

DOCKETED

Docket Number:	00-AFC-01C
Project Title:	Contra Costa Power Plant Project Compliance
TN #:	237341
Document Title:	Annual Compliance Report RY 2020 for GGS_5of8 parts
Description:	Annual Compliance Report for PG&E Gateway Generating Station (00-AFC-01C) for RY 2020
Filer:	Angel B. Espiritu
Organization:	PG&E Gateway Generating Station
Submitter Role:	Applicant Representative
Submission Date:	3/29/2021 10:58:06 AM
Docketed Date:	3/29/2021

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 12

Exhibit 4
Quarterly Self-Monitoring Reports to DD,
Notice of Violation/Corrective Action
(Condition of Certification SOIL&WATER-4)

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 12

Exhibit 4a
Quarterly Self-Monitoring Reports to DD,
(Condition of Certification SOIL&WATER-4)



**Pacific Gas and
Electric Company®**

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

April 7, 2020

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending March 31, 2020)

Dear Mr. Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending March 31, 2020, as required under DD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, WSAC Operating Months Report, Cycles of Concentration, and Copy of Laboratory Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report
For the reporting period ending in March 31, 2020

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2023.

The report includes the following attachments:

- | | |
|---------------|--------------------------------------|
| Attachment 1: | Certification Statement |
| Attachment 2: | Industrial User Compliance Report |
| Attachment 3: | Industrial Monitoring Report Summary |
| Attachment 4: | Discharge Flow Data |
| Attachment 5: | Monthly Flow Data |
| Attachment 6: | WSAC Operating Hours Report |
| Attachment 7: | Cycles of Concentration |
| Attachment 8: | Laboratory Results |

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station
Address: 3225 Wilbur Avenue, Antioch, CA. 94509
Phone: 925-522-7805
Period Covered: Period ending: March 31, 2020

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.

Signature: Tim Wisdom Date: April 7, 2020
Print Name: Tim Wisdom

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Jason Yun

Fax # (925)756-1961

From: Tim Wisdom

Company: Pacific Gas and Electric Company – Gateway Generating Station

Period Covered: Period ending March 31, 2020

Pretreatment

Phone: (925)756-1929

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

☒ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)

☐ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2019 SMR)

☒ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)

☒ Certification statement included (See Attachment 1)

Violations (if applicable)

☐ All wastewater discharge exceedance are reported during this reporting period

☐ Delta Diablo was contacted. (See Additional Notes below)

☐ A follow-up report on characterization re-sampling was submitted on

☐ Corrective actions to resolve violation:

☐ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

None

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY (Combined Site Flow: FAC - Control Manhole Local Limits: E-001)

IU NAME : PG&E Gateway Generating Station
ADDRESS: 3225 Wilbur Avenue
CITY : Antioch

ID #: 0208841-C
TYPE: Power Generation Plant

SIC: 4911

DATE	2/19/2020	2/20/2020	2/20/2020	2/20/2020	2/20/2020			
TYPE	G	G	C24	G	G			
STATION	E-001	E-001	E-001	E-001	E-001			
SMP.BY	Muskan	Muskan	Muskan	Muskan	Muskan			
PURPOSE	Compliance Quarterly (Q1)	Compliance Quarterly (Q1)	Compliance Quarterly (Q1)	Compliance Semi-annually (SA1)	Compliance Annually (A)			

Units: mg/L

PARAMETERS	LIMITS							
FLOW, DAILY (gal)	51,120							
FLOW, MONTH (gal)								
pH	6-10 s.u.		7.3					
BOD				6.3				
COD				ND(<10)				
TDS				357.0				
TSS				1.5				
Arsenic	0.15			0.00055				
Cadmium	0.1			ND(<0.0005)				
Chromium	0.5			ND(<0.0005)				
Copper	0.5			0.0038				
Iron				ND(<0.10)				
Lead	0.5			ND(<0.0005)				
Mercury	0.003			ND(<0.0002)				
Molybdenum				0.064				
Nickel	0.5			0.0017				
Selenium	0.25			ND(<0.0005)				
Silver	0.2			ND(<0.0005)				
Zinc	1.00			0.070				
Cyanide	0.2		ND(<0.02)					
Phenol	1.00		0.13					
Ammonia	200		63					
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.0)	ND(<5.0)					
O&G Animal/Vegetable Oil	300	17	ND(<5.0)					
TTO EPA 608				ND(<0.0001)				
TTO EPA 624				0.001560				
TTO EPA 625				0.04				
TTO	2.00			0.04156				
Sulfide					ND (<0.05)			
Sulfate					56			

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

January 2020-March 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
1/1/2020	34.5	0.0	NO	24,445	0.1	0	NO		24,445
1/2/2020	34.9	0.0	NO	18,572	0.0	0	NO		18,572
1/3/2020	34.8	0.0	NO	21,508	20.4	0	NO	410	21,918
1/4/2020	35.0	0.0	NO	6,686	0.0	0	NO		6,686
1/5/2020	34.9	0.0	NO	22,801	0.0	0	NO		22,801
1/6/2020	34.5	0.0	NO	42,060	20.7	0	NO	410	42,469
1/7/2020	34.5	0.0	NO	7,660	20.4	0	NO	414	8,074
1/8/2020	35.3	0.0	NO	14,434	0.1	0	NO	3	14,437
1/9/2020	34.9	0.0	NO	29,033	19.3	0	NO	385	29,418
1/10/2020	35.0	0.0	NO	6,808	0.1	0	NO	385	7,193
1/11/2020	34.8	1.0	NO	21,082	0.0	1	NO		21,082
1/12/2020	35.0	0.0	NO	6,824	19.7	0	NO	386	7,210
1/13/2020	35.0	0.0	NO	14,352	0.0	0	NO		14,352
1/14/2020	34.9	0.0	NO	15,542	20.0	0	NO	405	15,948
1/15/2020	34.7	0.0	NO	39,219	21.2	0	NO	390	39,609
1/16/2020	34.7	0.0	NO	17,794	0.1	0	NO	11	17,805
1/17/2020	34.5	0.0	NO	25,450	19.1	0	NO	405	25,855
1/18/2020	34.6	0.0	NO	16,170	0.0	0	NO		16,170
1/19/2020	34.5	0.0	NO	14,486	0.0	0	NO	2	14,488
1/20/2020	34.4	0.0	NO	6,691	19.5	0	NO	103	6,795
1/21/2020	34.5	0.0	NO	26,022	18.4	0	NO	311	26,333
1/22/2020	34.5	0.0	NO	6,727	19.8	0	NO	399	7,126
1/23/2020	34.7	0.0	NO	25,646	0.0	0	NO	0	25,646
1/24/2020	34.5	0.0	NO	33,336	20.2	0	NO	387	33,723
1/25/2020	34.5	0.0	NO	12,928	0.0	0	NO		12,928
1/26/2020	34.4	0.0	NO	15,951	0.0	0	NO		15,951
1/27/2020	34.6	0.0	NO	6,039	20.2	0	NO	397	6,435
1/28/2020	34.5	0.0	NO	13,434	20.3	0	NO	396	13,830
1/29/2020	35.1	0.0	NO	23,765	0.0	0	NO		23,765
1/30/2020	34.5	0.0	NO	17,779	21.0	0	NO	384	18,163
1/31/2020	35.0	0.0	NO	14,496	0.0	0	NO		14,496

Max Daily Flow (Limit: 51,120):

42,469

Monthly Total:

573,723

2/1/2020	34.7	0.0	NO	9,965	20.1	0	NO	402	10,366
2/2/2020	34.5	0.0	NO	34,687	0.0	0	NO	3	34,690
2/3/2020	35.0	0.0	NO	14,370	21.0	0	NO	267	14,637
2/4/2020	35.0	0.0	NO	6,914	16.5	0	NO	147	7,061
2/5/2020	35.3	0.0	NO	17,344	19.6	0	NO	407	17,751
2/6/2020	34.8	0.0	NO	29,905	20.0	0	NO	413	30,318
2/7/2020	34.9	0.0	NO	14,471	0.1	0	NO	2	14,473
2/8/2020	35.3	0.0	NO	17,610	19.4	0	NO	406	18,015
2/9/2020	34.7	0.0	NO	8,884	0.1	0	NO	7	8,890
2/10/2020	46.2	7.0	NO	36,397	0.1	0	NO	7	36,403
2/11/2020	34.8	1.0	NO	10,851	18.7	1	NO	417	11,269
2/12/2020	34.9	0.0	NO	32,523	19.5	0	NO	414	32,937
2/13/2020	35.2	0.0	NO	27,639	0.0	0	NO	0	27,639
2/14/2020	34.5	0.0	NO	26,435	18.9	0	NO	412	26,846
2/15/2020	34.9	0.0	NO	18,075	0.0	0	NO	0	18,076
2/16/2020	34.4	0.0	NO	12,335	0.0	0	NO		12,335
2/17/2020	35.1	0.0	NO	14,056	0.1	0	NO		14,056
2/18/2020	35.2	0.0	NO	3,166	19.5	0	NO	405	3,571
2/19/2020	34.9	0.0	NO	23,593	19.2	0	NO	414	24,007

PG&E Gateway Generating Station

Discharge Flow Data

January 2020-March 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
2/20/2020	34.6	0.0	NO	40,943	0.1	0	NO	10	40,953
2/21/2020	34.8	0.0	NO	27,751	19.3	0	NO	378	28,129
2/22/2020	34.8	0.0	NO	38,625	0.1	0	NO		38,625
2/23/2020	35.0	0.0	NO	14,237	0.0	0	NO		14,237
2/24/2020	34.7	0.0	NO	37,821	19.6	0	NO	421	38,242
2/25/2020	34.8	0.0	NO	8,987	20.0	0	NO	427	9,413
2/26/2020	34.8	0.0	NO	22,565	0.1	0	NO	2	22,567
2/27/2020	35.2	0.0	NO	19,057	0.1	0	NO		19,057
2/28/2020	34.8	0.0	NO	29,452	20.2	0	NO	696	30,148
2/29/2020	35.0	0.0	NO	32,508	0.0	0	NO	2	32,510

Max Daily Flow (Limit: 51,120): 40,953

Monthly Total: 637,223

3/1/2020	35.1	0.0	NO	25,986	0.0	0	NO		25,986
3/2/2020	34.6	0.0	NO	40,051	19.4	0	NO	422	40,472
3/3/2020	34.9	0.0	NO	14,405	0.1	0	NO	5	14,411
3/4/2020	35.0	0.0	NO	22,631	19.9	0	NO	428	23,059
3/5/2020	35.1	0.0	NO	26,698	19.3	0	NO	423	27,121
3/6/2020	34.2	0.0	NO	4,539	0.0	0	NO	4	4,543
3/7/2020	34.8	0.0	NO	33,442	20.1	0	NO	412	33,855
3/8/2020	34.7	0.0	NO	19,385	0.1	1	NO	8	19,393
3/9/2020	35.0	0.0	NO	31,548	17.3	0	NO	375	31,924
3/10/2020	34.9	0.0	NO	23,434	0.1	0	NO	375	23,810
3/11/2020	34.7	0.0	NO	32,719	18.4	0	NO	421	33,140
3/12/2020	34.8	0.0	NO	23,908	19.2	0	NO	386	24,293
3/13/2020	34.9	0.0	NO	19,634	0.1	0	NO	1	19,635
3/14/2020	34.6	0.0	NO	14,271	17.9	0	NO	375	14,647
3/15/2020	35.0	0.0	NO	14,511	0.0	0	NO		14,511
3/16/2020	35.1	0.0	NO	14,250	0.0	0	NO		14,250
3/17/2020	34.8	0.0	NO	37,990	13.6	0	NO	379	38,369
3/18/2020	35.5	0.0	NO	16,150	0.1	0	NO	6	16,157
3/19/2020	34.4	0.0	NO	10,016	0.1	0	NO		10,016
3/20/2020	34.8	0.0	NO	14,619	13.1	0	NO	408	15,027
3/21/2020	34.6	0.0	NO	36,917	0.1	0	NO		36,917
3/22/2020	34.8	0.0	NO	42,301	0.1	0	NO		42,301
3/23/2020	34.8	0.0	NO	44,282	16.2	0	NO	375	44,657
3/24/2020	34.8	0.0	NO	45,443	0.0	0	NO	6	45,449
3/25/2020	34.6	0.0	NO	33,852	13.0	0	NO	353	34,205
3/26/2020	35.1	0.0	NO	22,814	0.0	0	NO		22,814
3/27/2020	35.1	0.0	NO	18,424	12.7	0	NO	352	18,777
3/28/2020	35.3	0.0	NO	22,134	0.1	0	NO	2	22,136
3/29/2020	34.8	0.0	NO	31,832	0.1	0	NO		31,832
3/30/2020	34.8	0.0	NO	37,804	12.4	0	NO	344	38,147
3/31/2020	34.5	0.0	NO	31,248	0.1	0	NO		31,248

Max Daily Flow (Limit: 51,120): 45,449

Monthly Total: 813,098

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**

Address: 3225 Wilbur Avenue, Antioch, CA 94509

City: Antioch

Contact Name: Tim Wisdom

Flow Meter: Sewer Final Effluent _____ City Water Meter _____

(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2020**

Month	Flow (gallons)	Due Date
January	573,723	4/15/2020
February	673,223	4/15/2020
March	813,098	4/15/2020
April		
May		
June		
July		
August		
September		
October		
November		
December		

Note:

1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.

2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report
January 2020 to March 2020

WSAC Operation	
Month	Hours of Operation
January-20	0.00
February-20	16.33
March-20	22.50
April-20	
May-20	
June-20	
July-20	
August-20	
September-20	
October-20	
November-20	
December-20	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report
January 2020 to March 2020

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-20	(No WSAC Operation)
February-20	2.69
March-20	3.95
April-20	
May-20	
June-20	
July-20	
August-20	
September-20	
October-20	
November-20	
December-20	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Annual, Semi-annual, and Quarterly Monitoring
of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2002783

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Annual Sampling (February 2020)

Project Received: 02/20/2020

Analytical Report reviewed & approved for release on 02/27/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Annual Sampling (February 2020)
WorkOrder: 2002783

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Annual Sampling (February 2020)
WorkOrder: 2002783

Analytical Qualifiers

S Spike recovery outside accepted recovery limits.
c1 Surrogate recovery outside of the control limits due to the dilution of the sample.



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Annual Sampling (February 2020)

WorkOrder: 2002783
Extraction Method: E300.1
Analytical Method: E300.1
Unit: mg/L

Inorganic Anions by IC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002783-001B	Water	02/20/2020 11:00	IC4 02212051.D	194330

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Sulfate	56	5.0	50	02/20/2020 20:38

<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Formate	0	S	90-115	02/20/2020 20:38

Analyst(s): AO

Analytical Comments: c1



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/21/2020
Project: Annual Sampling (February 2020)

WorkOrder: 2002783
Extraction Method: SM4500-S⁻² D-2000
Analytical Method: SM4500 S⁻² D
Unit: mg/L

Total Sulfide - S

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002783-001A	Water	02/20/2020 11:00	SPECTROPHOTOMETER	194353

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Sulfide	ND	0.050	1	02/21/2020 08:35

Analyst(s): RB



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/20/2020
Instrument: IC4
Matrix: Water
Project: Annual Sampling (February 2020)

WorkOrder: 2002783
BatchID: 194330
Extraction Method: E300.1
Analytical Method: E300.1
Unit: mg/L
Sample ID: MB/LCS/LCSD-194330

QC Summary Report for E300.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Sulfate	ND	0.0860	0.100	-	-	-
Surrogate Recovery						
Formate	0.0986			0.1	99	85-115

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Sulfate	0.971	0.969	1	97	97	85-115	0.227	15
Surrogate Recovery								
Formate	0.0980	0.0978	0.10	98	98	90-115	0.147	10



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/21/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project: Annual Sampling (February 2020)

WorkOrder: 2002783
BatchID: 194353
Extraction Method: SM4500-S⁻² D-2000
Analytical Method: SM4500 S⁻² D
Unit: mg/L
Sample ID: MB/LCS/LCSD-194353

QC Summary Report For SM4500 S-2D

Analyte	MB Result	MDL	RL			
Total Sulfide	ND	0.00730	0.0500	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Sulfide	0.507	0.499	0.50	101	100	80-120	1.60	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2002783

ClientCode: PGEA

☐ WaterTrax

☐ WriteOn

☐ EDF

☐ Excel

☒ EQulS

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☒ Detection Summary

☒ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5LD@pge.com;
PO:
Project: Annual Sampling (February 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: 02/20/2020

Date Logged: 02/20/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2002783-001	E-001	Water	2/20/2020 11:00	☐	B	A	A									

Test Legend:

1	300_1_W
5	
9	

2	PRDisposal Fee
6	
10	

3	SULFIDE_W
7	
11	

4	
8	
12	

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Annual Sampling (February 2020)

Work Order: 2002783

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002783-001A	E-001	Water	SM4500S2D (Total Sulfide)	1	250mL HDPE w/ NaOH+ZnAc	☐	2/20/2020 11:00	5 days	Present	☐	
2002783-001B	E-001	Water	E300.1 (Inorganic Anions) <Sulfate>	1	125mL HDPE, unprsv.	☐	2/20/2020 11:00	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Page 10 of 11



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Annual Sampling (February 2020)**

Date and Time Received: **2/20/2020 13:10**

Date Logged: **2/20/2020**

Received by: **Jena Alfaro**

Logged by: **Lilly Ortiz**

WorkOrder No: **2002783** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 1.4°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐ No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2002762

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Semi-Annual Sampling (February 2020)

Project Received: 02/20/2020

Analytical Report reviewed & approved for release on 02/28/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annual Sampling (February 2020)
WorkOrder: 2002762

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annual Sampling (February 2020)
WorkOrder: 2002762

Analytical Qualifiers

a2 Sample diluted due to cluttered chromatogram.

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F3 The surrogate standard recovery and/or RPD is outside of acceptance limits.



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/24/2020
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002762-001D	Water	02/20/2020 11:00	GC40 02272015.d	194457

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.0014	0.0050	5	02/27/2020 16:43
a-BHC	ND	0.0016	0.0050	5	02/27/2020 16:43
b-BHC	ND	0.0034	0.0050	5	02/27/2020 16:43
d-BHC	ND	0.00070	0.0050	5	02/27/2020 16:43
g-BHC	ND	0.0022	0.0050	5	02/27/2020 16:43
Chlordane (Technical)	ND	0.012	0.10	5	02/27/2020 16:43
p,p-DDD	ND	0.00055	0.0050	5	02/27/2020 16:43
p,p-DDE	ND	0.00090	0.0050	5	02/27/2020 16:43
p,p-DDT	ND	0.00085	0.0050	5	02/27/2020 16:43
Dieldrin	ND	0.00070	0.0050	5	02/27/2020 16:43
Endosulfan I	ND	0.00055	0.0050	5	02/27/2020 16:43
Endosulfan II	ND	0.0023	0.0050	5	02/27/2020 16:43
Endosulfan sulfate	ND	0.0016	0.010	5	02/27/2020 16:43
Endrin	ND	0.00090	0.0050	5	02/27/2020 16:43
Endrin aldehyde	ND	0.0026	0.0050	5	02/27/2020 16:43
Heptachlor	ND	0.0021	0.0050	5	02/27/2020 16:43
Heptachlor epoxide	ND	0.0012	0.0050	5	02/27/2020 16:43
Toxaphene	ND	0.010	0.10	5	02/27/2020 16:43
Aroclor1016	ND	0.0095	0.10	5	02/27/2020 16:43
Aroclor1221	ND	0.012	0.10	5	02/27/2020 16:43
Aroclor1232	ND	0.019	0.10	5	02/27/2020 16:43
Aroclor1242	ND	0.014	0.10	5	02/27/2020 16:43
Aroclor1248	ND	0.0090	0.10	5	02/27/2020 16:43
Aroclor1254	ND	0.0075	0.10	5	02/27/2020 16:43
Aroclor1260	ND	0.014	0.10	5	02/27/2020 16:43
PCBs, total	ND	N/A	0.10	5	02/27/2020 16:43

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	63	14-168	02/27/2020 16:43
Analyst(s): LT		Analytical Comments: a2	



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/21/2020
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002762-001B	Water	02/20/2020 11:00	GC45 02212011.D	194397

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	02/21/2020 14:54
Acrylonitrile	ND	2.0	1	02/21/2020 14:54
2-Chloroethyl Vinyl Ether	ND	1.0	1	02/21/2020 14:54

Surrogates	REC (%)	Limits	
Dibromofluoromethane	76	65-165	02/21/2020 14:54

Analyst(s): TK



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/24/2020
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002762-001A	Water	02/20/2020 11:00	GC18 02242012.D	194382

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	02/24/2020 14:03
Bromodichloromethane	0.85	0.50	1	02/24/2020 14:03
Bromoform	ND	0.50	1	02/24/2020 14:03
Bromomethane	ND	0.50	1	02/24/2020 14:03
Chlorobenzene	ND	0.50	1	02/24/2020 14:03
Chloroethane	ND	0.50	1	02/24/2020 14:03
Chloroform	0.71	0.50	1	02/24/2020 14:03
Chloromethane	ND	0.50	1	02/24/2020 14:03
Dibromochloromethane	ND	0.50	1	02/24/2020 14:03
1,2-Dichlorobenzene	ND	0.50	1	02/24/2020 14:03
1,3-Dichlorobenzene	ND	0.50	1	02/24/2020 14:03
1,4-Dichlorobenzene	ND	0.50	1	02/24/2020 14:03
1,1-Dichloroethane	ND	0.50	1	02/24/2020 14:03
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	02/24/2020 14:03
1,1-Dichloroethene	ND	0.50	1	02/24/2020 14:03
trans-1,2-Dichloroethene	ND	0.50	1	02/24/2020 14:03
1,2-Dichloropropane	ND	0.50	1	02/24/2020 14:03
cis-1,3-Dichloropropene	ND	0.50	1	02/24/2020 14:03
trans-1,3-Dichloropropene	ND	0.50	1	02/24/2020 14:03
Ethylbenzene	ND	0.50	1	02/24/2020 14:03
Methylene chloride	ND	2.0	1	02/24/2020 14:03
1,1,2,2-Tetrachloroethane	ND	0.50	1	02/24/2020 14:03
Tetrachloroethene	ND	0.50	1	02/24/2020 14:03
Toluene	ND	0.50	1	02/24/2020 14:03
1,1,1-Trichloroethane	ND	0.50	1	02/24/2020 14:03
1,1,2-Trichloroethane	ND	0.50	1	02/24/2020 14:03
Trichloroethene	ND	0.50	1	02/24/2020 14:03
Trichlorofluoromethane	ND	0.50	1	02/24/2020 14:03
Vinyl chloride	ND	0.50	1	02/24/2020 14:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	78-112	02/24/2020 14:03
Toluene-d8	96	82-109	02/24/2020 14:03
4-BFB	83	63-121	02/24/2020 14:03

