sodium bromide and sodium hypochlorite six times a day throughout the majority of the fourth quarter. However, several extended interruptions in conduit treatment occurred due to planned or emergent system maintenance activities and equipment upgrades. In October, Unit-1 conduit treatment was suspended for approximately one-week leading into and during a scheduled seawater conduit cleaning curtailment. Conduit treatment to both units was also suspended for several days during November due to an equipment maintenance clearance.

Conduit 1-1 treatment was suspended for approximately one week in December to evaluate the cause and implement corrective actions following an excessive chemical injection event (Reference Item 5 of Overview Section). Treatment of both unit main seawater conduits was additionally suspended twice for several days during December to facilitate scheduled equipment upgrade and replacement activities at the intake chemical injection skid.

Both conduits of Unit-2 were treated with simultaneous injections of sodium bromide and sodium hypochlorite six times a day throughout the majority of the fourth quarter. Conduit treatment to both units was suspended for several days during November due to an equipment maintenance clearance. Treatment of both unit main seawater conduits was additionally suspended twice for several days during December to facilitate scheduled equipment upgrade and replacement activities at the intake chemical injection skid.

APPENDIX 1

DIABLO CANYON POWER PLANT

NPDES DISCHARGE POINTS	
DISCHARGE NUMBER	DESCRIPTION
001	Once-Through Cooling Water
001 A	Firewater Systems
001 B	Auxiliary Salt Water Cooling System
001 C	Discharge Deleted
001 D	Liquid Radioactive Waste Treatment System
001 E	Service Cooling Water System
001 F	Turbine Building Sump
001 G	Make-Up Water System Waste Effluent
001 H	Condensate Demineralizer Regenerant
001 I	Seawater Evaporator Blowdown
001 J	Condensate Pumps Discharge Header Overboard
001 K	Condenser Tube Sheet Leak Detection Dump Tank Overboard
001 L	Steam Generator Blowdown
001 M	Wastewater Holding and Treatment System
001 N	Sanitary Wastewater Treatment System
001 P	Seawater Reverse Osmosis System Blowdown
002	Intake Structure Building Floor Drains
003	Intake Screen Wash
004	Bio Lab and Storm Water Runoff
005, 008, 009, 013, 014, 015	Yard Storm Drains
006, 007, 010, 011, 012	Storm Water Runoff
016	Bio Lab Seawater Supply Pump Valve Drain
017	Seawater Reverse Osmosis System Blowdown Drain

CIWQS Web Application Submittal Print Out and Attached Supporting Documents

eSMR PDF Report

Summary: Quarterly SMR (MONNPDES) report for Q4 2016

Summary: Quarterly SMR (MONNPDES) report for Q4 2016 submitted by david cortina (Chemistry and Environmental Services Manager) on

Facility Name: PG&E Diablo Canyon Power Plant
Waterboard Office: Region 3 - Central Coast
Report Effective Dates: 10/01/2016 - 12/31/2016

Order Number: R3-1990-0009
Case Worker: Peter Von Langen

No Discharge Periods

Name	Description	Dates	Comments
Diablo M-001			
Diablo M-001D			
Diablo M-001F			
Diablo M-001G			
Diablo M-001H			
Diablo M-001I		10/01/2016 - 12/31/2016	Plant Seawater Evaporators no longer in service.
Diablo M-001J		10/01/2016 - 12/31/2016	Condensate Pump Discharge Header not drained during 4Q16. No effluent discharged.
Diablo M-001K		10/01/2016 - 12/31/2016	Plant Condenser Tube Sheet Leak Detection Dump Tank no longer in service.
Diablo M-001L			
Diablo M-001M		10/01/2016 - 12/31/2016	Waste Holding and Treatment System (WHAT) not discharged during 4Q16. Discharge is intermittent, used as required.
Diablo M-001N			
Diablo M-001P			
Diablo M-002			
Diablo M-003			
Diablo M-004			
Diablo M-005			
Diablo M-008			
Diablo M-009			
Diablo M-013			
Diablo M-015			
Diablo M-016		10/01/2016 - 12/31/2016	Bio Lab Seawater Supply Line Valve Box not drained during 4Q16. No effluent discharged.
Diablo M-017		10/01/2016 - 12/31/2016	Seawater RO System Blowdown Line not drained during 4Q16. Discharge rarely used.
Diablo M-INF			

Self-Determined Violations

No Violations Entered

Attachments

File Name	File Description	Date Uploaded	File Size
Attachment 1 - 2016 4th Qtr DCP NPDES Worksheets.pdf	Excel workbook showing calculations of all averaged results being reported for period.	01/19/2017	258950 bytes
Attachment 2 - 2016 4th Qtr DCP NPDES Contract Lab Results.pdf	Contract lab results for period.	01/19/2017	4960291 bytes

Cover Letter (Uploaded File)

Title	Date Uploaded	File Size
PGE DCL2017500 4th-Q 2016 DSMR Summary.pdf	01/20/2017	2169879 bytes

Data Summary

Analytical Results

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Ammonia, Total (as N) A4500NH	10/04/2016 10:07:00 10/14/2016	- 1 -	= 0.15 mg/L	- - -	No - -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Arsenic, Total E200.8	10/19/2016 08:25:00 11/14/2016	- 1 -	= 1.28 ug/L	- - -	No - -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Cadmium, Total E200.8	10/19/2016 08:25:00 11/14/2016	- 1 -	= 0.044 ug/L	- - -	No - -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Chromium (Total) DU	10/04/2016 10:07:00 10/26/2016	- 1 -	ND ug/L	5 - -	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Chromium (Total) DU	11/03/2016 09:45:00 11/17/2016	- 1 -	ND ug/L	5 - -	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Chromium (Total) DU	12/08/2016 10:15:00 12/12/2016	- 1 -	ND ug/L	5 - -	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Chronic Toxicity DU	12/20/2016 10:45:00 12/21/2016	- 1 -	= 1 TUc	- - -	No - -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Copper, Total DU	11/03/2016 09:45:00 11/17/2016	- 1 -	= 9.9 ug/L	- - -	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Copper, Total DU	10/04/2016 10:07:00 10/27/2016	- 1 -	DNQ 9 ug/L	5 - 10	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Copper, Total DU	12/08/2016 10:15:00 12/12/2016	- 1 -	DNQ 9.3 ug/L	5 - 10	No - -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Cyanide, Total (as CN) E335.4	10/19/2016 08:25:00 10/24/2016	- 1 -	ND mg/L	.0009 - -	No - -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Lead, Total E200.8	10/19/2016 08:25:00 11/14/2016	- 1 -	= 0.056 ug/L	- - -	No - -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Mercury, Total E1631	10/19/2016 08:25:00 10/25/2016	- 1 -	DNQ 0.47 ng/L	.06 - .5	No - -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Nickel, Total DU	10/04/2016 10:07:00 10/26/2016	- 1 -	ND ug/L	5 - -	No - -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Nickel, Total DU	11/03/2016 09:45:00 11/17/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Nickel, Total DU	12/08/2016 10:15:00 12/12/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1016 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1221 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1232 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1242 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1248 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1254 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	PCB-1260 SW8082	10/19/2016 08:25:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	pH A4500HB	10/04/2016 10:07:00 10/04/2016	- 1 -	= 7.9 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	pH A4500HB	11/03/2016 09:45:00 11/03/2016	- 1 -	= 8.08 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	pH A4500HB	12/08/2016 10:15:00 12/08/2016	- 1 -	= 8.02 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Phenols, Chlorinated DU	10/19/2016 08:25:00 11/01/2016	- 1 -	ND ug/L	.57 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Phenols, Non-chlorinated DU	10/19/2016 08:25:00 11/01/2016	- 1 -	ND ug/L	3.03 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Silver, Total E200.8	10/19/2016 08:25:00 11/14/2016	- 1 -	ND ug/L	.004 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Titanium, Total DU	10/19/2016 08:25:00 11/18/2016	- 1 -	ND ug/L	.4 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Zinc, Total DU	10/04/2016 10:07:00 10/27/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Zinc, Total DU	11/03/2016 09:45:00 11/17/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Zinc, Total DU	12/08/2016 10:15:00 12/12/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001D	-	- water	Boron, Total DU	10/04/2016 15:10:00 10/26/2016	- 1 -	= 1580 mg/L	- -	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-001D	-	- water	Hydrazine DU	10/04/2016 15:10:00 10/12/2016	- 1 -	ND ug/L	3 -	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-001D	-	- water	Lithium, Total DU	10/04/2016 15:10:00 10/27/2016	- 1 -	= 826 ug/L	- -	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-001F	-	- water	Oil and Grease E1664A	12/01/2016 07:37:00 12/01/2016	- 1 -	= 5.3 mg/L	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001F	-	- water	Oil and Grease E1664A	10/03/2016 16:00:00 10/18/2016	- 1 -	DNQ 3 mg/L	1.4 - 5	No -		CDF_Analytical_Calculated_01202017.zip
M-001F	-	- water	Oil and Grease E1664A	11/03/2016 07:20:00 11/17/2016	- 1 -	DNQ 2.4 mg/L	1.4 - 5	No -		CDF_Analytical_Calculated_01202017.zip
M-001G	-	- water	Oil and Grease E1664A	10/06/2016 10:55:00 10/27/2016	- 1 -	ND mg/L	1.4 -	No -		CDF_Analytical_Calculated_01202017.zip
M-001G	-	- water	Total Suspended Solids (TSS) A2540D	10/06/2016 10:55:00 10/06/2016	- 1 -	ND mg/L	2 -	No -		CDF_Analytical_Calculated_01202017.zip
M-001G	-	- water	Total Suspended Solids (TSS) A2540D	11/09/2016 12:00:00 11/09/2016	- 1 -	ND mg/L	2 -	No -		CDF_Analytical_Calculated_01202017.zip
M-001G	-	- water	Total Suspended Solids (TSS) A2540D	12/07/2016 09:20:00 12/07/2016	- 1 -	ND mg/L	2 -	No -		CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Ammonia, Total (as N) A4500NH	10/17/2016 10:30:00 10/19/2016	- 1 -	= 7300 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Boron, Total SW6010B	10/17/2016 10:30:00 10/25/2016	- 1 -	= 180 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Cadmium, Total SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 1.6 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Chromium (Total) SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 9.4 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Copper, Total SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 430 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Lead, Total SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 7.1 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Mercury, Total SW7471A	10/17/2016 10:30:00 10/25/2016	- 1 -	= 0.23 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Nickel, Total SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 11 mg/Kg	- -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001N	-	- water	Nitrate, Total (as N) E300.0	10/17/2016 10:30:00 10/26/2016	- 1 -	ND mg/Kg	110 -	No -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001N	- -	- water	Oil and Grease DU	11/01/2016 09:25:00 11/10/2016	- 1 -	ND mg/Kg	97000 - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	pH A4500HB	10/17/2016 10:30:00 10/20/2016	- 1 -	= 7 SU	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Phosphorus, Total (as P) E200.8	10/17/2016 10:30:00 10/25/2016	- 1 -	= 26000 mg/Kg	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Kjeldahl Nitrogen (TKN) (as N) E351.2	10/17/2016 10:30:00 10/25/2016	- 1 -	= 76000 mg/Kg	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Solids (TS) DU	11/01/2016 09:25:00 11/04/2016	- 1 -	= 9.6 ppth	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Solids (TS) A2540B	10/17/2016 10:30:00 10/25/2016	- 1 -	= 9600 mg/L	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Zinc, Total SW6020	10/17/2016 10:30:00 10/25/2016	- 1 -	= 740 mg/Kg	- - -	No - -	Ann'l sludge-See Attachment 2 Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	Oil and Grease E1664A	10/10/2016 10:20:00 10/27/2016	- 1 -	ND mg/L	1.4 - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	Oil and Grease E1664A	10/06/2016 09:30:00 10/27/2016	- 1 -	ND mg/L	1.4 - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	pH A4500HB	10/06/2016 09:30:00 10/06/2016	- 1 -	= 7.97 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	pH A4500HB	11/10/2016 12:20:00 11/10/2016	- 1 -	= 8.003 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	pH A4500HB	12/05/2016 13:15:00 12/05/2016	- 1 -	= 8.02 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	Total Suspended Solids (TSS) A2540D	11/10/2016 12:20:00 11/10/2016	- 1 -	= 6.1 mg/L	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	Total Suspended Solids (TSS) A2540D	10/06/2016 09:30:00 10/06/2016	- 1 -	DNQ 3 mg/L	2 - 5	No - -		CDF_Analytical_Cal culated_01202017. zip
M-002	- -	- water	Total Suspended Solids (TSS) A2540D	12/05/2016 13:15:00 12/05/2016	- 1 -	DNQ 3.3 mg/L	2 - 5	No - -		CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	Oil and Grease E1664A	10/06/2016 09:10:00 10/27/2016	- 1 -	ND mg/L	1.4 - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	pH A4500HB	10/06/2016 09:10:00 10/06/2016	- 1 -	= 7.92 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	pH A4500HB	11/07/2016 12:47:00 11/07/2016	- 1 -	= 8.07 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	pH A4500HB	12/05/2016 13:00:00 12/05/2016	- 1 -	= 8.04 SU	- - -	No - -		CDF_Analytical_Cal culated_01202017. zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Oil and Grease E1664A	10/06/2016 09:45:00 10/27/2016	- 1 -	ND mg/L	1.4 - -	No -		CDF_Analytical_Calculated_01202017.zip
M-004	- -	- water	pH A4500HB	10/06/2016 09:45:00 10/06/2016	- 1 -	= 7.94 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-004	- -	- water	pH A4500HB	11/07/2016 13:00:00 11/07/2016	- 1 -	= 8.04 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-004	- -	- water	pH A4500HB	12/07/2016 08:45:00 12/07/2016	- 1 -	= 7.92 SU	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-005	- -	- water	Oil and Grease E1664A	10/28/2016 11:50:00 11/09/2016	- 1 -	ND mg/L	1.4 - -	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-008	- -	- water	Oil and Grease E1664A	10/28/2016 10:40:00 11/09/2016	- 1 -	DNQ 2.1 mg/L	1.4 - 5	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-009	- -	- water	Oil and Grease E1664A	10/28/2016 09:15:00 11/09/2016	- 1 -	DNQ 1.6 mg/L	1.4 - 5	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-013	- -	- water	Oil and Grease E1664A	10/28/2016 11:30:00 11/09/2016	- 1 -	ND mg/L	1.4 - -	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-015	- -	- water	Oil and Grease E1664A	10/28/2016 11:15:00 11/09/2016	- 1 -	DNQ 2.3 mg/L	1.4 - 5	No -	Annual analysis.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Ammonia, Total (as N) A4500NH	10/04/2016 09:55:00 10/14/2016	- 1 -	= 0.19 mg/L	- - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Arsenic, Total E200.8	10/19/2016 08:15:00 11/14/2016	- 1 -	= 1.31 ug/L	- - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Cadmium, Total E200.8	10/19/2016 08:15:00 11/14/2016	- 1 -	= 0.052 ug/L	- - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Cyanide, Total (as CN) E335.4	10/19/2016 08:15:00 10/24/2016	- 1 -	ND mg/L	.0009 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Lead, Total E200.8	10/19/2016 08:15:00 11/14/2016	- 1 -	= 0.077 ug/L	- - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Mercury, Total E1631	10/19/2016 08:15:00 10/25/2016	- 1 -	DNQ 0.34 ng/L	.06 - .5	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	PCB-1016 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	PCB-1221 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	PCB-1232 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	PCB-1242 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 - -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	-	- water	PCB-1248 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	PCB-1254 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	PCB-1260 SW8082	10/19/2016 08:15:00 10/29/2016	- 1 -	ND ug/L	.0094 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	pH A4500H	10/04/2016 09:55:00 10/04/2016	- 1 -	= 7.87 SU	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	pH A4500H	11/03/2016 09:33:00 11/03/2016	- 1 -	= 8.07 SU	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	pH A4500H	12/08/2016 10:05:00 12/08/2016	- 1 -	= 8 SU	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	Phenols, Chlorinated DU	10/19/2016 08:15:00 11/01/2016	- 1 -	ND ug/L	.57 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	Phenols, Non-chlorinated DU	10/19/2016 08:15:00 11/01/2016	- 1 -	ND ug/L	3.03 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	Silver, Total E200.8	10/19/2016 08:15:00 11/14/2016	- 1 -	DNQ 0.018 ug/L	.004 -.02	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip
M-INF	-	- water	Titanium, Total DU	10/19/2016 08:15:00 11/18/2016	- 1 -	ND ug/L	.4 -	No -	Annual. See Attachment 2, Contract Lab Report.	CDF_Analytical_Calculated_01202017.zip