Analyst(s): TK



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
E-001	2002762-001C	Water	02/20/2020 11:00		GC17 02242028.D	194277
Analytes	Result	RL	DF	Date Analyzed		
Acenaphthene	ND	0.48	50	02/24/2020 21:27		
Acenaphthylene	ND	0.48	50	02/24/2020 21:27		
Anthracene	ND	0.48	50	02/24/2020 21:27		
Benzidine	ND	240	50	02/24/2020 21:27		
Benzo (a) anthracene	ND	0.95	50	02/24/2020 21:27		
Benzo (a) pyrene	ND	0.48	50	02/24/2020 21:27		
Benzo (b) fluoranthene	ND	1.2	50	02/24/2020 21:27		
Benzo (g,h,i) perylene	ND	0.95	50	02/24/2020 21:27		
Benzo (k) fluoranthene	ND	0.48	50	02/24/2020 21:27		
Benzyl Alcohol	ND	240	50	02/24/2020 21:27		
Bis (2-chloroethoxy) Methane	ND	48	50	02/24/2020 21:27		
Bis (2-chloroethyl) Ether	ND	0.24	50	02/24/2020 21:27		
Bis (2-chloroisopropyl) Ether	ND	0.48	50	02/24/2020 21:27		
Bis (2-ethylhexyl) Phthalate	ND	4.8	50	02/24/2020 21:27		
4-Bromophenyl Phenyl Ether	ND	48	50	02/24/2020 21:27		
Butylbenzyl Phthalate	ND	2.4	50	02/24/2020 21:27		
4-Chloroaniline	ND	0.95	50	02/24/2020 21:27		
4-Chloro-3-methylphenol	ND	48	50	02/24/2020 21:27		
2-Chloronaphthalene	ND	48	50	02/24/2020 21:27		
2-Chlorophenol	ND	0.95	50	02/24/2020 21:27		
4-Chlorophenyl Phenyl Ether	ND	48	50	02/24/2020 21:27		
Chrysene	ND	0.48	50	02/24/2020 21:27		
Dibenzo (a,h) anthracene	ND	0.48	50	02/24/2020 21:27		
Di-n-butyl Phthalate	ND	0.95	50	02/24/2020 21:27		
1,2-Dichlorobenzene	ND	95	50	02/24/2020 21:27		
1,3-Dichlorobenzene	ND	95	50	02/24/2020 21:27		
1,4-Dichlorobenzene	ND	95	50	02/24/2020 21:27		
3,3-Dichlorobenzidine	ND	0.95	50	02/24/2020 21:27		
2,4-Dichlorophenol	ND	0.48	50	02/24/2020 21:27		
Diethyl Phthalate	ND	0.95	50	02/24/2020 21:27		
2,4-Dimethylphenol	ND	48	50	02/24/2020 21:27		
Dimethyl Phthalate	ND	0.95	50	02/24/2020 21:27		
4,6-Dinitro-2-methylphenol	ND	240	50	02/24/2020 21:27		
2,4-Dinitrophenol	ND	24	50	02/24/2020 21:27		
2,4-Dinitrotoluene	ND	1.2	50	02/24/2020 21:27		
2,6-Dinitrotoluene	ND	0.48	50	02/24/2020 21:27		
Di-n-octyl Phthalate	ND	6.0	50	02/24/2020 21:27		

(Cont.)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2002762-001C	Water	02/20/2020 11:00	GC17 02242028.D	194277

Analytes	Result	RL	DF	Date Analyzed
1,2-Diphenylhydrazine	ND	48	50	02/24/2020 21:27
Fluoranthene	ND	0.48	50	02/24/2020 21:27
Fluorene	ND	0.48	50	02/24/2020 21:27
Hexachlorobenzene	ND	0.24	50	02/24/2020 21:27
Hexachlorobutadiene	ND	0.48	50	02/24/2020 21:27
Hexachlorocyclopentadiene	ND	240	50	02/24/2020 21:27
Hexachloroethane	ND	0.48	50	02/24/2020 21:27
Indeno (1,2,3-cd) pyrene	ND	0.95	50	02/24/2020 21:27
Isophorone	ND	48	50	02/24/2020 21:27
Naphthalene	ND	0.48	50	02/24/2020 21:27
2-Nitroaniline	ND	240	50	02/24/2020 21:27
Nitrobenzene	ND	48	50	02/24/2020 21:27
2-Nitrophenol	ND	240	50	02/24/2020 21:27
4-Nitrophenol	ND	240	50	02/24/2020 21:27
N-Nitrosodiphenylamine	ND	48	50	02/24/2020 21:27
N-Nitrosodi-n-propylamine	ND	48	50	02/24/2020 21:27
Pentachlorophenol	ND	12	50	02/24/2020 21:27
Phenanthrene	ND	0.95	50	02/24/2020 21:27
Phenol	40	0.95	50	02/24/2020 21:27
Pyrene	ND	0.95	50	02/24/2020 21:27
1,2,4-Trichlorobenzene	ND	48	50	02/24/2020 21:27
2,4,6-Trichlorophenol	ND	2.4	50	02/24/2020 21:27
N-Nitrosodimethylamine	ND	240	50	02/24/2020 21:27

Surrogates	REC (%)	Limits	
2-Fluorophenol	47	1-92	02/24/2020 21:27
Phenol-d5	36	5-104	02/24/2020 21:27
Nitrobenzene-d5	64	4-143	02/24/2020 21:27
2-Fluorobiphenyl	72	9-134	02/24/2020 21:27
2,4,6-Tribromophenol	82	1-159	02/24/2020 21:27
Terphenyl-d14	60	5-150	02/24/2020 21:27

Analyst(s): REB



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/26/2020
Instrument: GC20
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194457
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-194457

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.000280	0.00100	-	-	-
a-BHC	ND	0.000310	0.00100	-	-	-
b-BHC	ND	0.000690	0.00100	-	-	-
d-BHC	ND	0.000140	0.00100	-	-	-
g-BHC	ND	0.000450	0.00100	-	-	-
a-Chlordane	ND	0.000850	0.00100	-	-	-
g-Chlordane	ND	0.000150	0.00100	-	-	-
p,p-DDD	ND	0.000110	0.00100	-	-	-
p,p-DDE	ND	0.000180	0.00100	-	-	-
p,p-DDT	ND	0.000170	0.00100	-	-	-
Dieldrin	ND	0.000140	0.00100	-	-	-
Endosulfan I	ND	0.000110	0.00100	-	-	-
Endosulfan II	ND	0.000460	0.00100	-	-	-
Endosulfan sulfate	ND	0.000330	0.00200	-	-	-
Endrin	ND	0.000180	0.00100	-	-	-
Endrin aldehyde	ND	0.000530	0.00100	-	-	-
Endrin ketone	ND	0.000260	0.00100	-	-	-
Heptachlor	ND	0.000410	0.00100	-	-	-
Heptachlor epoxide	ND	0.000250	0.00100	-	-	-
Methoxychlor	ND	0.000120	0.00100	-	-	-
Toxaphene	ND	0.00200	0.0200	-	-	-
Aroclor1016	ND	0.00190	0.0200	-	-	-
Aroclor1221	ND	0.00240	0.0200	-	-	-
Aroclor1232	ND	0.00380	0.0200	-	-	-
Aroclor1242	ND	0.00280	0.0200	-	-	-
Aroclor1248	ND	0.00180	0.0200	-	-	-
Aroclor1254	ND	0.00150	0.0200	-	-	-
Aroclor1260	ND	0.00280	0.0200	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0400			0.05	80	35-113

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/26/2020
Instrument: GC20
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194457
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-194457

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0468	0.0488	0.050	94	98	50-103	4.18	20
a-BHC	0.0488	0.0500	0.050	98	100	63-131	2.44	20
b-BHC	0.0437	0.0457	0.050	87	91	56-112	4.49	20
d-BHC	0.0493	0.0515	0.050	99	103	63-132	4.44	20
g-BHC	0.0479	0.0504	0.050	96	101	61-135	4.96	20
a-Chlordane	0.0447	0.0473	0.050	89	95	54-113	5.60	20
g-Chlordane	0.0502	0.0528	0.050	100	106	55-117	5.15	20
p,p-DDD	0.0449	0.0487	0.050	90	97	56-135	8.02	20
p,p-DDE	0.0478	0.0511	0.050	96	102	56-131	6.69	20
p,p-DDT	0.0436	0.0496	0.050	87	99	47-153	12.9	20
Dieldrin	0.0497	0.0525	0.050	99	105	67-152	5.59	20
Endosulfan I	0.0471	0.0497	0.050	94	99	56-137	5.35	20
Endosulfan II	0.0466	0.0496	0.050	93	99	50-113	6.07	20
Endosulfan sulfate	0.0398	0.0435	0.050	80	87	57-121	8.86	20
Endrin	0.0439	0.0480	0.050	88	96	60-150	9.04	20
Endrin aldehyde	0.0409	0.0437	0.050	82	87	47-121	6.62	20
Endrin ketone	0.0404	0.0444	0.050	81	89	48-130	9.35	20
Heptachlor	0.0432	0.0467	0.050	86	93	46-133	7.93	20
Heptachlor epoxide	0.0439	0.0462	0.050	88	92	54-105	4.89	20
Methoxychlor	0.0378	0.0430	0.050	76	86	54-135	12.6	20
Aroclor1016	0.141	0.142	0.15	94	95	50-114	0.703	20
Aroclor1260	0.141	0.142	0.15	94	95	42-121	1.09	20
Surrogate Recovery								
Decachlorobiphenyl	0.0402	0.0438	0.050	80	88	35-113	8.57	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/21/2020
Instrument: GC45
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194397
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194397
2002762-001BMS/MSD

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	2.50	5.00	-	-	-
Acrylonitrile	ND	1.00	2.00	-	-	-
2-Chloroethyl Vinyl Ether	ND	0.500	1.00	-	-	-

Surrogate Recovery

Dibromofluoromethane	24.7			25	99	76-110
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	21.1	21.6	20	105	108	71-140	2.52	20
Acrylonitrile	21.7	22.1	20	109	110	67-145	1.66	20
2-Chloroethyl Vinyl Ether	20.6	21.6	20	103	108	70-124	5.02	20

Surrogate Recovery

Dibromofluoromethane	24.8	24.6	25	99	99	76-110	0.792	20
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Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acrolein (Propenal)	1	9.78	17.2	20	ND	49	86	24-149	55.2,F1	20
Acrylonitrile	1	21.4	22.1	20	ND	107	111	50-151	3.38	20
2-Chloroethyl Vinyl Ether	1	24.9	25.8	20	ND	124	129	66-140	3.77	20

Surrogate Recovery

Dibromofluoromethane	1	25.0	25.3	25		100	101	78-112	0.986	20
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Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/24/2020
Instrument: GC18
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194382
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194382

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.0510	0.500	-	-	-
Bromodichloromethane	ND	0.200	0.500	-	-	-
Bromoform	ND	0.0660	0.500	-	-	-
Bromomethane	ND	0.160	0.500	-	-	-
Carbon tetrachloride	ND	0.0690	0.500	-	-	-
Chlorobenzene	ND	0.0500	0.500	-	-	-
Chloroethane	ND	0.310	0.500	-	-	-
Chloroform	ND	0.0640	0.500	-	-	-
Chloromethane	ND	0.130	0.500	-	-	-
Dibromochloromethane	ND	0.0800	0.500	-	-	-
1,2-Dibromoethane (EDB)	ND	0.120	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0800	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0710	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0720	0.500	-	-	-
1,1-Dichloroethane	ND	0.0600	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0900	0.500	-	-	-
1,1-Dichloroethene	ND	0.0860	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.0600	0.500	-	-	-
1,2-Dichloropropane	ND	0.0550	0.500	-	-	-
cis-1,3-Dichloropropene	ND	0.0900	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0700	0.500	-	-	-
Ethylbenzene	ND	0.0500	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.100	0.500	-	-	-
Methylene chloride	ND	1.20	2.00	-	-	-
Styrene	ND	0.590	2.00	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.110	0.500	-	-	-
Tetrachloroethene	ND	0.0820	0.500	-	-	-
Toluene	ND	0.250	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.0860	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0500	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.180	0.500	-	-	-
Trichloroethene	ND	0.0600	0.500	-	-	-
Trichlorofluoromethane	ND	0.0470	0.500	-	-	-
Vinyl chloride	ND	0.0700	0.500	-	-	-
m,p-Xylene	ND	0.110	0.500	-	-	-
o-Xylene	ND	0.0600	0.500	-	-	-

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Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/24/2020
Instrument: GC18
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194382
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194382

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	27.9			25	111,F3	76-110
Toluene-d8	21.7			25	87	84-111
4-BFB	2.04			2.5	82	64-121



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/24/2020
Instrument: GC18
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194382
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194382

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	3.51	3.52	4	88	88	62-119	0.309	20
Benzene	3.85	3.88	4	96	97	71-126	0.771	20
Bromodichloromethane	3.44	3.46	4	86	87	63-119	0.822	20
Bromoform	3.00	3.01	4	75	75	46-117	0.369	20
Bromomethane	4.09	3.94	4	102	98	32-171	3.85	20
t-Butyl alcohol (TBA)	13.8	13.8	16	86	86	40-131	0.324	20
Carbon tetrachloride	3.60	3.63	4	90	91	67-122	0.730	20
Chlorobenzene	3.43	3.49	4	86	87	71-117	1.72	20
Chloroethane	3.64	3.52	4	91	88	53-136	3.41	20
Chloroform	3.70	3.74	4	92	93	67-126	0.953	20
Chloromethane	3.85	3.78	4	96	95	42-148	1.71	20
Dibromochloromethane	2.95	2.98	4	74	75	52-120	1.12	20
1,2-Dibromoethane (EDB)	1.62	1.64	2	81	82	58-117	1.36	20
1,2-Dichlorobenzene	3.70	3.77	4	93	94	71-117	1.80	20
1,3-Dichlorobenzene	3.57	3.63	4	89	91	74-116	1.57	20
1,4-Dichlorobenzene	3.45	3.48	4	86	87	71-115	0.798	20
1,1-Dichloroethane	3.66	3.67	4	91	92	68-128	0.283	20
1,2-Dichloroethane (1,2-DCA)	3.61	3.66	4	90	91	61-123	1.21	20
1,1-Dichloroethene	3.74	3.78	4	93	95	65-126	1.18	20
trans-1,2-Dichloroethene	3.67	3.66	4	92	92	70-126	0.162	20
1,2-Dichloropropane	3.52	3.53	4	88	88	67-124	0.481	20
cis-1,3-Dichloropropene	3.14	3.17	4	78	79	63-119	0.923	20
trans-1,3-Dichloropropene	3.27	3.30	4	82	82	63-116	0.834	20
Diisopropyl ether (DIPE)	3.61	3.61	4	90	90	64-128	0.0510	20
Ethylbenzene	3.57	3.61	4	89	90	69-120	1.10	20
Ethyl tert-butyl ether (ETBE)	3.54	3.55	4	88	89	63-120	0.293	20
Methyl-t-butyl ether (MTBE)	3.66	3.66	4	91	91	60-121	0.0205	20
Methylene chloride	3.80	3.86	4	95	96	40-148	1.38	20
Styrene	3.20	3.30	4	80	82	57-118	2.76	20
1,1,2,2-Tetrachloroethane	3.23	3.22	4	81	81	60-116	0.150	20
Tetrachloroethene	3.25	3.28	4	81	82	60-131	0.886	20
Toluene	3.45	3.49	4	86	87	67-115	1.38	20
1,2,4-Trichlorobenzene	3.79	3.81	4	95	95	61-133	0.509	20
1,1,1-Trichloroethane	3.75	3.79	4	94	95	67-124	0.924	20
1,1,2-Trichloroethane	3.30	3.35	4	82	84	62-117	1.67	20
Trichloroethene	3.69	3.73	4	92	93	69-120	1.21	20
Trichlorofluoromethane	3.99	4.04	4	100	101	60-134	1.18	20
Vinyl chloride	1.97	1.96	2	98	98	52-145	0.676	20

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Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/24/2020
Instrument: GC18
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194382
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194382

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
m,p-Xylene	6.74	6.86	8	84	86	67-119	1.78	20
o-Xylene	3.46	3.56	4	87	89	68-120	2.97	20
Surrogate Recovery								
Dibromofluoromethane	25.8	25.7	25	103	103	76-110	0.501	20
Toluene-d8	23.4	23.4	25	94	94	84-111	0.0883	20
4-BFB	2.18	2.15	2.5	87	86	64-121	1.11	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.00510	0.0100	-	-	-
Acenaphthylene	ND	0.00500	0.0100	-	-	-
Anthracene	ND	0.00430	0.0100	-	-	-
Benzidine	ND	0.550	5.00	-	-	-
Benzo (a) anthracene	ND	0.0190	0.0200	-	-	-
Benzo (a) pyrene	ND	0.00640	0.0100	-	-	-
Benzo (b) fluoranthene	ND	0.00500	0.0250	-	-	-
Benzo (g,h,i) perylene	ND	0.00710	0.0200	-	-	-
Benzo (k) fluoranthene	ND	0.00630	0.0100	-	-	-
Benzyl Alcohol	ND	2.90	5.00	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.840	1.00	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00210	0.00500	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.00890	0.0100	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.390	3.00	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0520	0.100	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.450	1.00	-	-	-
Butylbenzyl Phthalate	ND	0.0280	0.0500	-	-	-
4-Chloroaniline	ND	0.00510	0.0200	-	-	-
4-Chloro-3-methylphenol	ND	0.550	1.00	-	-	-
2-Chloronaphthalene	ND	0.570	1.00	-	-	-
2-Chlorophenol	ND	0.00860	0.0200	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.480	1.00	-	-	-
Chrysene	ND	0.00930	0.0100	-	-	-
Dibenzo (a,h) anthracene	ND	0.00940	0.0100	-	-	-
Dibenzofuran	ND	0.370	1.00	-	-	-
Di-n-butyl Phthalate	ND	0.0120	0.0200	-	-	-
1,2-Dichlorobenzene	ND	1.10	2.00	-	-	-
1,3-Dichlorobenzene	ND	1.20	2.00	-	-	-
1,4-Dichlorobenzene	ND	1.00	2.00	-	-	-
3,3-Dichlorobenzidine	ND	0.00810	0.0200	-	-	-
2,4-Dichlorophenol	ND	0.00610	0.0100	-	-	-
Diethyl Phthalate	ND	0.0150	0.0200	-	-	-
2,4-Dimethylphenol	ND	0.810	1.00	-	-	-
Dimethyl Phthalate	ND	0.0110	0.0200	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.80	5.00	-	-	-
2,4-Dinitrophenol	ND	0.150	0.500	-	-	-
2,4-Dinitrotoluene	ND	0.00660	0.0250	-	-	-
2,6-Dinitrotoluene	ND	0.00530	0.0100	-	-	-

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Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Di-n-octyl Phthalate	ND	0.0200	0.120	-	-	-
1,2-Diphenylhydrazine	ND	0.400	1.00	-	-	-
Fluoranthene	ND	0.00680	0.0100	-	-	-
Fluorene	ND	0.00640	0.0100	-	-	-
Hexachlorobenzene	ND	0.00430	0.00500	-	-	-
Hexachlorobutadiene	ND	0.00350	0.0100	-	-	-
Hexachlorocyclopentadiene	ND	0.480	5.00	-	-	-
Hexachloroethane	ND	0.00680	0.0100	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00650	0.0200	-	-	-
Isophorone	ND	0.660	1.00	-	-	-
2-Methylnaphthalene	ND	0.00530	0.0100	-	-	-
2-Methylphenol (o-Cresol)	ND	0.530	1.00	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.410	1.00	-	-	-
Naphthalene	ND	0.00480	0.0100	-	-	-
2-Nitroaniline	ND	1.80	5.00	-	-	-
3-Nitroaniline	ND	3.10	5.00	-	-	-
4-Nitroaniline	ND	2.70	5.00	-	-	-
Nitrobenzene	ND	0.950	1.00	-	-	-
2-Nitrophenol	ND	2.40	5.00	-	-	-
4-Nitrophenol	ND	1.10	5.00	-	-	-
N-Nitrosodiphenylamine	ND	0.410	1.00	-	-	-
N-Nitrosodi-n-propylamine	ND	0.650	1.00	-	-	-
Pentachlorophenol	ND	0.0550	0.250	-	-	-
Phenanthrene	ND	0.00550	0.0200	-	-	-
Phenol	ND	0.00880	0.0200	-	-	-
Pyrene	ND	0.00570	0.0200	-	-	-
Pyridine	ND	0.490	1.00	-	-	-
1,2,4-Trichlorobenzene	ND	0.0890	1.00	-	-	-
2,4,5-Trichlorophenol	ND	0.00610	0.0500	-	-	-
2,4,6-Trichlorophenol	ND	0.00490	0.0500	-	-	-
N-Nitrosodimethylamine	ND	2.80	5.00	-	-	-

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.24			5	85	36-131
Phenol-d5	4.39			5	88	43-149
Nitrobenzene-d5	4.23			5	85	39-150
2-Fluorobiphenyl	3.89			5	78	43-133
2,4,6-Tribromophenol	4.34			5	87	42-147
Terphenyl-d14	2.80			5	56	44-124



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.441	0.477	0.50	88	95	47-145	7.86	25
Acenaphthylene	0.318	0.346	0.50	64	69	33-145	8.42	25
Anthracene	0.492	0.531	0.50	98	106	27-133	7.65	25
Benzidine	39.3	42.4	50	79	85	33-87	7.46	25
Benzo (a) anthracene	0.378	0.405	0.50	76	81	33-143	7.13	25
Benzo (a) pyrene	0.422	0.464	0.50	84	93	17-163	9.36	25
Benzo (b) fluoranthene	0.355	0.389	0.50	71	78	24-159	9.05	25
Benzo (g,h,i) perylene	0.467	0.505	0.50	93	101	1-219	7.81	25
Benzo (k) fluoranthene	0.451	0.483	0.50	90	97	11-162	6.86	25
Benzyl Alcohol	39.4	40.8	50	79	82	38-130	3.59	25
Bis (2-chloroethoxy) Methane	8.27	8.47	10	83	85	33-184	2.36	25
Bis (2-chloroethyl) Ether	0.308	0.316	0.50	62	63	12-158	2.87	25
Bis (2-chloroisopropyl) Ether	0.327	0.355	0.50	65	71	36-166	8.31	25
Bis (2-ethylhexyl) Adipate	8.09	8.95	10	81	89	49-109	10.1	25
Bis (2-ethylhexyl) Phthalate	0.400	0.443	0.50	80	89	8-158	10.4	25
4-Bromophenyl Phenyl Ether	8.37	9.01	10	84	90	53-127	7.39	25
Butylbenzyl Phthalate	0.396	0.430	0.50	79	86	1-152	8.46	25
4-Chloroaniline	0.409	0.439	0.50	82	88	57-121	7.10	25
4-Chloro-3-methylphenol	9.05	9.83	10	90	98	22-147	8.29	25
2-Chloronaphthalene	8.50	9.15	10	85	91	60-118	7.33	25
2-Chlorophenol	0.334	0.347	0.50	67	69	23-134	3.77	25
4-Chlorophenyl Phenyl Ether	8.01	8.86	10	80	89	25-158	10.0	25
Chrysene	0.415	0.449	0.50	83	90	17-168	7.83	25
Dibenzo (a,h) anthracene	0.422	0.453	0.50	84	91	1-227	7.08	25
Dibenzofuran	7.58	8.42	10	76	84	57-108	10.4	25
Di-n-butyl Phthalate	0.390	0.430	0.50	78	86	1-118	9.98	25
1,2-Dichlorobenzene	6.61	6.63	10	66	66	32-129	0.366	25
1,3-Dichlorobenzene	6.52	6.61	10	65	66	1-172	1.44	25
1,4-Dichlorobenzene	7.04	6.97	10	70	70	20-124	0.882	25
3,3-Dichlorobenzidine	0.455	0.509	0.50	91	102	1-262	11.2	25
2,4-Dichlorophenol	0.462	0.489	0.50	92	98	39-135	5.54	25
Diethyl Phthalate	0.416	0.468	0.50	83	94	1-114	11.9	25
2,4-Dimethylphenol	7.71	8.15	10	77	82	32-119	5.59	25
Dimethyl Phthalate	0.391	0.442	0.50	78	88	1-112	12.3	25
4,6-Dinitro-2-methylphenol	45.4	51.7	50	91	103	33-117	13.0	25
2,4-Dinitrophenol	9.48	11.1	10	95	111	1-191	15.6	25
2,4-Dinitrotoluene	0.527	0.614	0.50	105	123	39-139	15.3	25
2,6-Dinitrotoluene	0.456	0.528	0.50	91	106	50-158	14.8	25

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.426	0.470	0.50	85	94	4-146	9.71	25
1,2-Diphenylhydrazine	8.31	8.79	10	83	88	53-110	5.63	25
Fluoranthene	0.389	0.427	0.50	78	85	26-137	9.49	25
Fluorene	0.413	0.457	0.50	83	91	59-121	10.1	25
Hexachlorobenzene	0.392	0.421	0.50	78	84	1-152	7.00	25
Hexachlorobutadiene	0.364	0.370	0.50	73	74	24-116	1.45	25
Hexachlorocyclopentadiene	39.0	40.8	50	78	82	26-107	4.64	25
Hexachloroethane	0.331	0.327	0.50	66	65	40-113	0.951	25
Indeno (1,2,3-cd) pyrene	0.456	0.497	0.50	91	99	1-171	8.49	25
Isophorone	8.04	8.61	10	80	86	21-196	6.80	25
2-Methylnaphthalene	0.358	0.373	0.50	72	75	51-132	4.13	25
2-Methylphenol (o-Cresol)	8.21	8.65	10	82	86	47-127	5.19	25
3 & 4-Methylphenol (m,p-Cresol)	7.79	8.16	10	78	82	51-126	4.68	25
Naphthalene	0.358	0.372	0.50	72	74	21-133	3.87	25
2-Nitroaniline	43.8	49.7	50	88	99	56-126	12.6	25
3-Nitroaniline	43.8	49.3	50	88	99	57-124	11.8	25
4-Nitroaniline	42.3	48.2	50	85	96	58-130	13.1	25
Nitrobenzene	8.33	8.93	10	83	89	35-180	6.93	25
2-Nitrophenol	43.3	46.6	50	87	93	29-182	7.35	25
4-Nitrophenol	45.2	52.6	50	90	105	1-132	15.3	25
N-Nitrosodiphenylamine	8.27	8.89	10	83	89	56-106	7.17	25
N-Nitrosodi-n-propylamine	7.17	7.61	10	72	76	1-230	5.95	25
Pentachlorophenol	2.07	2.29	2.5	83	92	14-176	10.1	25
Phenanthrene	0.427	0.463	0.50	85	93	54-120	8.08	25
Phenol	1.51	1.56	2	76	78	5-112	3.19	25
Pyrene	0.422	0.454	0.50	84	91	52-115	7.32	25
Pyridine	6.22	6.28	10	62	63	36-96	0.909	25
1,2,4-Trichlorobenzene	8.83	8.82	10	88	88	44-142	0.0714	25
2,4,5-Trichlorophenol	0.426	0.481	0.50	85	96	52-119	12.2	25
2,4,6-Trichlorophenol	0.425	0.468	0.50	85	94	37-144	9.77	25
N-Nitrosodimethylamine	36.7	37.9	50	73	76	42-121	3.06	25

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (February 2020)

WorkOrder: 2002762
BatchID: 194277
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-194277

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	3.45	3.31	5	69	66	36-131	3.95	25
Phenol-d5	3.81	3.91	5	76	78	43-149	2.59	25
Nitrobenzene-d5	4.30	4.49	5	86	90	39-150	4.31	25
2-Fluorobiphenyl	4.03	4.25	5	81	85	43-133	5.21	25
2,4,6-Tribromophenol	4.25	4.57	5	85	91	42-147	7.23	25
Terphenyl-d14	3.16	3.24	5	63	65	44-124	2.46	25



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2002762

ClientCode: PGEA

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☒ Detection Summary ☒ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5LD@pge.com;
PO:
Project: Semi-Annual Sampling (February 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: 02/20/2020

Date Logged: 02/20/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2002762-001	E-001	Water	2/20/2020 11:00	☐	D	A	B	C	A							

Test Legend:

1	608_W [J]	2	624_W	3	624ACR+2CEVE_W	4	625_SCSM_W
5	PRDisposal Fee	6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (February 2020)

Work Order: 2002762

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002762-001A	E-001	Water	E624.1 (VOCs) <1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Bromoform, Bromomethane, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride>	2	VOA w/ HCl	☐	2/20/2020 11:00	5 days		☐	
2002762-001B	E-001	Water	E624.1 (ACRO, ACRY, & 2-CEVE) <2-Chloroethyl Vinyl Ether, Acrolein (Propenal), Acrylonitrile, Toluene-d8>	2	VOA, Unpres	☐	2/20/2020 11:00	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (February 2020)

Work Order: 2002762

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002762-001C	E-001	Water	E625.1 (SVOCs) <1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Nitroaniline, 2-Nitrophenol, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl Phenyl Ether, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Benzyl Alcohol, Bis (2-chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-	1	1LA Narrow Mouth, Unpres	☐	2/20/2020 11:00	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (February 2020)

Work Order: 2002762

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

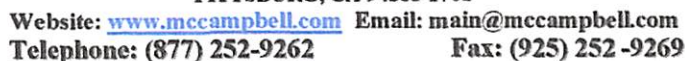
Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002762-001D	E-001	Water	octyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamine, N- Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene>	1	1LA, Unpres	☐	2/20/2020 11:00	5 days		☐	
			E608.3 (OC Pesticides+PCBs w/ Florisil Clean-up) <a-BHC_1, Aldrin_1, Aroclor1016_1, Aroclor1221_1, Aroclor1232_1, Aroclor1242_1, Aroclor1248_1, Aroclor1254_1, Aroclor1260_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan I_2, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin_1, g-BHC_1, Heptachlor epoxide_1, Heptachlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, PCBs, total_1, Toxaphene_1>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Remarks

Sampler Signature: Muskan Environmental Sampling

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

APPENDIX A

District Local Discharge Limits include a parameter called Total Toxic Organics (TTO). The required analytical methods for TTO analysis are listed in 40 CFR Part 136 and include the following EPA methods: 624, 625, 608, and 1613, respectively. Unless specifically required, EPA method 1613 for dioxins is not mandatory for routine TTO analysis. The constituents with concentrations greater than the minimum limit reporting limit must be added together to determine compliance with the District's Local Discharge Limit for TTO of 2.0 mg/L. The following is a list of the constituents of TTO:

EPA Method 624 Compounds

Acrolein
Acrylonitrile
Benzene
Bromodichloromethane (Dichlorobromomethane)
Bromform
Bromomethane (Methyl Bromide)
Carbon tetrachloride (Tetrachloromethane)
Chlorobenzene
Chloroethane (Ethyl Chloride)
2-Chloroethyl vinyl ether
Chloroform (trichloromethane)
Chloromethane (Methyl Chloride)
Dibromochloromethane (Chlorodibromomethane)
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethene (1, 1-dichloroethylene)
trans-1, 2-Dichloroethene
1, 2-Dichloropropane
cis-1, 3-Dichloropropene
trans-1, 3-Dichloropropene
Ethylbenzene
Methylene Chloride (Dichloromethane)
1, 1, 2, 2-Tetrachloroethane
Tetrachloroethene (PCE)
Toluene
1, 1, 1-Trichloroethane
1, 1, 2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
Vinyl chloride (Chloroethylene)

EPA Method 625 Compounds

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g, h, i) perylene
Benzo (k) fluoranthene
Benzyl butyl phthalate
bis (2-Chloroethoxy) methane
bis (2-Chloroethyl) ether
bis (2-Chloroisopropyl) ether
bis (2-Ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenyl
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine

2, 4-Dichlorophenol
Diethyl phthalate
2, 4-Dimethylphenol
Dimethylphthalate
Di-n-butylphthalate
2, 4-Dinitrophenol
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octylphthalate
1, 2-Diphenylhydrazine Azo
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene
Isophorone
2-Methyl-4, 6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
1, 2, 4-Trichlorobenzene
2, 4, 6-Trichlorophenol

EPA Method 608 Compounds

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Chlordane
4, 4'-DDD
4, 4'-DDE
4, 4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Toxaphene



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Semi-Annual Sampling (February 2020)**

Date and Time Received: **2/20/2020 13:10**

Date Logged: **2/20/2020**

Received by: **Jena Alfaro**

Logged by: **Lilly Ortiz**

WorkOrder No: **2002762** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 1.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2002759

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Quarterly Sampling (February 2020)

Project Received: 02/20/2020

Analytical Report reviewed & approved for release on 02/27/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (February 2020)
WorkOrder: 2002759

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (February 2020)
WorkOrder: 2002759

Analytical Qualifiers

a1 Sample diluted due to matrix interference.

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/26/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001B	Water	02/19/2020 10:25	O&G	194760

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	02/27/2020 14:35

Analyst(s): PHU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001D	Water	02/20/2020 11:00	O&G	194760

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	02/27/2020 14:40

Analyst(s): PHU



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/25/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001A	Water	02/19/2020 10:25	O&G	194665

Analytes	Result	RL	DF	Date Analyzed
HEM	17	5.0	1	02/26/2020 20:50

Analyst(s): PHU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001C	Water	02/20/2020 11:00	O&G	194665

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	02/26/2020 20:55

Analyst(s): PHU



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared:
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L

Ammonia as N

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001E	Water	02/20/2020 11:00	WC_SKALAR 022120B1_57	194350

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Ammonia, total as N	63	1.0	10	02/21/2020 11:41

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002A	Water	02/20/2020 10:50	WetChem	194318

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
BOD	6.3	4.0	1	02/25/2020 10:21

Analyst(s): AL



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/21/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001F	Water	02/20/2020 11:00	WC_SKALAR 022120A1_48	194366

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Cyanide	ND	20	20	02/21/2020 11:35

Analyst(s): NM

Analytical Comments: a1



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/24/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L

Chemical Oxygen Demand (COD) as mg O₂ /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002B	Water	02/20/2020 10:50	SPECTROPHOTOMETER	194453

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
COD	ND	10	1	02/24/2020 12:21

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002E	Water	02/20/2020 10:50	AA1 _24	194312

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Mercury	ND	0.20	1	02/21/2020 16:26

Analyst(s): MIG



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/21/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002F	Water	02/20/2020 10:50	ICP-MS4 2002661SMPL.d	194387

Analytes	Result	RL	DF	Date Analyzed
Arsenic	0.55	0.50	1	02/22/2020 03:32
Cadmium	ND	0.50	1	02/22/2020 03:32
Chromium	ND	0.50	1	02/22/2020 03:32
Copper	3.8	0.50	1	02/22/2020 03:32
Iron	ND	100	1	02/22/2020 03:32
Lead	ND	0.50	1	02/22/2020 03:32
Molybdenum	64	0.50	1	02/22/2020 03:32
Nickel	1.7	1.0	1	02/22/2020 03:32
Selenium	ND	0.50	1	02/22/2020 03:32
Silver	ND	0.50	1	02/22/2020 03:32
Zinc	70	20	1	02/22/2020 03:32

Surrogates	REC (%)	Limits	
Terbium	105	70-130	02/22/2020 03:32

Analyst(s): DB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/25/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (G)	2002759-001E	Water	02/20/2020 11:00	WC_SKALAR 022520A2_33	194561

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Phenolics	130	10	5	02/25/2020 08:43

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/20/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002C	Water	02/20/2020 10:50	WetChem	194324

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Dissolved Solids	357	10.0	1	02/21/2020 10:45

Analyst(s): AL



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 02/20/2020 13:10
Date Prepared: 02/21/2020
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 (C)	2002759-002D	Water	02/20/2020 10:50	WetChem	194355

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	1.50	1.00	1	02/21/2020 12:00

Analyst(s): AL



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/27/2020
Date Analyzed: 02/27/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194760
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-194760

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.720	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.69	9.49	10.42	93	91	64-132	2.17	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/26/2020
Date Analyzed: 02/26/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194665
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-194665

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.20	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18.9	17.6	20.83	91	84	78-114	7.17	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/21/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194350
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L
Sample ID: MB/LCS/LCSD-194350

QC Summary Report for SM4500-NH3

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.0920	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.23	4.42	4	106	111	88-113	4.43	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/25/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194318
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L
Sample ID: MB/LCS/LCSD-194318

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.00	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	176	178	198	89	90	80-120	0.849	16



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/21/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194366
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L
Sample ID: MB/LCS/LCSD-194366

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.770	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40.3	40.8	40	101	102	80-120	1.18	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/24/2020
Date Analyzed: 02/24/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194453
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-194453
2002759-002BMS/MSD

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.20	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	100	97.0	100	100	97	90-110	3.05	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	1	103	103	100	ND	103	103	80-120	0	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: AA1
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194312
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-194312
2002759-002EMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.140	0.200	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.93	1.89	2	96	95	85-115	1.77	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1	1.95	1.94	2	ND	98	97	80-120	0.854	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Mercury	ND<1.00	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/22/2020
Instrument: ICP-MS4
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194387
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-194387

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.120	0.500	-	-	-
Cadmium	ND	0.0600	0.500	-	-	-
Chromium	ND	0.360	0.500	-	-	-
Copper	ND	0.430	0.500	-	-	-
Iron	ND	58.0	100	-	-	-
Lead	ND	0.320	0.500	-	-	-
Molybdenum	ND	0.210	0.500	-	-	-
Nickel	ND	0.580	1.00	-	-	-
Selenium	ND	0.180	0.500	-	-	-
Silver	ND	0.0420	0.500	-	-	-
Zinc	ND	11.0	20.0	-	-	-
Surrogate Recovery						
Terbium	533			500	107	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	43.7	49.5	50	87	99	85-115	12.6	20
Cadmium	43.9	49.8	50	88	99	85-115	12.4	20
Chromium	43.2	49.4	50	86	99	85-115	13.5	20
Copper	43.3	49.0	50	87	98	85-115	12.3	20
Iron	4940	4910	5000	99	98	85-115	0.563	20
Lead	43.1	49.0	50	86	98	85-115	12.9	20
Molybdenum	50.9	49.9	50	102	100	85-115	1.98	20
Nickel	43.8	49.5	50	88	99	85-115	12.3	20
Selenium	45.2	50.1	50	90	100	85-115	10.3	20
Silver	42.8	48.5	50	86	97	85-115	12.7	20
Zinc	448	509	500	90	102	85-115	12.8	20
Surrogate Recovery								
Terbium	526	528	500	105	106	70-130	0.353	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/25/2020
Date Analyzed: 02/25/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194561
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L
Sample ID: MB/LCS/LCSD-194561
2002759-001EMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	1.60	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	41.5	41.8	40	104	105	80-120	0.818	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	1	149	150	40	133	40,F1	44,F1	70-130	0.946	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/20/2020
Date Analyzed: 02/21/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194324
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-194324

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	902	968	1000	90	97	80-120	7.06	10



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 02/21/2020
Date Analyzed: 02/21/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (February 2020)

WorkOrder: 2002759
BatchID: 194355
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-194355
2002759-002D

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	110	112	100	110	112	80-120	2.25	10

Analyte	SAMP Result	DUP Result		RPD	RPD Limit
Total Suspended Solids	1.50	1.60		6.45	10



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2002759

ClientCode: PGEA

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ EQuIS☒ Email☐ HardCopy☐ ThirdParty☐ J-flag☐ Detection Summary☐ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5LD@pge.com;
PO:
Project: Quarterly Sampling (February 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: **5 days;
7 days;**

Date Received: 02/20/2020

Date Logged: 02/20/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2002759-001	E-001 (G)	Water	2/19/2020 10:25	☐	B	A								A		
2002759-001	E-001 (G)	Water	2/20/2020 11:00	☐	D	C	E		F				E			
2002759-002	E-001 (C)	Water	2/20/2020 10:50	☐				A		B	E	F		A	C	D

Test Legend:

1	1664A_SG_W
5	CN_SM4500CE_W
9	PHENOLICS_W

2	1664A_W
6	COD_W
10	PRDisposal Fee

3	AMMONIA-SM4500BG_W
7	HG_W
11	TDS_W

4	BOD_W
8	METALSMS_TTLC_W
12	TSS_W

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Quarterly Sampling (February 2020)

Work Order: 2002759

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002759-001A	E-001 (G)	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	2/19/2020 10:25	5 days	Present	☐	
2002759-001B	E-001 (G)	Water	E1664A (SGT- HEM; Non-polar Material)	1	1L w/ HCl	☐	2/19/2020 10:25	5 days	Present	☐	
2002759-001C	E-001 (G)	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	2/20/2020 11:00	5 days	Present	☐	
2002759-001D	E-001 (G)	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	2/20/2020 11:00	5 days	Present	☐	
2002759-001E	E-001 (G)	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	2/20/2020 11:00	5 days	Present	☐	
			SM4500-NH3 BG (Ammonia Nitrogen)			☐		5 days	Present	☐	
2002759-001F	E-001 (G)	Water	SM4500-CN ⁻ CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	2/20/2020 11:00	5 days	Present	☐	
2002759-002A	E-001 (C)	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	2/20/2020 10:50	7 days	Present	☐	
2002759-002B	E-001 (C)	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	2/20/2020 10:50	5 days	Present	☐	
2002759-002C	E-001 (C)	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	2/20/2020 10:50	5 days	Present	☐	
2002759-002D	E-001 (C)	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	2/20/2020 10:50	5 days	Present	☐	
2002759-002E	E-001 (C)	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	2/20/2020 10:50	5 days	Present	☐	
2002759-002F	E-001 (C)	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	2/20/2020 10:50	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu

Bill To: PG&E Gateway

Analysis Request

Remarks

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, JSLd@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ()

Project Name: Quarterly Sampling (February 2020)

Project Location: Combined Site Flow

Sampler Signature: *Muska Environmental Sampling*

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite / Grab	SAMPLING		# Containers	Type Containers	Matrix		METHOD PRESERVED								Cyanide/sodium preserv ABCE	Metals by 200. Selenium	Oil/Grease and with	Total Ph	Ammon	Mercury	Metals (copper, Molybde	BOD (S)	COD (S)	TDS (S)	TSS (S)
			Date	Time			Waste Water	Sewer Water	None	ICE	H ₂ SO ₄	NaOH	HCL	HNO ₃	Other												
E-001		G	2/19/20	10:25	2	1L Amb	X			X			X				X										
E-001		G	2/19/20	11:00	2	1L Amb	X			X			X				X										
E-001		G	2/19/20	11:00	1	500ml Amb	X			X	X							X	X								
E-001		G	2/20/20	11:00	1	250-ml Poly	X			X		X			X												
E-001		C	2/19/20	10:50	1	1L Poly	X		X	X												X					
E-001		C	2/20/20	10:50	2	43-ml VOA	X			X	X												X				
E-001		C	2/19/20	10:50	1	500-ml poly	X		X	X														X			
E-001		C	2/19/20	10:50	1	1L poly	X		X	X															X		
E-001		C	2/19/20	10:50	1	250-ml Poly	X			X				X					X								
E-001		C	2/19/20	10:50	1	250-ml poly	X			X				X			X				X						

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/4th *for 4th*

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Quarterly Sampling (February 2020)**

Date and Time Received: **2/20/2020 13:10**

Date Logged: **2/20/2020**

Received by: **Jena Alfaro**

Logged by: **Lilly Ortiz**

WorkOrder No: **2002759** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 1.4°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒ No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☒ No ☐	NA ☐

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2002776

Report Created for: Muskan Environmental Services

1674 Bay Court
Yuba City, CA 95993

Project Contact: Sanjiv Gil

Project P.O.:

Project: pH Samapling (February 2020)

Project Received: 02/20/2020

Analytical Report reviewed & approved for release on 02/27/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Muskan Environmental Services
Project: pH Samapling (February 2020)
WorkOrder: 2002776

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2002776

ClientCode: MES

☐ Excel ☐ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993
(408) 666-4494 FAX: (530) 660-1814

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: pH Samapling (February 2020)

Bill to:

Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993

Requested TAT: 5 days;

Date Received: 02/20/2020

Date Logged: 02/20/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2002776-001	E-001	Water	2/19/2020 10:20	☐	A	A										

Test Legend:

1	PH_W_SANJIV	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: MUSKAN ENVIRONMENTAL SERVICES

Project: pH Samapling (February 2020)

Work Order: 2002776

Client Contact: Sanjiv Gil

QC Level: LEVEL 2

Contact's Email: sanjivgill@comcast.net

Comments:

Date Logged: 2/20/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2002776-001A	E-001	Water	SM4500H+B (Field pH)	0	<NOT RECEIVED>	☐	2/19/2020 10:20	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



TURN AROUND TIME

☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐
☐ **Check if sample is effluent and "J" flag is required**

Report To: Sanjiv Gill

Bill To: Muskan Environmental

Company: PG&E Gateway Generating Station

E-Mail: sanjivgill@comcast.net

Tel: (408) 666-4494 (Cell)

Fax: ()

Project Name: pH Sampling (February 2020)

Project Location: PG&E GGS Antioch – E-001

Sampler Signature: Muskan Environmental Sampling

Analysis Request

Remarks

[illegible]

Grab Time: 10:20
Analysis Time: 10:21
Temperature: 20.9°C
pH: 7.30

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/t°

COMMENTS:

GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

Logbook for Field pH Samples

[illegible]



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Client supplied pH data

Client Name: **Muskan Environmental Services**
Project: **pH Samapling (February 2020)**

WorkOrder No: **2002776**

SampleID	ClientSampleID	pH
2002776-001A	E-001	7.30 @ 20.9 °C [Analysis Time: 10:21]



Sample Receipt Checklist

Client Name: **Muskan Environmental Services**
Project: **pH Samapling (February 2020)**
WorkOrder No: **2002776** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **2/20/2020 13:10**
Date Logged: **2/20/2020**
Received by: **Agustina Venegas**
Logged by: **Agustina Venegas**

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
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COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
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Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☒	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp:		NA ☒
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☒

Comments:



**Pacific Gas and
Electric Company®**

RECEIVED BY
DELTA DIABLO

JUL 09 2020

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

July 7, 2020

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending June 30, 2020)

Dear Mr. Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending June 30, 2020, as required under DD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Monthly Flow Data, WSAC Operating Months Report, Cycles of Concentration, Copy of Laboratory Results, and Annual Flowmeters Calibration Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s



**Pacific Gas and
Electric Company®**

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

July 7, 2020

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
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Antioch, CA 94509-1373

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(For Period Ending June 30, 2020)

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Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Monthly Flow Data, WSAC Operating Months Report, Cycles of Concentration, Copy of Laboratory Results, and Annual Flowmeters Calibration Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report
For the reporting period ending in June 30, 2020

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2023.

The report includes the following attachments:

- | | |
|---------------|--------------------------------------|
| Attachment 1: | Certification Statement |
| Attachment 2: | Industrial User Compliance Report |
| Attachment 3: | Industrial Monitoring Report Summary |
| Attachment 4: | Discharge Flow Data |
| Attachment 5: | Monthly Flow Data |
| Attachment 6: | WSAC Operating Hours Report |
| Attachment 7: | Cycles of Concentration |
| Attachment 8: | Laboratory Results |
| Attachment 9: | Result of Flowmeters Calibration |

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station

Address: 3225 Wilbur Avenue, Antioch, CA. 94509

Phone: 925-522-7805

Period Covered: Period ending June 30, 2020

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.