Calculated Values

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	-	- water	Chlorine Usage 30-Day Avg of Daily Avgs	10/01/2016 00:00:00 10/31/2016	- 1 -	= 690 lb/day	- -	No -	Monthly avg result. See Attachment 1, Tab 2	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Chlorine Usage 30-Day Avg of Daily Avgs	11/01/2016 00:00:00 11/30/2016	- 1 -	= 668 lb/day	- -	No -	Monthly avg result. See Attachment 1, Tab 3	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Chlorine Usage 30-Day Avg of Daily Avgs	12/01/2016 00:00:00 12/31/2016	- 1 -	= 372 lb/day	- -	No -	Monthly avg result. See Attachment 1, Tab 4	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Chlorine, Total Residual 30-Day Avg of Daily Maxs	10/01/2016 00:00:00 10/31/2016	- 1 -	= 13 ug/L	- -	No -	Monthly avg result. See Attachment 1, Tab 2	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Chlorine, Total Residual 30-Day Avg of Daily Maxs	11/01/2016 00:00:00 11/30/2016	- 1 -	= 15 ug/L	- -	No -	Monthly avg result. See Attachment 1, Tab 3	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Chlorine, Total Residual 30-Day Avg of Daily Maxs	12/01/2016 00:00:00 12/03/2016	- 1 -	= 23 ug/L	- -	No -	Monthly avg result. See Attachment 1, Tab 4	CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	10/01/2016 00:00:00 10/01/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	10/02/2016 00:00:00 10/02/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Flow Daily Discharge	10/03/2016 00:00:00 10/03/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/04/2016 00:00:00 10/04/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/05/2016 00:00:00 10/05/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/06/2016 00:00:00 10/06/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/07/2016 00:00:00 10/07/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/08/2016 00:00:00 10/08/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/09/2016 00:00:00 10/09/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/10/2016 00:00:00 10/10/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/11/2016 00:00:00 10/11/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/12/2016 00:00:00 10/12/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/13/2016 00:00:00 10/13/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/14/2016 00:00:00 10/14/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/15/2016 00:00:00 10/15/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/16/2016 00:00:00 10/16/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/17/2016 00:00:00 10/17/2016	- 1 -	= 2000 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/18/2016 00:00:00 10/18/2016	- 1 -	= 1891 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/19/2016 00:00:00 10/19/2016	- 1 -	= 1933 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/20/2016 00:00:00 10/20/2016	- 1 -	= 1874 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/21/2016 00:00:00 10/21/2016	- 1 -	= 1874 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Flow Daily Discharge	10/22/2016 00:00:00 10/22/2016	- 1 -	= 2450 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/23/2016 00:00:00 10/23/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/24/2016 00:00:00 10/24/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/25/2016 00:00:00 10/25/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/26/2016 00:00:00 10/26/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/27/2016 00:00:00 10/27/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/28/2016 00:00:00 10/28/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/29/2016 00:00:00 10/29/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/30/2016 00:00:00 10/30/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	10/31/2016 00:00:00 10/31/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/01/2016 00:00:00 11/01/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/02/2016 00:00:00 11/02/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/03/2016 00:00:00 11/03/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/04/2016 00:00:00 11/04/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/05/2016 00:00:00 11/05/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/06/2016 00:00:00 11/06/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/07/2016 00:00:00 11/07/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/08/2016 00:00:00 11/08/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	11/09/2016 00:00:00 11/09/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	-	- water	Flow Daily Discharge	11/10/2016 00:00:00 11/10/2016	- 1 -	= 2192 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/11/2016 00:00:00 11/11/2016	- 1 -	= 2479 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/12/2016 00:00:00 11/12/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/13/2016 00:00:00 11/13/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/14/2016 00:00:00 11/14/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/15/2016 00:00:00 11/15/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/16/2016 00:00:00 11/16/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/17/2016 00:00:00 11/17/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/18/2016 00:00:00 11/18/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/19/2016 00:00:00 11/19/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/20/2016 00:00:00 11/20/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/21/2016 00:00:00 11/21/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/22/2016 00:00:00 11/22/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/23/2016 00:00:00 11/23/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/24/2016 00:00:00 11/24/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/25/2016 00:00:00 11/25/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/26/2016 00:00:00 11/26/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/27/2016 00:00:00 11/27/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/28/2016 00:00:00 11/28/2016	- 1 -	= 2486 MGD	- -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	-	- water	Flow Daily Discharge	11/29/2016 00:00:00 11/29/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	11/30/2016 00:00:00 11/30/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/01/2016 00:00:00 12/01/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/02/2016 00:00:00 12/02/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/03/2016 00:00:00 12/03/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/04/2016 00:00:00 12/04/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/05/2016 00:00:00 12/05/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/06/2016 00:00:00 12/06/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/07/2016 00:00:00 12/07/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/08/2016 00:00:00 12/08/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/09/2016 00:00:00 12/09/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/10/2016 00:00:00 12/10/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/11/2016 00:00:00 12/11/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/12/2016 00:00:00 12/12/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/13/2016 00:00:00 12/13/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/14/2016 00:00:00 12/14/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/15/2016 00:00:00 12/15/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/16/2016 00:00:00 12/16/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	-	- water	Flow Daily Discharge	12/17/2016 00:00:00 12/17/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Flow Daily Discharge	12/18/2016 00:00:00 12/18/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/19/2016 00:00:00 12/19/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/20/2016 00:00:00 12/20/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/21/2016 00:00:00 12/21/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/22/2016 00:00:00 12/22/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/23/2016 00:00:00 12/23/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/24/2016 00:00:00 12/24/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/25/2016 00:00:00 12/25/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/26/2016 00:00:00 12/26/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/27/2016 00:00:00 12/27/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/28/2016 00:00:00 12/28/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/29/2016 00:00:00 12/29/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/30/2016 00:00:00 12/30/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Flow Daily Discharge	12/31/2016 00:00:00 12/31/2016	- 1 -	= 2486 MGD	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/01/2016 00:00:00 10/01/2016	- 1 -	= 74.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/02/2016 00:00:00 10/02/2016	- 1 -	= 73.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/03/2016 00:00:00 10/03/2016	- 1 -	= 72.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/04/2016 00:00:00 10/04/2016	- 1 -	= 73.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/05/2016 00:00:00 10/05/2016	- 1 -	= 72.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature 24-hour Average	10/06/2016 00:00:00 10/06/2016	- 1 -	= 72.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/07/2016 00:00:00 10/07/2016	- 1 -	= 73.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/08/2016 00:00:00 10/08/2016	- 1 -	= 74.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/09/2016 00:00:00 10/09/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/10/2016 00:00:00 10/10/2016	- 1 -	= 74.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/11/2016 00:00:00 10/11/2016	- 1 -	= 74.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/12/2016 00:00:00 10/12/2016	- 1 -	= 75.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/13/2016 00:00:00 10/13/2016	- 1 -	= 75.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/14/2016 00:00:00 10/14/2016	- 1 -	= 75.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/15/2016 00:00:00 10/15/2016	- 1 -	= 76.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/16/2016 00:00:00 10/16/2016	- 1 -	= 77.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/17/2016 00:00:00 10/17/2016	- 1 -	= 78.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/18/2016 00:00:00 10/18/2016	- 1 -	= 76.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/19/2016 00:00:00 10/19/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/20/2016 00:00:00 10/20/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/21/2016 00:00:00 10/21/2016	- 1 -	= 76.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/22/2016 00:00:00 10/22/2016	- 1 -	= 74.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/23/2016 00:00:00 10/23/2016	- 1 -	= 75.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/24/2016 00:00:00 10/24/2016	- 1 -	= 76.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature 24-hour Average	10/25/2016 00:00:00 10/25/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/26/2016 00:00:00 10/26/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/27/2016 00:00:00 10/27/2016	- 1 -	= 76.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/28/2016 00:00:00 10/28/2016	- 1 -	= 77.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/29/2016 00:00:00 10/29/2016	- 1 -	= 78.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/30/2016 00:00:00 10/30/2016	- 1 -	= 78.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	10/31/2016 00:00:00 10/31/2016	- 1 -	= 78.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/01/2016 00:00:00 11/01/2016	- 1 -	= 78 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/02/2016 00:00:00 11/02/2016	- 1 -	= 77.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/03/2016 00:00:00 11/03/2016	- 1 -	= 76.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/04/2016 00:00:00 11/04/2016	- 1 -	= 77.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/05/2016 00:00:00 11/05/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/06/2016 00:00:00 11/06/2016	- 1 -	= 76.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/07/2016 00:00:00 11/07/2016	- 1 -	= 76.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/08/2016 00:00:00 11/08/2016	- 1 -	= 77.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/09/2016 00:00:00 11/09/2016	- 1 -	= 76.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/10/2016 00:00:00 11/10/2016	- 1 -	= 77.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/11/2016 00:00:00 11/11/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/12/2016 00:00:00 11/12/2016	- 1 -	= 77.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature 24-hour Average	11/13/2016 00:00:00 11/13/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/14/2016 00:00:00 11/14/2016	- 1 -	= 77.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/15/2016 00:00:00 11/15/2016	- 1 -	= 77.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/16/2016 00:00:00 11/16/2016	- 1 -	= 75.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/17/2016 00:00:00 11/17/2016	- 1 -	= 73.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/18/2016 00:00:00 11/18/2016	- 1 -	= 75 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/19/2016 00:00:00 11/19/2016	- 1 -	= 75.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/20/2016 00:00:00 11/20/2016	- 1 -	= 75.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/21/2016 00:00:00 11/21/2016	- 1 -	= 76.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/22/2016 00:00:00 11/22/2016	- 1 -	= 76.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/23/2016 00:00:00 11/23/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/24/2016 00:00:00 11/24/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/25/2016 00:00:00 11/25/2016	- 1 -	= 76.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/26/2016 00:00:00 11/26/2016	- 1 -	= 76.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/27/2016 00:00:00 11/27/2016	- 1 -	= 75.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/28/2016 00:00:00 11/28/2016	- 1 -	= 74.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/29/2016 00:00:00 11/29/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	11/30/2016 00:00:00 11/30/2016	- 1 -	= 73.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/01/2016 00:00:00 12/01/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature 24-hour Average	12/02/2016 00:00:00 12/02/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/03/2016 00:00:00 12/03/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/04/2016 00:00:00 12/04/2016	- 1 -	= 73.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/05/2016 00:00:00 12/05/2016	- 1 -	= 73.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/06/2016 00:00:00 12/06/2016	- 1 -	= 72.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/07/2016 00:00:00 12/07/2016	- 1 -	= 72.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/08/2016 00:00:00 12/08/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/09/2016 00:00:00 12/09/2016	- 1 -	= 74.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/10/2016 00:00:00 12/10/2016	- 1 -	= 74.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/11/2016 00:00:00 12/11/2016	- 1 -	= 74.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/12/2016 00:00:00 12/12/2016	- 1 -	= 73.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/13/2016 00:00:00 12/13/2016	- 1 -	= 74.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/14/2016 00:00:00 12/14/2016	- 1 -	= 74.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/15/2016 00:00:00 12/15/2016	- 1 -	= 74.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/16/2016 00:00:00 12/16/2016	- 1 -	= 74 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/17/2016 00:00:00 12/17/2016	- 1 -	= 72.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/18/2016 00:00:00 12/18/2016	- 1 -	= 72.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/19/2016 00:00:00 12/19/2016	- 1 -	= 73 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/20/2016 00:00:00 12/20/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature 24-hour Average	12/21/2016 00:00:00 12/21/2016	- 1 -	= 73 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/22/2016 00:00:00 12/22/2016	- 1 -	= 73.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/23/2016 00:00:00 12/23/2016	- 1 -	= 73 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/24/2016 00:00:00 12/24/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/25/2016 00:00:00 12/25/2016	- 1 -	= 72.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/26/2016 00:00:00 12/26/2016	- 1 -	= 72.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/27/2016 00:00:00 12/27/2016	- 1 -	= 72.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/28/2016 00:00:00 12/28/2016	- 1 -	= 72.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/29/2016 00:00:00 12/29/2016	- 1 -	= 73.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/30/2016 00:00:00 12/30/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature 24-hour Average	12/31/2016 00:00:00 12/31/2016	- 1 -	= 73.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Daily Maximum	10/01/2016 00:00:00 10/31/2016	- 1 -	= 78.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Daily Maximum	11/01/2016 00:00:00 11/30/2016	- 1 -	= 78 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Daily Maximum	12/01/2016 00:00:00 12/31/2016	- 1 -	= 74.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/01/2016 00:00:00 10/01/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/02/2016 00:00:00 10/02/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/03/2016 00:00:00 10/03/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/04/2016 00:00:00 10/04/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/05/2016 00:00:00 10/05/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature Delta from Background	10/06/2016 00:00:00 10/06/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/07/2016 00:00:00 10/07/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/08/2016 00:00:00 10/08/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/09/2016 00:00:00 10/09/2016	- 1 -	= 19.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/10/2016 00:00:00 10/10/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/11/2016 00:00:00 10/11/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/12/2016 00:00:00 10/12/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/13/2016 00:00:00 10/13/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/14/2016 00:00:00 10/14/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/15/2016 00:00:00 10/15/2016	- 1 -	= 19.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/16/2016 00:00:00 10/16/2016	- 1 -	= 19.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/17/2016 00:00:00 10/17/2016	- 1 -	= 19.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/18/2016 00:00:00 10/18/2016	- 1 -	= 19.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/19/2016 00:00:00 10/19/2016	- 1 -	= 19.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/20/2016 00:00:00 10/20/2016	- 1 -	= 19.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/21/2016 00:00:00 10/21/2016	- 1 -	= 19.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/22/2016 00:00:00 10/22/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/23/2016 00:00:00 10/23/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/24/2016 00:00:00 10/24/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature Delta from Background	10/25/2016 00:00:00 10/25/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/26/2016 00:00:00 10/26/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/27/2016 00:00:00 10/27/2016	- 1 -	= 18.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/28/2016 00:00:00 10/28/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/29/2016 00:00:00 10/29/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/30/2016 00:00:00 10/30/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	10/31/2016 00:00:00 10/31/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/01/2016 00:00:00 11/01/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/02/2016 00:00:00 11/02/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/03/2016 00:00:00 11/03/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/04/2016 00:00:00 11/04/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/05/2016 00:00:00 11/05/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/06/2016 00:00:00 11/06/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/07/2016 00:00:00 11/07/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/08/2016 00:00:00 11/08/2016	- 1 -	= 19.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/09/2016 00:00:00 11/09/2016	- 1 -	= 19.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/10/2016 00:00:00 11/10/2016	- 1 -	= 19.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/11/2016 00:00:00 11/11/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/12/2016 00:00:00 11/12/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature Delta from Background	11/13/2016 00:00:00 11/13/2016	- 1 -	= 19.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/14/2016 00:00:00 11/14/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/15/2016 00:00:00 11/15/2016	- 1 -	= 19.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/16/2016 00:00:00 11/16/2016	- 1 -	= 19.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/17/2016 00:00:00 11/17/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/18/2016 00:00:00 11/18/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/19/2016 00:00:00 11/19/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/20/2016 00:00:00 11/20/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/21/2016 00:00:00 11/21/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/22/2016 00:00:00 11/22/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/23/2016 00:00:00 11/23/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/24/2016 00:00:00 11/24/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/25/2016 00:00:00 11/25/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/26/2016 00:00:00 11/26/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/27/2016 00:00:00 11/27/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/28/2016 00:00:00 11/28/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/29/2016 00:00:00 11/29/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	11/30/2016 00:00:00 11/30/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/01/2016 00:00:00 12/01/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature Delta from Background	12/02/2016 00:00:00 12/02/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/03/2016 00:00:00 12/03/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/04/2016 00:00:00 12/04/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/05/2016 00:00:00 12/05/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/06/2016 00:00:00 12/06/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/07/2016 00:00:00 12/07/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/08/2016 00:00:00 12/08/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/09/2016 00:00:00 12/09/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/10/2016 00:00:00 12/10/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/11/2016 00:00:00 12/11/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/12/2016 00:00:00 12/12/2016	- 1 -	= 19.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/13/2016 00:00:00 12/13/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/14/2016 00:00:00 12/14/2016	- 1 -	= 19 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/15/2016 00:00:00 12/15/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/16/2016 00:00:00 12/16/2016	- 1 -	= 18.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/17/2016 00:00:00 12/17/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/18/2016 00:00:00 12/18/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/19/2016 00:00:00 12/19/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/20/2016 00:00:00 12/20/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001	- -	- water	Temperature Delta from Background	12/21/2016 00:00:00 12/21/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/22/2016 00:00:00 12/22/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/23/2016 00:00:00 12/23/2016	- 1 -	= 18.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/24/2016 00:00:00 12/24/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/25/2016 00:00:00 12/25/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/26/2016 00:00:00 12/26/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/27/2016 00:00:00 12/27/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/28/2016 00:00:00 12/28/2016	- 1 -	= 18.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/29/2016 00:00:00 12/29/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/30/2016 00:00:00 12/30/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Delta from Background	12/31/2016 00:00:00 12/31/2016	- 1 -	= 18.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Mthly Avg of Daily Avgs	10/01/2016 00:00:00 10/31/2016	- 1 -	= 75.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Mthly Avg of Daily Avgs	11/01/2016 00:00:00 11/30/2016	- 1 -	= 76.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001	- -	- water	Temperature Mthly Avg of Daily Avgs	12/01/2016 00:00:00 12/31/2016	- 1 -	= 73.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-001D	- -	- water	Cadmium, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	DNQ 0.22 ug/L	.043 - .5	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001D	- -	- water	Chromium (Total) 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	= 3 ug/L	- - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001D	- -	- water	Copper, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	DNQ 2.9 ug/L	.5 - .5	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001D	- -	- water	Lead, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	= 0.81 ug/L	- - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001D	- -	- water	Mercury, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	ND ug/L	.08 - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001D	- -	- water	Nickel, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	DNQ 1.8 ug/L	.4 - 5	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Oil and Grease 90-Day Mean	10/11/2016 00:00:00 12/21/2016	- 1 -	DNQ 1.4 mg/L	1.4 - 5	No -	Quarterly avg result. See Att. 1, Tabs 1, 5, 6, 7	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Silver, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	DNQ 0.12 ug/L	.1 - 1	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/11/2016 00:00:00 10/27/2016	- 1 -	< 5 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 5	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/03/2016 00:00:00 11/23/2016	- 1 -	< 5 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 6	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/13/2016 00:00:00 12/21/2016	- 1 -	< 5 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 7	CDF_Analytical_Cal culated_01202017. zip
M-001D	- -	- water	Zinc, Total 90-Day Mean	10/04/2016 00:00:00 11/28/2016	- 1 -	= 59 ug/L	- - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Cadmium, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Chromium (Total) 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	= 38.6 ug/L	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Copper, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	= 13.9 ug/L	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Lead, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	= 19.9 ug/L	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Mercury, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	ND ug/L	.08 - -	No -	See Attachment 2, Contract Lab Report	CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Nickel, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	= 45.9 ug/L	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Silver, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	ND ug/L	5 - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/01/2016 07:37:00 12/01/2016	- 1 -	= 6 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 13	CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/03/2016 16:00:00 10/04/2016	- 1 -	DNQ 3 mg/L	2 - 5	No -	Monthly avg result. See Attachment 1, Tab 11	CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/03/2016 07:20:00 11/03/2016	- 1 -	DNQ 2 mg/L	2 - 5	No -	Monthly avg result. See Attachment 1, Tab 12	CDF_Analytical_Cal culated_01202017. zip
M-001F	- -	- water	Zinc, Total 7-Day Average (Mean)	10/02/2016 00:00:00 10/09/2016	- 1 -	= 16.8 ug/L	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-001H	- -	- water	Cadmium, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Cal culated_01202017. zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001H	- -	- water	Chromium (Total) 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	= 24 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Copper, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	= 29 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Lead, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	= 24 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Mercury, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	ND ug/L	.08 - -	No -	Qtrly avg- Att 1 Tab 1 & Att 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Nickel, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	= 16 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Oil and Grease 90-Day Mean	10/02/2016 00:00:00 10/02/2016	- 1 -	ND mg/L	1.4 - -	No -	Avg result for qtrly samples. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Silver, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Total Suspended Solids (TSS) 30-Day Average	10/02/2016 00:00:00 10/02/2016	- 1 -	ND mg/L	2 - -	No -	Monthly avg result. See Attachment 1, Tab 11	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/01/2016 00:00:00 11/02/2016	- 1 -	DNQ 2 mg/L	2 - 5	No -	Monthly avg result. See Attachment 1, Tab 12	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/01/2016 00:00:00 12/01/2016	- 1 -	ND mg/L	2 - -	No -	Monthly avg result. See Attachment 1, Tab 13	CDF_Analytical_Calculated_01202017.zip
M-001H	- -	- water	Zinc, Total 90-Day Mean	10/03/2016 00:00:00 12/06/2016	- 1 -	< 10 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Cadmium, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Chromium (Total) 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Copper, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	= 11 ug/L	- - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Lead, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Mercury, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	.08 - -	No -	Qtrly avg- Att 1 Tab 1 & Att 2 Contract Lab Report	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Nickel, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Oil and Grease 90-Day Mean	10/03/2016 00:00:00 10/03/2016	- 1 -	ND mg/L	1.4 - -	No -	Avg result for qtrly samples. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip
M-001L	- -	- water	Silver, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-001L	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/03/2016 00:00:00 10/03/2016	- 1 -	ND mg/L	2 - -	No -	Monthly avg result. See Attachment 1, Tab 11	CDF_Analytical_Cal culated_01202017. zip
M-001L	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/02/2016 00:00:00 11/02/2016	- 1 -	ND mg/L	2 - -	No -	Monthly avg result. See Attachment 1, Tab 12	CDF_Analytical_Cal culated_01202017. zip
M-001L	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/05/2016 00:00:00 12/05/2016	- 1 -	ND mg/L	2 - -	No -	Monthly avg result. See Attachment 1, Tab 13	CDF_Analytical_Cal culated_01202017. zip
M-001L	- -	- water	Zinc, Total 90-Day Mean	10/05/2016 00:00:00 12/07/2016	- 1 -	ND ug/L	5 - -	No -	Avg of qtrly composites. See Att 1, Tab 1	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Oil and Grease 30-Day Avg of Daily Avgs	10/04/2016 00:00:00 10/25/2016	- 1 -	DNQ 0.24 mg/L	.24 - 5	No -	Monthly avg - Att 1 Tab 8 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Oil and Grease 30-Day Avg of Daily Avgs	11/02/2016 00:00:00 11/21/2016	- 1 -	DNQ 0.24 mg/L	.24 - 5	No -	Monthly avg - Att 1 Tab 9 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Oil and Grease 30-Day Avg of Daily Avgs	12/01/2016 00:00:00 12/27/2016	- 1 -	DNQ 1.1 mg/L	1.1 - 5	No -	Monthly avg - Att 1 Tab 10 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Settleable Solids 30-Day Average	10/04/2016 00:00:00 10/27/2016	- 1 -	< 0.1 ml/L	- - -	No -	Monthly avg - Att 1 Tab 8 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Settleable Solids 30-Day Average	11/02/2016 00:00:00 11/21/2016	- 1 -	DNQ 0.1 ml/L	.1 - .1	No -	Monthly avg - Att 1 Tab 9 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Settleable Solids 30-Day Average	12/01/2016 00:00:00 12/27/2016	- 1 -	DNQ 0.1 ml/L	.1 - .1	No -	Monthly avg - Att 1 Tab 10 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/04/2016 00:00:00 10/27/2016	- 1 -	= 9 mg/L	- - -	No -	Monthly avg - Att 1 Tab 8 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/02/2016 00:00:00 11/21/2016	- 1 -	= 7 mg/L	- - -	No -	Monthly avg - Att 1 Tab 9 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001N	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/01/2016 00:00:00 12/27/2016	- 1 -	= 12 mg/L	- - -	No -	Monthly avg - Att 1 Tab 10 & Att 2 Contr. Lab Rpt.	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	pH Daily Average (Mean)	10/10/2016 10:20:00 10/10/2016	- 1 -	= 7.7 SU	- - -	No -	See Attachment #1, Tab 11	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	pH Daily Average (Mean)	11/10/2016 08:40:00 11/10/2016	- 1 -	= 7.9 SU	- - -	No -	See Attachment #1, Tab 12	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	pH Daily Average (Mean)	12/07/2016 09:00:00 12/07/2016	- 1 -	= 7.6 SU	- - -	No -	See Attachment #1, Tab 13	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/10/2016 00:00:00 10/10/2016	- 1 -	= 9.8 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 11	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/10/2016 00:00:00 11/10/2016	- 1 -	= 15 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 12	CDF_Analytical_Cal culated_01202017. zip
M-001P	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/07/2016 00:00:00 12/07/2016	- 1 -	= 16 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 13	CDF_Analytical_Cal culated_01202017. zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-003	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	11/07/2016 12:47:00 11/09/2016	- 1 -	= 6 mg/L	- - -	No -	Monthly avg result. See Attachment 1, Tab 12	CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	10/06/2016 09:10:00 10/06/2016	- 1 -	DNQ 2 mg/L	2 - 5	No -	Monthly avg result. See Attachment 1, Tab 11	CDF_Analytical_Cal culated_01202017. zip
M-003	- -	- water	Total Suspended Solids (TSS) 30-Day Avg of Daily Avgs	12/05/2016 13:00:00 12/05/2016	- 1 -	DNQ 3 mg/L	2 - 5	No -	Monthly avg result. See Attachment 1, Tab 13	CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Chromium (Total) 90-Day Mean	10/04/2016 00:00:00 12/08/2016	- 1 -	ND ug/L	5 - -	No -	Quarterly avg result. See Attachment 1, Tab 1.	CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Copper, Total 90-Day Mean	10/04/2016 00:00:00 12/08/2016	- 1 -	DNQ 8 ug/L	5 - 10	No -	Quarterly avg result. See Attachment 1, Tab 1.	CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Nickel, Total 90-Day Mean	10/04/2016 00:00:00 12/08/2016	- 1 -	ND ug/L	5 - -	No -	Quarterly avg result. See Attachment 1, Tab 1.	CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/01/2016 00:00:00 10/01/2016	- 1 -	= 55.2 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/02/2016 00:00:00 10/02/2016	- 1 -	= 54.2 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/03/2016 00:00:00 10/03/2016	- 1 -	= 53.7 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/04/2016 00:00:00 10/04/2016	- 1 -	= 54.2 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/05/2016 00:00:00 10/05/2016	- 1 -	= 53.8 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/06/2016 00:00:00 10/06/2016	- 1 -	= 53.6 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/07/2016 00:00:00 10/07/2016	- 1 -	= 54.3 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/08/2016 00:00:00 10/08/2016	- 1 -	= 55.2 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/09/2016 00:00:00 10/09/2016	- 1 -	= 56.3 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/10/2016 00:00:00 10/10/2016	- 1 -	= 55.9 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/11/2016 00:00:00 10/11/2016	- 1 -	= 55.5 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/12/2016 00:00:00 10/12/2016	- 1 -	= 56 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip
M-INF	- -	- water	Temperature 24-hour Average	10/13/2016 00:00:00 10/13/2016	- 1 -	= 56.2 Degrees F	- - -	No -		CDF_Analytical_Cal culated_01202017. zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	- -	- water	Temperature 24-hour Average	10/14/2016 00:00:00 10/14/2016	- 1 -	= 56.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/15/2016 00:00:00 10/15/2016	- 1 -	= 57.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/16/2016 00:00:00 10/16/2016	- 1 -	= 58.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/17/2016 00:00:00 10/17/2016	- 1 -	= 58.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/18/2016 00:00:00 10/18/2016	- 1 -	= 56.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/19/2016 00:00:00 10/19/2016	- 1 -	= 56.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/20/2016 00:00:00 10/20/2016	- 1 -	= 56.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/21/2016 00:00:00 10/21/2016	- 1 -	= 56.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/22/2016 00:00:00 10/22/2016	- 1 -	= 56 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/23/2016 00:00:00 10/23/2016	- 1 -	= 56.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/24/2016 00:00:00 10/24/2016	- 1 -	= 57.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/25/2016 00:00:00 10/25/2016	- 1 -	= 58.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/26/2016 00:00:00 10/26/2016	- 1 -	= 58.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/27/2016 00:00:00 10/27/2016	- 1 -	= 58.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/28/2016 00:00:00 10/28/2016	- 1 -	= 58.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/29/2016 00:00:00 10/29/2016	- 1 -	= 59.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/30/2016 00:00:00 10/30/2016	- 1 -	= 59.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	10/31/2016 00:00:00 10/31/2016	- 1 -	= 59.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/01/2016 00:00:00 11/01/2016	- 1 -	= 59.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	- -	- water	Temperature 24-hour Average	11/02/2016 00:00:00 11/02/2016	- 1 -	= 58.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/03/2016 00:00:00 11/03/2016	- 1 -	= 58 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/04/2016 00:00:00 11/04/2016	- 1 -	= 58.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/05/2016 00:00:00 11/05/2016	- 1 -	= 58.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/06/2016 00:00:00 11/06/2016	- 1 -	= 57.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/07/2016 00:00:00 11/07/2016	- 1 -	= 57.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/08/2016 00:00:00 11/08/2016	- 1 -	= 57.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/09/2016 00:00:00 11/09/2016	- 1 -	= 57.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/10/2016 00:00:00 11/10/2016	- 1 -	= 57.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/11/2016 00:00:00 11/11/2016	- 1 -	= 58.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/12/2016 00:00:00 11/12/2016	- 1 -	= 58 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/13/2016 00:00:00 11/13/2016	- 1 -	= 58.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/14/2016 00:00:00 11/14/2016	- 1 -	= 58.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/15/2016 00:00:00 11/15/2016	- 1 -	= 58 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/16/2016 00:00:00 11/16/2016	- 1 -	= 56.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/17/2016 00:00:00 11/17/2016	- 1 -	= 55.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/18/2016 00:00:00 11/18/2016	- 1 -	= 56.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/19/2016 00:00:00 11/19/2016	- 1 -	= 56.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/20/2016 00:00:00 11/20/2016	- 1 -	= 56.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	- -	- water	Temperature 24-hour Average	11/21/2016 00:00:00 11/21/2016	- 1 -	= 57 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/22/2016 00:00:00 11/22/2016	- 1 -	= 57.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/23/2016 00:00:00 11/23/2016	- 1 -	= 56.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/24/2016 00:00:00 11/24/2016	- 1 -	= 56.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/25/2016 00:00:00 11/25/2016	- 1 -	= 57.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/26/2016 00:00:00 11/26/2016	- 1 -	= 57.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/27/2016 00:00:00 11/27/2016	- 1 -	= 56.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/28/2016 00:00:00 11/28/2016	- 1 -	= 55.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/29/2016 00:00:00 11/29/2016	- 1 -	= 54.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	11/30/2016 00:00:00 11/30/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/01/2016 00:00:00 12/01/2016	- 1 -	= 54.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/02/2016 00:00:00 12/02/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/03/2016 00:00:00 12/03/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/04/2016 00:00:00 12/04/2016	- 1 -	= 55.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/05/2016 00:00:00 12/05/2016	- 1 -	= 54.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/06/2016 00:00:00 12/06/2016	- 1 -	= 54 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/07/2016 00:00:00 12/07/2016	- 1 -	= 53.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/08/2016 00:00:00 12/08/2016	- 1 -	= 54.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/09/2016 00:00:00 12/09/2016	- 1 -	= 55 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	- -	- water	Temperature 24-hour Average	12/10/2016 00:00:00 12/10/2016	- 1 -	= 55 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/11/2016 00:00:00 12/11/2016	- 1 -	= 55.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/12/2016 00:00:00 12/12/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/13/2016 00:00:00 12/13/2016	- 1 -	= 55.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/14/2016 00:00:00 12/14/2016	- 1 -	= 55.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/15/2016 00:00:00 12/15/2016	- 1 -	= 55.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/16/2016 00:00:00 12/16/2016	- 1 -	= 55.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/17/2016 00:00:00 12/17/2016	- 1 -	= 53.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/18/2016 00:00:00 12/18/2016	- 1 -	= 54.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/19/2016 00:00:00 12/19/2016	- 1 -	= 54.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/20/2016 00:00:00 12/20/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/21/2016 00:00:00 12/21/2016	- 1 -	= 54.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/22/2016 00:00:00 12/22/2016	- 1 -	= 54.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/23/2016 00:00:00 12/23/2016	- 1 -	= 54.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/24/2016 00:00:00 12/24/2016	- 1 -	= 54.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/25/2016 00:00:00 12/25/2016	- 1 -	= 54 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/26/2016 00:00:00 12/26/2016	- 1 -	= 53.9 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/27/2016 00:00:00 12/27/2016	- 1 -	= 53.8 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/28/2016 00:00:00 12/28/2016	- 1 -	= 54.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-INF	- -	- water	Temperature 24-hour Average	12/29/2016 00:00:00 12/29/2016	- 1 -	= 54.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/30/2016 00:00:00 12/30/2016	- 1 -	= 54.7 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature 24-hour Average	12/31/2016 00:00:00 12/31/2016	- 1 -	= 54.4 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Daily Maximum	10/01/2016 00:00:00 10/31/2016	- 1 -	= 59.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Daily Maximum	11/01/2016 00:00:00 11/30/2016	- 1 -	= 59.1 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Daily Maximum	12/01/2016 00:00:00 12/31/2016	- 1 -	= 55.3 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Mthly Avg of Daily Avgs	10/01/2016 00:00:00 10/31/2016	- 1 -	= 56.5 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Mthly Avg of Daily Avgs	11/01/2016 00:00:00 11/30/2016	- 1 -	= 57.2 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Temperature Mthly Avg of Daily Avgs	12/01/2016 00:00:00 12/31/2016	- 1 -	= 54.6 Degrees F	- - -	No -		CDF_Analytical_Calculated_01202017.zip
M-INF	- -	- water	Zinc, Total 90-Day Mean	10/04/2016 00:00:00 12/08/2016	- 1 -	ND ug/L	5 - -	No -	Quarterly avg result. See Attachment 1, Tab 1.	CDF_Analytical_Calculated_01202017.zip