Signature: Tim Wisdom Date: July 7, 2020

Print Name: Tim Wisdom

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Jason Yun

Fax # (925)756-1961

From: Tim Wisdom

Company: Pacific Gas and Electric Company – Gateway Generating Station

Period Covered: Period ending June 30, 2020

Pretreatment

Phone: (925)756-1929

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

☒ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)

☒ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2019 SMR)

☒ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)

☒ Certification statement included (See Attachment 1)

Violations (if applicable)

☐ All wastewater discharge exceedance are reported during this reporting period

☐ Delta Diablo was contacted. (See Additional Notes below)

☐ A follow-up report on characterization re-sampling was submitted on

☐ Corrective actions to resolve violation:

☐ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

None

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY (Combined Site Flow: FAC - Control Manhole Local Limits: E-001)

IU NAME : PG&E Gateway Generating Station
 ADDRESS: 3225 Wilbur Avenue
 CITY : Antioch

ID #: 0208841-C
 TYPE: Power Generation Plant

SIC: 4911

DATE	6/3/2020	6/4/2020	6/4/2020					
TYPE	G	G	C24					
STATION	E-001	E-001	E-001					
SMP.BY	Muskan	Muskan	Muskan					
PURPOSE	Compliance Quarterly (Q2)	Compliance Quarterly (Q2)	Compliance Quarterly (Q2)					

Units: mg/L

PARAMETERS

LIMITS

FLOW, DAILY (gal)	51,120							
FLOW, MONTH (gal)								
pH	6-10 s.u.	7.39						
BOD				ND(<4)				
COD				26.0				
TDS				765.0				
TSS				ND(<1.0)				
Arsenic	0.15			0.00160				
Cadmium	0.1			ND(<0.0005)				
Chromium	0.5			ND(<0.0005)				
Copper	0.5			0.0066				
Iron				0.1				
Lead	0.5			ND(<0.0005)				
Mercury	0.003			ND(<0.0002)				
Molybdenum				0.053				
Nickel	0.5			0.0030				
Selenium	0.25			ND(<0.0005)				
Silver	0.2			ND(<0.0005)				
Zinc	1.00			0.130				
Cyanide	0.2		0.037					
Phenol	1.00		0.22					
Ammonia	200		81					
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.2)	ND(<5.2)					
O&G Animal/Vegetable Oil	300	ND(<5.0)	ND(<5.0)					
TTO EPA 608								
TTO EPA 624								
TTO EPA 625								
TTO	2.00							
Sulfide								
Sulfate								

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

April 2020-June 2020

Date	Industrial Flow				Sanitary Flow				
	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
4/1/2020	35.0	0.0	NO	10,292	13.9	0	NO	361	10,653
4/2/2020	36.1	0.0	NO	30,084	16.5	0	NO	384	30,468
4/3/2020	35.1	0.0	NO	48,994	0.0	0	NO	-	48,994
4/4/2020	35.1	5.0	NO	35,691	12.6	5	NO	358	36,049
4/5/2020	0.7	0.0	NO	331	0.1	0	NO	2	333
4/6/2020	35.6	0.0	NO	17,951	0.0	0	NO		17,951
4/7/2020	0.5	0.0	NO	160	17.3	0	NO	389	549
4/8/2020	0.3	1.0	NO		18.5	2	NO	389	389
4/9/2020	-0.4	0.0	NO		0.1	0	NO		-
4/10/2020	36.9	0.0	NO	1,716	13.4	0	NO		1,716
4/11/2020	34.6	0.0	NO	5,926	0.0	0	NO		5,926
4/12/2020	0.4	0.0	NO		13.6	0	NO	363	363
4/13/2020	-0.3	0.0	NO		0.0	0	NO		-
4/14/2020	-0.4	0.0	NO		12.2	0	NO	373	373
4/15/2020	-0.4	0.0	NO		14.8	0	NO	383	383
4/16/2020	-0.5	0.0	NO		12.4	0	NO	361	361
4/17/2020	-0.5	0.0	NO		10.8	0	NO	365	365
4/18/2020	0.2	18.0	NO		0.0	17	NO	1	1
4/19/2020	-0.5	0.0	NO		0.0	0	NO		-
4/20/2020	-0.6	0.0	NO		11.6	0	NO	368	368
4/21/2020	-0.5	0.0	NO		0.0	0	NO		-
4/22/2020	36.0	0.0	NO	4,026	10.4	0	NO	380	4,406
4/23/2020	34.9	0.0	NO	25,660	11.3	0	NO	372	26,032
4/24/2020	34.9	0.0	NO	44,194	0.0	0	NO		44,194
4/25/2020	34.5	0.0	NO	16,221	11.3	0	NO	363	16,584
4/26/2020	34.9	0.0	NO	6,258	0.0	0	NO		6,258
4/27/2020	34.5	0.0	NO	28,463	0.0	0	NO		28,463
4/28/2020	35.0	0.0	NO	48,634	11.7	0	NO	365	48,999
4/29/2020	34.7	0.0	NO	46,331	8.3	0	NO	384	46,715
4/30/2020	35.1	0.0	NO	14,942	0.0	0	NO		14,942
5/1/2020	35.1	0.0	NO	6,709	0.0	0	NO		6,709
Daily Maximum:									48,999
Monthly Total:									398,544
5/1/2020	35.1	0.0	NO	6,709	0.0	0	NO		6,709
5/2/2020	35.0	0.0	NO	24,636	10.8	0	NO	355	24,991
5/3/2020	34.4	0.0	NO	15,600	0.0	0	NO		15,600
5/4/2020	35.5	0.0	NO	29,413	0.0	0	NO		29,413
5/5/2020	34.7	0.0	NO	9,339	10.8	0	NO	364	9,703
5/6/2020	34.8	0.0	NO	6,814	0.0	0	NO		6,814
5/7/2020	35.0	0.0	NO	27,161	12.5	0	NO	356	27,518
5/8/2020	34.8	1.0	NO	41,074	0.0	2	NO		41,074
5/9/2020	34.6	0.0	NO	40,034	0.0	0	NO		40,034
5/10/2020	35.0	0.0	NO	34,552	0.0	0	NO		34,552
5/11/2020	34.9	0.0	NO	31,775	15.3	0	NO	355	32,130
5/12/2020	35.0	0.0	NO	21,938	0.0	0	NO		21,938

PG&E Gateway Generating Station

Discharge Flow Data

April 2020-June 2020

Date	Industrial Flow				Sanitary Flow				
	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
5/13/2020	35.3	0.0	NO	17,650	14.4	0	NO	366	18,016
5/14/2020	35.0	0.0	NO	26,865	0.0	0	NO		26,865
5/15/2020	35.0	0.0	NO	18,209	0.0	0	NO		18,209
5/16/2020	35.1	0.0	NO	20,725	0.0	0	NO		20,725
5/17/2020	35.1	0.0	NO	23,066	13.2	0	NO	355	23,422
5/18/2020	34.7	0.0	NO	48,968	0.0	0	NO		48,968
5/19/2020	34.8	0.0	NO	46,917	11.7	0	NO	350	47,267
5/20/2020	34.7	0.0	NO	48,997	0.0	0	NO		48,997
5/21/2020	35.0	0.0	NO	33,634	11.6	0	NO	361	33,995
5/22/2020	35.1	0.0	NO	27,771	0.1	0	NO		27,771
5/23/2020	35.0	0.0	NO	16,657	0.0	0	NO		16,657
5/24/2020	35.2	0.0	NO	36,955	0.0	0	NO		36,955
5/25/2020	35.1	0.0	NO	29,773	13.6	0	NO	356	30,129
5/26/2020	35.0	0.0	NO	18,545	0.0	0	NO		18,545
5/27/2020	35.0	0.0	NO	37,370	11.2	0	NO	362	37,732
5/28/2020	34.9	0.0	NO	16,350	10.5	0	NO	362	16,711
5/29/2020	34.7	0.0	NO	37,905	0.0	0	NO		37,905
5/30/2020	34.7	0.0	NO	48,996	0.0	0	NO		48,996
5/31/2020	35.0	0.0	NO	33,898	11.2	0	NO	366	34,264
Daily Maximum:									48,997
Monthly Total:									882,603
6/1/2020	34.3	0.0	NO	7,644	0.0	0	NO		7,644
6/2/2020	15.2	0.0	NO	11,165	0.0	0	NO		11,165
6/3/2020	39.0	0.0	NO	36,027	11.1	0	NO	110	36,137
6/4/2020	34.7	0.0	NO	47,982	0.0	0	NO		47,982
6/5/2020	34.9	0.0	NO	48,622	20.1	0	NO	384	49,005
6/6/2020	35.0	0.0	NO	29,393	0.0	0	NO		29,393
6/7/2020	34.9	0.0	NO	20,459	19.2	0	NO	381	20,840
6/8/2020	35.0	1.0	NO	30,727	0.1	2	NO		30,727
6/9/2020	34.9	0.0	NO	39,808	18.4	0	NO	364	40,172
6/10/2020	35.0	0.0	NO	26,305	17.5	0	NO	364	26,669
6/11/2020	35.0	0.0	NO	28,406	17.9	0	NO	357	28,762
6/12/2020	34.8	19.0	NO	19,246	20.0	36	NO	384	19,630
6/13/2020	35.1	0.0	NO	18,188	0.0	0	NO		18,188
6/14/2020	34.9	0.0	NO	32,924	19.1	0	NO	374	33,298
6/15/2020	35.1	0.0	NO	33,568	18.0	0	NO	355	33,923
6/16/2020	34.8	0.0	NO	49,014	0.0	0	NO		49,014
6/17/2020	34.9	0.0	NO	48,196	17.3	0	NO	353	48,549
6/18/2020	34.9	0.0	NO	43,045	16.6	0	NO	354	43,399
6/19/2020	34.8	0.0	NO	34,890	18.5	0	NO	1,197	36,086
6/20/2020	34.9	0.0	NO	45,556	16.2	0	NO	360	45,915
6/21/2020	35.0	0.0	NO	45,766	0.0	0	NO		45,766
6/22/2020	34.8	0.0	NO	25,322	17.7	0	NO	362	25,684
6/23/2020	35.0	0.0	NO	45,043	18.3	0	NO	365	45,407
6/24/2020	34.7	0.0	NO	48,626	19.1	0	NO	370	48,995

PG&E Gateway Generating Station

Discharge Flow Data

April 2020-June 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	
6/25/2020	34.8	0.0	NO	46,840	0.0	0	NO		46,840
6/26/2020	34.8	0.0	NO	29,883	19.1	0	NO	366	30,249
6/27/2020	34.8	0.0	NO	34,392	16.8	0	NO	362	34,753
6/28/2020	34.6	0.0	NO	47,180	0.1	0	NO		47,180
6/29/2020	34.8	0.0	NO	43,252	19.3	0	NO	393	43,645
6/30/2020	35.0	0.0	NO	40,361	19.3	0	NO	364	40,725
Daily Maximum:									49,014
Monthly Total:									1,065,745

Notes:

1. On 4/18/2020, the plant experienced power failure, However, there was no discharge flow at that time.
2. On 06/12/2020, the meters indicated flows above 35.5 gpm for more than 15 minutes. However, there was actually no flow. This was due to the meters going dry.

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**

Address: 3225 Wilbur Avenue, Antioch, CA 94509

City: Antioch

Contact Name: Tim Wisdom

Flow Meter: Sewer Final Effluent _____ City Water Meter _____

(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2020**

Month	Flow (gallons)	Due Date
January	573,723	4/15/2020
February	673,223	4/15/2020
March	813,098	4/15/2020
April	398,544	7/15/2020
May	882,603	7/15/2020
June	1,065,745	7/15/2020
July		
August		
September		
October		
November		
December		

Note:

1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.

2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report

April 2020 to June 2020

WSAC Operation	
Month	Hours of Operation
January-20	
February-20	
March-20	
April-20	43.25
May-20	243.33
June-20	410.00
July-20	
August-20	
September-20	
October-20	
November-20	
December-20	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report
April 2020 to June 2020

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-20	
February-20	
March-20	
April-20	3.20
May-20	2.47
June-20	3.48
July-20	
August-20	
September-20	
October-20	
November-20	
December-20	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Quarterly Monitoring of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2006248

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Quarterly Sampling (June 2020)

Project Received: 06/04/2020

Analytical Report reviewed & approved for release on 06/11/2020 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (June 2020)
WorkOrder: 2006248

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/08/2020-06/10/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001A	Water	06/03/2020 08:17	O&G	199745

Analytes	Result	RL	DE	Date Analyzed
SGT-HEM	ND	5.2	1	06/11/2020 10:55

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001B	Water	06/04/2020 08:50	O&G	199745

Analytes	Result	RL	DE	Date Analyzed
SGT-HEM	ND	5.0	1	06/09/2020 09:55

Analyst(s): HN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/05/2020-06/10/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001A	Water	06/03/2020 08:17	O&G	199653

Analytes	Result	RL	DE	Date Analyzed
HEM	ND	5.0	1	06/08/2020 11:45

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001B	Water	06/04/2020 08:50	O&G	199744

Analytes	Result	RL	DE	Date Analyzed
HEM	ND	5.0	1	06/11/2020 10:20

Analyst(s): HN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/07/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L

Ammonia as N

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001C	Water	06/04/2020 08:50	WC_SKALAR 060720a1_84	199646

Analytes	Result	RL	DE	Date Analyzed
Ammonia, total as N	81	1.0	10	06/07/2020 16:12

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/04/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001E	Water	06/04/2020 08:40	WetChem	199534

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
BOD	ND	4.0	1	06/09/2020 09:39

Analyst(s): AL



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/08/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001D	Water	06/04/2020 08:50	WC_SKALAR 060820A1_41	199708

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Total Cyanide	37	1.0	1	06/08/2020 12:15

Analyst(s): NM



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/09/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L

Chemical Oxygen Demand (COD) as mg O₂ /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001F	Water	06/04/2020 08:40	SPECTROPHOTOMETER	199746

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
COD	26	10	1	06/09/2020 11:15

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/09/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001I	Water	06/04/2020 08:40	AA1 _15	199557

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Mercury	ND	0.20	1	06/09/2020 15:34

Analyst(s): MIG



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/04/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
E-001	2006248-001J	Water	06/04/2020 08:40		ICP-MS4 203SMPL.d	199520
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>		<u>Date Analyzed</u>
Arsenic	1.6		0.50	1		06/05/2020 15:31
Cadmium	ND		0.50	1		06/05/2020 15:31
Chromium	ND		0.50	1		06/05/2020 15:31
Copper	6.6		0.50	1		06/05/2020 15:31
Iron	100		100	1		06/05/2020 15:31
Lead	ND		0.50	1		06/05/2020 15:31
Molybdenum	53		0.50	1		06/05/2020 15:31
Nickel	3.0		1.0	1		06/05/2020 15:31
Selenium	ND		0.50	1		06/05/2020 15:31
Silver	ND		0.50	1		06/05/2020 15:31
Zinc	130		20	1		06/05/2020 15:31
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	110		70-130			06/05/2020 15:31
<u>Analyst(s):</u> WV						



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/05/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001C	Water	06/04/2020 08:50	WC_SKALAR 060520A1_52	199567

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Phenolics	220	20	10	06/05/2020 09:53

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/09/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001G	Water	06/04/2020 08:40	WetChem	199824

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Total Dissolved Solids	765	10.0	1	06/10/2020 11:15

Analyst(s): AL



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/05/2020
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006248-001H	Water	06/04/2020 08:40	WetChem	199577

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Total Suspended Solids	ND	1.00	1	06/05/2020 15:30

Analyst(s): AL



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199745
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-199745

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.720	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	8.26	7.85	10.42	79	75	64-132	5.17	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/08/2020
Date Analyzed: 06/08/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199653
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-199653

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.20	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18.5	17.6	20.83	89	85	78-114	4.70	30

(Cont.)

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Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199744
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-199744

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.20	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	17.4	17.1	20.83	84	82	78-114	2.09	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/07/2020
Date Analyzed: 06/07/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199646
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L
Sample ID: MB/LCS/LCSD-199646

QC Summary Report for SM4500-NH3

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.0920	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	3.84	3.87	4	96	97	88-113	0.907	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/04/2020
Date Analyzed: 06/09/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199534
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L
Sample ID: MB/LCS/LCSD-199534

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.00	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	202	214	198	102	108	80-120	5.52	16



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/08/2020
Date Analyzed: 06/08/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199708
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L
Sample ID: MB/LCS/LCSD-199708

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.770	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	41.2	39.9	40	103	100	80-120	3.27	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199746
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-199746
2006248-001FMS/MSD

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.20	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	97.0	99.0	100	97	99	90-110	2.04	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	1	115	115	100	26.00	89	89	80-120	0	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/09/2020
Date Analyzed: 06/09/2020
Instrument: AA1
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199557
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-199557
2006248-001IMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.140	0.200	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	2.23	2.01	2	112	100	85-115	10.7	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1	2.01	1.94	2	ND	101	97	80-120	3.87	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/04/2020
Date Analyzed: 06/05/2020
Instrument: ICP-MS4
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199520
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-199520

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.120	0.500	-	-	-
Cadmium	ND	0.0600	0.500	-	-	-
Chromium	ND	0.360	0.500	-	-	-
Copper	ND	0.430	0.500	-	-	-
Iron	ND	58.0	100	-	-	-
Lead	ND	0.320	0.500	-	-	-
Molybdenum	ND	0.210	0.500	-	-	-
Nickel	ND	0.580	1.00	-	-	-
Selenium	ND	0.180	0.500	-	-	-
Silver	ND	0.0420	0.500	-	-	-
Zinc	ND	11.0	20.0	-	-	-

Surrogate Recovery

Terbium	548	500	110	70-130
---------	-----	-----	-----	--------

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	53.9	52.9	50	108	106	85-115	1.94	20
Cadmium	53.8	51.9	50	107	104	85-115	3.42	20
Chromium	53.2	51.1	50	106	102	85-115	4.16	20
Copper	54.3	53.5	50	109	107	85-115	1.48	20
Iron	5140	5120	5000	103	102	85-115	0.461	20
Lead	52.7	51.7	50	105	103	85-115	1.89	20
Molybdenum	49.0	49.8	50	98	100	85-115	1.64	20
Nickel	54.7	54.1	50	109	108	85-115	1.13	20
Selenium	54.8	53.6	50	110	107	85-115	2.21	20
Silver	53.4	52.4	50	107	105	85-115	2.01	20
Zinc	550	538	500	110	108	85-115	2.10	20

Surrogate Recovery

Terbium	547	538	500	109	108	70-130	1.63	20
---------	-----	-----	-----	-----	-----	--------	------	----



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/05/2020
Date Analyzed: 06/05/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199567
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L
Sample ID: MB/LCS/LCSD-199567

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	1.60	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	38.5	39.7	40	96	99	80-120	3.05	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/09/2020
Date Analyzed: 06/10/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199824
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-199824

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	955	958	1000	96	96	80-120	0.314	10



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 06/05/2020
Date Analyzed: 06/05/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (June 2020)

WorkOrder: 2006248
BatchID: 199577
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-199577

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	99.0	99.0	100	99	99	80-120	0	10



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Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2006248

ClientCode: PGEA

☐ Excel ☐ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party:
PO:
Project: Quarterly Sampling (June 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 5 days;
7 days;

Date Received: 06/04/2020

Date Logged: 06/04/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2006248-001	E-001	Water	6/3/2020 08:17	☐		A								A		
2006248-001	E-001	Water	6/4/2020 08:40	☐				E		F	I	J			G	H
2006248-001	E-001	Water	6/4/2020 08:50	☐	B		C		D				C			

Test Legend:

1	1664A_SG_W
5	CN_W
9	PHENOLICS_W

2	1664A_W
6	COD_W
10	PRDisposal Fee

3	AMMONIA_W
7	HG_W
11	TDS_W

4	BOD_W
8	METALSMS_TTLC_W
12	TSS_W

Project Manager: Angela Rydelius

Prepared by: Lilly Ortiz

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Quarterly Sampling (June 2020)

Work Order: 2006248

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 6/4/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006248-001A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	2	1LA w/ HCl	☐	6/3/2020 8:17	5 days	None	☐	
2006248-001B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	2	1LA w/ HCl	☐	6/4/2020 8:50	5 days	None	☐	
2006248-001C	E-001	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	6/4/2020 8:50	5 days	None	☐	
			E350.1 (Ammonia)			☐		5 days	None	☐	
2006248-001D	E-001	Water	Kelada-01 (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	6/4/2020 8:50	5 days	None	☐	
2006248-001E	E-001	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	6/4/2020 8:40	7 days	None	☐	
2006248-001F	E-001	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	6/4/2020 8:40	5 days	None	☐	
2006248-001G	E-001	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	6/4/2020 8:40	5 days	None	☐	
2006248-001H	E-001	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	6/4/2020 8:40	5 days	None	☐	
2006248-001I	E-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	6/4/2020 8:40	5 days	None	☐	
2006248-001J	E-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	6/4/2020 8:40	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu

Bill To: PG&E Gateway

Analysis Request

Remarks

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, AIHE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ()

Project Name: Quarterly Sampling (June 2020)

Project Location: Combined Site Flow

Sampler Signature: *Muskan Environmental Sampling*

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING		# Containers	Type Containers	Matrix		METHOD PRESERVED								Cyanide sodium preservative ABCE	Metals (by 200.8, Selenium)	Oil/Grease and with Total Phos	Ammonia	Mercury	Metals (2 copper, lead, Molybdenum)	BOD (SM)	COD (SM)	TDS (SM)	TSS (SM)
			Date	Time			Waste Water	Sewer Water	None	ICE	H ₂ SO ₄	NaOH	HCL	HNO ₃	Other											
E-001		G	6/3/20	08:17	2	1L Amb	X			X			X													
E-001		G	6/4/20	08:50	2	1L Amb	X			X			X													
E-001		G	6/4/20	08:50	1	500ml Amb	X			X	X							X	X							
E-001		G	6/4/20	08:50	1	250-ml Poly	X			X		X			X											
E-001		C	6/4/20	08:40	1	1L Poly	X		X	X											X					
E-001		C	6/4/20	08:40	2	43-ml VOA	X			X	X											X				
E-001		C	6/4/20	08:40	1	500-ml poly	X		X	X													X			
E-001		C	6/4/20	08:40	1	1L poly	X		X	X														X		
E-001		C	6/4/20	08:40	1	250-ml Poly	X			X				X				X								
E-001		C	6/4/20	08:40	1	250-ml poly	X			X				X		X				X						

Relinquished By:

Date:

Time:

Received By:

ICE/t° 4.3 wt

COMMENTS:

Relinquished By:

Date:

Time:

Received By:

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

Relinquished By:

Date:

Time:

Received By:

PRESERVATION VOAS O&G METALS OTHER

pH<2



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Quarterly Sampling (June 2020)**

Date and Time Received: **6/4/2020 10:20**

Date Logged: **6/4/2020**

Received by: **Tina Perez**

Logged by: **Lilly Ortiz**

WorkOrder No: **2006248** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 4.3°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒ No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☒ No ☐	NA ☐

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2006265

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Sanjiv Gill

Project P.O.:

Project: pH Sampling (June 2020)

Project Received: 06/04/2020

Analytical Report reviewed & approved for release on 06/12/2020 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: pH Sampling (June 2020)
WorkOrder: 2006265

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 06/04/2020 10:20
Date Prepared: 06/03/2020
Project: pH Sampling (June 2020)

WorkOrder: 2006265
Extraction Method: SM4500H+B-2000
Analytical Method: SM4500H+B
Unit: pH units @ 21.3°C

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2006265-001A	Water	06/03/2020 08:20	WetChem	

<u>Analytes</u>	<u>Result</u>	<u>Accuracy</u>	<u>DE</u>	<u>Date Analyzed</u>
pH	7.39	±0.05	1	06/03/2020 00:00

Analyst(s): SOVA



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Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2006265

ClientCode: PGEA

☐ Excel ☐ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Sanjiv Gill
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: pH Sampling (June 2020)

Bill to:

Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993

Requested TAT: 5 days;

Date Received: 06/04/2020

Date Logged: 06/05/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2006265-001	E-001	Water	6/3/2020 08:20	☐	A	A										

Test Legend:

1	PH_W_SANJIV
5	
9	

2	PRDisposal Fee
6	
10	

3	
7	
11	

4	
8	
12	

Project Manager: Angela Rydelius

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: pH Sampling (June 2020)

Work Order: 2006265

Client Contact: Sanjiv Gill

QC Level: LEVEL 2

Contact's Email: sanjivgill@comcast.net

Comments:

Date Logged: 6/5/2020

☐ WaterTrax

☐ WriteOn

☐ EDF

☐ Excel

☐ EQUIS

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2006265-001A	E-001	Water	SM4500H+B (Field pH)	1	125mL HDPE, unprsv.	☐	6/3/2020 8:20	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Logbook for Field pH Samples

[illegible]



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **pH Sampling (June 2020)**

Date and Time Received: **6/4/2020 10:20**

Date Logged: **6/5/2020**

Received by: **Tina Perez**

Logged by: **Agustina Venegas**

WorkOrder No: **2006265** Matrix: Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 4.3°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐ No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:

Attachment 9
Annual Flowmeter Calibration

Gateway Generating Station
Annual Flowmeter Accuracy Test

Name and Signature of Tester:

Cesar Valdez 

Date of Test:

10-12-2020

Follow the testing procedure (per manufacturer's -Yokogawa Corporation of America's recommendation) below.

Flowmeter ID	Coil Resistance Check		Flow Tube Resistance Check		
	Reading (ohm/s)	Within +/- 10% (Y/N)?	Electrode A Reading (ohm/s)	Electrode A Reading (ohm/s)	Within 20% Difference (Y/N)?
Industrial Wastewater Flowmeter Tag No. 8WWC-FM-X001 Model No. Yokogawa AXF-100C Coil Resistance Value: 113.4 ohms	113.2	Y	116	116 mΩ	Y
Sanitary Wastewater Flowmeter Tag No. 8WWB-FM-X001 Model No. Yokogawa AXF 650C Coil Resistance Value: 116.8 ohms	116	Y	116	116 mΩ	Y

Procedure for testing AXF integral flowtubes

1. Remove power from the flow meter. Remove the display side cover from the meter electronics housing.
2. Remove three retaining screws with a Phillips head screwdriver used to hold the amplifier assembly in place.
3. Remove the white plastic connector (CN5) attached to the left side of the amplifier assembly. The connector has 3 wires (red, white & blue). Remove the white plastic connector (CN3) attached to the right side of the amplifier assembly. The connector has 2 wires (purple & yellow).
4. Remove the amplifier assembly and store it in a safe place.

Checking the coil circuits

5. Locate 2 wire connector (CN3). Measure the excitation coil resistance between the yellow wire and purple wire of connector CN3. The measured resistance should correspond to the resistance value shown above in table 2 within +/- 10%.
6. Confirm that there is more than 20 MOHMS resistance between each wire to the meter electronics housing. If leakage is detected consult Yokogawa at 800-524-SERV.

Checking the flow tube when filled with conductive liquid

7. Make certain that the meter flow tube is full of liquid with greater than one micro-siemens conductivity.
8. Locate connector CN5 (3 wire connector). Measure the resistance between the red wire (A) and the blue wire (C) of CN5. Record the value.
9. Measure the resistance between the white wire (B) and the blue wire (C) of CN5. Record the value.
10. Compare resistance readings obtained in steps 8 and 9 above. If the readings are less than 20% apart the meter flow tube is not suspect. Proceed to the reassembly instructions (step 13). If readings are greater than 20% apart proceed to step 11.

Checking the flow tube when empty and dry

11. Drain the meter flow tube of all conductive liquid. Measure the resistance between each electrode in the meter flow tube to CN5 red (A) or white (B). The resistance will be less than 3 Ohms for general purpose meters or 150 K ohms for FM approved meters.
12. Repeat steps 8 and 9 above. The resistance should be infinite. Any leakage measured maybe due to buildup of conductive material between the electrode and the meter tube. Clean
13. Replace the amplifier assembly and meter electronics housing cover.



**Pacific Gas and
Electric Company®**

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

Received by 57 10.8.2020
A-M

October 8, 2020

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending September 30, 2020)

Dear Mr. Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending September 30, 2020, as required under DD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Monthly Flow Data, WSAC Operating Months Report, Cycles of Concentration, and Copy of Laboratory Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in September 30, 2020

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2023.

The report includes the following attachments:

- | | |
|---------------|--------------------------------------|
| Attachment 1: | Certification Statement |
| Attachment 2: | Industrial User Compliance Report |
| Attachment 3: | Industrial Monitoring Report Summary |
| Attachment 4: | Discharge Flow Data |
| Attachment 5: | Monthly Flow Data |
| Attachment 6: | WSAC Operating Hours Report |
| Attachment 7: | Cycles of Concentration |
| Attachment 8: | Laboratory Results |

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station
Address: 3225 Wilbur Avenue, Antioch, CA. 94509
Phone: 925-522-7805
Period Covered: Period ending September 30, 2020

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.

Signature: _____ **Date:** _____

Print Name: Tim Wisdom

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Jason Yun

Pretreatment

Fax # (925)756-1961

Phone: (925)756-1929

From: Tim Wisdom

Company: Pacific Gas and Electric Company – Gateway Generating Station

Period Covered: Period ending September 30, 2020

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

- ☒ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)
- ☐ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2020 SMR)
- ☒ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)
- ☒ Certification statement included (See Attachment 1)

Violations (if applicable)

- ☐ All wastewater discharge exceedance are reported during this reporting period
- ☐ Delta Diablo was contacted. (See Additional Notes below)
- ☐ A follow-up report on characterization re-sampling was submitted on
- ☐ Corrective actions to resolve violation:
- ☐ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

None

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY (Combined Site Flow: FAC - Control Manhole Local Limits: E-001)

IU NAME : PG&E Gateway Generating Station
 ADDRESS: 3225 Wilbur Avenue
 CITY : Antioch

ID #: 0208841-C
 TYPE: Power Generation Plant

SIC: 4911

DATE			9/1/2020	9/2/2020	9/2/2020	9/2/2020	
TYPE			G	G	C24	G	
STATION			E-001	E-001	E-001	E-001	
SMP.BY			Muskan	Muskan	Muskan	Muskan	
PURPOSE			Compliance Quarterly (Q3)	Compliance Quarterly (Q3)	Compliance Quarterly (Q3)	Compliance Semi-annual (S2)	

Units: mg/L

PARAMETERS	LIMITS								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.				7.63				
BOD							ND(<4)		
COD							ND(<10)		
TDS							451		
TSS							ND(<1.0)		
Arsenic	0.15						0.00086		
Cadmium	0.1						ND(<0.0005)		
Chromium	0.5						ND(<0.0005)		
Copper	0.5						0.0028		
Iron							ND(<0.1)		
Lead	0.5						ND(<0.0005)		
Mercury	0.003						ND(<0.0002)		
Molybdenum							0.055		
Nickel	0.5						0.0012		
Selenium	0.25						ND(<0.0005)		
Silver	0.2						ND(<0.0005)		
Zinc	1.00						0.120		
Cyanide	0.2								
Phenol	1.00						0.0015		
Ammonia	200						0.055		
O&G Petro/Min (E1664A w/ Silica)	100						50		
O&G Animal/Vegetable Oil	300						ND(<5.0)	ND(<5.0)	
TTO EPA 608									0.0000087
TTO EPA 624									0.00634
TTO EPA 625									0.0018
TTO	2.00								0.0081487
Sulfide									
Sulfate									

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

July 2020-September 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
7/1/2020	34.9	0.0	NO	23,203	20.1	0	NO	387	23,590
7/2/2020	34.8	0.0	NO	13,134	0.0	0	NO	(5)	13,129
7/3/2020	34.4	0.0	NO	13,324	20.1	0	NO	382	13,706
7/4/2020	34.4	0.0	NO	4,764	0.0	0	NO	(8)	4,756
7/5/2020	34.9	0.0	NO	26,429	19.0	0	NO	383	26,812
7/6/2020	34.7	0.0	NO	31,885	18.2	0	NO	363	32,248
7/7/2020	34.8	0.0	NO	29,442	18.9	0	NO	354	29,797
7/8/2020	34.9	1.0	NO	25,420	0.0	2	NO	(10)	25,410
7/9/2020	35.0	0.0	NO	24,646	18.4	0	NO	366	25,012
7/10/2020	35.1	0.0	NO	24,006	19.4	0	NO	366	24,372
7/11/2020	35.0	0.0	NO	29,845	18.8	0	NO	353	30,198
7/12/2020	34.8	0.0	NO	26,327	0.0	0	NO	(9)	26,319
7/13/2020	35.0	0.0	NO	33,578	18.2	0	NO	357	33,935
7/14/2020	34.8	0.0	NO	35,147	17.8	0	NO	352	35,499
7/15/2020	34.8	0.0	NO	26,664	19.1	0	NO	366	27,031
7/16/2020	34.5	0.0	NO	29,705	0.0	0	NO	(8)	29,697
7/17/2020	34.9	0.0	NO	31,326	18.9	0	NO	362	31,688
7/18/2020	34.9	0.0	NO	32,889	0.0	0	NO	(11)	32,877
7/19/2020	35.0	0.0	NO	32,455	18.4	0	NO	374	32,829
7/20/2020	34.9	0.0	NO	37,688	19.7	0	NO	371	38,060
7/21/2020	34.9	0.0	NO	31,061	16.4	0	NO	345	31,406
7/22/2020	34.8	0.0	NO	30,913	0.0	0	NO	(8)	30,905
7/23/2020	34.8	0.0	NO	22,814	18.6	0	NO	375	23,189
7/24/2020	35.1	0.0	NO	31,555	20.1	0	NO	368	31,923
7/25/2020	34.9	0.0	NO	31,232	20.6	0	NO	408	31,640
7/26/2020	34.8	0.0	NO	37,575	0.0	0	NO	(3)	37,572
7/27/2020	35.0	0.0	NO	42,598	20.4	0	NO	375	42,973
7/28/2020	35.0	0.0	NO	35,921	0.0	0	NO	(9)	35,911
7/29/2020	34.8	0.0	NO	38,088	20.4	0	NO	365	38,453
7/30/2020	34.8	0.0	NO	31,047	19.9	0	NO	367	31,414
7/31/2020	35.2	0.0	NO	27,779	17.2	0	NO	370	28,148
Daily Maximum:									42,973
Monthly Total:									900,501
8/1/2020	35.0	0.0	NO	26,421	0.0	0	NO	(5)	26,417
8/2/2020	34.8	0.0	NO	33,447	18.8	0	NO	359	33,806
8/3/2020	34.8	0.0	NO	24,494	0.1	0	NO	(4)	24,490

PG&E Gateway Generating Station

Discharge Flow Data

July 2020-September 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
8/4/2020	34.9	0.0	NO	19,975	17.0	0	NO	355	20,330
8/5/2020	35.1	0.0	NO	23,284	18.7	0	NO	366	23,651
8/6/2020	35.1	0.0	NO	20,310	18.5	0	NO	364	20,674
8/7/2020	34.9	0.0	NO	29,669	0.0	0	NO	(6)	29,663
8/8/2020	35.2	1.0	NO	23,070	19.0	2	NO	387	23,458
8/9/2020	34.6	0.0	NO	38,437	0.0	0	NO	(13)	38,424
8/10/2020	34.9	0.0	NO	33,774	18.7	0	NO	(13)	33,760
8/11/2020	34.8	0.0	NO	32,243	18.3	0	NO	352	32,595
8/12/2020	35.1	0.0	NO	31,210	0.1	0	NO	(10)	31,200
8/13/2020	35.2	0.0	NO	29,741	18.9	0	NO	362	30,103
8/14/2020	35.1	0.0	NO	30,895	19.2	0	NO	369	31,264
8/15/2020	34.9	0.0	NO	43,574	0.1	0	NO	(2)	43,572
8/16/2020	34.8	0.0	NO	31,625	18.7	0	NO	356	31,981
8/17/2020	35.0	0.0	NO	30,182	0.1	0	NO	(6)	30,176
8/18/2020	35.1	0.0	NO	25,880	16.6	0	NO	355	26,235
8/19/2020	35.1	0.0	NO	33,660	18.5	0	NO	368	34,028
8/20/2020	34.8	0.0	NO	33,253	17.5	0	NO	370	33,622
8/21/2020	35.1	0.0	NO	27,284	0.0	0	NO	(1)	27,283
8/22/2020	35.0	0.0	NO	24,510	0.0	0	NO	(7)	24,503
8/23/2020	35.0	0.0	NO	34,105	19.1	0	NO	362	34,467
8/24/2020	34.9	0.0	NO	30,975	0.0	0	NO	(8)	30,967
8/25/2020	35.1	0.0	NO	29,085	17.2	0	NO	350	29,435
8/26/2020	34.9	0.0	NO	31,719	0.1	0	NO	(7)	31,713
8/27/2020	34.8	0.0	NO	47,853	0.0	0	NO	(6)	47,847
8/28/2020	34.8	0.0	NO	48,645	18.7	0	NO	361	49,005
8/29/2020	34.8	0.0	NO	36,720	0.0	0	NO	(6)	36,714
8/30/2020	34.5	0.0	NO	38,238	0.0	0	NO	(7)	38,231
8/31/2020	34.4	0.0	NO	44,677	0.0	0	NO	(9)	44,667
Daily Maximum:									49,005
Monthly Total:									994,281
9/1/2020	34.6	0.0	NO	48,306	20.7	0	NO	407	48,712
9/2/2020	34.8	0.0	NO	48,992	0.0	0	NO	1	48,993
9/3/2020	34.9	0.0	NO	41,557	0.0	0	NO		41,557
9/4/2020	34.9	0.0	NO	30,401	20.0	0	NO	419	30,820
9/5/2020	34.7	0.0	NO	21,944	0.0	0	NO	0	21,945
9/6/2020	35.0	0.0	NO	44,629	0.0	0	NO		44,629

July 2020-September 2020

Daily Maximum:	49,005
Monthly Total:	1,312,252

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**

Address: 3225 Wilbur Avenue, Antioch, CA 94509

City: Antioch

Contact Name: Tim Wisdom

Flow Meter: Sewer Final Effluent _____ City Water Meter _____

(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2020**

Month	Flow (gallons)	Due Date
January		
February		
March		
April		
May		
June		
July	900,501	10/15/2020
August	994,281	10/15/2020
September	1,312,252	10/15/2020
October		
November		
December		

Note:

1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.

2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report
July 2020 to September 2020

WSAC Operation	
Month	Hours of Operation
January-20	
February-20	
March-20	
April-20	
May-20	
June-20	
July-20	374.67
August-20	491.42
September-20	403.25
October-20	
November-20	
December-20	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report
July 2020 to September 2020

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-20	
February-20	
March-20	
April-20	
May-20	
June-20	
July-20	2.88
August-20	3.10
September-20	3.08
October-20	
November-20	
December-20	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results

Attachment 8a
Laboratory Results
Q3 2020 Quarterly Monitoring of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2009118

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Quarterly Sampling (September 2020)

Project Received: 09/02/2020

Analytical Report reviewed & approved for release on 09/10/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (September 2020)
WorkOrder: 2009118

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/04/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001A	Water	09/01/2020 09:50	O&G	204979

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	09/08/2020 14:30

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001B	Water	09/02/2020 10:10	O&G	204979

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	09/08/2020 14:35

Analyst(s): HN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/04/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001A	Water	09/01/2020 09:50	O&G	204908

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.1	1	09/08/2020 09:55

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001B	Water	09/02/2020 10:10	O&G	204908

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	09/08/2020 10:00

Analyst(s): HN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L

Ammonia as N

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001C	Water	09/02/2020 10:10	WC_SKALAR 091020A1_30	204973

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Ammonia, total as N	50	1.0	10	09/10/2020 08:11

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/02/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001E	Water	09/02/2020 10:00	WetChem	204909

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
BOD	ND	4.0	1	09/07/2020 12:40

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/09/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001D	Water	09/02/2020 10:10	WC_SKALAR 090920A1_28	205249

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	1.5	1.0	1	09/09/2020 13:23

Analyst(s): NM



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L

Chemical Oxygen Demand (COD) as mg O₂ /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001F	Water	09/02/2020 10:00	SPECTROPHOTOMETER	204972

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
COD	ND	10	1	09/03/2020 11:55

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/08/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001I	Water	09/02/2020 10:00	AA1 _19	205150

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Mercury	ND	0.20	1	09/09/2020 13:22

Analyst(s): DB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/02/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001J	Water	09/02/2020 10:00	ICP-MS3 038SMPL.D	204921

Analytes	Result	RL	DF	Date Analyzed
Arsenic	0.86	0.50	1	09/03/2020 12:09
Cadmium	ND	0.50	1	09/03/2020 12:09
Chromium	ND	0.50	1	09/03/2020 12:09
Copper	2.8	0.50	1	09/03/2020 12:09
Iron	ND	100	1	09/03/2020 12:09
Lead	ND	0.50	1	09/03/2020 12:09
Molybdenum	55	0.50	1	09/03/2020 12:09
Nickel	1.2	1.0	1	09/03/2020 12:09
Selenium	ND	0.50	1	09/03/2020 12:09
Silver	ND	0.50	1	09/03/2020 12:09
Zinc	120	20	1	09/03/2020 12:09

Surrogates	REC (%)	Limits	
Terbium	116	70-130	09/03/2020 12:09

Analyst(s): DB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/04/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001C	Water	09/02/2020 10:10	WC_SKALAR 090420A1_25	205039

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Phenolics	55	2.0	1	09/04/2020 07:42

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/08/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001G	Water	09/02/2020 10:00	WetChem	205169

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Dissolved Solids	451	10.0	1	09/09/2020 11:05

Analyst(s): AL



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009118-001H	Water	09/02/2020 10:00	WetChem	204976

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	ND	1.00	1	09/03/2020 16:15

Analyst(s): HAD



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204979
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-204979

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.720	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	8.12	8.68	10.42	78	83	64-132	6.61	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/02/2020
Date Analyzed: 09/02/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204908
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-204908

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.20	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	17.0	16.8	20.83	82	80	78-114	1.48	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204973
Extraction Method: SM4500-NH3 BG
Analytical Method: SM4500-NH3 BG
Unit: mg/L
Sample ID: MB/LCS/LCSD-204973

QC Summary Report for SM4500-NH3

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.0920	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.07	4.13	4	102	103	88-113	1.41	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/02/2020
Date Analyzed: 09/07/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204909
Extraction Method: SM5210B
Analytical Method: SM5210 B-2001
Unit: mg/L
Sample ID: MB/LCS/LCSD-204909

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.00	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	197	199	198	99	101	80-120	1.01	16



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/09/2020
Date Analyzed: 09/09/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 205249
Extraction Method: SM4500-CN⁻ E
Analytical Method: SM4500-CN⁻ CE
Unit: µg/L
Sample ID: MB/LCS/LCSD-205249

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.770	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40.4	42.8	40	101	107	80-120	5.57	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: SPECTROPHOTOMETER
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204972
Extraction Method: SM5220 D-1997
Analytical Method: SM5220 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-204972

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.20	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	102	110	100	102	110	90-110	7.55	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/08/2020
Date Analyzed: 09/09/2020
Instrument: AA1
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 205150
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L
Sample ID: MB/LCS/LCSD-205150

QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.140	0.200	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	2.08	2.12	2	104	106	85-115	1.84	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/02/2020
Date Analyzed: 09/03/2020
Instrument: ICP-MS3
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204921
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS/LCSD-204921

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.120	0.500	-	-	-
Cadmium	ND	0.0600	0.500	-	-	-
Chromium	ND	0.360	0.500	-	-	-
Copper	ND	0.430	0.500	-	-	-
Iron	ND	58.0	100	-	-	-
Lead	ND	0.320	0.500	-	-	-
Molybdenum	ND	0.210	0.500	-	-	-
Nickel	ND	0.580	1.00	-	-	-
Selenium	ND	0.180	0.500	-	-	-
Silver	ND	0.0420	0.500	-	-	-
Zinc	ND	11.0	20.0	-	-	-
Surrogate Recovery						
Terbium	526			500	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	53.0	52.6	50	106	105	85-115	0.644	20
Cadmium	52.6	52.4	50	105	105	85-115	0.343	20
Chromium	51.4	50.6	50	103	101	85-115	1.57	20
Copper	53.8	53.2	50	108	106	85-115	1.07	20
Iron	5290	5210	5000	106	104	85-115	1.49	20
Lead	50.8	50.6	50	102	101	85-115	0.493	20
Molybdenum	52.1	51.6	50	104	103	85-115	0.791	20
Nickel	53.3	52.3	50	107	105	85-115	1.82	20
Selenium	53.5	53.1	50	107	106	85-115	0.844	20
Silver	49.0	49.0	50	98	98	85-115	0.0612	20
Zinc	544	539	500	109	108	85-115	0.869	20
Surrogate Recovery								
Terbium	535	532	500	107	106	70-130	0.600	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/04/2020
Date Analyzed: 09/04/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 205039
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L
Sample ID: MB/LCS/LCSD-205039
2009118-001CMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	1.60	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	39.2	39.2	40	98	98	80-120	0.153	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	1	92.0	93.8	40	55.1	92	97	70-130	2.03	30



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/08/2020
Date Analyzed: 09/09/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 205169
Extraction Method: SM2540 C-1997
Analytical Method: SM2540 C-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-205169

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	976	1010	1000	98	101	80-120	3.13	10



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (September 2020)

WorkOrder: 2009118
BatchID: 204976
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-204976

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	94.5	93.5	100	94	94	80-120	1.06	10



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2009118

ClientCode: PGEA

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com;J5Ld@pge.com;tlWY@p
PO:
Project: Quarterly Sampling (September 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 5 days;
7 days;

Date Received: 09/02/2020

Date Logged: 09/02/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2009118-001	E-001	Water	9/1/2020 09:50	☐	A	A								A		
2009118-001	E-001	Water	9/2/2020 10:00	☐				E		F	I	J			G	H
2009118-001	E-001	Water	9/2/2020 10:10	☐	B	B	C		D				C			

Test Legend:

1	1664A_SG_W	2	1664A_W	3	AMMONIA-SM4500BG_W	4	BOD_W
5	CN_SM4500CE_W	6	COD_W	7	HG_W	8	METALSMS_TTLC_W
9	PHENOLICS_W	10	PRDisposal Fee	11	TDS_W	12	TSS_W