Lab Batches

No Lab Batch Data Available / Reported

Certificate

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I certify that I am david cortina and am authorized to submit this report on behalf of PG&E Diablo Canyon Power Plant. I understand that I am submitting the following report(s):

- Quarterly SMR (MONNPDES) report for Q4 2016 (due 01/20/2017)

I understand that data submitted in this report(s) can be used by authorized agencies for water quality management related analyses and enforcement actions, if required.

I am also aware that my user ID, password, and answer to a challenge question constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. I certify that I have not violated any term in my Electronic Signature Agreement and that I am otherwise without any reason to believe that the confidentiality of my password and challenge question answers have been compromised now or at any time prior to this submission. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal

environmental program and must be true to the best of my knowledge.

Name: david cortina

Title: Chemistry and Environmental Services Manager

Diablo Canyon Power Plant - NPDES Data Worksheets
4th Quarter 2016

	Tab	Information
Go To Tab 1	1	Miscellaneous Quarterly Averages
Go To Tab 2	2	Circulating Water Chlorine Residual - October
Go To Tab 3	3	Circulating Water Chlorine Residual - November
Go To Tab 4	4	Circulating Water Chlorine Residual - December
Go To Tab 5	5	001D Flow Weighted Averages For TSS and O&G - October
Go To Tab 6	6	001D Flow Weighted Averages For TSS and O&G - November
Go To Tab 7	7	001D Flow Weighted Averages For TSS and O&G - December
Go To Tab 8	8	001N TSS, SS and O&G - October
Go To Tab 9	9	001N TSS, SS and O&G - November
Go To Tab 10	10	001N TSS, SS and O&G - December
Go To Tab 11	11	Miscellaneous Duplicates - October
Go To Tab 12	12	Miscellaneous Duplicates - November
Go To Tab 13	13	Miscellaneous Duplicates - December

	A	B	C	D	E	F	G	H	I	J	K
1	Miscellaneous Quarterly Average Calculations for Quarterly eSMR										
2											
3	– For Influent Quarterly Metals, fill in highlighted cells only. Subsequent cells will be filled in automatically.										
4	10 µg/L is DCPD lab Reporting Limit. 5 µg/L is DCPD lab MDL.										
5											
6	Sample Date	Analysis Date	Lab	Parameter	Results	Result for Average	Daily Average	Numerical Quarterly Average	Reporting Average for Quarter		
7											
8	10/4/2016	10/26/2016	DCPD	Influent Cr	ND(5)	0	0	0	ND(5)		
9	11/3/2016	11/17/2016	DCPD	Influent Cr	ND(5)	0					
10	12/8/2016	12/12/2016	DCPD	Influent Cr	ND(5)	0					
11											
12	10/4/2016	10/27/2016	DCPD	Influent Cu	DNQ(6.6)	7	8	8	DNQ(8)		
13	11/3/2016	11/17/2016	DCPD	Influent Cu	DNQ(8.1)	8					
14	12/8/2016	12/12/2016	DCPD	Influent Cu	DNQ(7.8)	8					
15											
16	10/4/2016	10/26/2016	DCPD	Influent Ni	ND(5)	0	0	0	ND(5)		
17	11/3/2016	11/17/2016	DCPD	Influent Ni	ND(5)	0					
18	12/8/2016	12/12/2016	DCPD	Influent Ni	ND(5)	0					
19											
20	10/4/2016	10/27/2016	DCPD	Influent Zn	ND(5)	0	0	0	ND(5)		
21	11/3/2016	11/17/2016	DCPD	Influent Zn	ND(5)	0					
22	12/8/2016	12/12/2016	DCPD	Influent Zn	ND(5)	0					
23											
24	Quarterly Oil and Grease Averages										
25	5.0 mg/L is DCPD lab Reporting Limit. 1.4 mg/L is DCPD lab MDL.										
26											
27	Sample Date	Analysis Date	Location	Unit	Parameter	Results	Result for Average	Daily Average	Numerical Quarterly Average	Reporting Average for Quarter	
28	10/2/2016	10/18/2016	001H	1	O&G	ND(1.4)	0.0	0.0	0.0	ND(1.4)	
29	10/2/2016	10/18/2016	001H	2	O&G	ND(1.4)	0.0				
30											
31	10/3/2016	10/18/2016	001L	1	O&G	ND(1.4)	0.0	0.0	0.0	ND(1.4)	
32	10/3/2016	10/18/2016	001L	2	O&G	ND(1.4)	0.0				
33											
34	Quarterly 001D LRW Oil and Grease - Refer to Worksheet 5, 6, and 7 for Monthly Average Calculations.										
35	Month	Average O&G	Result for Average	Numerical Quarterly Average	Reporting Average for Quarter						
36	October	ND(1.4)	0.0	0.8	DNQ(1.4)						
37	November	DNQ(2.5)	2.5								
38	December	ND(1.4)	0.0								
39											
40	Quarterly Metals Composite Averages										
41	10 µg/L is DCPD lab Reporting Limit. 5 µg/L is DCPD lab MDL.										
42											
43	First Aliquot Date	Last Aliquot Date	Location	Unit	Parameter	Results	Result for Average	Numerical Quarterly Average	Reporting Average for Quarter		
44	10/3/2016	12/6/2016	001H	1	Ag	ND(5)	0	0	ND(5)		
45	10/3/2016	12/5/2016	001H	2	Ag	ND(5)	0				
46											
47	10/3/2016	12/6/2016	001H	1	Cd	ND(5)	0	0	ND(5)		
48	10/3/2016	12/5/2016	001H	2	Cd	ND(5)	0				
49											
50	10/3/2016	12/6/2016	001H	1	Cr	20	20	24	24		
51	10/3/2016	12/5/2016	001H	2	Cr	27	27				
52											
53	10/3/2016	12/6/2016	001H	1	Cu	23	23	29	29		
54	10/3/2016	12/5/2016	001H	2	Cu	34	34				
55											
56	10/3/2016	12/6/2016	001H	1	Ni	15	15	16	16		
57	10/3/2016	12/5/2016	001H	2	Ni	17	17				
58											
59	10/3/2016	12/6/2016	001H	1	Pb	27	27	24	24		
60	10/3/2016	12/5/2016	001H	2	Pb	20	20				
61											
62	10/3/2016	12/6/2016	001H	1	Zn	ND(5)	0	7	<10		
63	10/3/2016	12/5/2016	001H	2	Zn	13	13				
64											
65	10/3/2016	12/6/2016	001H	1	Hg	ND(0.080)	0.00	0.00	ND(0.080)		
66	10/3/2016	12/5/2016	001H	2	Hg	ND(0.080)	0.00				
67											
68											
69	10/5/2016	12/7/2016	001L	1	Ag	ND(5)	0	0	ND(5)		
70	10/5/2016	12/7/2016	001L	2	Ag	ND(5)	0				
71											
72	10/5/2016	12/7/2016	001L	1	Cd	ND(5)	0	0	ND(5)		
73	10/5/2016	12/7/2016	001L	2	Cd	ND(5)	0				
74											
75	10/5/2016	12/7/2016	001L	1	Cr	ND(5)	0	0	ND(5)		
76	10/5/2016	12/7/2016	001L	2	Cr	ND(5)	0				
77											
78	10/5/2016	12/7/2016	001L	1	Cu	ND(5)	0	11	11		
79	10/5/2016	12/7/2016	001L	2	Cu	22	22				
80											
81	10/5/2016	12/7/2016	001L	1	Ni	ND(5)	0	0	ND(5)		
82	10/5/2016	12/7/2016	001L	2	Ni	ND(5)	0				
83											
84	10/5/2016	12/7/2016	001L	1	Pb	ND(5)	0	0	ND(5)		
85	10/5/2016	12/7/2016	001L	2	Pb	ND(5)	0				
86											
87	10/5/2016	12/7/2016	001L	1	Zn	ND(5)	0	0	ND(5)		
88	10/5/2016	12/7/2016	001L	2	Zn	ND(5)	0				
89											
90	10/5/2016	12/7/2016	001L	1	Hg	ND(0.080)	0.00	0.00	ND(0.080)		
91	10/5/2016	12/7/2016	001L	2	Hg	ND(0.080)	0.00				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2		Chlorine for eSMR														
3																
4		FILL IN ONLY SHADED/COLORED CELLS														
5																
6		Date														
7		10/1/2016	10/2/2016	10/3/2016	10/4/2016	10/5/2016	10/6/2016	10/7/2016	10/8/2016	10/9/2016	10/10/2016	10/11/2016	10/12/2016	10/13/2016	10/14/2016	10/15/2016
8	Unit 1 TRC (ppb)	<10	<10	<10	<10	no injection	18	32	24	14	15	18	15	18	no injection	no injection
9		<10	<10	<10	<10	no injection	20	35	22	<10	15	22	12	20	no injection	no injection
10		<10	<10	<10	<10	no injection	22	24	14	<10	13	20	<10	13	no injection	no injection
11		<10	<10	<10	no injection	17	35	22	11	12	no injection	no injection	22	74	no injection	no injection
12		<10	<10	<10	no injection	17	29	18	<10	<10	no injection	no injection	<10	<10	no injection	no injection
13		<10	<10	<10	no injection	14	32	24	11	<10	24	14	17	no injection	no injection	no injection
14	Unit 1 Cl2 Use (lbs)	417.6	417.6	417.6	208.8	208.8	417.6	417.6	417.6	417.6	278.4	266.4	345.6	288.0	0.0	0.0
15	Unit 2 TRC (ppb)	<10	<10	<10	<10	no injection	18	31	23	14	15	16	23	18	<10	<10
16		<10	<10	<10	<10	no injection	18	31	25	10	15	18	23	19	12	<10
17		<10	<10	<10	<10	<10	18	25	15	10	13	13	21	16	<10	<10
18		<10	<10	<10	no injection	16	31	21	13	12	no injection	no injection	15	10	<10	<10
19		<10	<10	<10	no injection	16	31	21	11	<10	18	15	15	<10	<10	<10
20		<10	<10	<10	no injection	16	31	21	13	12	15	18	16	<10	<10	<10
21	Unit 2 Cl2 Use (lbs)	432.0	432.0	432.0	216	288	432	432	432	432	360	360	432	432	432	432
22																
23		0	0	0	0	17	35	35	24	14	24	22	22	74	0	0
24		0	0	0	0	16	31	31	25	14	18	18	23	19	12	0
25	Daily Maximum TRC (ppb)	0	0	0	0	17	35	35	25	14	24	22	23	74	12	0
26	Daily Cl2 Use (lbs)	850	850	850	425	497	850	850	850	850	638	626	778	720	432	432
27																
28																
29																
30																
31																
32																
33																
34																
35																

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1																	
2																	
3																	
4																	
5																	
6																	
7	10/16/2016	10/17/2016	10/18/2016	10/19/2016	10/20/2016	10/21/2016	10/22/2016	10/23/2016	10/24/2016	10/25/2016	10/26/2016	10/27/2016	10/28/2016	10/29/2016	10/30/2016	10/31/2016	
8	no injection	no injection	no injection	no injection	<7	<7	<7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9	no injection	no injection	no injection	no injection	<7	<7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	no injection	no injection	no injection	no injection	<7	<7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
11	no injection	no injection	no injection	no injection	<7	<7	<10	<10	<10	no injection	<10	<10	<10	<10	<10	<10	<10
12	no injection	no injection	no injection	<10	<7	<7	<10	<10	<10	12	<10	<10	<10	<10	<10	<10	<10
13	no injection	no injection	no injection	<7	<7	<7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
14	0.0	0.0	0.0	43.2	172.8	172.8	268.8	345.6	345.6	252.0	345.6	345.6	345.6	345.6	345.6	345.6	345.6
15	<10	<10	<13	13	<13	<13	13	<10	<10	<10	<10	10	<10	<10	10	10	10
16	<10	<13	<13	17	<13	<13	<10	<10	<10	<10	<10	11	10	10	11	11	11
17	<10	<13	<13	15	<13	<13	<10	<10	<10	<10	<10	<10	<10	<10	11	10	10
18	<10	<13	<13	<13	<13	<13	<10	<10	<10	no injection	<10	<10	<10	<10	<10	<10	<10
19	<10	<13	<13	<10	<13	<13	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	<10
20	<10	<13	<13	<13	<13	<13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
21	432	436.8	446.4	451.2	460.8	460.8	460.8	460.8	460.8	384	460.8	460.8	460.8	460.8	460.8	460.8	460.8
22																	
23	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
24	0	0	0	17	17	0	13	0	0	0	0	11	10	10	11	11	11
25	0	0	0	17	17	0	13	0	0	12	0	11	10	10	11	11	
26	432	437	446	494	634	634	730	806	806	636	806	806	806	806	806	806	
27														Chlorine	(ppb)	(lbs/day)	
28														Monthly Average	13	690	
29										MONTHLY CHLORINE USE: 21,389	lbs.			Maximum	74	850	
30														Minimum	0	425	
31														Verify that values have correct references.			
32														Verified that the calcs all end at AF for a 31 day month. M6BX 11-07-2016			
33																	
34																	
35																	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2		Chlorine for eSMR														
3																
4		FILL IN ONLY SHADED/COLORED CELLS														
5																
6		Date														
7		11/1/2016	11/2/2016	11/3/2016	11/4/2016	11/5/2016	11/6/2016	11/7/2016	11/8/2016	11/9/2016	11/10/2016	11/11/2016	11/12/2016	11/13/2016	11/14/2016	11/15/2016
8	Unit 1 TRC (ppb)	<10	<10	<10	<10	<10	<10	12	14	13	13	20	<13	<10	<10	<10
9		<10	<10	<10	<10	<10	<10	<10	14	<10	13	20	14	<10	<10	<10
10		<10	<10	<10	<10	<10	<10	<10	12	<10	12	13	<10	<10	<10	<10
11		<10	<10	<10	<10	<10	<10	<10	12	<10	20	17	<10	<10	no injection	<10
12		<10	<10	<10	<10	<10	<10	<10	<10	17	17	<10	<10	<10	<10	no injection
13		<10	<10	<10	<10	<10	<10	13	11	11	17	14	<10	<10	<10	no injection
14	Unit 1 Cl2 Use (lbs)	345.6	345.6	345.6	345.6	345.6	350.4	360.0	360.0	360.0	360.0	360.0	360.0	360.0	300.0	240.0
15	Unit 2 TRC (ppb)	10	10	<10	<10	<10	<10	<10	<10	<10	10	<7	<10	<10	<10	<10
16		10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
17		10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
18		<10	<10	<10	<10	<10	<10	<10	<10	<10	<7	<10	<10	<10	no injection	<10
19		<10	<10	<10	<10	<10	<10	<10	<10	<10	<7	<10	<10	<10	<10	no injection
20		<10	<10	<10	<10	<10	<10	<10	<10	<10	<7	<10	<10	<10	<10	no injection
21	Unit 2 Cl2 Use (lbs)	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	316.8	309.6	345.6	345.6	235.2	124.8
22																
23		0	0	0	0	0	13	14	13	20	20	14	0	0	0	0
24		10	10	0	0	0	0	0	0	0	10	0	0	0	0	0
25	Daily Maximum TRC (ppb)	10	10	0	0	0	13	14	13	20	20	14	0	0	0	0
26	Daily Cl2 Use (lbs)	806	806	806	806	806	811	821	821	821	677	670	706	706	535	365
27																
28																
29																
30																
31																
32																
33																
34																
35																

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1																	
2																	
3																	
4																	
5																	
6																	
7	11/16/2016	11/17/2016	11/18/2016	11/19/2016	11/20/2016	11/21/2016	11/22/2016	11/23/2016	11/24/2016	11/25/2016	11/26/2016	11/27/2016	11/28/2016	11/29/2016	11/30/2016		
8	no injection	10	<10	<10	<10	<10	<10	<10	68	15	12	<10	13	18	15		
9	no injection	10	<10	<10	<10	<10	<10	<10	74	14	12	<10	15	18	14		
10	no injection	11	<10	<10	<10	<10	<10	<10	12	62	<10	11	15	18	13		
11	no injection	<10	<10	<10	<10	<10	<10	11	15	<10	<10	<10	15	17	no injection		
12	10	10	<10	<10	<10	<10	<10	11	15	14	<10	24	22	15	17		
13	10	<10	<10	<10	<10	<10	<10	11	15	12	<10	11	18	15	32		
14	120.0	352.8	316.8	316.8	316.8	316.8	316.8	316.8	316.8	302.4	288.0	288.0	288.0	283.2	196.3		
15	no injection	18	15	11	<10	<10	11	10	<10	10	<10	<10	11	16	18		
16	no injection	19	15	12	<10	<10	10	<10	11	<10	<10	<10	13	16	16		
17	no injection	18	12	12	10	<10	<10	<10	11	<10	<10	<10	12	16	13		
18	10	13	11	11	<10	11	<10	<10	11	<10	<10	<10	13	16	no injection		
19	13	18	12	11	<10	10	<10	<10	11	10	<10	<10	13	16	13		
20	16	16	12	11	<10	<10	<10	<10	10	<10	<10	<10	16	16	15		
21	156	367.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	326.4	252		
22																	
23	10	11	0	0	0	0	0	11	74	62	12	24	22	18	32	0	
24	16	19	15	12	10	11	11	10	11	10	0	0	16	16	18	0	
25	16	19	15	12	10	11	11	11	74	62	12	24	22	18	32	0	
26	276	720	648	648	648	648	648	648	648	634	619	619	619	610	448	0	
27														Chlorine	(ppb)	(lbs/day)	
28														Monthly Average	15	668	
29														Maximum	74	821	
30														Minimum	0	276	
31														Verify that values have correct references.			
32																	
33																	
34																	
35																	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2		Chlorine for eSMR														
3																
4		FILL IN ONLY SHADED/COLORED CELLS														
5																
6		Date														
7		12/1/2016	12/2/2016	12/3/2016	12/4/2016	12/5/2016	12/6/2016	12/7/2016	12/8/2016	12/9/2016	12/10/2016	12/11/2016	12/12/2016	12/13/2016	12/14/2016	12/15/2016
8	Unit 1 TRC (ppb)	12	14	14	<10	12	no injection	<10	<10	<10	<10	<10	<10	<10	no injection	no injection
9		<10	142	14	<10	no injection	no injection	<10	<10	<10	<10	<10	<10	no injection	no injection	no injection
10		<10	15	14	<10	no injection	no injection	<10	<10	<10	<10	<10	<10	no injection	no injection	no injection
11		<10	12	12	<10	no injection	no injection	12	<10	<10	<10	<10	<10	no injection	no injection	no injection
12		13	18	<10	12	no injection	<10	<10	<10	<10	<10	<10	<10	no injection	<10	<10
13		12	14	<10	<10	no injection	<10	<10	<10	<10	<10	<10	<10	no injection	no injection	<10
14	Unit 1 Cl2 Use (lbs)	273.6	273.6	273.6	273.6	45.6	27.6	115.2	115.2	115.2	115.2	115.2	115.2	19.2	33.6	36.0
15	Unit 2 TRC (ppb)	13	15	13	11	13	no injection	<10	21	19	18	18	19	19	no injection	no injection
16		16	15	15	11	no injection	no injection	<10	21	18	18	18	21	no injection	no injection	no injection
17		13	12	13	11	no injection	no injection	<10	21	18	18	18	19	no injection	no injection	no injection
18		13	11	12	11	no injection	no injection	21	19	18	18	16	21	no injection	no injection	no injection
19		13	15	12	12	no injection	<10	21	19	19	18	<10	<10	no injection	no injection	10
20		15	16	11	12	no injection	<10	23	19	18	16	19	19	no injection	no injection	11
21	Unit 2 Cl2 Use (lbs)	302.4	302.4	302.4	302.4	50.4	55.2	230.4	230.4	230.4	230.4	192	192.0	38.4	0.0	36.0
22																
23		13	142	14	12	12	0	12	0	0	0	0	0	0	0	0
24		16	16	15	12	13	0	23	21	19	18	19	21	19	0	11
25	Daily Maximum TRC (ppb)	16	142	15	12	13	0	23	21	19	18	19	21	19	0	11
26	Daily Cl2 Use (lbs)	576	576	576	576	96	83	346	346	346	346	307	307	58	34	72
27																
28																
29																
30																
31																
32																
33																
34																
35																

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1																	
2																	
3																	
4																	
5																	
6																	
7	12/16/2016	12/17/2016	12/18/2016	12/19/2016	12/20/2016	12/21/2016	12/22/2016	12/23/2016	12/24/2016	12/25/2016	12/26/2016	12/27/2016	12/28/2016	12/29/2016	12/30/2016	12/31/2016	
8	<10	17	14	11	12	12	18	22	18	20	20	18	20	17	18	20	
9	<10	18	15	11	12	11	18	20	18	24	18	18	17	17	22	20	
10	<10	20	12	<10	12	<10	18	20	18	24	18	18	17	15	17	17	
11	<10	17	<10	<10	11	17	20	20	18	22	18	19	17	18	18	17	
12	13	15	<10	<10	13	18	20	20	20	22	18	19	18	18	20	17	
13	17	15	11	<10	11	18	20	18	20	24	17	20	17	18	20	17	
14	134.4	216.0	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	
15	11	18	18	11	16	13	21	25	23	25	23	21	21	21	23	25	
16	11	19	16	13	15	12	21	23	23	28	23	21	21	21	25	25	
17	10	19	15	12	15	11	23	25	23	31	23	21	21	21	23	23	
18	11	19	12	13	13	19	25	25	23	28	21	21	21	25	23	21	
19	12	18	11	13	13	21	25	25	25	25	21	21	21	25	25	21	
20	16	19	12	15	13	23	25	23	25	25	21	21	21	25	25	21	
21	134.4	230.4	230.4	230.4	230.4	230.4	230.4	232.6	244.8	244.8	244.8	244.8	244.8	244.8	244.8	244.8	
22																	
23	17	20	15	11	13	18	20	22	20	24	20	20	20	18	22	20	
24	16	19	18	15	16	23	25	25	25	31	23	21	21	25	25	25	
25	17	20	18	15	16	23	25	25	25	31	23	21	21	25	25	25	
26	269	446	432	432	432	432	432	434	446	446	446	446	446	446	446	446	
27														Chlorine	(ppb)	(lbs/day)	
28														Monthly			
29														Average	23	372	
30														Maximum	142	576	
31														Minimum	0	34	
32														Verify that values have correct references.			
33																	
34																	
35																	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2															
3		LRW TSS Data													
5		2.0 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
6		Results are reported to the Water Board to whole numbers only (no tenths).													
8		System	Batch	Tank	Volume	Discharge Date	Status	Filter 1	Filter 2	Net TSS	TSS for avg.	Unused Volumes	Weight	Weighted TSS	
9		LRW	89	DRR 0-1	9,618	10/11/2016 10:10	O	0.7	#N/A	ND(2)	0.0		0.49	0.00	
10		LRW	90	LDT 0-1	9,659	10/11/2016 14:40	O	0.4	#N/A	ND(2)	0.0		0.49	0.00	
11		LRW		LDT 0-1 dup				0.3	#N/A	ND(2)					
12		LRW	91	DRR 0-2		10/13/2016 9:15	O					7,840			
13		LRW	92	DRR 0-1		10/14/2016 9:40	O					10,071			
14		LRW	93	CDT 0-2	529	10/27/2016 11:50	O	22.0	0.0	22.0	24.3		0.03	0.65	
15		LRW		CDT 0-2 dup				27.4	0.9	26.5					
16		LRW	94	DRR 0-2		10/28/2016 6:40	O					10,077			
17		LRW													
18		LRW													
19		LRW													
20		LRW													
21		LRW													
22		LRW													
23		LRW													
24		LRW													
25		LRW													
26		LRW													
27		LRW													
28		LRW													
29		LRW													
30		LRW													
31		LRW													
32		LRW													
33		LRW													
34		LRW													
35		LRW													
36		LRW													
37		LRW													
38		LRW													
39															
40		total volume of sampled tanks:			19,806					total sum of volume weights:		1.00	Monthly LRW TSS Average		
41													0.65		
42													Report <5 because CDT 0-2 >5		
43															
44															
45		001D	O&G Data												
47		1.4 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
48		Results are reported to the Water Board to the nearest tenth mg/L.													
50		System	Batch	Tank	Volume	Discharge Date	Status	Result	O&G for avg.	Weight	Weighted O&G				
51		LRW	89	DRR 0-1	9,618	10/11/2016 10:10	O	ND(1.4)	0.0	0.49	0.00				
52		LRW	90	LDT 0-1	9,659	10/11/2016 14:40	O	ND(1.4)	0.0	0.49	0.00				
53		LRW	93	CDT 0-2	529	10/27/2016 11:50	O	ND(1.4)	0.0	0.03	0.00				
54		LRW													
55		LRW													
56		LRW													
57		LRW													
58		LRW													
59		LRW													
60															
61		total volume of sampled tanks:			19,806				total sum of volume weights:		1.00	Monthly O&G Average			
62												0.0			
63												Report ND (1.4)			
64															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2															
3		LRW TSS Data													
4		2.0 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
5		Results are reported to the Water Board to whole numbers only (no tenths).													
6															
7															
8		System	Batch	Tank	Volume	Discharge Date	Status	Filter 1	Filter 2	Net TSS	TSS for avg.	Unused Volumes	Weight	Weighted TSS	
9		LRW	95	DRR 0-1	5,075	11/3/2016 8:15	O	0.0	#N/A	ND(2)	0.0		0.17	0.00	
10		LRW	96	LDT 0-1	14,989	11/4/2016 9:25	O	0.2	#N/A	ND(2)	0.0		0.49	0.00	
11		LRW		LDT 0-1 dup				0.4	#N/A	ND(2)					
12		LRW	97	DRR 0-2		11/9/2016 12:00	O					8,633			
13		LRW	99	LDT 0-2		11/10/2016 9:30	O					14,989			
14		LRW	98	CDT 0-1	533	11/10/2016 15:45	O	31.5	0.0	31.5	30.0		0.02	0.52	
15		LRW		CDT 0-1 dup				29.0	0.5	28.5					
16		LRW	100	DRR 0-1		11/16/2016 9:10	O					8,667			
17		LRW	101	DRR 0-2		11/21/2016 13:50	O					7,975			
18		LRW	102	PWR 0-2	9,924	11/23/2016 8:40	O	0.0	#N/A	ND(2)	0		0.33	0.00	
19		LRW	103	LDT 0-1		11/30/2016 8:15	O					14,989			
20		LRW													
21		LRW													
22		LRW													
23		LRW													
24		LRW													
25		LRW													
26		LRW													
27		LRW													
28		LRW													
29		LRW													
30		LRW													
31		LRW													
32		LRW													
33		LRW													
34		LRW													
35		LRW													
36		LRW													
37		LRW													
38		LRW													
39															
40		total volume of sampled tanks:			30,521					total sum of volume weights:		1.00	Monthly LRW TSS Average		
41													0.52		
42													Report <5 Because CDT 0-1 >RL		
43															
44															
45		001D	O&G Data												
46															
47		1.4 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
48		Results are reported to the Water Board to the nearest tenth mg/L.													
49															
50		System	Batch	Tank	Volume	Discharge Date	Status	Result	O&G for avg.	Weight	Weighted O&G				
51		LRW	98	CDT 0-1	533	11/10/2016 15:45	O	2.5	2.5	1.00	2.50				
52		LRW													
53		LRW													
54		LRW													
55		LRW													
56		LRW													
57		LRW													
58		LRW													
59		LRW													
60															
61		total volume of sampled tanks:			533					total sum of volume weights:		1.00	Monthly O&G Average		
62													2.5		
63													Report DNQ (2.5)		
64															

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2															
3		LRW TSS Data													
4		2.0 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
5		Results are reported to the Water Board to whole numbers only (no tenths).													
6															
7															
8		System	Batch	Tank	Volume	Discharge Date	Status	Filter 1	Filter 2	Net TSS	TSS for avg.	Unused Volumes	Weight	Weighted TSS	
9		LRW	104	PWR 0-1		12/1/2016 10:20	O					9,205			
10		LRW	105	CDT 0-2	460	12/13/2016 8:53	O	41.1	0.4	40.7	39.7		0.02	0.63	
11		LRW		CDT 0-2 dup				38.7	0.0	38.7					
12		LRW	106	PWR 0-2	7,335	12/13/2016 11:42	O	0.2	#N/A	ND(2)	0.0		0.25	0.00	
13		LRW	107	LDT 0-2	14,989	12/20/2016 9:20	O	0.2	#N/A	ND(2)	0.0		0.52	0.00	
14		LRW		LDT 0-2 dup				0.3	#N/A	ND(2)					
15		LRW	108	FDR 0-2	6,185	12/21/2016 7:05	O	4.2	#N/A	DNQ(4.2)	0.0		0.21	0.00	
16		LRW	109	PWR 0-1		12/22/2016 7:53	O					9,061			
17		LRW	110	FDR 0-1		12/28/2016 7:00	O					10,499			
18		LRW	111	PWR 0-2		12/29/2016 8:00	O					719			
19		LRW													
20		LRW													
21		LRW													
22		LRW													
23		LRW													
24		LRW													
25		LRW													
26		LRW													
27		LRW													
28		LRW													
29		LRW													
30		LRW													
31		LRW													
32		LRW													
33		LRW													
34		LRW													
35		LRW													
36		LRW													
37		LRW													
38		LRW													
39															
40		total volume of sampled tanks:			28,969					total sum of volume weights:		1.00	Monthly LRW TSS Average		
41													0.63		
42													Report <5 Because CDT 0-2 >RL		
43															
44															
45		001D	O&G Data												
46															
47		1.4 mg/L is MDL. 5.0 mg/L is Reporting Limit.													
48		Results are reported to the Water Board to the nearest tenth mg/L.													
49															
50		System	Batch	Tank	Volume	Discharge Date	Status	Result	O&G for avg.	Weight	Weighted O&G				
51		LRW	105	CDT 0-2	460	12/13/2016 8:53	O	ND(1.4)	0.0	0.03	0.00				
52		LRW	106	PWR 0-2	7,335	12/13/2016 11:42	O	ND(1.4)	0.0	0.52	0.00				
53		LRW	108	FDR 0-2	6,185	12/21/2016 7:05	O	ND(1.4)	0.0	0.44	0.00				
54		LRW													
55		LRW													
56		LRW													
57		LRW													
58		LRW													
59		LRW													
60															
61		total volume of sampled tanks:			13,980				total sum of volume weights:		1.00	Monthly O&G Average			
62												0.0			
63												Report ND(1.4)			
64															

	A	B	C	D	E	F	G	H
2								
3		001N Monthly Average Calculations						
4		NOTE: Values <Reporting Limit are treated as 0 when averaged with values ≥ RL.						
5		All Results on this sheet are included in Vendor Laboratory Data						
6								
7		0.24 mg/L is O&G method 1664 MDL for BSK Lab.						
8		5.0 mg/L is O&G Method 1664 Reporting Limit.						
9		Results are reported to the Water Board to the nearest tenth mg/L.						
10								
11		Oil and Grease (mg/L)						
12								
13								
14		Date	Result	Numerical Daily Average	Average Qualifier	Results for Monthly Average	Report Monthly Average	
15		10/4/2016	DNQ(0.30)	0.23	DNQ	0.23	0.16	
16		10/4/2016	ND(0.24)				Report DNQ(0.24)	
17		10/4/2016	DNQ(0.39)					
18		10/11/2016	ND(0.24)	0.20	DNQ	0.20	Daily Maximum	
19		10/11/2016	ND(0.24)				0.2	
20		10/11/2016	DNQ(0.59)					
21		10/17/2016	ND(0.24)	0.10	DNQ	0.10		
22		10/17/2016	ND(0.24)					
23		10/17/2016	DNQ(0.30)					
24		10/25/2016	ND(0.24)	0.10	DNQ	0.10		
25		10/25/2016	ND(0.24)					
26		10/25/2016	DNQ(0.30)					
27								
28								
29								
30								
31								
32		Total Suspended Solids (mg/L)						
33								
34		Date	Result	Numerical Result	Monthly Average			
35		10/4/2016	9	9	9			
36		10/11/2016	16	16				
37		10/17/2016	4	4	Daily Maximum			
38		10/25/2016	7	7	16			
39								
40								
41								
42		Settleable Solids (ml/L)						
43								
44		Date	Result	Numerical Result	Monthly Average			
45		10/4/2016	0.1	0.1	0.0			
46		10/11/2016	DNQ(0.1)	0.0	<0.1 because 10/1 result ≥RL			
47		10/17/2016	DNQ(0.1)	0.0	Daily Maximum			
48		10/25/2016	DNQ(0.1)	0.0	0.1			
49								
50								
51								
52								

	A	B	C	D	E	F	G	H
2								
3		001N Monthly Average Calculations						
4		NOTE: Values <Reporting Limit are treated as 0 when averaged with values ≥ RL.						
5		All Results on this sheet are included in Vendor Laboratory Data						
6								
7		0.24 mg/L is O&G method 1664 MDL for BSK Lab.						
8		5.0 mg/L is O&G Method 1664 Reporting Limit.						
9		Results are reported to the Water Board to the nearest tenth mg/L.						
10								
11		Oil and Grease (mg/L)						
12								
13								
14		Date	Result	Numerical Daily Average	Average Qualifier	Results for Monthly Average	Report Monthly Average	
15		11/2/2016	DNQ(0.29)	0.43	DNQ	0.43	0.23	
16		11/2/2016	DNQ(0.30)				Report DNQ(0.24)	
17		11/2/2016	DNQ(0.69)					
18		11/8/2016	ND(0.24)	0.00	ND	0.00	Daily Maximum	
19		11/8/2016	ND(0.24)				0.4	
20		11/8/2016	ND(0.24)					
21		11/16/2016	DNQ(0.40)	0.36	DNQ	0.36		
22		11/16/2016	DNQ(0.39)					
23		11/16/2016	DNQ(0.30)					
24		11/21/2016	ND(0.24)	0.13	DNQ	0.13		
25		11/21/2016	DNQ(0.40)					
26		11/21/2016	ND(0.24)					
27								
28								
29								
30								
31								
32		Total Suspended Solids (mg/L)						
33								
34		Date	Result	Numerical Result	Monthly Average			
35		11/2/2016	9	9	7			
36		11/8/2016	10	10				
37		11/16/2016	4	4	Daily Maximum			
38		11/21/2016	4	4	10			
39								
40								
41								
42		Settleable Solids (m/L)						
43								
44		Date	Result	Numerical Result	Monthly Average			
45		11/2/2016	11/	0.0	DNQ(0.1)			
46		11/8/2016	DNQ(0.1)	0.0	Report DNQ(0.1)			
47		11/16/2016	DNQ(0.1)	0.0	Daily Maximum			
48		11/21/2016	DNQ(0.1)	0.0	0.0			
49								
50								
51								
52								

	A	B	C	D	E	F	G	H
2								
3		001N Monthly Average Calculations						
4		NOTE: Values <Reporting Limit are treated as 0 when averaged with values ≥ RL.						
5		All Results on this sheet are included in Vendor Laboratory Data						
6								
7		0.24 mg/L is O&G method 1664 MDL for BSK Lab. (ONE-TIME EXCEPTION 12/19/2016 sample MDL=1.1 mg/L)						
8		5.0 mg/L is O&G Method 1664 Reporting Limit.						
9		Results are reported to the Water Board to the nearest tenth mg/L.						
10								
11		Oil and Grease (mg/L)						
12								
13								
14		Date	Result	Numerical Daily Average	Average Qualifier	Results for Monthly Average	Report Monthly Average	
15		12/1/2016	DNQ(1.0)	0.90	DNQ	0.90	0.88	
16		12/1/2016	DNQ(0.79)				Report DNQ(1.1)	
17		12/1/2016	DNQ(0.90)					
18		12/6/2016	DNQ(0.59)	0.20	DNQ	0.20	Daily Maximum	
19		12/6/2016	ND(0.24)				1.67	
20		12/6/2016	ND(0.24)					
21		12/13/2016	DNQ(1.6)	1.63	DNQ	1.63		
22		12/13/2016	DNQ(1.4)					
23		12/13/2016	DNQ(1.9)					
24		12/19/2016	ND(1.1)	0.00	ND	0.00		
25		12/19/2016	ND(1.1)					
26		12/19/2016	ND(1.1)					
27		12/27/2016	DNQ(1.8)	1.67	DNQ	1.67		
28		12/27/2016	DNQ(1.6)					
29		12/27/2016	DNQ(1.6)					
30								
31								
32		Total Suspended Solids (mg/L)						
33								
34		Date	Result	Numerical Result	Monthly Average			
35		12/1/2016	23	23	12			
36		12/6/2016	5	5				
37		12/13/2016	20	20	Daily Maximum			
38		12/19/2016	5	5	23			
39		12/27/2016	6	6				
40								
41								
42		Settleable Solids (ml/L)						
43								
44		Date	Result	Numerical Result	Monthly Average			
45		12/1/2016	DNQ(0.1)	0.0	DNQ(0.1)			
46		12/6/2016	DNQ(0.1)	0.0	Report DNQ (0.1)			
47		12/13/2016	DNQ(0.1)	0.0	Daily Maximum			
48		12/19/2016	DNQ(0.1)	0.0	0.0			
49		12/27/2016	DNQ(0.1)	0.0				
50								
51								
52								