Project Manager: Angela Rydelius

Prepared by: Valerie Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Quarterly Sampling (September 2020)

Work Order: 2009118

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 9/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2009118-001A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	2	1LA w/ HCl	☐	9/1/2020 9:50	5 days	None	☐	
			E1664A (SGT- HEM; Non-polar Material)			☐		5 days	None	☐	
2009118-001B	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	2	1LA w/ HCl	☐	9/2/2020 10:10	5 days	None	☐	
			E1664A (SGT- HEM; Non-polar Material)			☐		5 days	None	☐	
2009118-001C	E-001	Water	E420.4 (Phenolics)	1	250mL aG w/ H2SO4	☐	9/2/2020 10:10	5 days	None	☐	
			SM4500-NH3 BG (Ammonia Nitrogen)			☐		5 days	None	☐	
2009118-001D	E-001	Water	SM4500-CN ⁻ CE (Cyanide, Total)	1	250mL HDPE w/ NaOH	☐	9/2/2020 10:10	5 days	None	☐	
2009118-001E	E-001	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	9/2/2020 10:00	7 days	None	☐	
2009118-001F	E-001	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	9/2/2020 10:00	5 days	None	☐	
2009118-001G	E-001	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	9/2/2020 10:00	5 days	None	☐	
2009118-001H	E-001	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	9/2/2020 10:00	5 days	None	☐	
2009118-001I	E-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	9/2/2020 10:00	5 days	None	☐	
2009118-001J	E-001	Water	E200.8 (Metals) <Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	9/2/2020 10:00	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

2009118

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu

Bill To: PG&E Gateway

Analysis Request

Remarks

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ()

Project Name: Quarterly Sampling (September 2020)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite / Grab	SAMPLING		# Containers	Type Containers	Matrix		METHOD PRESERVED								Cyanide (pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	Metals (Arsenic and selenium) by 200.8 Selenium by reaction mode	Oil/Grease (USEPA 1664A) with and without silica gel clean up	Total Phenolics (USEPA 420.4)	Ammonia as N (SM 4500-NH3-G)	Mercury (245.2)	Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, Molybdenum, iron, and zinc)	ROD (SM 5210B)	COD (SM 5220D)	TDS (SM 2540C)	TSS (SM 2540D)			
			Date	Time			Waste Water	Sewer Water	None	ICE	H ₂ SO ₄	NaOH	HCL	HNO ₃	Other															
E-001		G	9/1/2020	09:50	2	1L Amb	X			X			X								X									
E-001		G	9/2/2020	10:10	2	1L Amb	X			X			X								X									
E-001		G	9/2/2020	10:10	1	500ml Amb	X			X	X								X	X										
E-001		G	9/2/2020	10:10	1	250-ml Poly	X			X		X			X															
E-001		C	9/2/2020	10:00	1	1L Poly	X		X	X													X							
E-001		C	9/2/2020	10:00	2	43-ml VOA	X			X	X													X						
E-001		C	9/2/2020	10:00	1	500-ml poly	X		X	X															X					
E-001		C	9/2/2020	10:00	1	1L poly	X		X	X																X				
E-001		C	9/2/2020	10:00	1	250-ml Poly	X			X				X						X										
E-001		C	9/2/2020	10:00	1	250-ml poly	X			X				X							X				X					

Relinquished By:

Date:

Time:

Received By:

ICE/t°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS:

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

VOAS O&G METALS OTHER
PRESERVATION pH<2



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Quarterly Sampling (September 2020)**

Date and Time Received: **9/2/2020 12:31**

Date Logged: **9/2/2020**

Received by: **Tina Perez**

Logged by: **Valerie Alfaro**

WorkOrder No: **2009118** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 2.6°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒ No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☒ No ☐	NA ☐

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:

Attachment 8b
Laboratory Results
SA 2 2020 Semi-Annual Monitoring of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2009104

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Semi-Annual Sampling (September 2020)

Project Received: 09/02/2020

Analytical Report reviewed & approved for release on 09/10/2020 by:

Susan Thompson
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annual Sampling (September 2020)
WorkOrder: 2009104

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annual Sampling (September 2020)
WorkOrder: 2009104

Analytical Qualifiers

P Agreement between quantitative confirmation results exceed method recommended limits
S Surrogate recovery outside accepted recovery limits.
c1 Surrogate recovery outside of the control limits due to the dilution of the sample.



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009104-001D	Water	09/02/2020 10:10	GC40 09032038.d	204989

Analytes	Result	Qualifiers	MDL	RL	DE	Date Analyzed
Aldrin	ND		0.00028	0.0010	1	09/03/2020 19:17
a-BHC	0.0023	P	0.00031	0.0010	1	09/03/2020 19:17
b-BHC	ND		0.00069	0.0010	1	09/03/2020 19:17
d-BHC	ND		0.00014	0.0010	1	09/03/2020 19:17
g-BHC	ND		0.00045	0.0010	1	09/03/2020 19:17
Chlordane (Technical)	ND		0.0023	0.020	1	09/03/2020 19:17
p,p-DDD	ND		0.00011	0.0010	1	09/03/2020 19:17
p,p-DDE	ND		0.00018	0.0010	1	09/03/2020 19:17
p,p-DDT	ND		0.00017	0.0010	1	09/03/2020 19:17
Dieldrin	0.0025	P	0.00014	0.0010	1	09/03/2020 19:17
Endosulfan I	ND		0.00011	0.0010	1	09/03/2020 19:17
Endosulfan II	ND		0.00046	0.0010	1	09/03/2020 19:17
Endosulfan sulfate	ND		0.00033	0.0020	1	09/03/2020 19:17
Endrin	0.0039		0.00018	0.0010	1	09/03/2020 19:17
Endrin aldehyde	ND		0.00053	0.0010	1	09/03/2020 19:17
Heptachlor	ND		0.00041	0.0010	1	09/03/2020 19:17
Heptachlor epoxide	ND		0.00025	0.0010	1	09/03/2020 19:17
Toxaphene	ND		0.0020	0.020	1	09/03/2020 19:17
Aroclor1016	ND		0.0019	0.020	1	09/03/2020 19:17
Aroclor1221	ND		0.0024	0.020	1	09/03/2020 19:17
Aroclor1232	ND		0.0038	0.020	1	09/03/2020 19:17
Aroclor1242	ND		0.0028	0.020	1	09/03/2020 19:17
Aroclor1248	ND		0.0018	0.020	1	09/03/2020 19:17
Aroclor1254	ND		0.0015	0.020	1	09/03/2020 19:17
Aroclor1260	ND		0.0028	0.020	1	09/03/2020 19:17

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	73	14-168	09/03/2020 19:17

Analyst(s): CN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009104-001B	Water	09/02/2020 10:10	GC45 09032006.D	205006

Analytes	Result	RL	DE	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	09/03/2020 10:21
Acrylonitrile	ND	2.0	1	09/03/2020 10:21
2-Chloroethyl Vinyl Ether	ND	1.0	1	09/03/2020 10:21

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	65-165	09/03/2020 10:21

Analyst(s): KF



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/09/2020
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009104-001A	Water	09/02/2020 10:10	GC38 09092011.D	205232

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/09/2020 13:32
Bromodichloromethane	1.0	0.50	1	09/09/2020 13:32
Bromoform	4.0	0.50	1	09/09/2020 13:32
Bromomethane	ND	0.50	1	09/09/2020 13:32
Carbon tetrachloride	ND	0.50	1	09/09/2020 13:32
Chlorobenzene	ND	0.50	1	09/09/2020 13:32
Chloroethane	ND	0.50	1	09/09/2020 13:32
Chloroform	0.57	0.50	1	09/09/2020 13:32
Chloromethane	ND	0.50	1	09/09/2020 13:32
Dibromochloromethane	0.77	0.50	1	09/09/2020 13:32
1,2-Dichlorobenzene	ND	0.50	1	09/09/2020 13:32
1,3-Dichlorobenzene	ND	0.50	1	09/09/2020 13:32
1,4-Dichlorobenzene	ND	0.50	1	09/09/2020 13:32
1,1-Dichloroethane	ND	0.50	1	09/09/2020 13:32
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	09/09/2020 13:32
1,1-Dichloroethene	ND	0.50	1	09/09/2020 13:32
trans-1,2-Dichloroethene	ND	0.50	1	09/09/2020 13:32
1,2-Dichloropropane	ND	0.50	1	09/09/2020 13:32
cis-1,3-Dichloropropene	ND	0.50	1	09/09/2020 13:32
trans-1,3-Dichloropropene	ND	0.50	1	09/09/2020 13:32
Ethylbenzene	ND	0.50	1	09/09/2020 13:32
Methylene chloride	ND	2.0	1	09/09/2020 13:32
1,1,2,2-Tetrachloroethane	ND	0.50	1	09/09/2020 13:32
Tetrachloroethene	ND	0.50	1	09/09/2020 13:32
Toluene	ND	0.50	1	09/09/2020 13:32
1,1,1-Trichloroethane	ND	0.50	1	09/09/2020 13:32
1,1,2-Trichloroethane	ND	0.50	1	09/09/2020 13:32
Trichloroethene	ND	0.50	1	09/09/2020 13:32
Trichlorofluoromethane	ND	0.50	1	09/09/2020 13:32
Vinyl chloride	ND	0.50	1	09/09/2020 13:32

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	78-112	09/09/2020 13:32
Toluene-d8	90	82-109	09/09/2020 13:32
4-BFB	80	63-121	09/09/2020 13:32

Analyst(s): JEM



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
E-001	2009104-001C	Water	09/02/2020 10:10		GC21 09102008.D	205002
Analytes	Result		RL	DF	Date Analyzed	
Acenaphthene	ND		0.024	5	09/10/2020 10:35	
Acenaphthylene	ND		0.024	5	09/10/2020 10:35	
Anthracene	ND		0.048	5	09/10/2020 10:35	
Benzidine	ND		24	5	09/10/2020 10:35	
Benzo (a) anthracene	ND		0.24	5	09/10/2020 10:35	
Benzo (a) pyrene	ND		0.024	5	09/10/2020 10:35	
Benzo (b) fluoranthene	ND		0.096	5	09/10/2020 10:35	
Benzo (g,h,i) perylene	ND		0.096	5	09/10/2020 10:35	
Benzo (k) fluoranthene	ND		0.048	5	09/10/2020 10:35	
Bis (2-chloroethoxy) Methane	ND		4.8	5	09/10/2020 10:35	
Bis (2-chloroethyl) Ether	ND		0.024	5	09/10/2020 10:35	
Bis (2-chloroisopropyl) Ether	ND		0.24	5	09/10/2020 10:35	
Bis (2-ethylhexyl) Phthalate	ND		0.96	5	09/10/2020 10:35	
4-Bromophenyl Phenyl Ether	ND		4.8	5	09/10/2020 10:35	
Butylbenzyl Phthalate	ND		0.24	5	09/10/2020 10:35	
4-Chloro-3-methylphenol	ND		4.8	5	09/10/2020 10:35	
2-Chloronaphthalene	ND		4.8	5	09/10/2020 10:35	
2-Chlorophenol	ND		0.24	5	09/10/2020 10:35	
4-Chlorophenyl Phenyl Ether	ND		4.8	5	09/10/2020 10:35	
Chrysene	ND		0.048	5	09/10/2020 10:35	
Dibenzo (a,h) anthracene	ND		0.048	5	09/10/2020 10:35	
Di-n-butyl Phthalate	ND		0.24	5	09/10/2020 10:35	
1,2-Dichlorobenzene	ND		4.8	5	09/10/2020 10:35	
1,3-Dichlorobenzene	ND		4.8	5	09/10/2020 10:35	
1,4-Dichlorobenzene	ND		4.8	5	09/10/2020 10:35	
3,3-Dichlorobenzidine	ND		0.096	5	09/10/2020 10:35	
2,4-Dichlorophenol	ND		0.048	5	09/10/2020 10:35	
Diethyl Phthalate	ND		0.24	5	09/10/2020 10:35	
2,4-Dimethylphenol	ND		4.8	5	09/10/2020 10:35	
Dimethyl Phthalate	ND		0.048	5	09/10/2020 10:35	
4,6-Dinitro-2-methylphenol	ND		24	5	09/10/2020 10:35	
2,4-Dinitrophenol	ND		9.6	5	09/10/2020 10:35	
2,4-Dinitrotoluene	ND		0.24	5	09/10/2020 10:35	
2,6-Dinitrotoluene	ND		0.24	5	09/10/2020 10:35	
Di-n-octyl Phthalate	ND		0.24	5	09/10/2020 10:35	
1,2-Diphenylhydrazine	ND		4.8	5	09/10/2020 10:35	
Fluoranthene	ND		0.048	5	09/10/2020 10:35	

(Cont.)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/03/2020
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009104-001C	Water	09/02/2020 10:10	GC21 09102008.D	205002

Analytes	Result	RL	DF	Date Analyzed
Fluorene	ND	0.048	5	09/10/2020 10:35
Hexachlorobenzene	ND	0.024	5	09/10/2020 10:35
Hexachlorobutadiene	ND	0.048	5	09/10/2020 10:35
Hexachlorocyclopentadiene	ND	24	5	09/10/2020 10:35
Hexachloroethane	ND	0.24	5	09/10/2020 10:35
Indeno (1,2,3-cd) pyrene	ND	0.096	5	09/10/2020 10:35
Isophorone	ND	4.8	5	09/10/2020 10:35
Naphthalene	ND	0.24	5	09/10/2020 10:35
Nitrobenzene	ND	4.8	5	09/10/2020 10:35
2-Nitrophenol	ND	24	5	09/10/2020 10:35
4-Nitrophenol	ND	24	5	09/10/2020 10:35
N-Nitrosodiphenylamine	ND	4.8	5	09/10/2020 10:35
N-Nitrosodi-n-propylamine	ND	4.8	5	09/10/2020 10:35
Pentachlorophenol	ND	1.2	5	09/10/2020 10:35
Phenanthrene	ND	0.096	5	09/10/2020 10:35
Phenol	1.8	0.96	5	09/10/2020 10:35
Pyrene	ND	0.048	5	09/10/2020 10:35
1,2,4-Trichlorobenzene	ND	4.8	5	09/10/2020 10:35
2,4,6-Trichlorophenol	ND	0.048	5	09/10/2020 10:35
N-Nitrosodimethylamine	ND	24	5	09/10/2020 10:35

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorophenol	59		20-130	09/10/2020 10:35
Phenol-d5	58		20-130	09/10/2020 10:35
Nitrobenzene-d5	55		30-130	09/10/2020 10:35
2-Fluorobiphenyl	68		40-130	09/10/2020 10:35
2,4,6-Tribromophenol	147	S	40-130	09/10/2020 10:35
Terphenyl-d14	94		40-130	09/10/2020 10:35

Analyst(s): AK

Analytical Comments: c1



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC40
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 204989
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-204989

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.000280	0.00100	-	-	-
a-BHC	ND	0.000310	0.00100	-	-	-
b-BHC	ND	0.000690	0.00100	-	-	-
d-BHC	ND	0.000140	0.00100	-	-	-
g-BHC	ND	0.000450	0.00100	-	-	-
a-Chlordane	ND	0.000850	0.00100	-	-	-
g-Chlordane	ND	0.000150	0.00100	-	-	-
p,p-DDD	ND	0.000110	0.00100	-	-	-
p,p-DDE	ND	0.000180	0.00100	-	-	-
p,p-DDT	ND	0.000170	0.00100	-	-	-
Dieldrin	ND	0.000140	0.00100	-	-	-
Endosulfan I	ND	0.000110	0.00100	-	-	-
Endosulfan II	ND	0.000460	0.00100	-	-	-
Endosulfan sulfate	ND	0.000330	0.00200	-	-	-
Endrin	ND	0.000180	0.00100	-	-	-
Endrin aldehyde	ND	0.000530	0.00100	-	-	-
Endrin ketone	ND	0.000260	0.00100	-	-	-
Heptachlor	ND	0.000410	0.00100	-	-	-
Heptachlor epoxide	ND	0.000250	0.00100	-	-	-
Methoxychlor	ND	0.000120	0.00100	-	-	-
Toxaphene	ND	0.00200	0.0200	-	-	-
Aroclor1016	ND	0.00190	0.0200	-	-	-
Aroclor1221	ND	0.00240	0.0200	-	-	-
Aroclor1232	ND	0.00380	0.0200	-	-	-
Aroclor1242	ND	0.00280	0.0200	-	-	-
Aroclor1248	ND	0.00180	0.0200	-	-	-
Aroclor1254	ND	0.00150	0.0200	-	-	-
Aroclor1260	ND	0.00280	0.0200	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0507			0.05	101	35-113

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC40
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 204989
Extraction Method: E608.3/SW3620B
Analytical Method: E608.3
Unit: µg/L
Sample ID: MB/LCS/LCSD-204989

QC Summary Report for E608.3 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0438	0.0433	0.050	88	87	50-103	1.18	20
a-BHC	0.0467	0.0461	0.050	93	92	63-131	1.29	20
b-BHC	0.0458	0.0454	0.050	92	91	56-112	0.938	20
d-BHC	0.0506	0.0498	0.050	101	100	63-132	1.55	20
g-BHC	0.0374	0.0373	0.050	75	75	61-135	0.225	20
a-Chlordane	0.0469	0.0458	0.050	94	92	54-113	2.47	20
g-Chlordane	0.0452	0.0441	0.050	90	88	55-117	2.39	20
p,p-DDD	0.0498	0.0489	0.050	100	98	56-135	1.75	20
p,p-DDE	0.0509	0.0483	0.050	102	97	56-131	5.15	20
p,p-DDT	0.0573	0.0554	0.050	115	111	47-153	3.44	20
Dieldrin	0.0544	0.0522	0.050	109	104	67-152	4.23	20
Endosulfan I	0.0477	0.0464	0.050	95	93	56-137	2.91	20
Endosulfan II	0.0521	0.0504	0.050	104	101	50-113	3.25	20
Endosulfan sulfate	0.0542	0.0528	0.050	108	106	57-121	2.68	20
Endrin	0.0525	0.0511	0.050	105	102	60-150	2.72	20
Endrin aldehyde	0.0502	0.0487	0.050	100	97	47-121	2.92	20
Endrin ketone	0.0476	0.0466	0.050	95	93	48-130	1.95	20
Heptachlor	0.0468	0.0464	0.050	94	93	46-133	0.929	20
Heptachlor epoxide	0.0431	0.0422	0.050	86	84	54-105	2.11	20
Methoxychlor	0.0604	0.0589	0.050	121	118	54-135	2.47	20
Aroclor1260	0.178	0.180	0.15	119	120	42-121	1.16	20
Surrogate Recovery								
Decachlorobiphenyl	0.0518	0.0487	0.050	103	97	35-113	6.11	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC45
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205006
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205006
2009104-001BMS/MSD

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	2.50	5.00	-	-	-
Acrylonitrile	ND	1.00	2.00	-	-	-
2-Chloroethyl Vinyl Ether	ND	0.500	1.00	-	-	-
Surrogate Recovery						
Dibromofluoromethane	27.2			25	109	76-110

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	18.6	18.5	20	93	92	71-140	0.803	20
Acrylonitrile	19.9	20.2	20	100	101	67-145	1.72	20
2-Chloroethyl Vinyl Ether	16.9	17.6	20	84	88	70-124	4.19	20
Surrogate Recovery								
Dibromofluoromethane	26.9	27.2	25	108	109	76-110	0.949	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acrolein (Propenal)	1	15.5	15.1	20	ND	78	76	24-149	2.50	20
Acrylonitrile	1	19.5	18.7	20	ND	98	93	50-151	4.27	20
2-Chloroethyl Vinyl Ether	1	19.8	19.6	20	ND	99	98	66-140	1.36	20
Surrogate Recovery										
Dibromofluoromethane	1	26.7	26.8	25		107	107	78-112	0.304	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/09/2020
Date Analyzed: 09/09/2020
Instrument: GC38
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205232
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205232

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.0360	0.500	-	-	-
Bromodichloromethane	ND	0.0270	0.500	-	-	-
Bromoform	ND	0.210	0.500	-	-	-
Bromomethane	ND	0.270	0.500	-	-	-
t-Butyl alcohol (TBA)	ND	2.20	5.00	-	-	-
Carbon tetrachloride	ND	0.0470	0.500	-	-	-
Chlorobenzene	ND	0.0870	0.500	-	-	-
Chloroethane	ND	0.160	0.500	-	-	-
Chloroform	ND	0.0850	0.500	-	-	-
Chloromethane	ND	0.0960	0.500	-	-	-
Dibromochloromethane	ND	0.0830	0.500	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0750	0.500	-	-	-
1,2-Dichlorobenzene	ND	0.0700	0.500	-	-	-
1,3-Dichlorobenzene	ND	0.0840	0.500	-	-	-
1,4-Dichlorobenzene	ND	0.0680	0.500	-	-	-
1,1-Dichloroethane	ND	0.0720	0.500	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0180	0.500	-	-	-
1,1-Dichloroethene	ND	0.0150	0.500	-	-	-
trans-1,2-Dichloroethene	ND	0.110	0.500	-	-	-
1,2-Dichloropropane	ND	0.0110	0.500	-	-	-
cis-1,3-Dichloropropene	ND	0.0660	0.500	-	-	-
trans-1,3-Dichloropropene	ND	0.0930	0.500	-	-	-
Ethylbenzene	ND	0.0810	0.500	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.120	0.500	-	-	-
Methylene chloride	ND	1.00	2.00	-	-	-
Styrene	ND	0.470	2.00	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0350	0.500	-	-	-
Tetrachloroethene	ND	0.0790	0.500	-	-	-
Toluene	ND	0.190	0.500	-	-	-
1,2,4-Trichlorobenzene	ND	0.200	0.500	-	-	-
1,1,1-Trichloroethane	ND	0.0740	0.500	-	-	-
1,1,2-Trichloroethane	ND	0.150	0.500	-	-	-
Trichloroethene	ND	0.190	0.500	-	-	-
Trichlorofluoromethane	ND	0.0980	0.500	-	-	-
Vinyl chloride	ND	0.0520	0.500	-	-	-
m,p-Xylene	ND	0.150	0.500	-	-	-
o-Xylene	ND	0.0700	0.500	-	-	-

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/09/2020
Date Analyzed: 09/09/2020
Instrument: GC38
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205232
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205232

QC Summary Report for E624.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	26.8			25	107	76-110
Toluene-d8	22.9			25	91	84-111
4-BFB	2.02			2.5	81	64-121



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/09/2020
Date Analyzed: 09/09/2020
Instrument: GC38
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205232
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205232