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2														
3		Miscellaneous Daily Duplicate/Average and Monthly Average Calculations for eSMR												
4														
5		Duplicate pH Averages												
6														
7		Date	Time	Analysis Date	Location	Unit	Parameter	Result	Average					
8														
9		10/10/2016	10:20	10/10/2016	001P	N/A	pH	7.70	7.7					
10		10/10/2016	10:20	10/10/2016	001P	N/A	pH	7.71						
11														
12														
13		Monthly TSS Averages												
14														
15		2 mg/L is MDL. 5 mg/L is Reporting Limit.												
16		Results are reported to the Water Board to whole numbers only (no tenths).												
17										TSS for	Daily	Numerical	Reported	
18		Date	Time	Analysis Date	Location	Unit	Sample TSS	Filtrate TSS	Net TSS	Average	Average	Monthly	Monthly	
19												Average	Average	
20		10/3/2016	16:00	10/4/2016	001F	N/A	2.7	0.0	DNQ(3)	2.7	3.0	3.0	DNQ(3)	
21		10/3/2016	16:00	10/4/2016	001F	N/A	3.3	0.1	DNQ(3)	3.2				
22														
23		10/2/2016	21:10	10/2/2016	001H	1	1.0	0.0	ND(2)	0.0	0.0	0.0	ND(2)	
24		10/2/2016	2:30	10/2/2016	001H	2	0.3	0.0	ND(2)	0.0				
25														
26		10/3/2016	13:40	10/3/2016	001L	1	0.0	#N/A	ND(2)	0.0	0.0	0.0	ND(2)	
27		10/3/2016	13:50	10/3/2016	001L	2	0.0	#N/A	ND(2)	0.0				
28														
29		10/10/2016	8:20	10/10/2016	001P	N/A	4.2	0.6	DNQ(3.6)	0.0	9.8	9.8	10	
30		10/10/2016	10:20	10/10/2016	001P	N/A	10.7	0.9	9.8	9.8				
31		10/10/2016	13:30	10/10/2016	001P	N/A	20.8	1.3	19.5	19.5				
32														
33		10/6/2016	9:10	10/6/2016	003	N/A	3.4	1.0	DNQ(2.4)	2.4	2.4	2.4	DNQ(2)	
34		10/6/2016	9:10	10/6/2016	003	N/A	2.9	0.5	DNQ(2.4)	2.4				
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2														
3		Miscellaneous Daily Duplicate/Average and Monthly Average Calculations for eSMR												
4														
5		Duplicate pH Averages												
6														
7		Date	Time	Analysis Date	Location	Unit	Parameter	Result	Average					
8														
9		11/10/2016	8:40	11/10/2016	001P	N/A	pH	7.85	7.9					
10		11/10/2016	8:40	11/10/2016	001P	N/A	pH	7.85						
11														
12														
13		Monthly TSS Averages												
14														
15		2 mg/L is MDL. 5 mg/L is Reporting Limit.												
16		Results are reported to the Water Board to whole numbers only (no tenths).												
17										TSS for	Daily	Numerical	Reported	
18		Date	Time	Analysis Date	Location	Unit	Sample TSS	Filtrate TSS	Net TSS	Average	Average	Monthly	Monthly	
19												Average	Average	
20		11/3/2016	7:20	11/3/2016	001F	N/A	2.1	0.0	DNQ(2.1)	2.1	2.0	2.0	DNQ(2)	
21		11/3/2016	7:20	11/3/2016	001F	N/A	2.3	0.4	DNQ(1.9)	1.9				
22														
23		11/1/2016	16:40	11/1/2016	001H	1	6.7	1.9	DNQ(4.8)	4.8	4.8	2.4	DNQ(2)	
24		11/2/2016	9:30	11/2/2016	001H	2	0.2	0.2	ND(2)	0.0	0.0			
25														
26		11/2/2016	7:15	11/3/2016	001L	1	0.0	#N/A	ND(2)	0.0	0.0	0.0	ND(2)	
27		11/2/2016	7:20	11/3/2016	001L	2	0.0	#N/A	ND(2)	0.0				
28														
29		11/10/2016	8:40	11/10/2016	001P	N/A	37.6	0.7	36.9	36.9	15.4	15.4	15	
30		11/10/2016	12:00	11/10/2016	001P	N/A	9.9	0.7	9.2	9.2				
31		11/10/2016	14:35	11/10/2016	001P	N/A	1.2	1.1	ND(2)	0.0				
32														
33		11/7/2016	12:47	11/9/2016	003	N/A	6.3	0.2	6.1	6.1	6.2	6.2	6	
34		11/7/2016	12:47	11/9/2016	003	N/A	6.7	0.4	6.3	6.3				
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2														
3		Miscellaneous Daily Duplicate/Average and Monthly Average Calculations for eSMR												
4														
5		Duplicate pH Averages												
6														
7		Date	Time	Analysis Date	Location	Unit	Parameter	Result	Average					
8														
9		12/7/2016	9:00	12/7/2016	001P	N/A	pH	7.60	7.6					
10		12/7/2016	9:00	12/7/2016	001P	N/A	pH	7.65						
11														
12														
13		Monthly TSS Averages												
14														
15		2 mg/L is MDL. 5 mg/L is Reporting Limit.												
16		Results are reported to the Water Board to whole numbers only (no tenths).												
17										TSS for	Daily	Numerical	Reported	
18		Date	Time	Analysis Date	Location	Unit	Sample TSS	Filtrate TSS	Net TSS	Average	Average	Monthly	Monthly	
19												Average	Average	
20		12/1/2016	7:37	12/1/2016	001F	N/A	6.0	0.0	6.0	6.0	5.5	5.5	6	
21		12/1/2016	7:37	12/1/2016	001F	N/A	5.3	0.3	5.0	5.0				
22														
23		12/1/2016	15:15	12/1/2016	001H	1	4.9	4.2	ND(2)	0.0	0.0	0.0	ND(2)	
24		12/1/2016	14:55	12/1/2016	001H	2	0.4	0.2	ND(2)	0.0				
25														
26		12/5/2016	8:30	12/5/2016	001L	1	0.0	#N/A	ND(2)	0.0	0.0	0.0	ND(2)	
27		12/5/2016	8:40	12/5/2016	001L	2	0.0	#N/A	ND(2)	0.0				
28														
29		12/7/2016	9:00	12/7/2016	001P	N/A	3.9	0.8	DNQ(3.1)	0.0	16.3	16.3	16	
30		12/7/2016	12:05	12/7/2016	001P	N/A	1.8	0.6	ND(2)	0.0				
31		12/7/2016	15:00	12/7/2016	001P	N/A	49.1	0.3	48.8	48.8				
32														
33		12/5/2016	13:00	12/5/2016	003	N/A	3.6	0.1	DNQ(3.5)	3.5	3.4	3.4	DNQ(3)	
34		12/5/2016	13:00	12/5/2016	003	N/A	3.3	0.1	DNQ(3.2)	3.2				
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														

Diablo Canyon Power Plant
2016 Fourth Quarter Contract Lab Results

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41	001N Suspended Solids, Settleable Solids – 10/04/2016
42	001N Suspended Solids, Settleable Solids – 10/11/2016
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45	001N Suspended Solids, Settleable Solids – 11/02/2016
46	001N Suspended Solids, Settleable Solids – 11/08/2016
47	001N Suspended Solids, Settleable Solids – 11/16/2016
48	001N Suspended Solids, Settleable Solids – 11/21/2016
49	001N Suspended Solids, Settleable Solids – 12/01/2016
50	001N Suspended Solids, Settleable Solids – 12/06/2016
51	001N Suspended Solids, Settleable Solids – 12/13/2016
52	001N Suspended Solids, Settleable Solids – 12/19/2016
53	001N Suspended Solids, Settleable Solids – 12/27/2016
54	001D Mercury – 10/04/2016 to 11/28/2016 Composite 001F Mercury – 10/02/2016 to 10/09/2016 Composite 001H, Unit 1 Mercury – 10/03/2016 to 12/06/2016 Composite 001H, Unit 2 Mercury – 10/03/2016 to 12/05/2015 Composite 001L, Unit 1 Mercury – 10/05/2016 to 12/07/2016 Composite 001L, Unit 2 Mercury – 10/05/2016 to 12/07/2016 Composite
55	001D Metals – 10/04/2016 to 11/28/2016 Composite
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**A6J0428****Main Project - e COC Trace (MDLs)**

16-5718 DCWWTP

Certificate of Analysis**Sample ID:** A6J0428-01**Sampled By:** Jim Wysong**Sample Description:** Decant Arm**Sample Date - Time:** 10/04/16 - 08:13**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.30	0.24	5.0	mg/L	1	A613833	10/07/16	10/09/16	J

**A6J0428****Main Project - e COC Trace (MDLs)**

16-5718 DCWWTP

Certificate of Analysis**Sample ID:** A6J0428-02**Sampled By:** Jim Wysong**Sample Description:** Decant Arm**Sample Date - Time:** 10/04/16 - 08:24**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A613833	10/07/16	10/09/16	



A6J0428

Main Project - e COC Trace (MDLs)

16-5718 DCWWTP

Certificate of Analysis

Sample ID: A6J0428-03

Sampled By: Jim Wyson

Sample Description: Decant Arm

Sample Date - Time: 10/04/16 - 08:37

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.39	0.24	5.0	mg/L	1	A613833	10/07/16	10/09/16	J



A6J1335

Main Project - e COC Trace (MDLs)

16-5895 DCWWTP

Certificate of Analysis

Sample ID: A6J1335-01
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 10/11/16 - 08:30

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614354	10/18/16	10/19/16	

**A6J1335****Main Project - e COC Trace (MDLs)**

16-5895 DCWWTP

Certificate of Analysis

Sample ID: A6J1335-02

Sampled By: Jim Wyson

Sample Description: Decant Arm

Sample Date - Time: 10/11/16 - 08:44

Matrix: Water

Sample Type: Grab

BSK Associates Fresno**Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614354	10/18/16	10/19/16	



A6J1335

Main Project - e COC Trace (MDLs)

16-5895 DCWWTP

Certificate of Analysis

Sample ID: A6J1335-03
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 10/11/16 - 08:55

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.59	0.24	5.0	mg/L	1	A614354	10/18/16	10/19/16	J



A6J1979

Main Project - e COC Trace (MDLs)

16-6018 DCWWTP

Certificate of Analysis

Sample ID: A6J1979-01

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 10/17/16 - 09:12

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614516	10/20/16	10/22/16	



A6J1979

Main Project - e COC Trace (MDLs)

16-6018 DCWWTP

Certificate of Analysis

Sample ID: A6J1979-02

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 10/17/16 - 09:21

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614516	10/20/16	10/22/16	



A6J1979

Main Project - e COC Trace (MDLs)

16-6018 DCWWTP

Certificate of Analysis

Sample ID: A6J1979-03

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 10/17/16 - 09:31

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Oil and Grease (1664)										
Total Oil & Grease	EPA 1664A	0.30	0.24	5.0	mg/L	1	A614516	10/20/16	10/22/16	J

**A6J3024****Main Project - e COC Trace (MDLs)**

16-6218 DCWWTP

Certificate of Analysis**Sample ID:** A6J3024-01**Sampled By:** Jim Wysong**Sample Description:** Decant Arm**Sample Date - Time:** 10/25/16 - 09:20**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614943	10/28/16	10/30/16	



A6J3024

Main Project - e COC Trace (MDLs)

16-6218 DCWWTP

Certificate of Analysis

Sample ID: A6J3024-02

Sampled By: Jim Wyson

Sample Description: Decant Arm

Sample Date - Time: 10/25/16 - 09:30

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Oil and Grease (1664)										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A614943	10/28/16	10/30/16	



A6J3024

Main Project - e COC Trace (MDLs)

16-6218 DCWWTP

Certificate of Analysis

Sample ID: A6J3024-03
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 10/25/16 - 09:41

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Oil and Grease (1664)										
Total Oil & Grease	EPA 1664A	0.30	0.24	5.0	mg/L	1	A614943	10/28/16	10/30/16	J



A6K0461

Main Project - e COC Trace (MDLs)

16-6405 DCWWTP

Certificate of Analysis

Sample ID: A6K0461-01
Sampled By: Jim Wysong
Sample Description: Decant Arm

Sample Date - Time: 11/02/16 - 07:33

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.29	0.24	5.0	mg/L	1	A615608	11/11/16	11/13/16	J



A6K0461

Main Project - e COC Trace (MDLs)

16-6405 DCWWTP

Certificate of Analysis

Sample ID: A6K0461-02

Sampled By: Jim Wysong

Sample Description: Decant Arm

Sample Date - Time: 11/02/16 - 07:44

Matrix: Water

Sample Type: Grab

BSK Associates Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.30	0.24	5.0	mg/L	1	A615608	11/11/16	11/13/16	J



A6K0461

Main Project - e COC Trace (MDLs)

16-6405 DCWWTP

Certificate of Analysis

Sample ID: A6K0461-03
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/02/16 - 07:54
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.69	0.24	5.0	mg/L	1	A615608	11/11/16	11/13/16	J



A6K1949

Main Project - e COC Trace (MDLs)

16-6760 DCWWTP

Certificate of Analysis

Sample ID: A6K1949-01
Sampled By: Jim Wysong
Sample Description: Decant Arm

Sample Date - Time: 11/16/16 - 11:13
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.40	0.24	5.0	mg/L	1	A616123	11/23/16	11/30/16	J



A6K1949

Main Project - e COC Trace (MDLs)

16-6760 DCWWTP

Certificate of Analysis

Sample ID: A6K1949-02
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/16/16 - 11:30
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.39	0.24	5.0	mg/L	1	A616123	11/23/16	11/30/16	J



A6K1949

Main Project - e COC Trace (MDLs)

16-6760 DCWWTP

Certificate of Analysis

Sample ID: A6K1949-03
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/16/16 - 11:48

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.30	0.24	5.0	mg/L	1	A616123	11/23/16	11/30/16	J



A6K1069

Main Project - e COC Trace (MDLs)
16-6570 Severn Trent Services (DCWWTP)

Certificate of Analysis

Sample ID: A6K1069-01
Sampled By: Jim M. Wysong
Sample Description: Decant Arm

Sample Date - Time: 11/08/16 - 10:45
Matrix: Water
Sample Type: Grab

BSK Associates Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A615661	11/14/16	11/15/16	



A6K1069

Main Project - e COC Trace (MDLs)
16-6570 Severn Trent Services (DCWWTP)

Certificate of Analysis

Sample ID: A6K1069-02
Sampled By: Jim M. Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/08/16 - 10:55
Matrix: Water
Sample Type: Grab

BSK Associates Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A615661	11/14/16	11/15/16	



A6K1069

Main Project - e COC Trace (MDLs)
16-6570 Severn Trent Services (DCWWTP)

Certificate of Analysis

Sample ID: A6K1069-03
Sampled By: Jim M. Wysong
Sample Description: Decant Arm

Sample Date - Time: 11/08/16 - 11:04
Matrix: Water
Sample Type: Grab

BSK Associates Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A615661	11/14/16	11/15/16	



A6K2290

Main Project - e COC Trace (MDLs)

16-6851 DCWWTP

Certificate of Analysis

Sample ID: A6K2290-01
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/21/16 - 08:09
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Oil and Grease (1664)										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A616460	12/05/16	12/06/16	



A6K2290

Main Project - e COC Trace (MDLs)

16-6851 DCWWTP

Certificate of Analysis

Sample ID: A6K2290-02
Sampled By: Jim Wyson
Sample Description: Decant Arm

Sample Date - Time: 11/21/16 - 08:20
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Oil and Grease (1664)										
Total Oil & Grease	EPA 1664A	0.40	0.24	5.0	mg/L	1	A616460	12/05/16	12/06/16	J

**A6K2290****Main Project - e COC Trace (MDLs)**

16-6851 DCWWTP

Certificate of Analysis**Sample ID:** A6K2290-03**Sampled By:** Jim Wysong**Sample Description:** Decant Arm**Sample Date - Time:** 11/21/16 - 08:32**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A616460	12/05/16	12/06/16	



A6L0182

Main Project - e COC Trace (MDLs)

16-7041 DCCWTP

Certificate of Analysis

Sample ID: A6L0182-01
Sampled By: Client
Sample Description: Decant Arm

Sample Date - Time: 12/01/16 - 08:46
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	1.0	0.24	5.0	mg/L	1	A616707	12/10/16	12/11/16	J

**A6L0182****Main Project - e COC Trace (MDLs)**

16-7041 DCCWTP

Certificate of Analysis**Sample ID:** A6L0182-02**Sampled By:** Client**Sample Description:** Decant Arm**Sample Date - Time:** 12/01/16 - 08:57**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.79	0.24	5.0	mg/L	1	A616707	12/10/16	12/11/16	J

**A6L0182****Main Project - e COC Trace (MDLs)**

16-7041 DCCWTP

Certificate of Analysis**Sample ID:** A6L0182-03**Sampled By:** Client**Sample Description:** Decant Arm**Sample Date - Time:** 12/01/16 - 09:08**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.90	0.24	5.0	mg/L	1	A616707	12/10/16	12/11/16	J

**A6L0616****Main Project - e COC Trace (MDLs)**

16-7133 DCWWTP

Certificate of Analysis

Sample ID: A6L0616-01
Sampled By: J. Wyson
Sample Description: Decant Arm

Sample Date - Time: 12/06/16 - 08:31**Matrix:** Water**Sample Type:** Grab**BSK Associates Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	0.59	0.24	5.0	mg/L	1	A616893	12/14/16	12/15/16	J



A6L0616

Main Project - e COC Trace (MDLs)

16-7133 DCWWTP

Certificate of Analysis

Sample ID: A6L0616-02
Sampled By: J. Wyson
Sample Description: Decant Arm

Sample Date - Time: 12/06/16 - 08:43

Matrix: Water

Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A616893	12/14/16	12/15/16	



A6L0616

Main Project - e COC Trace (MDLs)

16-7133 DCWWTP

Certificate of Analysis

Sample ID: A6L0616-03
Sampled By: J. Wysong
Sample Description: Decant Arm

Sample Date - Time: 12/06/16 - 08:58
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664)</u>										
Total Oil & Grease	EPA 1664A	ND	0.24	5.0	mg/L	1	A616893	12/14/16	12/15/16	



A6L1419

Main Project - e COC Trace (MDLs)

16-7309 DCWWTP

Certificate of Analysis

Sample ID: A6L1419-01

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 12/13/16 - 09:16

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.6	1.1	5.0	mg/L	1	A617363	12/26/16	12/26/16	J



A6L1419

Main Project - e COC Trace (MDLs)

16-7309 DCWWTP

Certificate of Analysis

Sample ID: A6L1419-02

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 12/13/16 - 09:27

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.4	1.1	5.0	mg/L	1	A617363	12/26/16	12/26/16	J



A6L1419

Main Project - e COC Trace (MDLs)

16-7309 DCWWTP

Certificate of Analysis

Sample ID: A6L1419-03

Sampled By: Client

Sample Description: Decant Arm

Sample Date - Time: 12/13/16 - 09:38

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.9	1.1	5.0	mg/L	1	A617363	12/26/16	12/26/16	J

**A6L2125****Main Project - e COC Trace (MDLs)**

16-7429 DCWWTP

Certificate of Analysis**Sample ID:** A6L2125-01**Sampled By:** Jim Wyson**Sample Description:** Decant Arm**Sample Date - Time:** 12/19/16 - 11:41**Matrix:** Water**Sample Type:** Grab**BSK Associates Laboratory Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	ND	1.1	5.0	mg/L	1	A700199	01/05/17	01/06/17	



A6L2125

Main Project - e COC Trace (MDLs)

16-7429 DCWWTP

Certificate of Analysis

Sample ID: A6L2125-02

Sampled By: Jim Wysong

Sample Description: Decant Arm

Sample Date - Time: 12/19/16 - 11:53

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	ND	1.1	5.0	mg/L	1	A700199	01/05/17	01/06/17	



A6L2125

Main Project - e COC Trace (MDLs)

16-7429 DCWWTP

Certificate of Analysis

Sample ID: A6L2125-03
Sampled By: Jim Wysong
Sample Description: Decant Arm

Sample Date - Time: 12/19/16 - 12:08

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	ND	1.1	5.0	mg/L	1	A700199	01/05/17	01/06/17	

**A6L2735****Main Project - e COC Trace (MDLs)**

16-7557 DCWWTP

Certificate of Analysis**Sample ID:** A6L2735-01**Sampled By:** Jim Wysong**Sample Description:** Decant Arm**Sample Date - Time:** 12/27/16 - 08:40**Matrix:** Water**Sample Type:** Grab**BSK Associates Laboratory Fresno****Organics**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.8	1.1	5.0	mg/L	1	A700001	01/02/17	01/04/17	B2.2, J

**A6L2735****Main Project - e COC Trace (MDLs)**

16-7557 DCWWTP

Certificate of Analysis

Sample ID: A6L2735-02
Sampled By: Jim Wysong
Sample Description: Decant Arm

Sample Date - Time: 12/27/16 - 08:51
Matrix: Water
Sample Type: Grab

BSK Associates Laboratory Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.6	1.1	5.0	mg/L	1	A700001	01/02/17	01/04/17	B2.2, J



A6L2735

Main Project - e COC Trace (MDLs)

16-7557 DCWWTP

Certificate of Analysis

Sample ID: A6L2735-03
Sampled By: Jim Wysong
Sample Description: Decant Arm

Sample Date - Time: 12/27/16 - 09:03
Matrix: Water
Sample Type: Grab

BSK Associates Laboratory Fresno
Organics

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<u>Oil and Grease (1664B)</u>										
Total Oil & Grease	EPA 1664B	1.6	1.1	5.0	mg/L	1	A700001	01/02/17	01/04/17	B2.2, J

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-5718

Date/Time Rec'd: 10/4/16 1512

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	10/4/16 0813	Suspended Solids	SM 2540 D.	9.	2.57	3.	1	mg/L	10/06/16
-2	Decant Arm	10/4/16 0830	Settleable Solids	SM 2540 F.	0.1		0.1	1	mL/L	10/04/16
-6	Influent PRT	10/4/16 0810	Suspended Solids	SM 2540 D.	567.	2.57	3.	1	mg/L	10/06/16

SUB Oil & Grease

Report Completion date: 10/7/16Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-5740-2	10/6/2016	Suspended Solids	SM 2540D	10.	mg/L	Acceptable
Duplicate 16-5740-2	10/6/2016	Suspended Solids Dup.	SM 2540D	11.	mg/L	
				104% Rec		
	10/6/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.
141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
Phone: 595-1080 Fax: 595-1080

Order #: 16-5895
Date/Time Rec'd: 10/11/16 1325

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	10/11/16 0830	Suspended Solids	SM 2540 D.	16.	2.57	3.	1	mg/L	10/13/16
-2	Decant Arm	10/11/16 0845	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	10/11/16
-2	Influent PRT	10/11/16 0815	Suspended Solids	SM 2540 D.	468.	2.57	3.	1	mg/L	10/13/16

SUB Oil & Grease

Report Completion date: 10/14/16

Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-5838-3	10/13/2016	Suspended Solids	SM 2540D	315.	mg/L	Acceptable
Duplicate 16-5838-3	10/13/2016	Suspended Solids Dup.	SM 2540D	283.	mg/L	
				90% Rec		
	10/13/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.
 141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
 Phone: 595-1080 Fax: 595-1080

Order #: 16-6018
 Date/Time Rec'd: 10/17/16 1502


Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
 Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	10/17/16 0912	Suspended Solids	SM 2540 D.	4.	2.57	3.	1	mg/L	10/18/16
-2	Decant Arm	10/17/16 0930	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	10/18/16
-3	Influent PRT	10/17/16 0920	Suspended Solids	SM 2540 D.	204.	2.57	3.	1	mg/L	10/18/16

SUB Oil & Grease

Report Completion date: 10/21/16

Reviewed: 
 Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)
 mg/L = milligrams per liter (ppm)
 MDL = Method Detection Limit
 RL = Reporting Limit
 ND = Analyte NOT DETECTED at or above MDL

		QA/QC Results					Difference %
Description	Run Date	Test	Method	Result	Units		
16-6002-1	10/18/2016	Suspended Solids	SM 2540D	18.	mg/L	Acceptable	
Duplicate 16-6002-1	10/18/2016	Suspended Solids Dup.	SM 2540D	19.	mg/L		
				93% Rec			
	10/18/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average	

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-6218

Date/Time Rec'd: 10/25/16 1331

Diablo Canyon WWTP**320 Beta Court****Arroyo Grande, CA 93420**

Project: DCWWTP

Contact: Jim Wysong**Phone: 550-1217****Sampler: Jim Wysong**

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	10/25/16 0920	Suspended Solids	SM 2540 D.	7.	2.57	3.	1	mg/L	10/27/16
-2	Decant Arm	10/25/16 0935	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	10/25/16
-6	Influent PRT	10/25/16 0945	Suspended Solids	SM 2540 D.	856.	2.57	3.	1	mg/L	10/27/16

SUB Oil & Grease

Report Completion date: 10/31/16Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

		QA/QC Results					
Description	Run Date	Test	Method	Result	Units	Difference %	
16-6218-1	10/27/2016	Suspended Solids	SM 2540D	7.	mg/L	100%	Acceptable
Duplicate 16-6218-1	10/27/2016	Suspended Solids Dup.	SM 2540D	7.	mg/L	100%	
				100% Rec			
16-6218-1	10/27/2016	Suspended Solids	SM 2540D	<3.	mg/L	100%	< 5% of Average

Abalone Coast Analytical, Inc.
141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
Phone: 595-1080 Fax: 595-1080

Order #: 16-6570
Date/Time Rec'd: 11/8/16 1340

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	11/8/16 1045	Suspended Solids	SM 2540 D.	10.	2.57	3.	1	mg/L	11/10/16
-2	Decant Arm	11/8/16 1100	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	11/08/16

SUB Oil & Grease

Report Completion date: 11/15/16

Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %	
6576-1	11/10/2016	Suspended Solids	SM 2540D	84.	mg/L		Acceptable
Duplicate 6576-1	11/10/2016	Suspended Solids Dup.	SM 2540D	82.	mg/L	2%	
Blank	11/10/2016	Suspended Solids	SM 2540D	<3.	mg/L		< 5% of Average

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-6405

Date/Time Rec'd: 11/2/16 1342

Diablo Canyon WWTP**320 Beta Court****Arroyo Grande, CA 93420**

Project: DCWWTP

Contact: Jim Wysong**Phone: 550-1217****Sampler: Jim Wysong**

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	11/2/16 0733	Suspended Solids	SM 2540 D.	9.	2.57	3.	1	mg/L	11/03/16
-2	Decant Arm	11/2/16 0745	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	11/02/16

SUB Oil & Grease

Report Completion date: 11/7/16Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-6358-1	11/3/2016	Suspended Solids	SM 2540D	82.	mg/L	Acceptable
Duplicate 16-6358-1	11/3/2016	Suspended Solids Dup.	SM 2540D	82.	mg/L	
				100% Rec		
	11/3/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.
141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
Phone: 595-1080 Fax: 595-1080

Order #: 16-6760
Date/Time Rec'd: 11/16/16 1256

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	11/16/16 1113	Suspended Solids	SM 2540 D.	4.	2.57	3.	1	mg/L	11/17/16
-2	Decant Arm	11/16/16 0745	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	11/16/16

SUB Oil & Grease

Report Completion date: 11/21/16

Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %	
16-6760-1	11/17/2016	Suspended Solids	SM 2540D	5.	mg/L	100%	Acceptable
Duplicate 16-6760-1	11/17/2016	Suspended Solids Dup.	SM 2540D	5.	mg/L	100%	
				100% Rec			
Blank	11/17/2016	Suspended Solids	SM 2540D	<3.	mg/L		< 5% of Average

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-6851

Date/Time Rec'd: 11/21/16 1339

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong

Phone: 550-1217

Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	11/21/16 0809	Suspended Solids	SM 2540 D.	4.	2.57	3.	1	mg/L	11/22/16
-2	Decant Arm	11/21/16 0825	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	11/22/16

SUB Oil & Grease

Report Completion date: 11/23/16Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %	
16-6795-2	11/22/2016	Suspended Solids	SM 2540D	11.	mg/L	1%	Acceptable
Duplicate 16-6795-2	11/22/2016	Suspended Solids Dup.	SM 2540D	12.	mg/L	1%	
				Rec			
16-6795-2	11/22/2016	Suspended Solids	SM 2540D	<3.	mg/L	1%	< 5% of Average

Abalone Coast Analytical, Inc.
141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
Phone: 595-1080 Fax: 595-1080

Order #: 16-7041
Date/Time Rec'd: 12/1/16 1335

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	12/1/16 0846	Suspended Solids	SM 2540 D.	23.	2.57	3.	1	mg/L	12/05/16
-2	Decant Arm	12/1/16 0900	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	12/01/16

SUB Oil & Grease

Report Completion date: 12/6/16

Reviewed:



Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-7077-1	12/5/2016	Suspended Solids	SM 2540D	7.	mg/L	Acceptable
Duplicate 16-7077-1	12/5/2016	Suspended Solids Dup.	SM 2540D	8.	mg/L	
Recovery	12/5/2016	Suspended Solids	SM 2540D	Rec 105%		
Blank	12/5/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.
141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
Phone: 595-1080 Fax: 595-1080

Order #: 16-7133
Date/Time Rec'd: 12/6/16 1329

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
Project: DCWWTP

Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	12/6/16 0831	Suspended Solids	SM 2540 D.	5.	2.57	3.	1	mg/L	12/08/16
-2	Decant Arm	12/6/16 0900	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	12/06/16

SUB Oil & Grease

Report Completion date: 12/13/16

Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results						
Description	Run Date	Test	Method	Result	Units	Difference %
16-7131-1	12/8/2016	Suspended Solids	SM 2540D	3.7	mg/L	Acceptable
Duplicate 16-7131-1	12/8/2016	Suspended Solids Dup.	SM 2540D	3.8	mg/L	
Recovery		Suspended Solids	SM 2540D	Rec 103%		
Blank	12/8/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-7309

Date/Time Rec'd: 12/13/16 1422

Diablo Canyon WWTP

320 Beta Court

Arroyo Grande, CA 93420

Project: DCWWTP

Contact: Jim Wysong

Phone: 550-1217

Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	12/13/16 0916	Suspended Solids	SM 2540 D.	20.	2.57	3.	1	mg/L	12/15/16
-2	Decant Arm	12/13/16 0930	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	12/13/16

SUB Oil & Grease

Report Completion date: 12/19/16Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

		QA/QC Results		Method	Result	Units	Difference %
Description	Run Date	Test					
16-7304	12/15/2016	Suspended Solids		SM 2540D	26.	mg/L	Acceptable
Duplicate 16-7304	12/15/2016	Suspended Solids Dup.		SM 2540D	26.	mg/L	
Recovery	12/15/2016	Suspended Solids		SM 2540D	Rec 100%		
Blank	12/15/2016	Suspended Solids		SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.
 141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401
 Phone: 595-1080 Fax: 595-1080

Order #: 16-7429
 Date/Time Rec'd: 12/19/16 1315

Diablo Canyon WWTP
320 Beta Court
Arroyo Grande, CA 93420
 Project: DCWWTP


Contact: Jim Wysong
Phone: 550-1217
Sampler: Jim Wysong

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	12/19/16 1141	Suspended Solids	SM 2540 D.	5.	2.57	3.	1	mg/L	12/22/16
-2	Decant Arm	12/19/16 0810	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	12/19/16

SUB Oil & Grease

Report Completion date: 12/27/16

Reviewed: _____


 Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-7453-1	12/22/2016	Suspended Solids	SM 2540D	9.	mg/L	Acceptable
Duplicate 16-7453-1	12/22/2016	Suspended Solids Dup.	SM 2540D	9.	mg/L	
Recovery	12/22/2016	Suspended Solids	SM 2540D	Rec 94%		
Blank	12/22/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Abalone Coast Analytical, Inc.

141 Suburban Rd, Ste C-1 San Luis Obispo CA, 93401

Phone: 595-1080 Fax: 595-1080

Order #: 16-7557

Date/Time Rec'd: 12/27/16 1343

Diablo Canyon WWTP**320 Beta Court****Arroyo Grande, CA 93420**

Project: DCWWTP

Contact: Jim Wysong**Phone: 550-1217****Sampler: Jim Wysong**

Sample #	Sample Description	Date / Time	Analysis	Method	Result	MDL	RL	Dil Factor	Units	Completed
-1	Decant Arm	12/27/16 0840	Suspended Solids	SM 2540 D.	6.	2.57	3.	1	mg/L	12/29/16
-2	Decant Arm	12/27/16 0855	Settleable Solids	SM 2540 F.	<0.1		0.1	1	mL/L	12/27/16

SUB Oil & Grease

Report Completion Date: 1/3/17Reviewed: 

Amanda Smith, Lab Director

Definitions:

mL/L = milliliters per liter (ppm)

mg/L = milligrams per liter (ppm)

MDL = Method Detection Limit

RL = Reporting Limit

ND = Analyte NOT DETECTED at or above MDL

QA/QC Results

Description	Run Date	Test	Method	Result	Units	Difference %
16-7584-1	12/29/2016	Suspended Solids	SM 2540D	8.	mg/L	Acceptable
Duplicate 16-7584-1	12/29/2016	Suspended Solids Dup.	SM 2540D	8.	mg/L	
Recovery		Suspended Solids	SM 2540D	Rec 100%		
Blank	12/29/2016	Suspended Solids	SM 2540D	<3.	mg/L	< 5% of Average

Client Sample Results

Client: PG&E Corporation
Project/Site: Diablo Canyon Power Plant

TestAmerica Job ID: 160-20450-1

Client Sample ID: 001F OWS 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-1

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 16:53	1

Client Sample ID: 001H U-1 CDRS 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-2

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 16:57	1

Client Sample ID: 001H U-2 CDRS 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-3

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 17:00	1

Client Sample ID: 001L U-1 SGBD 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-4

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 17:03	1

Client Sample ID: 001L U-2 SGBD 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-5

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 17:07	1

Client Sample ID: 001D LRW 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20450-6

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.080	ug/L		12/23/16 09:44	12/23/16 17:10	1

TestAmerica St. Louis

Client Sample Results

Client: PG&E Corporation
Project/Site: Diablo Canyon Power Plant

TestAmerica Job ID: 160-20449-1

Client Sample ID: 001D LRW 4TH QTR 2016 COMPOSITE

Lab Sample ID: 160-20449-1

Date Collected: 12/14/16 10:00

Matrix: Water

Date Received: 12/19/16 11:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.12	J	1.0	0.10	ug/L		12/28/16 10:36	12/28/16 16:53	1
Cadmium	0.22	J	0.50	0.043	ug/L		12/28/16 10:36	12/28/16 16:53	1
Chromium	3.0		2.0	1.0	ug/L		12/28/16 10:36	12/28/16 16:53	1
Copper	2.9	J	5.0	0.50	ug/L		12/28/16 10:36	12/28/16 16:53	1
Nickel	1.8	J	5.0	0.40	ug/L		12/28/16 10:36	12/28/16 16:53	1
Lead	0.81		0.30	0.060	ug/L		12/28/16 10:36	12/28/16 16:53	1
Zinc	59		20	2.8	ug/L		12/28/16 10:36	12/28/16 16:53	1

TestAmerica St. Louis



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Diablo Canyon Power Plant
Contact: Clint Gans
Address: 4340 Old Santa Fe Road
San Luis Obispo, CA 93401

Analytical Report: Page 2 of 6
Project Name: Diablo Canyon Power Plant-Closed
Project Number: NPDES - Avila Beach, CA

Work Order Number: B6J0983

Report Date: 20-Oct-2016

Received on Ice (Y/N): Yes Temp: 3 °C

Laboratory Reference Number

B6J0983-01

Sample Description

Intake

Matrix

Liquid

Sampled Date/Time

10/04/16 09:55

Received Date/Time

10/11/16 9:15

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Nutrients Ammonia-Nitrogen	0.19	0.10	0.048	mg/L	SM4500NH3H	10/14/16 14:29	sl	

mailing
P.O Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
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www.babcocklabs.com

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



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Diablo Canyon Power Plant
Contact: Clint Gans
Address: 4340 Old Santa Fe Road
San Luis Obispo, CA 93401

Analytical Report: Page 3 of 6
Project Name: Diablo Canyon Power Plant-Closed
Project Number: NPDES - Avila Beach, CA

Work Order Number: B6J0983

Report Date: 20-Oct-2016

Received on Ice (Y/N): Yes Temp: 3 °C

Laboratory Reference Number

B6J0983-02

Sample Description

Discharge

Matrix

Liquid

Sampled Date/Time

10/04/16 10:07

Received Date/Time

10/11/16 9:15

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Nutrients Ammonia-Nitrogen	0.15	0.10	0.048	mg/L	SM4500NH3H	10/14/16 14:29	sl	

mailing

P.O Box 432
Riverside, CA 92502-0432

location

6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



January 17, 2017

Mr. Clint Gans
PG&E- Diablo Canyon Power Plant
9 Miles NW Avila Beach
Avila Beach, CA 93424

Dear Mr. Gans:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Guidelines for Performing Static Acute Fish Bioassays in Municipal and Industrial Waste Waters* as provided to us by Frederic R. Kopperdahl, Fish and Wildlife Water Pollution Control Laboratory, Department of Fish and Game. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

CLIENT:	PG&E- Diablo Canyon Power Plant
SAMPLE I.D.:	Discharge 001- Acute
DATE RECEIVED:	20 Dec - 2016
ABC LAB. NO.:	PGE1216.194

ACUTE ABALONE SURVIVAL BIOASSAY

LC50 = 100 % Survival in 100 % Sample
*TUa = 0.00
* TU(a) Is calculated by: $\log (\% \text{ Mortality})/1.7$

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 17 Jan-17 09:21 (p 1 of 1)

Test Code: PGE1216.194 | 12-3260-1887

96 Hour Red Abalone Survival

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 20-5802-7777	Test Type: Survival (96h)	Analyst:
Start Date: 21 Dec-16 09:51	Protocol: Kopperdahl (1976)	Diluent: Laboratory Seawater
Ending Date: 25 Dec-16 08:24	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 95h	Source: Cultured Abalone	Age:
Sample ID: 16-5318-9222	Code: PGE1216.194	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 23h (5.8 °C)	Station: Discharge 001- Acute	

Single Comparison Summary

Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result
16-0980-0849	96h Survival Rate	Equal Variance t Two-Sample Test	1.0000	100% passed 96h survival rate

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2
0	N	1.0000	1.0000
100		1.0000	1.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	N	10/10	10/10
100		10/10	10/10

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)

Test Code: PGE1216.194 | 12-3260-1887

96 Hour Red Abalone Survival

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-0980-0849	Endpoint: 96h Survival Rate	CETIS Version: CETISv1.9.2
Analyzed: 16 Jan-17 17:31	Analysis: Parametric-Two Sample	Official Results: Yes
Batch ID: 20-5802-7777	Test Type: Survival (96h)	Analyst: ✓
Start Date: 21 Dec-16 09:51	Protocol: Kopperdahl (1976)	Diluent: Laboratory Seawater
Ending Date: 25 Dec-16 08:24	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 95h	Source: Cultured Abalone	Age:
Sample ID: 16-5318-9222	Code: PGE1216.194	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 23h (5.8 °C)	Station: Discharge 001- Acute	

Data Transform	Alt Hyp	Comparison Result
Angular (Corrected)	C > T	100% passed 96h survival rate

Equal Variance t Two-Sample Test

Control	vs	Conc-%	Test Stat	Critical	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		100	0	2.92	2	CDF	1.0000	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0	0	1	65540	1.5E-05	Significant Effect
Error	0	0	2			
Total	0		3			

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	2	1.412	1.409	1.415	1.412	1.412	1.412	0	0.00%	0.00%
100		2	1.412	1.409	1.415	1.412	1.412	1.412	0	0.00%	0.00%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2
0	N	1.0000	1.0000
100		1.0000	1.0000

Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2
0	N	1.412	1.412
100		1.412	1.412

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	N	10/10	10/10
100		10/10	10/10

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)

Test Code: PGE1216.194 | 12-3260-1887

96 Hour Red Abalone Survival

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-0980-0849

Endpoint: 96h Survival Rate

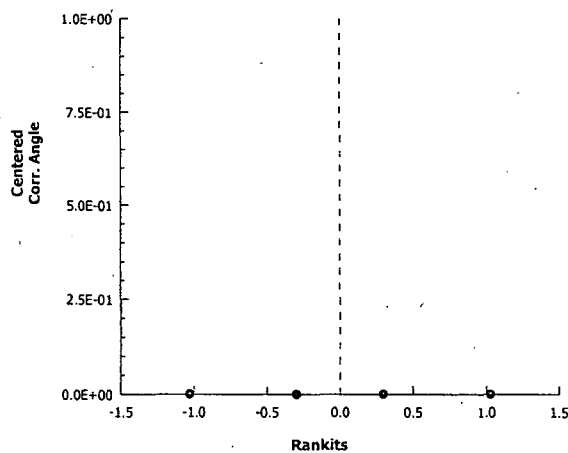
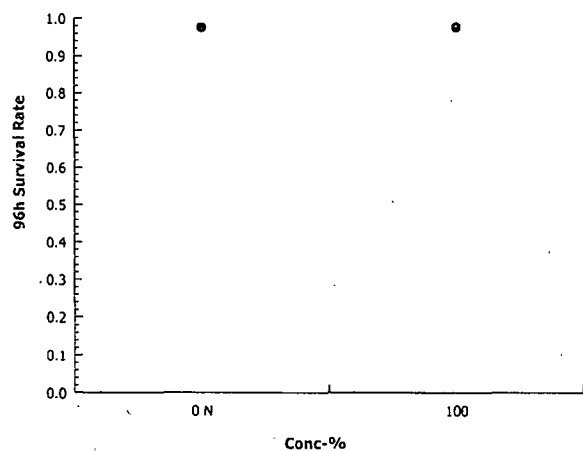
CETIS Version: CETISv1.9.2

Analyzed: 16 Jan-17 17:31

Analysis: Parametric-Two Sample

Official Results: Yes

Graphics



CETIS Measurement Report

Report Date: 17 Jan-17 09:21 (p 1 of 1)
Test Code: PGE1216.194 | 12-3260-1887

96 Hour Red Abalone Survival

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 20-5802-7777
Start Date: 21 Dec-16 09:51
Ending Date: 25 Dec-16 08:24
Duration: 95h
Test Type: Survival (96h)
Protocol: Kopperdahl (1976)
Species: Haliotis rufescens
Source: Cultured Abalone

Analyst:
Diluent: Laboratory Seawater
Brine: Not Applicable
Age:

Sample ID: 16-5318-9222
Sample Date: 20 Dec-16 10:45
Receipt Date: 20 Dec-16 15:10
Sample Age: 23h (5.8 °C)
Code: PGE1216.194
Material: Sample Water
Source: Bioassay Report
Station: Discharge 001- Acute

Client: Pacific Gas & Electric Co.
Project: Toxicity Testing

Dissolved Oxygen-mg/L

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	10	7.91	7.609	8.211	7.4	8.6	0.1329	0.4202	5.31%	0
100		10	7.75	7.484	8.016	7.3	8.3	0.1176	0.3719	4.8%	0
Overall		20	7.83	7.645	8.015	7.3	8.6	0.08829	0.3948	5.04%	0 (0%)

pH-Units

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	10	7.42	7.354	7.486	7.3	7.5	0.02906	0.09189	1.24%	0
100		10	7.49	7.366	7.614	7.3	7.8	0.05467	0.1729	2.31%	0
Overall		20	7.455	7.39	7.52	7.3	7.8	0.03118	0.1395	1.87%	0 (0%)

Salinity-ppt

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	10	34	34	34	34	34	0	0	0.0%	0
100		10	34	34	34	34	34	0	0	0.0%	0
Overall		20	34	34	34	34	34	0	0	0.00%	0 (0%)

Temperature-°C

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	10	14.53	14.5	14.56	14.5	14.6	0.01527	0.04828	0.33%	0
100		10	14.54	14.5	14.58	14.5	14.6	0.01632	0.05161	0.35%	0
Overall		20	14.54	14.51	14.56	14.5	14.6	0.01094	0.04894	0.34%	0 (0%)

Dissolved Oxygen-mg/L

Conc-%	Code	1	2	3	4	5	6	7	8	9	10
0	N	8.6	8.6	7.4	7.5	7.6	7.7	8	8	7.7	8
100		8.3	8.3	7.4	7.3	7.5	7.5	8	7.7	8	7.5

pH-Units

Conc-%	Code	1	2	3	4	5	6	7	8	9	10
0	N	7.5	7.5	7.5	7.4	7.5	7.5	7.3	7.4	7.3	7.3
100		7.8	7.8	7.4	7.4	7.5	7.4	7.5	7.4	7.4	7.3

Salinity-ppt

Conc-%	Code	1	2	3	4	5	6	7	8	9	10
0	N	34	34	34	34	34	34	34	34	34	34
100		34	34	34	34	34	34	34	34	34	34

Temperature-°C

Conc-%	Code	1	2	3	4	5	6	7	8	9	10
0	N	14.6	14.6	14.6	14.5	14.5	14.5	14.5	14.5	14.5	14.5
100		14.5	14.5	14.6	14.6	14.5	14.6	14.6	14.5	14.5	14.5