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	3.36	3.46	4	84	87	62-119	2.95	20
Benzene	3.36	3.38	4	84	84	71-126	0.424	20
Bromodichloromethane	3.50	3.52	4	88	88	63-119	0.435	20
Bromoform	3.41	3.47	4	85	87	46-117	1.49	20
Bromomethane	4.13	4.02	4	103	100	32-171	2.91	20
t-Butyl alcohol (TBA)	13.2	13.7	16	82	86	40-131	4.29	20
Carbon tetrachloride	3.80	3.84	4	95	96	67-122	1.02	20
Chlorobenzene	3.53	3.54	4	88	88	71-117	0.286	20
Chloroethane	3.86	4.01	4	97	100	53-136	3.74	20
Chloroform	3.70	3.73	4	93	93	67-126	0.613	20
Chloromethane	3.32	3.41	4	83	85	42-148	2.66	20
Dibromochloromethane	3.23	3.31	4	81	83	52-120	2.50	20
1,2-Dibromoethane (EDB)	1.58	1.62	2	79	81	58-117	2.53	20
1,2-Dichlorobenzene	3.47	3.46	4	87	87	71-117	0.180	20
1,3-Dichlorobenzene	3.56	3.55	4	89	89	74-116	0.499	20
1,4-Dichlorobenzene	3.57	3.50	4	89	87	71-115	2.12	20
1,1-Dichloroethane	3.35	3.36	4	84	84	68-128	0.0483	20
1,2-Dichloroethane (1,2-DCA)	3.57	3.64	4	89	91	61-123	1.83	20
1,1-Dichloroethene	3.30	3.33	4	83	83	65-126	0.903	20
trans-1,2-Dichloroethene	3.56	3.59	4	89	90	70-126	0.622	20
1,2-Dichloropropane	3.19	3.22	4	80	81	67-124	0.920	20
cis-1,3-Dichloropropene	3.33	3.37	4	83	84	63-119	1.08	20
trans-1,3-Dichloropropene	3.45	3.48	4	86	87	63-116	0.924	20
Diisopropyl ether (DIPE)	3.07	3.10	4	77	78	64-128	1.15	20
Ethylbenzene	3.34	3.39	4	83	85	69-120	1.67	20
Ethyl tert-butyl ether (ETBE)	3.31	3.35	4	83	84	63-120	1.14	20
Methyl-t-butyl ether (MTBE)	3.48	3.54	4	87	89	60-121	1.80	20
Methylene chloride	3.64	3.64	4	91	91	40-148	0.0995	20
Styrene	3.38	3.31	4	84	83	57-118	2.06	20
1,1,2,2-Tetrachloroethane	3.02	3.09	4	75	77	60-116	2.37	20
Tetrachloroethene	3.73	3.75	4	93	94	60-131	0.512	20
Toluene	3.31	3.33	4	83	83	67-115	0.604	20
1,2,4-Trichlorobenzene	4.28	4.22	4	107	105	61-133	1.48	20
1,1,1-Trichloroethane	3.70	3.70	4	92	93	67-124	0.240	20
1,1,2-Trichloroethane	3.48	3.56	4	87	89	62-117	2.34	20
Trichloroethene	3.54	3.56	4	89	89	69-120	0.407	20
Trichlorofluoromethane	3.81	3.82	4	95	96	60-134	0.355	20
Vinyl chloride	1.74	1.77	2	87	88	52-145	1.39	20

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/09/2020
Date Analyzed: 09/09/2020
Instrument: GC38
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205232
Extraction Method: E624.1
Analytical Method: E624.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205232

QC Summary Report for E624.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
m,p-Xylene	6.70	6.74	8	84	84	67-119	0.548	20
o-Xylene	3.37	3.40	4	84	85	68-120	0.865	20
Surrogate Recovery								
Dibromofluoromethane	26.5	26.6	25	106	106	76-110	0.260	20
Toluene-d8	23.8	23.8	25	95	95	84-111	0.241	20
4-BFB	2.14	2.10	2.5	86	84	64-121	2.04	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Carbazole	ND	0.110	1.00	-	-	-
n-Decane	ND	0.230	1.00	-	-	-
n-Octadecane	ND	0.100	1.00	-	-	-
Acenaphthene	ND	0.00280	0.00500	-	-	-
Acenaphthylene	ND	0.00170	0.00500	-	-	-
Anthracene	ND	0.00440	0.0100	-	-	-
Benzidine	ND	0.580	5.00	-	-	-
Benzo (a) anthracene	ND	0.0190	0.0500	-	-	-
Benzo (a) pyrene	ND	0.00440	0.0100	-	-	-
Benzo (b) fluoranthene	ND	0.00500	0.0200	-	-	-
Benzo (g,h,i) perylene	ND	0.00830	0.0200	-	-	-
Benzo (k) fluoranthene	ND	0.00520	0.0100	-	-	-
Benzyl Alcohol	ND	3.00	5.00	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.180	1.00	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00260	0.0100	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0160	0.0500	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.110	1.00	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0970	0.200	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.0850	1.00	-	-	-
Butylbenzyl Phthalate	ND	0.0430	0.0500	-	-	-
4-Chloroaniline	ND	0.00210	0.00500	-	-	-
4-Chloro-3-methylphenol	ND	0.150	1.00	-	-	-
2-Chloronaphthalene	ND	0.0640	1.00	-	-	-
2-Chlorophenol	ND	0.00770	0.0500	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.110	1.00	-	-	-
Chrysene	ND	0.00880	0.0100	-	-	-
Dibenzo (a,h) anthracene	ND	0.00830	0.0100	-	-	-
Dibenzofuran	ND	0.0530	1.00	-	-	-
Di-n-butyl Phthalate	ND	0.0140	0.0500	-	-	-
1,2-Dichlorobenzene	ND	0.480	1.00	-	-	-
1,3-Dichlorobenzene	ND	0.240	1.00	-	-	-
1,4-Dichlorobenzene	ND	0.340	1.00	-	-	-
3,3-Dichlorobenzidine	ND	0.00290	0.0200	-	-	-
2,4-Dichlorophenol	ND	0.00290	0.0100	-	-	-
2,6-Dichlorophenol	ND	0.00930	0.0500	-	-	-
Diethyl Phthalate	ND	0.0190	0.0500	-	-	-
2,4-Dimethylphenol	ND	0.140	1.00	-	-	-
Dimethyl Phthalate	ND	0.00480	0.0100	-	-	-

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
4,6-Dinitro-2-methylphenol	ND	1.00	5.00	-	-	-
2,4-Dinitrophenol	ND	0.550	2.00	-	-	-
2,4-Dinitrotoluene	ND	0.0120	0.0500	-	-	-
2,6-Dinitrotoluene	ND	0.00480	0.0500	-	-	-
Di-n-octyl Phthalate	ND	0.0170	0.0500	-	-	-
1,2-Diphenylhydrazine	ND	0.130	1.00	-	-	-
Fluoranthene	ND	0.00430	0.0100	-	-	-
Fluorene	ND	0.00450	0.0100	-	-	-
Hexachlorobenzene	ND	0.000730	0.00500	-	-	-
Hexachlorobutadiene	ND	0.000910	0.0100	-	-	-
Hexachlorocyclopentadiene	ND	0.850	5.00	-	-	-
Hexachloroethane	ND	0.00720	0.0500	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.00780	0.0200	-	-	-
Isophorone	ND	0.180	1.00	-	-	-
2-Methylnaphthalene	ND	0.00180	0.0100	-	-	-
2-Methylphenol (o-Cresol)	ND	0.320	1.00	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.420	1.00	-	-	-
Naphthalene	ND	0.00550	0.0500	-	-	-
2-Nitroaniline	ND	0.310	5.00	-	-	-
3-Nitroaniline	ND	0.660	5.00	-	-	-
4-Nitroaniline	ND	1.30	5.00	-	-	-
Nitrobenzene	ND	0.130	1.00	-	-	-
2-Nitrophenol	ND	0.550	5.00	-	-	-
4-Nitrophenol	ND	1.60	5.00	-	-	-
N-Nitrosodiphenylamine	ND	0.0900	1.00	-	-	-
N-Nitrosodi-n-propylamine	ND	0.320	1.00	-	-	-
Pentachlorophenol	ND	0.0500	0.250	-	-	-
Phenanthrene	ND	0.00740	0.0200	-	-	-
Phenol	ND	0.0200	0.200	-	-	-
Pyrene	ND	0.00420	0.0100	-	-	-
Pyridine	ND	0.160	1.00	-	-	-
1,2,4-Trichlorobenzene	ND	0.0750	1.00	-	-	-
2,4,5-Trichlorophenol	ND	0.00200	0.0100	-	-	-
2,4,6-Trichlorophenol	ND	0.00350	0.0100	-	-	-
N-Nitrosodimethylamine	ND	0.740	5.00	-	-	-

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.65			5	93	50-130
Phenol-d5	4.65			5	93	60-130
Nitrobenzene-d5	4.06			5	81	60-130
2-Fluorobiphenyl	4.27			5	85	60-130
2,4,6-Tribromophenol	3.80			5	76	60-130
Terphenyl-d14	3.85			5	77	70-130



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbazole	9.23	8.94	10	92	89	70-130	3.13	25
n-Decane	7.91	7.40	10	79	74	50-130	6.59	25
n-Octadecane	8.15	7.69	10	82	77	70-130	5.82	25
Acenaphthene	0.408	0.408	0.50	82	82	70-130	0.0223	25
Acenaphthylene	0.603	0.600	0.50	121	120	60-130	0.504	25
Anthracene	0.417	0.408	0.50	83	82	70-130	2.05	25
Benzidine	49.8	51.5	50	100	103	50-130	3.39	25
Benzo (a) anthracene	0.511	0.522	0.50	102	104	60-130	2.10	25
Benzo (a) pyrene	0.492	0.496	0.50	99	99	70-130	0.593	25
Benzo (b) fluoranthene	0.604	0.595	0.50	121	119	60-130	1.49	25
Benzo (g,h,i) perylene	0.438	0.445	0.50	88	89	70-130	1.44	25
Benzo (k) fluoranthene	0.520	0.511	0.50	104	102	70-130	1.64	25
Benzyl Alcohol	41.3	39.1	50	83	78	70-130	5.54	25
Bis (2-chloroethoxy) Methane	7.82	7.67	10	78	77	70-130	1.91	25
Bis (2-chloroethyl) Ether	0.454	0.428	0.50	91	86	60-130	6.00	25
Bis (2-chloroisopropyl) Ether	0.420	0.398	0.50	84	80	60-130	5.55	25
Bis (2-ethylhexyl) Adipate	7.78	8.34	10	78	83	60-130	7.01	25
Bis (2-ethylhexyl) Phthalate	0.435	0.461	0.50	87	92	60-130	5.71	25
4-Bromophenyl Phenyl Ether	8.97	8.68	10	90	87	70-130	3.20	25
Butylbenzyl Phthalate	0.460	0.489	0.50	92	98	60-130	5.92	25
4-Chloroaniline	0.502	0.499	0.50	100	100	70-130	0.718	25
4-Chloro-3-methylphenol	9.75	9.69	10	97	97	70-130	0.636	25
2-Chloronaphthalene	8.59	8.23	10	86	82	70-130	4.28	25
2-Chlorophenol	0.439	0.419	0.50	88	84	60-130	4.69	25
4-Chlorophenyl Phenyl Ether	8.36	8.32	10	84	83	70-130	0.484	25
Chrysene	0.484	0.486	0.50	97	97	70-130	0.273	25
Dibenzo (a,h) anthracene	0.451	0.462	0.50	90	92	70-130	2.26	25
Dibenzofuran	8.48	8.41	10	85	84	70-130	0.938	25
Di-n-butyl Phthalate	0.500	0.490	0.50	100	98	70-130	2.11	25
1,2-Dichlorobenzene	8.59	8.10	10	86	81	60-130	5.77	25
1,3-Dichlorobenzene	8.51	7.87	10	85	79	60-130	7.80	25
1,4-Dichlorobenzene	9.97	9.35	10	100	94	60-130	6.38	25
3,3-Dichlorobenzidine	0.419	0.419	0.50	84	84	70-130	0.0143	25
2,4-Dichlorophenol	0.506	0.493	0.50	101	99	70-130	2.53	25
2,6-Dichlorophenol	0.493	0.481	0.50	99	96	70-130	2.50	25
Diethyl Phthalate	0.431	0.438	0.50	86	88	70-130	1.59	25
2,4-Dimethylphenol	10.4	10.3	10	104	103	70-130	0.637	25
Dimethyl Phthalate	0.455	0.454	0.50	91	91	70-130	0.0758	25

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	41.0	40.4	50	82	81	70-130	1.51	25
2,4-Dinitrophenol	7.10	7.39	10	71	74	60-130	4.04	25
2,4-Dinitrotoluene	0.412	0.430	0.50	82	86	70-130	4.10	25
2,6-Dinitrotoluene	0.446	0.470	0.50	89	94	70-130	5.13	25
Di-n-octyl Phthalate	0.475	0.498	0.50	95	100	70-130	4.85	25
1,2-Diphenylhydrazine	8.11	7.94	10	81	79	70-130	2.22	25
Fluoranthene	0.547	0.525	0.50	109	105	70-130	4.16	25
Fluorene	0.472	0.475	0.50	94	95	70-130	0.756	25
Hexachlorobenzene	0.424	0.416	0.50	85	83	60-130	1.93	25
Hexachlorobutadiene	0.473	0.450	0.50	95	90	60-130	4.93	25
Hexachlorocyclopentadiene	39.3	39.1	50	79	78	60-130	0.602	25
Hexachloroethane	0.424	0.402	0.50	85	80	60-130	5.31	25
Indeno (1,2,3-cd) pyrene	0.488	0.497	0.50	98	99	70-130	1.84	25
Isophorone	9.51	9.00	10	95	90	70-130	5.54	25
2-Methylnaphthalene	0.569	0.551	0.50	114	110	60-130	3.13	25
2-Methylphenol (o-Cresol)	8.66	8.50	10	87	85	70-130	1.84	25
3 & 4-Methylphenol (m,p-Cresol)	8.46	8.27	10	85	83	70-130	2.33	25
Naphthalene	0.418	0.388	0.50	83	78	50-130	7.31	25
2-Nitroaniline	41.8	42.0	50	84	84	70-130	0.417	25
3-Nitroaniline	44.3	44.6	50	89	89	70-130	0.689	25
4-Nitroaniline	53.3	52.0	50	107	104	70-130	2.46	25
Nitrobenzene	9.03	8.69	10	90	87	70-130	3.84	25
2-Nitrophenol	53.1	50.4	50	106	101	70-130	5.25	25
4-Nitrophenol	51.9	52.7	50	104	105	50-130	1.52	25
N-Nitrosodiphenylamine	8.91	8.59	10	89	86	70-130	3.57	25
N-Nitrosodi-n-propylamine	8.15	7.70	10	81	77	60-130	5.70	25
Pentachlorophenol	2.23	2.15	2.5	89	86	60-130	3.45	25
Phenanthrene	0.418	0.411	0.50	84	82	70-130	1.87	25
Phenol	1.62	1.56	2	81	78	60-130	4.09	25
Pyrene	0.477	0.508	0.50	95	102	70-130	6.30	25
Pyridine	8.47	7.37	10	85	74	50-130	13.8	25
1,2,4-Trichlorobenzene	8.99	8.68	10	90	87	70-130	3.50	25
2,4,5-Trichlorophenol	0.454	0.455	0.50	91	91	70-130	0.127	25
2,4,6-Trichlorophenol	0.447	0.445	0.50	89	89	70-130	0.492	25
N-Nitrosodimethylamine	39.6	36.7	50	79	73	60-130	7.72	25

(Cont.)



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/03/2020
Date Analyzed: 09/03/2020
Instrument: GC21
Matrix: Water
Project: Semi-Annual Sampling (September 2020)

WorkOrder: 2009104
BatchID: 205002
Extraction Method: E625.1
Analytical Method: E625.1
Unit: µg/L
Sample ID: MB/LCS/LCSD-205002

QC Summary Report for E625.1

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	4.57	4.15	5	91	83	50-130	9.74	25
Phenol-d5	4.61	4.31	5	92	86	60-130	6.92	25
Nitrobenzene-d5	4.80	4.75	5	96	95	60-130	1.15	25
2-Fluorobiphenyl	4.77	4.54	5	95	91	60-130	4.85	25
2,4,6-Tribromophenol	4.73	4.61	5	95	92	60-130	2.70	25
Terphenyl-d14	3.90	4.11	5	78	82	70-130	5.10	25



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2009104

ClientCode: PGEA

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☒ EQulS☒ Email☐ HardCopy☐ ThirdParty☐ J-flag☒ Detection Summary☒ Dry-Weight

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com;J5Ld@pge.com;tlWY@p
PO:
Project: Semi-Annual Sampling (September 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: 09/02/2020

Date Logged: 09/02/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2009104-001	E-001	Water	9/2/2020 10:10	☐	D	A	B	C	A							

Test Legend:

1	608_W [J]
5	PRDisposal Fee
9	

2	624_W
6	
10	

3	624ACR+2CEVE_W
7	
11	

4	625_SCSM_W
8	
12	

Project Manager: Angela Rydelius

Prepared by: Valerie Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (September 2020)

Work Order: 2009104

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 9/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2009104-001A	E-001	Water	E624.1 (VOCs) <1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dibromoethane (EDB), 1,2-Dichlorobenzene, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride>	2	VOA w/ HCl	☐	9/2/2020 10:10	5 days	None	☐	
2009104-001B	E-001	Water	E624.1 (ACRO, ACRY, & 2-CEVE) <2-Chloroethyl Vinyl Ether, Acrolein (Propenal), Acrylonitrile>	2	VOA, Unpres	☐	9/2/2020 10:10	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (September 2020)

Work Order: 2009104

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 9/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2009104-001C	E-001	Water	E625.1 (SVOCs) <1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Nitrophenol, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methylphenol, 4-Chlorophenyl Phenyl Ether, 4-Nitrophenol, Acenaphthene, Acenaphthylene, Anthracene, Benzidine, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Bis (2-chloroethoxy) Methane, Bis (2-chloroethyl) Ether, Bis (2-chloroisopropyl) Ether, Bis (2-ethylhexyl) Phthalate, Butylbenzyl Phthalate, Chrysene, Dibenzo (a,h) anthracene, Diethyl Phthalate, Dimethyl Phthalate, Di-n-butyl Phthalate, Di-n-octyl Phthalate, Fluoranthene, Fluorene,	1	1LA Narrow Mouth, Unpres	☐	9/2/2020 10:10	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Semi-Annual Sampling (September 2020)

Work Order: 2009104

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 9/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno (1,2,3-cd) pyrene, Isophorone, Naphthalene, Nitrobenzene, N-Nitrosodimethylamine, N-Nitrosodi-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene>								
2009104-001D	E-001	Water	E608.3 (OC Pesticides+PCBs w/ Florisil Clean-up) <a-BHC_1, Aldrin_1, Aroclor1016_1, Aroclor1221_1, Aroclor1232_1, Aroclor1242_1, Aroclor1248_1, Aroclor1254_1, Aroclor1260_1, b-BHC_1, Chlordane (Technical)_1, d-BHC_1, Dieldrin_1, Endosulfan I_1, Endosulfan II_1, Endosulfan sulfate_1, Endrin aldehyde_1, Endrin_1, g-BHC_1, Heptachlor epoxide_1, Heptachlor_1, p,p-DDD_1, p,p-DDE_1, p,p-DDT_1, Toxaphene_1>	1	1LA Narrow Mouth, Unpres	☐	9/2/2020 10:10	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

APPENDIX A

District Local Discharge Limits include a parameter called Total Toxic Organics (TTO). The required analytical methods for TTO analysis are listed in 40 CFR Part 136 and include the following EPA methods: 624, 625, 608, and 1613, respectively. Unless specifically required, EPA method 1613 for dioxins is not mandatory for routine TTO analysis. The constituents with concentrations greater than the minimum limit/reporting limit must be added together to determine compliance with the District's Local Discharge Limit for TTO of 2.0 mg/L. The following is a list of the constituents of TTO:

EPA Method 624 Compounds

Acrolein
Acrylonitrile
Benzene
Bromodichloromethane (Dichlorobromomethane)
Bromform
Bromomethane (Methyl Bromide)
Carbon tetrachloride (Tetrachloromethane)
Chlorobenzene
Chloroethane (Ethyl Chloride)
2-Chloroethyl vinyl ether
Chloroform (trichloromethane)
Chloromethane (Methyl Chloride)
Dibromochloromethane (Chlorodibromomethane)
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethene (1, 1-dichloroethylene)
trans-1, 2-Dichloroethene
1, 2-Dichloropropane
cis-1, 3-Dichloropropene
trans-1, 3-Dichloropropene
Ethylbenzene
Methylene Chloride (Dichloromethane)
1, 1, 2, 2-Tetrachloroethane
Tetrachloroethene (PCE)
Toluene
1, 1, 1-Trichloroethane
1, 1, 2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
Vinyl chloride (Chloroethylene)

EPA Method 625 Compounds

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g, h, i) perylene
Benzo (k) fluoranthene
Benzyl butyl phthalate
bis (2-Chloroethoxy) methane
bis (2-Chloroethyl) ether
bis (2-Chloroisopropyl) ether
bis (2-Ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenyl
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine

2, 4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethylphthalate
Di-n-butylphthalate
2, 4-Dinitrophenol
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octylphthalate
1,2-Diphenylhydrazine/Azo
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene
Isophorone
2-Methyl-4, 6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
1, 2, 4-Trichlorobenzene
2, 4, 6-Trichlorophenol

EPA Method 608 Compounds

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Chlordane
4, 4'-DDD
4, 4'-DDE
4, 4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Toxaphene

9/2/2020
9/2/20



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Semi-Annual Sampling (September 2020)**

Date and Time Received: **9/2/2020 12:31**

Date Logged: **9/2/2020**

Received by: **Tina Perez**

Logged by: **Valerie Alfaro**

WorkOrder No: **2009104** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 2.6°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒ No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:

Attachment 8c
Laboratory Results
Q3 2020 Quarterly pH Monitoring of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2009121

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Sanjiv Gill

Project P.O.:

Project: pH Sampling (September 2020)

Project Received: 09/02/2020

Analytical Report reviewed & approved for release on 09/09/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: pH Sampling (September 2020)
WorkOrder: 2009121

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 09/02/2020 12:31
Date Prepared: 09/01/2020
Project: pH Sampling (September 2020)

WorkOrder: 2009121
Extraction Method: SM4500H+B-2000
Analytical Method: SM4500H+B
Unit: pH units @ 20.2°C

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2009121-001A	Water	09/01/2020 09:55	WetChem	204933

Analytes	Result	Accuracy	DF	Date Analyzed
pH	7.63	±0.05	1	09/01/2020 09:56

Analyst(s): PHU



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 09/02/2020
Date Analyzed: 09/02/2020
Instrument: WetChem
Matrix: Water
Project: pH Sampling (September 2020)

WorkOrder: 2009121
BatchID: 204933
Extraction Method: SM4500H+B-2000
Analytical Method: SM4500H+B
Unit: pH units @ 25°C
Sample ID: CCV-204933

QC Summary Report for pH

Analyte	CCV Result	CCV Limits
pH	6.98	6.8-7.2



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Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax

☐ WriteOn

☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2009121

ClientCode: PGEA

☐ Excel

☐ EQulS

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Dry-Weight

Report to:

Sanjiv Gill
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: sanjivgill@comcast.net

cc/3rd Party:

PO:

Project: pH Sampling (September 2020)

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: 09/02/2020

Date Logged: 09/02/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2009121-001	E-001	Water	9/1/2020 09:55	☐	A	A										

Test Legend:

1	PH_W_SANJIV
5	
9	

2	PRDisposal Fee
6	
10	

3	
7	
11	

4	
8	
12	

Project Manager: Angela Rydelius

Prepared by: Valerie Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: pH Sampling (September 2020)

Work Order: 2009121

Client Contact: Sanjiv Gill

QC Level: LEVEL 2

Contact's Email: sanjivgill@comcast.net

Comments:

Date Logged: 9/2/2020

☐ WaterTrax

☐ WriteOn

☐ EDF

☐ Excel

☐ EQUIS

☒ Email

☐ HardCopy

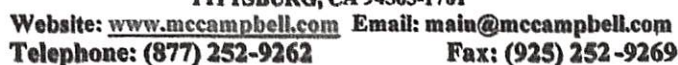
☐ ThirdParty

☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2009121-001A	E-001	Water	SM4500H+B (Field pH)	1	125mL HDPE, unprsv.	☐	9/1/2020 9:55	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐
☐ **Check if sample is effluent and "J" flag is required**

Sampler Signature: Muskan Environmental Sampling

Remarks

Grab Time: 09:55
Analysis Time: 09:56
Temperature: 20.2°C
pH: 7.63

ICE/T* 2.6 wet
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

VOAS O&G METALS OTHER
PRESERVATION pH 2

Logbook for Field pH Samples

[illegible]

pH reading on COC 9/1/2020 PG&E Gateway

9/2/20 @ 12:31



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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Client supplied pH data

Client Name: **PG&E Gateway Generating Station**
Project: **pH Sampling (September 2020)**

WorkOrder No: **2009121**

SampleID	ClientSampleID	pH
2009121-001A	E-001	7.63 [analyzed: 9/2/2020 5:18:41 PM]



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **pH Sampling (September 2020)**

Date and Time Received: **9/2/2020 12:31**

Date Logged: **9/2/2020**

Received by: **Tina Perez**

Logged by: **Valerie Alfaro**

WorkOrder No: **2009121** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☐	NA ☒
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 2.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☒

Comments:



**Pacific Gas and
Electric Company®**

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

January 8, 2021

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending December 31, 2020)

Dear Mr. Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending December 31, 2020, as required under DD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Monthly Flow Data, WSAC Operating Months Report, Cycles of Concentration, and Copy of Laboratory Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s



received 1/11/21
Antioch

**Pacific Gas and
Electric Company®**

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

January 8, 2021

Mr. Jason Yun
Delta Diablo Sanitation District (DD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending December 31, 2020)

Dear Mr. Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending December 31, 2020, as required under DD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Monthly Flow Data, WSAC Operating Months Report, Cycles of Concentration, and Copy of Laboratory Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report
For the reporting period ending in December 31, 2020

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2023.