January 17, 2017

Mr. Clint Gans
PG&E- Diablo Canyon Power Plant
9 Miles NW Avila Beach
Avila Beach, CA 93424

Dear Mr. Gans:

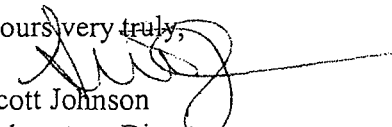
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA-R-95/136. "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

CLIENT:	PG&E- Diablo Canyon Power Plant
SAMPLE I.D.:	Discharge 001
DATE RECEIVED:	20 Dec - 2016
ABC LAB. NO.:	PGE1216.195

CHRONIC ABALONE LARVAL DEVELOPMENT BIOASSAY

NOEC =	100.00 %
TUc =	1.00
EC25 =	>100.00 %
EC50 =	>100.00 %

Yours very truly,


Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 17 Jan-17 09:21 (p 1 of 1)

Test Code: PGE1216.195 | 06-6646-9526

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 03-7513-0511	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:31	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 14-9573-1426	Code: PGE1216.195	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 5h (5.8 °C)	Station: Discharge 001- Chronic	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
03-6078-9719	Proportion Normal	Steel Many-One Rank Sum Test	100	> 100	n/a	1	1.96%

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	Level	%	95% LCL	95% UCL	TU	✓
03-3140-6330	Proportion Normal	Linear Interpolation (ICPIN)	EC5	>100	n/a	n/a	<1	
			EC10	>100	n/a	n/a	<1	
			EC15	>100	n/a	n/a	<1	
			EC20	>100	n/a	n/a	<1	
			EC25	>100	n/a	n/a	<1	
			EC40	>100	n/a	n/a	<1	
			EC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
03-3140-6330	Proportion Normal	Control Resp	0.982	0.8	>>	Yes	Passes Criteria
03-6078-9719	Proportion Normal	Control Resp	0.982	0.8	>>	Yes	Passes Criteria

Proportion Normal Summary

Conc.-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	5	0.9820	0.9658	0.9982	0.9600	0.9900	0.0058	0.0130	1.33%	0.00%
10		5	0.9940	0.9829	1.0000	0.9800	1.0000	0.0040	0.0089	0.90%	-1.22%
18		5	0.9940	0.9829	1.0000	0.9800	1.0000	0.0040	0.0089	0.90%	-1.22%
32		5	0.9900	0.9776	1.0000	0.9800	1.0000	0.0045	0.0100	1.01%	-0.81%
56		5	0.9820	0.9716	0.9924	0.9700	0.9900	0.0037	0.0084	0.85%	0.00%
100		5	0.9920	0.9758	1.0000	0.9700	1.0000	0.0058	0.0130	1.31%	-1.02%

Proportion Normal Detail

Conc.-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9900	0.9600	0.9800	0.9900
10		1.0000	0.9900	1.0000	0.9800	1.0000
18		0.9900	1.0000	1.0000	0.9800	1.0000
32		0.9800	0.9900	1.0000	0.9800	1.0000
56		0.9900	0.9800	0.9700	0.9800	0.9900
100		1.0000	0.9900	0.9700	1.0000	1.0000

Proportion Normal Binomials

Conc.-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	99/100	96/100	98/100	99/100
10		100/100	99/100	100/100	98/100	100/100
18		99/100	100/100	100/100	98/100	100/100
32		98/100	99/100	100/100	98/100	100/100
56		99/100	98/100	97/100	98/100	99/100
100		100/100	99/100	97/100	100/100	100/100

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)

Test Code: PGE1216.195 | 06-6646-9526

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-6078-9719	Endpoint: Proportion Normal	CETIS Version: CETISv1.9.2
Analyzed: 16 Jan-17 17:21	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 03-7513-0511	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:31	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 14-9573-1426	Code: PGE1216.195	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 5h (5.8 °C)	Station: Discharge 001- Chronic	

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	C > T	100	> 100	n/a	1	1.96%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		10	35	16	2	8	Asymp	0.9979	Non-Significant Effect
		18	35	16	2	8	Asymp	0.9979	Non-Significant Effect
		32	31.5	16	2	8	Asymp	0.9757	Non-Significant Effect
		56	26	16	2	8	Asymp	0.7237	Non-Significant Effect
		100	34.5	16	1	8	Asymp	0.9969	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.982	0.8	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.01499	0.002998	5	1.563	0.2083	Non-Significant Effect
Error	0.0460239	0.0019177	24			
Total	0.0610139		29			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance Test	1.087	15.09	0.9552	Equal Variances
Variances	Levene Equality of Variance Test	0.3727	3.895	0.8623	Equal Variances
Variances	Mod Levene Equality of Variance Test	0.09167	4.248	0.9925	Equal Variances
Distribution	Anderson-Darling A2 Normality Test	1.969	3.878	<1.0E-37	Non-Normal Distribution
Distribution	D'Agostino Kurtosis Test	0.901	2.576	0.3676	Normal Distribution
Distribution	D'Agostino Skewness Test	1.767	2.576	0.0773	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus Test	3.933	9.21	0.1399	Normal Distribution
Distribution	Kolmogorov-Smirnov D Test	0.2954	0.1853	3.4E-07	Non-Normal Distribution
Distribution	Shapiro-Wilk W Normality Test	0.8618	0.9031	0.0011	Non-Normal Distribution

Proportion Normal Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	5	0.9820	0.9658	0.9982	0.9900	0.9600	0.9900	0.0058	1.33%	0.00%
10		5	0.9940	0.9829	1.0000	1.0000	0.9800	1.0000	0.0040	0.90%	-1.22%
18		5	0.9940	0.9829	1.0000	1.0000	0.9800	1.0000	0.0040	0.90%	-1.22%
32		5	0.9900	0.9776	1.0000	0.9900	0.9800	1.0000	0.0045	1.01%	-0.81%
56		5	0.9820	0.9716	0.9924	0.9800	0.9700	0.9900	0.0037	0.85%	0.00%
100		5	0.9920	0.9758	1.0000	1.0000	0.9700	1.0000	0.0058	1.31%	-1.02%

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)
Test Code: PGE1216.195 | 06-6646-9526

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-6078-9719 Endpoint: Proportion Normal
Analyzed: 16 Jan-17 17:21 Analysis: Nonparametric-Control vs Treatments

CETIS Version: CETISv1.9.2
Official Results: Yes

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	5	1.442	1.387	1.497	1.471	1.369	1.471	0.01987	3.08%	0.00%
10		5	1.492	1.441	1.544	1.521	1.429	1.521	0.0186	2.79%	-3.49%
18		5	1.492	1.441	1.544	1.521	1.429	1.521	0.0186	2.79%	-3.49%
32		5	1.474	1.417	1.531	1.471	1.429	1.521	0.02056	3.12%	-2.22%
56		5	1.439	1.4	1.478	1.429	1.397	1.471	0.01413	2.20%	0.20%
100		5	1.486	1.418	1.553	1.521	1.397	1.521	0.02433	3.66%	-3.04%

Proportion Normal Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9900	0.9600	0.9800	0.9900
10		1.0000	0.9900	1.0000	0.9800	1.0000
18		0.9900	1.0000	1.0000	0.9800	1.0000
32		0.9800	0.9900	1.0000	0.9800	1.0000
56		0.9900	0.9800	0.9700	0.9800	0.9900
100		1.0000	0.9900	0.9700	1.0000	1.0000

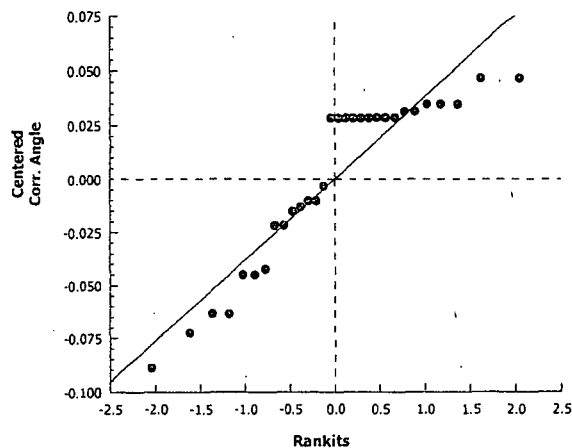
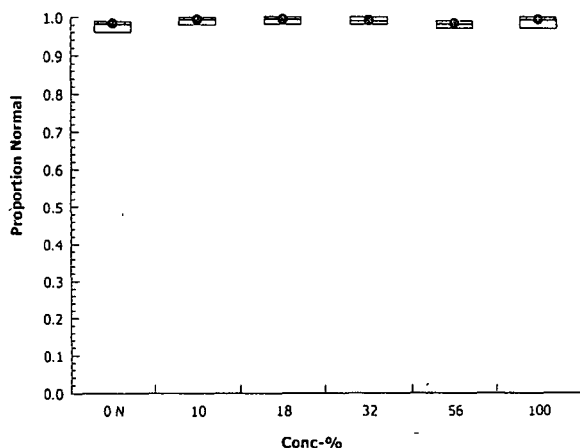
Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	1.471	1.471	1.369	1.429	1.471
10		1.521	1.471	1.521	1.429	1.521
18		1.471	1.521	1.521	1.429	1.521
32		1.429	1.471	1.521	1.429	1.521
56		1.471	1.429	1.397	1.429	1.471
100		1.521	1.471	1.397	1.521	1.521

Proportion Normal Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	99/100	96/100	98/100	99/100
10		100/100	99/100	100/100	98/100	100/100
18		99/100	100/100	100/100	98/100	100/100
32		98/100	99/100	100/100	98/100	100/100
56		99/100	98/100	97/100	98/100	99/100
100		100/100	99/100	97/100	100/100	100/100

Graphics



CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)
Test Code: PGE1216.195 | 06-6646-9526

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-3140-6330	Endpoint: Proportion Normal	CETIS Version: CETISv1.9.2
Analyzed: 16 Jan-17 17:21	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 03-7513-0511	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:31	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 14-9573-1426	Code: PGE1216.195	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 5h (5.8 °C)	Station: Discharge 001- Chronic	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	0.982	0.8	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	n/a	n/a	<1	n/a	n/a
EC10	>100	n/a	n/a	<1	n/a	n/a
EC15	>100	n/a	n/a	<1	n/a	n/a
EC20	>100	n/a	n/a	<1	n/a	n/a
EC25	>100	n/a	n/a	<1	n/a	n/a
EC40	>100	n/a	n/a	<1	n/a	n/a
EC50	>100	n/a	n/a	<1	n/a	n/a

Proportion Normal Summary

Conc-%	Code	Count	Calculated Variate(A/B)								A	B
			Mean	Min	Max	Std Err	Std Dev	CV%	%Effect			
0	N	5	0.9820	0.9600	0.9900	0.0058	0.0130	1.33%	0.0%		491	500
10		5	0.9940	0.9800	1.0000	0.0040	0.0089	0.90%	-1.22%		497	500
18		5	0.9940	0.9800	1.0000	0.0040	0.0089	0.90%	-1.22%		497	500
32		5	0.9900	0.9800	1.0000	0.0045	0.0100	1.01%	-0.81%		495	500
56		5	0.9820	0.9700	0.9900	0.0037	0.0084	0.85%	0.0%		491	500
100		5	0.9920	0.9700	1.0000	0.0058	0.0130	1.31%	-1.02%		496	500

Proportion Normal Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9900	0.9600	0.9800	0.9900
10		1.0000	0.9900	1.0000	0.9800	1.0000
18		0.9900	1.0000	1.0000	0.9800	1.0000
32		0.9800	0.9900	1.0000	0.9800	1.0000
56		0.9900	0.9800	0.9700	0.9800	0.9900
100		1.0000	0.9900	0.9700	1.0000	1.0000

Proportion Normal Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	99/100	96/100	98/100	99/100
10		100/100	99/100	100/100	98/100	100/100
18		99/100	100/100	100/100	98/100	100/100
32		98/100	99/100	100/100	98/100	100/100
56		99/100	98/100	97/100	98/100	99/100
100		100/100	99/100	97/100	100/100	100/100

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)
Test Code: PGE1216.195 | 06-6646-9526

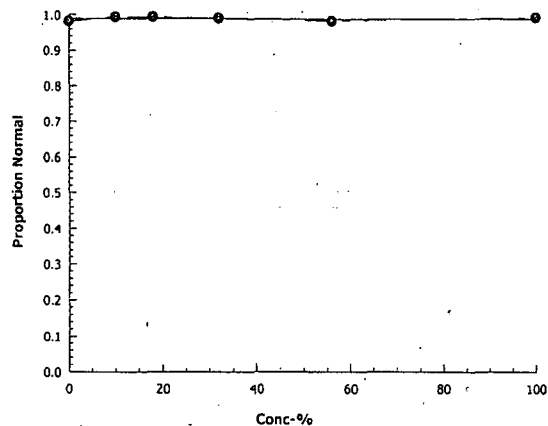
Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 03-3140-6330 Endpoint: Proportion Normal
Analyzed: 16 Jan-17 17:21 Analysis: Linear Interpolation (ICPIN)

CETIS Version: CETISv1.9.2
Official Results: Yes

Graphics



Report Date: 17 Jan-17 09:21 (p 1 of 2)
Test Code: PGE1216.195 | 06-6646-9526

Aquatic Bioassay & Consulting Labs, Inc.

Analyst: *1*
Diluent: Laboratory Seawater
Brine: Not Applicable
Age:

Sample ID: 14-9573-1426	Code: PGE1216.195	Client: Pacific Gas & Electric Co.
Sample Date: 20 Dec-16 10:45	Material: Sample Water	Project: Toxicity Testing
Receipt Date: 20 Dec-16 15:10	Source: Bioassay Report	
Sample Age: 5h (5.8 °C)	Station: Discharge 001- Chronic	

TAC Limits

Parameter	Min	Max	Lower	Upper	Overlap	Decision
Salinity	34	34	32	36	Yes	Passes Criteria
Temperature	13	14.2	14	16	Yes	Below Criteria

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	6.8	4.259	9.341	6.6	7	0.2	0.2828	4.16%	0
10		2	6.75	2.303	11.2	6.4	7.1	0.35	0.495	7.33%	0
18		2	6.8	2.988	10.61	6.5	7.1	0.3	0.4243	6.24%	0
32		2	6.8	2.988	10.61	6.5	7.1	0.3	0.4243	6.24%	0
56		2	6.65	2.203	11.1	6.3	7	0.35	0.495	7.44%	0
100		2	6.9	1.818	11.98	6.5	7.3	0.4	0.5657	8.2%	0
Overall		12	6.783	6.564	7.003	6.3	7.3	0.09987	0.346	5.10%	0 (0%)

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
10		2	7.6	6.329	8.871	7.5	7.7	0.1	0.1414	1.86%	0
18		2	7.6	6.329	8.871	7.5	7.7	0.1	0.1414	1.86%	0
32		2	7.65	7.015	8.285	7.6	7.7	0.05	0.07071	0.92%	0
56		2	7.65	7.015	8.285	7.6	7.7	0.05	0.07071	0.92%	0
100		2	7.65	7.015	8.285	7.6	7.7	0.05	0.07071	0.92%	0
Overall		12	7.617	7.564	7.67	7.5	7.7	0.0241	0.08348	1.10%	0 (0%)

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	34	34	34	34	34	0	0	0.0%	0
10		2	34	34	34	34	34	0	0	0.0%	0
18		2	34	34	34	34	34	0	0	0.0%	0
32		2	34	34	34	34	34	0	0	0.0%	0
56		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34	34	34	34	34	0	0	0.00%	0 (0%)

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
10		2	14	11.46	16.54	13.8	14.2	0.2	0.2828	2.02%	0
18		2	13.85	9.403	18.3	13.5	14.2	0.35	0.495	3.57%	0
32		2	13.75	8.032	19.47	13.3	14.2	0.45	0.6364	4.63%	0
56		2	13.7	7.347	20.05	13.2	14.2	0.5	0.7071	5.16%	0
100		2	13.6	5.976	21.22	13	14.2	0.6	0.8485	6.24%	0
Overall		12	13.85	13.55	14.15	13	14.2	0.1357	0.47	3.39%	0 (0%)

CETIS Measurement Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)

Test Code: PGE1216.195 | 06-6646-9526

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-%	Code	1	2
0	N	7	6.6
10		7.1	6.4
18		7.1	6.5
32		7.1	6.5
56		7	6.3
100		7.3	6.5

pH-Units

Conc-%	Code	1	2
0	N	7.6	7.5
10		7.7	7.5
18		7.7	7.5
32		7.7	7.6
56		7.7	7.6
100		7.7	7.6

Salinity-ppt

Conc-%	Code	1	2
0	N	34	34
10		34	34
18		34	34
32		34	34
56		34	34
100		34	34

Temperature-°C

Conc-%	Code	1	2
0	N	14.2	14.2
10		13.8	14.2
18		13.5	14.2
32		13.3	14.2
56		13.2	14.2
100		13	14.2

CHAIN OF CUSTODY RECORD

[illegible]

CHRONIC ABALONE DEVELOPMENT BIOASSAY

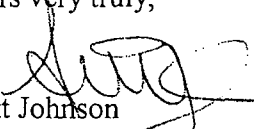
DATE: 20 December 2016

STANDARD TOXICANT: Zinc

NOEC = 32.00 ug/l

EC25 = 39.04 ug/l
EC50 = 46.65 ug/l

Yours very truly,



Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 17 Jan-17 09:21 (p 1 of 1)

Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 07-0829-0131	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:30	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:

Sample ID: 20-6479-5531	Code: ABS122016	Client: Internal Lab
Sample Date: 20 Dec-16 15:30	Material: Zinc	Project: REF TOX
Receipt Date:	Source: Reference Toxicant	
Sample-Age: n/a	Station: REF TOX	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
16-3945-2315	Proportion Normal	Dunnett Multiple Comparison Test	32	56	42.33		4.7%

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	Level	µg/L	95% LCL	95% UCL	TU	✓
00-2927-1383	Proportion Normal	Linear Interpolation (ICPIN)	EC5	32.96	30.12	33.8		
			EC10	34.48	33.04	35.32		
			EC15	36	34.7	36.86		
			EC20	37.52	36.32	38.45		
			EC25	39.04	37.9	40.03		
			EC40	43.61	42.44	44.87		
			EC50	46.65	45.28	48.13		

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
00-2927-1383	Proportion Normal	Control Resp	0.976	0.8	>>	Yes	Passes Criteria
16-3945-2315	Proportion Normal	Control Resp	0.976	0.8	>>	Yes	Passes Criteria
16-3945-2315	Proportion Normal	NOEL	32	<<	56	No	Passes Criteria
16-3945-2315	Proportion Normal	PMSD	0.04701	<<	0.2	No	Passes Criteria

Proportion Normal Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	N	5	0.9760	0.9593	0.9927	0.9600	0.9900	0.0060	0.0134	1.37%	0.00%
18		5	0.9740	0.9598	0.9882	0.9600	0.9900	0.0051	0.0114	1.17%	0.20%
32		5	0.9580	0.9214	0.9946	0.9100	0.9800	0.0132	0.0295	3.08%	1.84%
56		5	0.1880	0.1108	0.2652	0.1000	0.2600	0.0278	0.0622	33.09%	80.74%
100		5	0.0560	0.0000	0.1287	0.0000	0.1500	0.0262	0.0586	104.58%	94.26%
180		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%

Proportion Normal Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9600	0.9700	0.9700	0.9900
18		0.9700	0.9600	0.9800	0.9700	0.9900
32		0.9500	0.9100	0.9700	0.9800	0.9800
56		0.2600	0.2300	0.1900	0.1000	0.1600
100		0.1500	0.0700	0.0200	0.0000	0.0400
180		0.0000	0.0000	0.0000	0.0000	0.0000

Proportion Normal Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	96/100	97/100	97/100	99/100
18		97/100	96/100	98/100	97/100	99/100
32		95/100	91/100	97/100	98/100	98/100
56		26/100	23/100	19/100	10/100	16/100
100		15/100	7/100	2/100	0/100	4/100
180		0/100	0/100	0/100	0/100	0/100

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)
Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 16-3945-2315	Endpoint: Proportion Normal	CETIS Version: CETISv1.9.2
Analyzed: 16 Jan-17 17:12	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 07-0829-0131	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:30	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 20-6479-5531	Code: ABS122016	Client: Internal Lab
Sample Date: 20 Dec-16 15:30	Material: Zinc	Project: REF TOX
Receipt Date:	Source: Reference Toxicant	
Sample Age: n/a	Station: REF TOX	

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	C > T	32	56	42.33		4.70%

Dunnett Multiple Comparison Test

Control	vs	Conc-µg/L	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Negative Control		18	0.1636	2.305	0.118	8	CDF	0.7427	Non-Significant Effect
		32	0.9339	2.305	0.118	8	CDF	0.4091	Non-Significant Effect
		56*	19.15	2.305	0.118	8	CDF	4.5E-07	Significant Effect
		100*	23.7	2.305	0.118	8	CDF	4.5E-07	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.976	0.8	>>	Yes	Passes Criteria
NOEL	32	<<	56	No	Passes Criteria
PMSD	0.04701	<<	0.2	No	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	7.06636	1.76659	4	271.5	<1.0E-37	Significant Effect
Error	0.130129	0.0065065	20			
Total	7.19649		24			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance Test	6.698	13.28	0.1527	Equal Variances
Variances	Levene Equality of Variance Test	1.777	4.431	0.1730	Equal Variances
Variances	Mod Levene Equality of Variance Test	2.089	4.893	0.1331	Equal Variances
Distribution	Anderson-Darling A2 Normality Test	0.47	3.878	0.2512	Normal Distribution
Distribution	D'Agostino Kurtosis Test	1.157	2.576	0.2474	Normal Distribution
Distribution	D'Agostino Skewness Test	0.109	2.576	0.9132	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus Test	1.35	9.21	0.5092	Normal Distribution
Distribution	Kolmogorov-Smirnov D Test	0.1348	0.2018	0.2800	Normal Distribution
Distribution	Shapiro-Wilk W Normality Test	0.9639	0.8877	0.4964	Normal Distribution

Proportion Normal Summary

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	5	0.9760	0.9593	0.9927	0.9700	0.9600	0.9900	0.0060	1.37%	0.00%
18		5	0.9740	0.9598	0.9882	0.9700	0.9600	0.9900	0.0051	1.17%	0.20%
32		5	0.9580	0.9214	0.9946	0.9700	0.9100	0.9800	0.0132	3.08%	1.84%
56		5	0.1880	0.1108	0.2652	0.1900	0.1000	0.2600	0.0278	33.09%	80.74%
100		5	0.0560	0.0000	0.1287	0.0400	0.0000	0.1500	0.0262	104.58%	94.26%
180		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		100.00%

Report Date: 17 Jan-17 09:21 (p 2 of 2)
Test Code: ABS122016 | 20-9773-2752

Aquatic Bioassay & Consulting Labs, Inc.

CETIS Version: CETISv1.9.2
Official Results: Yes

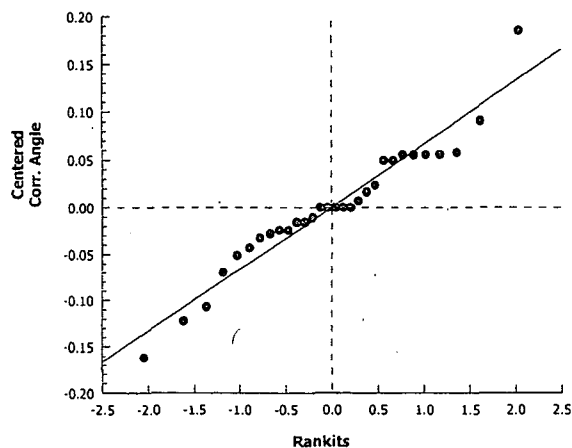
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	N	5	1.421	1.363	1.479	1.397	1.369	1.471	0.02093	3.29%	0.00%
18		5	1.412	1.364	1.461	1.397	1.369	1.471	0.01732	2.74%	0.59%
32		5	1.373	1.288	1.459	1.397	1.266	1.429	0.03083	5.02%	3.35%
56		5	0.4439	0.341	0.5469	0.451	0.3218	0.5351	0.03708	18.68%	68.76%
100		5	0.2117	0.04884	0.3747	0.2014	0.05002	0.3977	0.05868	61.96%	85.10%
180		5	0.05002	0.05001	0.05003	0.05002	0.05002	0.05002	0	0.00%	96.48%

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9600	0.9700	0.9700	0.9900
18		0.9700	0.9600	0.9800	0.9700	0.9900
32		0.9500	0.9100	0.9700	0.9800	0.9800
56		0.2600	0.2300	0.1900	0.1000	0.1600
100		0.1500	0.0700	0.0200	0.0000	0.0400
180		0.0000	0.0000	0.0000	0.0000	0.0000

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	1.471	1.369	1.397	1.397	1.471
18		1.397	1.369	1.429	1.397	1.471
32		1.345	1.266	1.397	1.429	1.429
56		0.5351	0.5002	0.451	0.3218	0.4115
100		0.3977	0.2678	0.1419	0.05002	0.2014
180		0.05002	0.05002	0.05002	0.05002	0.05002

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	96/100	97/100	97/100	99/100
18		97/100	96/100	98/100	97/100	99/100
32		95/100	91/100	97/100	98/100	98/100
56		26/100	23/100	19/100	10/100	16/100
100		15/100	7/100	2/100	0/100	4/100
180		0/100	0/100	0/100	0/100	0/100

Box plot showing the distribution of Proportion Normal (Y-axis, 0.0 to 1.0) across different concentrations of Conc-µg/L (X-axis: 0 N, 18, 32, 56, 100, 180). A dashed line at approximately 0.93 indicates the 'Reject Null' threshold. The data shows that for concentrations 0 N, 18, and 32, the proportion is near 1.0. For 56, the median is around 0.18. For 100, the median is around 0.05. For 180, the proportion is 0.0.



CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)

Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-2927-1383	Endpoint: Proportion Normal	CETIS Version: CETISv1.9.2
Analyzed: 16 Jan-17 17:12	Analysis: Linear Interpolation (ICPIN)	Official Results: Yes
Batch ID: 07-0829-0131	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:30	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 20-6479-5531	Code: ABS122016	Client: Internal Lab
Sample Date: 20 Dec-16 15:30	Material: Zinc	Project: REF TOX
Receipt Date:	Source: Reference Toxicant	
Sample Age: n/a	Station: REF TOX	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Test Acceptability Criteria		TAC Limits		Overlap	Decision
Attribute	Test Stat	Lower	Upper		
Control Resp	0.976	0.8	>>	Yes	Passes Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC5	32.96	30.12	33.8
EC10	34.48	33.04	35.32
EC15	36	34.7	36.86
EC20	37.52	36.32	38.45
EC25	39.04	37.9	40.03
EC40	43.61	42.44	44.87
EC50	46.65	45.28	48.13

Proportion Normal Summary

Proportion Normal Summary			Calculated Variate(A/B)									
Conc-µg/L	Code	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B	
0	N	5	0.9760	0.9600	0.9900	0.0060	0.0134	1.38%	0.0%	488	500	
18		5	0.9740	0.9600	0.9900	0.0051	0.0114	1.17%	0.2%	487	500	
32		5	0.9580	0.9100	0.9800	0.0132	0.0295	3.08%	1.84%	479	500	
56		5	0.1880	0.1000	0.2600	0.0278	0.0622	33.09%	80.74%	94	500	
100		5	0.0560	0.0000	0.1500	0.0262	0.0586	104.60%	94.26%	28	500	
180		5	0.0000	0.0000	0.0000	0.0000	0.0000		100.0%	0	500	

Proportion Normal Detail

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	0.9900	0.9600	0.9700	0.9700	0.9900
18		0.9700	0.9600	0.9800	0.9700	0.9900
32		0.9500	0.9100	0.9700	0.9800	0.9800
56		0.2600	0.2300	0.1900	0.1000	0.1600
100		0.1500	0.0700	0.0200	0.0000	0.0400
180		0.0000	0.0000	0.0000	0.0000	0.0000

Proportion Normal Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	N	99/100	96/100	97/100	97/100	99/100
18		97/100	96/100	98/100	97/100	99/100
32		95/100	91/100	97/100	98/100	98/100
56		26/100	23/100	19/100	10/100	16/100
100		15/100	7/100	2/100	0/100	4/100
180		0/100	0/100	0/100	0/100	0/100

CETIS Analytical Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)

Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID: 00-2927-1383

Endpoint: Proportion Normal

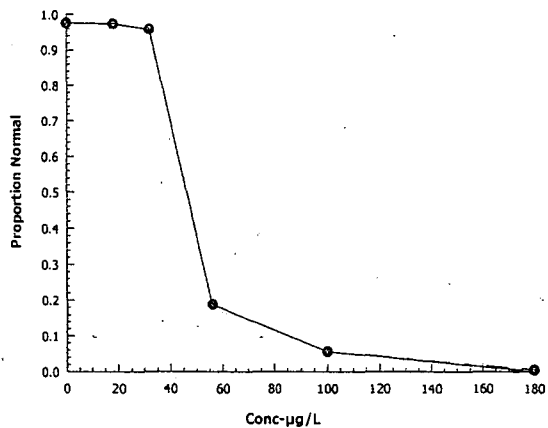
CETIS Version: CETISv1.9.2

Analyzed: 16 Jan-17 17:12

Analysis: Linear Interpolation (ICPIN)

Official Results: Yes

Graphics



CETIS Measurement Report

Report Date: 17 Jan-17 09:21 (p 1 of 2)
Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Batch ID: 07-0829-0131	Test Type: Development	Analyst:
Start Date: 20 Dec-16 15:30	Protocol: EPA/600/R-95/136 (1995)	Diluent: Laboratory Seawater
Ending Date: 22 Dec-16 15:30	Species: Haliotis rufescens	Brine: Not Applicable
Duration: 48h	Source: Cultured Abalone	Age:
Sample ID: 20-6479-5531	Code: ABS122016	Client: Internal Lab
Sample Date: 20 Dec-16 15:30	Material: Zinc	Project: REF TOX
Receipt Date:	Source: Reference Toxicant	
Sample Age: n/a	Station: REF TOX	

Parameter Acceptability Criteria

Parameter	TAC Limits				Overlap	Decision
	Min	Max	Lower	Upper		
Salinity	34	34	32	36	Yes	Passes Criteria
Temperature	14.2	14.2	14	16	Yes	Passes Criteria

Dissolved Oxygen-mg/L

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	6.8	4.259	9.341	6.6	7	0.2	0.2828	4.16%	0
18		2	6.85	2.403	11.3	6.5	7.2	0.35	0.495	7.23%	0
32		2	6.85	2.403	11.3	6.5	7.2	0.35	0.495	7.23%	0
56		2	6.85	2.403	11.3	6.5	7.2	0.35	0.495	7.23%	0
100		2	6.85	2.403	11.3	6.5	7.2	0.35	0.495	7.23%	0
180		2	6.85	2.403	11.3	6.5	7.2	0.35	0.495	7.23%	0
Overall		12	6.842	6.622	7.061	6.5	7.2	0.09959	0.345	5.04%	0 (0%)

pH-Units

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
18		2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
32		2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
56		2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
100		2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
180		2	7.55	6.915	8.185	7.5	7.6	0.05	0.07071	0.94%	0
Overall		12	7.55	7.517	7.583	7.5	7.6	0.01508	0.05222	0.69%	0 (0%)

Salinity-ppt

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	34	34	34	34	34	0	0	0.0%	0
18		2	34	34	34	34	34	0	0	0.0%	0
32		2	34	34	34	34	34	0	0	0.0%	0
56		2	34	34	34	34	34	0	0	0.0%	0
100		2	34	34	34	34	34	0	0	0.0%	0
180		2	34	34	34	34	34	0	0	0.0%	0
Overall		12	34	34	34	34	34	0	0	0.00%	0 (0%)

Temperature-°C

Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	N	2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
18		2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
32		2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
56		2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
100		2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
180		2	14.2	14.17	14.23	14.2	14.2	0	0	0.0%	0
Overall		12	14.2	14.2	14.2	14.2	14.2	0	0	0.00%	0 (0%)

CETIS Measurement Report

Report Date: 17 Jan-17 09:21 (p 2 of 2)
Test Code: ABS122016 | 20-9773-2752

Red Abalone Larval Development Test

Aquatic Bioassay & Consulting Labs, Inc.

Dissolved Oxygen-mg/L

Conc-µg/L	Code	1	2
0	N	7	6.6
18		7.2	6.5
32		7.2	6.5
56		7.2	6.5
100		7.2	6.5
180		7.2	6.5

pH-Units

Conc-µg/L	Code	1	2
0	N	7.6	7.5
18		7.6	7.5
32		7.6	7.5
56		7.6	7.5
100		7.6	7.5
180		7.6	7.5

Salinity-ppt

Conc-µg/L	Code	1	2
0	N	34	34
18		34	34
32		34	34
56		34	34
100		34	34
180		34	34

Temperature-°C

Conc-µg/L	Code	1	2
0	N	14.2	14.2
18		14.2	14.2
32		14.2	14.2
56		14.2	14.2
100		14.2	14.2
180		14.2	14.2

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Pacific Gas and Electric Company (PG&E)
Project: NPDES Annual
Sample Matrix: Ocean Water
Analysis Method: 335.4
Prep Method: Method

Service Request: K1612743
Date Collected: 10/19/16
Date Received: 10/20/16

Units: mg/L
Basis: NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Influent	K1612743-001	ND U	0.010	0.0009	1	10/24/16 12:11	10/24/16	
Discharge 001	K1612743-002	ND U	0.010	0.0009	1	10/24/16 12:11	10/24/16	
Method Blank	K1612743-MB	ND U	0.010	0.0009	1	10/24/16 12:11	10/24/16	

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client: Pacific Gas and Electric Company (PG&E)
Project: NPDES Annual
Sample Matrix: Ocean water

Service Request: K1612743
Date Collected: 10/19/16
Date Received: 10/20/16

Mercury, Total

Prep Method: METHOD
Analysis Method: 1631E
Test Notes:

Units: ng/L
Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Influent	K1612743-001	0.5	0.06	1	10/24/16	10/25/16	0.34	J
Discharge 001	K1612743-002	0.5	0.06	1	10/24/16	10/25/16	0.47	J
Method Blank	K1612743-MB1	0.5	0.06	1	10/24/16	10/25/16	ND	
Method Blank	K1612743-MB2	0.5	0.06	1	10/24/16	10/25/16	ND	
Method Blank	K1612743-MB3	0.5	0.06	1	10/24/16	10/25/16	0.093	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Pacific Gas and Electric Company (PG&E)
Project: NPDES Annual
Sample Matrix: Ocean Water
Sample Name: Influent
Lab Code: K1612743-001

Service Request: K1612743
Date Collected: 10/19/16 08:15
Date Received: 10/20/16 08:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.31	ug/L	0.50	0.03	1	11/14/16 10:42	11/03/16	
Cadmium	200.8	0.052	ug/L	0.020	0.003	1	11/14/16 10:42	11/03/16	
Lead	200.8	0.077	ug/L	0.020	0.004	1	11/14/16 10:42	11/03/16	
Silver	200.8	0.018 J	ug/L	0.020	0.004	1	11/14/16 10:42	11/03/16	
Titanium	200.7	ND U	ug/L	2.0	0.4	1	11/18/16 15:51	10/31/16	

ALS Group USA, Corp.

dba ALS Environmental

Analytical Report

Client: Pacific Gas and Electric Company (PG&E)**Project:** NPDES Annual**Sample Matrix:** Ocean Water**Sample Name:** Discharge 001**Lab Code:** K1612743-002**Service Request:** K1612743**Date Collected:** 10/19/16 08:25**Date Received:** 10/20/16 08:30**Basis:** NA**Total Metals**

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.28	ug/L	0.50	0.03	1	11/14/16 10:46	11/03/16	
Cadmium	200.8	0.044	ug/L	0.020	0.003	1	11/14/16 10:46	11/03/16	
Lead	200.8	0.056	ug/L	0.020	0.004	1	11/14/16 10:46	11/03/16	
Silver	200.8	ND U	ug/L	0.020	0.004	1	11/14/16 10:46	11/03/16	
Titanium	200.7	ND U	ug/L	2.0	0.4	1	11/18/16 15:58	10/31/16	

Analytical Results

Client: Pacific Gas and Electric Company (PG&E)
 Project: NPDES Annual
 Sample Matrix: Ocean water

Service Request: K1612743
 Date Collected: 10/19/2016
 Date Received: 10/20/2016

Polychlorinated Biphenyls (PCBs)

Sample Name: Influent
 Lab Code: K1612743-001
 Extraction Method: EPA 3535A
 Analysis Method: 8082A

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1221	ND	U	0.39	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1232	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1242	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1248	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1254	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1260	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	83	36-113	10/29/16	Acceptable

Comments:

Analytical Results

Client: Pacific Gas and Electric Company (PG&E)
 Project: NPDES Annual
 Sample Matrix: Ocean water

Service Request: K1612743
 Date Collected: 10/19/2016
 Date Received: 10/20/2016

Polychlorinated Biphenyls (PCBs)

Sample Name: Discharge 001
 Lab Code: K1612743-002
 Extraction Method: EPA 3535A
 Analysis Method: 8082A

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1221	ND	U	0.39	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1232	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1242	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1248	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1254	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	
Aroclor 1260	ND	U	0.20	0.0094	1	10/26/16	10/29/16	KWG1609785	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	36-113	10/29/16	Acceptable

Comments:

Analytical Results

Client: Pacific Gas and Electric Company (PG&E)
Project: NPDES Annual
Sample Matrix: Ocean water

Service Request: K1612743
Date Collected: 10/19/2016
Date Received: 10/20/2016

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Influent
Lab Code: K1612743-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	0.50	0.063	1	10/25/16	11/01/16	KWG1609692	
2-Chlorophenol	ND	U	0.50	0.054	1	10/25/16	11/01/16	KWG1609692	
2-Methylphenol	ND	U	0.50	0.11	1	10/25/16	11/01/16	KWG1609692	
4-Methylphenol†	ND	U	0.50	0.12	1	10/25/16	11/01/16	KWG1609692	
2-Nitrophenol	ND	U	0.50	0.063	1	10/25/16	11/01/16	KWG1609692	
2,4-Dimethylphenol	ND	U	4.0	2.2	1	10/25/16	11/01/16	KWG1609692	
2,4-Dichlorophenol	ND	U	0.50	0.047	1	10/25/16	11/01/16	KWG1609692	
4-Chloro-3-methylphenol	ND	U	0.50	0.037	1	10/25/16	11/01/16	KWG1609692	
2,4,6-Trichlorophenol	ND	U	0.50	0.058	1	10/25/16	11/01/16	KWG1609692	
2,4,5-Trichlorophenol	ND	U	0.50	0.031	1	10/25/16	11/01/16	KWG1609692	
2,4-Dinitrophenol	ND	U	4.0	0.17	1	10/25/16	11/01/16	KWG1609692	
4-Nitrophenol	ND	U	2.0	0.28	1	10/25/16	11/01/16	KWG1609692	
2-Methyl-4,6-dinitrophenol	ND	U	2.0	0.025	1	10/25/16	11/01/16	KWG1609692	
Pentachlorophenol	ND	U	1.0	0.34	1	10/25/16	11/01/16	KWG1609692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	73	34-118	11/01/16	Acceptable
Phenol-d6	73	39-109	11/01/16	Acceptable
2,4,6-Tribromophenol	97	35-132	11/01/16	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:

Analytical Results

Client: Pacific Gas and Electric Company (PG&E)
 Project: NPDES Annual
 Sample Matrix: Ocean water

Service Request: K1612743
 Date Collected: 10/19/2016
 Date Received: 10/20/2016

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Discharge 001
 Lab Code: K1612743-002
 Extraction Method: EPA 3520C
 Analysis Method: 8270D

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	0.49	0.063	1	10/25/16	11/01/16	KWG1609692	
2-Chlorophenol	ND	U	0.49	0.054	1	10/25/16	11/01/16	KWG1609692	
2-Methylphenol	ND	U	0.49	0.11	1	10/25/16	11/01/16	KWG1609692	
4-Methylphenol†	ND	U	0.49	0.12	1	10/25/16	11/01/16	KWG1609692	
2-Nitrophenol	ND	U	0.49	0.063	1	10/25/16	11/01/16	KWG1609692	
2,4-Dimethylphenol	ND	U	3.9	2.2	1	10/25/16	11/01/16	KWG1609692	
2,4-Dichlorophenol	ND	U	0.49	0.047	1	10/25/16	11/01/16	KWG1609692	
4-Chloro-3-methylphenol	ND	U	0.49	0.037	1	10/25/16	11/01/16	KWG1609692	
2,4,6-Trichlorophenol	ND	U	0.49	0.058	1	10/25/16	11/01/16	KWG1609692	
2,4,5-Trichlorophenol	ND	U	0.49	0.031	1	10/25/16	11/01/16	KWG1609692	
2,4-Dinitrophenol	ND	U	3.9	0.17	1	10/25/16	11/01/16	KWG1609692	
4-Nitrophenol	ND	U	2.0	0.28	1	10/25/16	11/01/16	KWG1609692	
2-Methyl-4,6-dinitrophenol	ND	U	2.0	0.025	1	10/25/16	11/01/16	KWG1609692	
Pentachlorophenol	ND	U	0.97	0.34	1	10/25/16	11/01/16	KWG1609692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	79	34-118	11/01/16	Acceptable
Phenol-d6	79	39-109	11/01/16	Acceptable
2,4,6-Tribromophenol	89	35-132	11/01/16	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.

Comments:



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Severn Trent Services
 Contact: Jim Wysong
 Address: 320 Beta Ct.
 Arroyo Grande, CA 93420

Analytical Report: Page 2 of 3
 Project Name: Diablo Canyon Plant - Annual
 Sludge
 Project Number: PG&E Diablo Canyon WWTP

Report Date: 04-Nov-2016

Work Order Number: B6J1712

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

B6J1712-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Sludge Holding Tank	Sludge	10/17/16 10:30	10/18/16 10:30

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Anions								
Nitrate as N	ND	210	110	mg/kg dry	EPA 300.0	10/26/16 21:48	dcb	N_WEX
Aggregate Properties								
pH	7.0	1.0	1.0	pH Units	SM 4500H+ B	10/20/16 22:30	gv	
Solids								
Total Solids	9600	400	300	mg/L	SM 2540B	10/20/16 14:30	cmr	
Nutrients								
Ammonia-Nitrogen	7300	2100	1000	mg/Kg* dry	SM4500NH3H	10/19/16 13:19	sl	N_WEX
Kjeldahl Nitrogen	76000	21000	21000	mg/kg dry	EPA 351.2	10/25/16 23:12	jma	
Total Phosphorus	26000	510	260	mg/Kg* dry	EPA 6020	10/25/16 13:03	mel	
Metals and Metalloids; EPA SW846 Series								
Boron	180	100	2.6	mg/kg dry	EPA 6010B	10/25/16 20:22	kya	
Cadmium	1.6	1.0	0.63	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
Total Chromium	9.4	1.0	0.81	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
Copper	430	1.0	0.78	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
Lead	7.1	5.0	0.29	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
Mercury	0.23	0.10	0.049	mg/kg dry	EPA 7471A	10/24/16 12:42	kya	
Nickel	11	1.0	0.48	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
Zinc	740	5.0	1.7	mg/kg dry	EPA 6020	10/25/16 16:23	mel	
California Waste Extraction Test (Title 22 sec. 66261 Apx II); Inorganics								
Copper	0.062	2.5	0.0058	mg/L	EPA 6020AWET	11/02/16 19:39	mel	J

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 EPA No. CA00102
 NELAP No. OR4035



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The Standard of Excellence for Over 100 Years

Client Name: Severn Trent Services
Contact: Jim Wyson
Address: 320 Beta Ct.
Arroyo Grande, CA 93420

Report Date: 11-Nov-2016

Analytical Report: Page 2 of 3

Project Name: Diablo Canyon Plant - Annual
Sludge

Project Number: PG&E Diablo Canyon WWTP,
Avila Beach CA

Work Order Number: B6K0212

Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

B6K0212-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Oil & Grease - PG&E Diablo Canyon WWTP, Avila Beach CA	Sludge	11/01/16 09:25	11/02/16 9:09

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Solids								
Total Solids	1.0	0.10	0.10	%	SM 2540G	11/04/16 09:30	sl	
Aggregate Organic Compounds								
Oil & Grease (HEM)	ND	9.7	9.7	% dry	EPA 9071B	11/10/16 11:30	kry	

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