The report includes the following attachments:

- | | |
|---------------|--------------------------------------|
| Attachment 1: | Certification Statement |
| Attachment 2: | Industrial User Compliance Report |
| Attachment 3: | Industrial Monitoring Report Summary |
| Attachment 4: | Discharge Flow Data |
| Attachment 5: | Monthly Flow Data |
| Attachment 6: | WSAC Operating Hours Report |
| Attachment 7: | Cycles of Concentration |
| Attachment 8: | Laboratory Results |

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station
Address: 3225 Wilbur Avenue, Antioch, CA. 94509
Phone: 925-522-7805
Period Covered: Period ending December 31, 2020

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.

Signature: Tim Wisdom **Date:** Jan. 11, 2021
Print Name: Tim Wisdom

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Jason Yun

Fax # (925)756-1961

From: Tim Wisdom

Company: Pacific Gas and Electric Company – Gateway Generating Station

Period Covered: Period ending December 31, 2020

Pretreatment

Phone: (925)756-1929

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

☒ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)

☐ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2020 SMR)

☒ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)

☒ Certification statement included (See Attachment 1)

Violations (if applicable)

☐ All wastewater discharge exceedance are reported during this reporting period

☐ Delta Diablo was contacted. (See Additional Notes below)

☐ A follow-up report on characterization re-sampling was submitted on

☐ Corrective actions to resolve violation:

☐ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

None

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY (Combined Site Flow: FAC - Control Manhole Local Limits: E-001)

IU NAME : PG&E Gateway Generating Station
 ADDRESS: 3225 Wilbur Avenue
 CITY : Antioch

ID #: 0208841-C
 TYPE: Power Generation Plant

SIC: 4911

DATE	12/1/2020	12/2/2020	12/2/2020					
TYPE	G	G	C24					
STATION	E-001	E-001	E-001					
SMP.BY	Muskan	Muskan	Muskan					
PURPOSE	Compliance Quarterly (Q4)	Compliance Quarterly (Q4)	Compliance Quarterly (Q4)					

Units:

PARAMETERS

LIMITS

FLOW, DAILY (gal)	51,120							
FLOW, MONTH (gal)								
pH	6-10 s.u.	7.55						
BOD			17.0					
COD			11.0					
TDS			445					
TSS			ND(<1.0)					
Arsenic	0.15		0.0007					
Cadmium	0.1		ND(<0.0005)					
Chromium	0.5		ND(<0.0005)					
Copper	0.5		0.0120					
Iron			0.24					
Lead	0.5		ND(<0.0005)					
Mercury	0.003		ND(<0.0002)					
Molybdenum			0.1					
Nickel	0.5		0.0019					
Selenium	0.25		ND(<0.0005)					
Silver	0.2		ND(<0.0005)					
Zinc	1.00		0.060					
Cyanide	0.2	0.0083						
Phenol	1.00	0.029						
Ammonia	200	35						
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.0)	ND(<5.0)					
O&G Animal/Vegetable Oil	300	5.9	ND(<5.0)					
TTO EPA 608								
TTO EPA 624								
TTO EPA 625								
TTO	2.00							
Sulfide								
Sulfate								

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station
Discharge Flow Data
October 2020-December 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
10/1/2020	34.6	0.0	NO	48,984	0.0	0	NO	0	48,984
10/2/2020	34.8	0.0	NO	39,514	18.6	0	NO	359	39,873
10/3/2020	34.9	0.0	NO	28,933	0.1	0	NO		28,933
10/4/2020	34.8	0.0	NO	38,868	19.4	0	NO	373	39,241
10/5/2020	34.8	0.0	NO	36,729	0.0	0	NO		36,729
10/6/2020	34.8	0.0	NO	44,103	19.0	0	NO	361	44,464
10/7/2020	34.8	0.0	NO	44,890	19.0	0	NO	358	45,247
10/8/2020	35.0	0.0	NO	40,399	0.0	2	NO		40,399
10/9/2020	35.0	0.0	NO	39,480	19.2	0	NO	370	39,850
10/10/2020	34.8	0.0	NO	22,578	0.0	0	NO	370	22,949
10/11/2020	34.9	0.0	NO	39,500	0.0	0	NO		39,500
10/12/2020	34.9	0.0	NO	33,508	19.8	0	NO	382	33,890
10/13/2020	34.9	0.0	NO	28,214	19.7	0	NO	372	28,586
10/14/2020	35.0	0.0	NO	21,068	0.0	0	NO		21,068
10/15/2020	34.8	0.0	NO	24,924	20.5	0	NO	376	25,300
10/16/2020	35.0	0.0	NO	22,857	20.2	0	NO	366	23,223
10/17/2020	35.9	0.0	NO	37,843	0.1	0	NO	2	37,845
10/18/2020	39.1	1.0	NO	49,005	0.0	0	NO		49,005
10/19/2020	34.7	0.0	NO	48,604	20.9	0	NO	396	48,999
10/20/2020	34.5	0.0	NO	46,781	19.5	0	NO	370	47,150
10/21/2020	34.8	0.0	NO	26,869	0.0	0	NO		26,869
10/22/2020	34.7	0.0	NO	26,627	19.8	0	NO	368	26,995
10/23/2020	34.8	0.0	NO	36,970	0.0	0	NO		36,970
10/24/2020	34.7	0.0	NO	47,743	19.3	0	NO	373	48,117
10/25/2020	34.7	0.0	NO	42,973	0.0	0	NO		42,973
10/26/2020	34.6	0.0	NO	42,606	20.1	0	NO	371	42,977
10/27/2020	34.8	0.0	NO	36,557	0.0	0	NO		36,557
10/28/2020	35.0	0.0	NO	25,860	19.2	0	NO	379	26,238
10/29/2020	34.9	0.0	NO	38,374	0.0	0	NO		38,374
10/30/2020	35.1	0.0	NO	48,640	17.7	0	NO	367	49,007
10/31/2020	35.2	0.0	NO	49,001	0.1	0	NO		49,001

Daily Maximum: **49,007**

Monthly Total: 1,165,312

11/1/2020	34.8	1.0	NO	48,951	0.0	1	NO		48,951
11/2/2020	34.8	0.0	NO	36,531	18.7	0	NO	356	36,887
11/3/2020	34.9	0.0	NO	38,636	0.0	0	NO		38,636
11/4/2020	35.1	0.0	NO	47,682	17.8	0	NO	360	48,043
11/5/2020	36.0	0.0	NO	41,221	19.7	0	NO	369	41,590
11/6/2020	35.0	0.0	NO	29,589	0.0	0	NO		29,589
11/7/2020	34.9	0.0	NO	17,166	0.0	0	NO		17,166
11/8/2020	35.1	0.0	NO	28,013	0.0	2	NO		28,013
11/9/2020	34.7	0.0	NO	44,128	19.5	0	NO	357	44,485
11/10/2020	35.0	0.0	NO	20,473	0.0	0	NO	357	20,830
11/11/2020	34.9	0.0	NO	37,405	20.2	0	NO	370	37,776
11/12/2020	35.3	0.0	NO	47,859	0.0	0	NO		47,859
11/13/2020	34.9	0.0	NO	39,606	19.9	0	NO	341	39,947
11/14/2020	35.1	0.0	NO	25,977	0.0	0	NO		25,977
11/15/2020	34.9	0.0	NO	17,814	0.0	0	NO		17,814
11/16/2020	34.8	0.0	NO	28,634	18.0	0	NO	341	28,975
11/17/2020	34.7	0.0	NO	45,158	0.0	0	NO		45,158
11/18/2020	34.5	0.0	NO	44,127	19.7	0	NO	366	44,493
11/19/2020	34.9	0.0	NO	27,864	0.0	0	NO		27,864
11/20/2020	35.2	0.0	NO	20,403	20.0	0	NO	359	20,762
11/21/2020	34.9	0.0	NO	38,685	0.0	0	NO		38,685
11/22/2020	36.1	0.0	NO	18,781	0.0	0	NO		18,781
11/23/2020	35.1	0.0	NO	36,483	19.4	0	NO	348	36,830
11/24/2020	35.0	0.0	NO	15,514	0.0	0	NO		15,514
11/25/2020	35.1	0.0	NO	36,923	19.7	0	NO	353	37,276
11/26/2020	34.9	0.0	NO	43,578	0.0	0	NO		43,578
11/27/2020	35.3	0.0	NO	37,314	0.0	0	NO		37,314

PG&E Gateway Generating Station
Discharge Flow Data
October 2020-December 2020

Date	Industrial Flow				Sanitary Flow				Site Total (Gallons)
	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	
11/28/2020	34.6	0.0	NO	41,640	0.0	0	NO		41,640
11/29/2020	34.6	0.0	NO	35,088	0.0	0	NO		35,088
11/30/2020	34.7	0.0	NO	48,370	20.0	0	NO	204	48,574

Daily Maximum: **48,951**

Monthly Total: 1,044,092

12/1/2020	34.6	0.0	NO	48,419	19.8	0	NO	556	48,974
12/2/2020	34.6	0.0	NO	48,988	2.7	0	NO	2	48,990
12/3/2020	35.1	0.0	NO	25,593	20.0	0	NO	375	25,968
12/4/2020	34.8	0.0	NO	48,681	0.0	0	NO		48,681
12/5/2020	35.0	0.0	NO	31,299	0.0	0	NO		31,299
12/6/2020	34.8	0.0	NO	39,034	20.1	0	NO	367	39,401
12/7/2020	35.0	0.0	NO	28,190	0.0	0	NO		28,190
12/8/2020	34.5	0.0	NO	43,594	19.5	2	NO	365	43,959
12/9/2020	35.0	0.0	NO	40,217	0.1	0	NO		40,217
12/10/2020	36.1	0.0	NO	48,630	18.6	0	NO		48,630
12/11/2020	35.1	0.0	NO	49,001	0.0	0	NO		49,001
12/12/2020	34.7	0.0	NO	15,363	0.0	0	NO		15,363
12/13/2020	34.4	0.0	NO	17,312	19.4	0	NO	362	17,674
12/14/2020	34.8	0.0	NO	45,250	0.0	0	NO		45,250
12/15/2020	35.3	0.0	NO	44,663	19.7	0	NO	367	45,030
12/16/2020	34.9	0.0	NO	48,993	0.0	0	NO		48,993
12/17/2020	34.5	0.0	NO	46,264	20.0	0	NO	367	46,631
12/18/2020	34.7	0.0	NO	41,124	0.0	0	NO		41,124
12/19/2020	34.5	0.0	NO	29,412	0.0	0	NO		29,412
12/20/2020	43.6	1.0	NO	27,394	19.7	0	NO	367	27,762
12/21/2020	34.4	0.0	NO	27,353	0.0	0	NO		27,353
12/22/2020	34.5	0.0	NO	33,483	20.4	0	NO	368	33,851
12/23/2020	34.9	0.0	NO	18,840	0.0	0	NO		18,840
12/24/2020	34.3	0.0	NO	10,758	0.0	0	NO		10,758
12/25/2020	34.9	0.0	NO	25,112	0.0	0	NO		25,112
12/26/2020	34.5	0.0	NO	29,499	20.5	0	NO	371	29,871
12/27/2020	35.1	0.0	NO	14,303	0.0	0	NO		14,303
12/28/2020	35.0	0.0	NO	14,584	0.0	0	NO		14,584
12/29/2020	35.1	0.0	NO	27,717	20.2	0	NO	371	28,088
12/30/2020	34.7	0.0	NO	42,691	0.0	0	NO		42,691
12/31/2020	34.6	0.0	NO	39,453	0.0	0	NO		39,453

Daily Maximum: **49,001**

Monthly Total: 1,055,450

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**

Address: 3225 Wilbur Avenue, Antioch, CA 94509

City: Antioch

Contact Name: Tim Wisdom

Flow Meter: Sewer Final Effluent _____ City Water Meter _____

(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2020**

Month	Flow (gallons)	Due Date
January		
February		
March		
April		
May		
June		
July		
August		
September		
October	1,165,312	1/15/2021
November	1,044,092	1/15/2021
December	1,055,450	1/15/2021

Note:

1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.

2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report
October 2020 to December 2020

WSAC Operation	
Month	Hours of Operation
January-20	
February-20	
March-20	
April-20	
May-20	
June-20	
July-20	
August-20	
September-20	
October-20	218.00
November-20	33.58
December-20	0.00

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report
October 2020 to December 2020

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-20	
February-20	
March-20	
April-20	
May-20	
June-20	
July-20	
August-20	
September-20	
October-20	2.48
November-20	2.08
December-20	WSAC Not in Operation

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results

Attachment 8a
Laboratory Results
Q4 2020 Quarterly Monitoring of Combined Site
Stream (E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2012111

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu

Project P.O.:

Project: Quarterly Sampling (December 2020) Combined site Flow

Project Received: 12/02/2020

Analytical Report reviewed & approved for release on 12/09/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (December 2020) Combined site Flow
WorkOrder: 2012111

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/07/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-001B	Water	12/01/2020 09:12	O&G	210789

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	12/08/2020 15:00

Analyst(s): PHU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-002B	Water	12/02/2020 10:02	O&G	210789

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	12/08/2020 15:05

Analyst(s): PHU



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/03/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E1664A
Analytical Method: E1664A
Unit: mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-001A	Water	12/01/2020 09:12	O&G	210565

Analytes	Result	RL	DF	Date Analyzed
HEM	5.9	5.0	1	12/04/2020 15:35

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-002A	Water	12/02/2020 10:02	O&G	210565

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.2	1	12/04/2020 15:40

Analyst(s): HN



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/05/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E350.1
Analytical Method: E350.1
Unit: mg/L

Ammonia As Nitrogen

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-002C	Water	12/02/2020 10:02	WC_SKALAR 120520A1_64	210652

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	35	1.0	10	12/05/2020 13:17

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station

Date Received: 12/02/2020 11:47

Date Prepared: 12/03/2020

Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111

Extraction Method: SM5210B

Analytical Method: SM5210 B-2001

Unit: mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003A	Water	12/02/2020 09:55	WetChem	210516

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
BOD	17	8.0	2	12/08/2020 19:21

Analyst(s): HAD



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/09/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: Kelada-01
Analytical Method: Kelada-01
Unit: µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-002D	Water	12/02/2020 10:02	WC_SKALAR 120920C1_10	210943

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Cyanide	8.3	1.0	1	12/09/2020 14:04

Analyst(s): NM



Analytical Report

Client: PG&E Gateway Generating Station

Date Received: 12/02/2020 11:47

Date Prepared: 12/08/2020

Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111

Extraction Method: SM5220 D-1997

Analytical Method: SM5220 D-1997

Unit: mg/L

Chemical Oxygen Demand (COD) as mg O₂ /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003D	Water	12/02/2020 09:55	SPECTROPHOTOMETER	210780

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
COD	11	10	1	12/08/2020 12:53

Analyst(s): PHU



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/03/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E245.2
Analytical Method: E245.2
Unit: µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003E	Water	12/02/2020 09:55	AA1 _21	210447

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Mercury	ND	0.20	1	12/03/2020 14:43

Analyst(s): MIG



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/03/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003F	Water	12/02/2020 09:55	ICP-MS4 233SMPL.d	210466

Analytes	Result	RL	DF	Date Analyzed
Arsenic	0.70	0.50	1	12/03/2020 18:09
Cadmium	ND	0.50	1	12/03/2020 18:09
Chromium	ND	0.50	1	12/03/2020 18:09
Copper	12	0.50	1	12/03/2020 18:09
Iron	240	100	1	12/03/2020 18:09
Lead	ND	0.50	1	12/03/2020 18:09
Molybdenum	100	0.50	1	12/03/2020 18:09
Nickel	1.9	1.0	1	12/03/2020 18:09
Selenium	ND	0.50	1	12/03/2020 18:09
Silver	ND	0.50	1	12/03/2020 18:09
Zinc	60	20	1	12/03/2020 18:09

Surrogates	REC (%)	Limits	
Terbium	105	70-130	12/03/2020 18:09

Analyst(s): DB



Analytical Report

Client: PG&E Gateway Generating Station
Date Received: 12/02/2020 11:47
Date Prepared: 12/03/2020
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012111-002C	Water	12/02/2020 10:02	WC_SKALAR 120320a1_29	210455

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Phenolics	29	2.0	1	12/03/2020 08:56

Analyst(s): RB



Analytical Report

Client: PG&E Gateway Generating Station

WorkOrder: 2012111

Date Received: 12/02/2020 11:47

Extraction Method: SM2540 C-1997

Date Prepared: 12/03/2020

Analytical Method: SM2540 C-1997

Project: Quarterly Sampling (December 2020) Combined site Flow

Unit: mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003C	Water	12/02/2020 09:55	WetChem	210523

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Total Dissolved Solids	445	10.0	1	12/04/2020 16:15

Analyst(s): NYG



Analytical Report

Client: PG&E Gateway Generating Station

Date Received: 12/02/2020 11:47

Date Prepared: 12/03/2020

Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111

Extraction Method: SM2540 D-1997

Analytical Method: SM2540 D-1997

Unit: mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EFF-001	2012111-003B	Water	12/02/2020 09:55	WetChem	210472

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	ND	1.00	1	12/03/2020 20:35

Analyst(s): PHU



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 12/08/2020
Date Analyzed: 12/08/2020
Instrument: O&G
Matrix: Water
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
BatchID: 210789
Extraction Method: E1664A_SG
Analytical Method: E1664A
Unit: mg/L
Sample ID: MB/LCS/LCSD-210789

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.720	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	10.8	9.14	10.42	103	88	64-132	16.2	30



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/04/2020	BatchID:	210565
Date Analyzed:	12/04/2020	Extraction Method:	E1664A
Instrument:	O&G	Analytical Method:	E1664A
Matrix:	Water	Unit:	mg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210565

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.30	5.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	17.0	18.5	20.83	82	89	78-114	8.38	30



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/05/2020	BatchID:	210652
Date Analyzed:	12/05/2020	Extraction Method:	E350.1
Instrument:	WC_SKALAR	Analytical Method:	E350.1
Matrix:	Water	Unit:	mg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210652

QC Summary Report for E350.1

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.0920	0.100	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.04	4.06	4	101	101	88-113	0.576	20



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/03/2020	BatchID:	210516
Date Analyzed:	12/08/2020	Extraction Method:	SM5210B
Instrument:	WetChem	Analytical Method:	SM5210 B-2001
Matrix:	Water	Unit:	mg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210516

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.00	4.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	172	178	198	87	90	80-120	4.00	16



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 12/09/2020
Date Analyzed: 12/09/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
BatchID: 210943
Extraction Method: Kelada-01
Analytical Method: Kelada-01
Unit: µg/L
Sample ID: MB/LCS/LCSD-210943

QC Summary Report for Kelada-01

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.770	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	38.7	40.2	40	97	100	90-110	3.64	20



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/08/2020	BatchID:	210780
Date Analyzed:	12/08/2020	Extraction Method:	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	Analytical Method:	SM5220 D-1997
Matrix:	Water	Unit:	mg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210780

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.20	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	92.0	92.0	100	92	92	90-110	0	20



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/03/2020	BatchID:	210447
Date Analyzed:	12/03/2020	Extraction Method:	E245.2
Instrument:	AA1	Analytical Method:	E245.2
Matrix:	Water	Unit:	µg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210447

QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.130	0.200	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	2.16	1.99	2	108	100	85-115	8.33	20



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/03/2020	BatchID:	210466
Date Analyzed:	12/03/2020	Extraction Method:	E200.8
Instrument:	ICP-MS4	Analytical Method:	E200.8
Matrix:	Water	Unit:	µg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210466

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.120	0.500	-	-	-
Cadmium	ND	0.0600	0.500	-	-	-
Chromium	ND	0.360	0.500	-	-	-
Copper	ND	0.430	0.500	-	-	-
Iron	ND	58.0	100	-	-	-
Lead	ND	0.320	0.500	-	-	-
Molybdenum	ND	0.210	0.500	-	-	-
Nickel	ND	0.580	1.00	-	-	-
Selenium	ND	0.180	0.500	-	-	-
Silver	ND	0.0420	0.500	-	-	-
Zinc	ND	11.0	20.0	-	-	-
Surrogate Recovery						
Terbium	527			500	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	53.5	53.4	50	107	107	85-115	0.236	20
Cadmium	52.2	52.7	50	104	105	85-115	1.04	20
Chromium	52.0	53.0	50	104	106	85-115	1.90	20
Copper	52.0	52.2	50	104	104	85-115	0.472	20
Iron	5100	5180	5000	102	104	85-115	1.60	20
Lead	47.3	50.4	50	95	101	85-115	6.38	20
Molybdenum	47.8	51.2	50	96	102	85-115	6.95	20
Nickel	52.7	53.2	50	105	106	85-115	0.896	20
Selenium	54.5	54.8	50	109	110	85-115	0.602	20
Silver	46.0	48.1	50	92	96	85-115	4.45	20
Zinc	538	543	500	108	109	85-115	1.01	20
Surrogate Recovery								
Terbium	518	536	500	104	107	70-130	3.47	20



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 12/03/2020
Date Analyzed: 12/03/2020
Instrument: WC_SKALAR
Matrix: Water
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
BatchID: 210455
Extraction Method: E420.4
Analytical Method: E420.4
Unit: µg/L
Sample ID: MB/LCS/LCSD-210455

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	1.60	2.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	38.3	38.4	40	96	96	80-120	0.170	20



Quality Control Report

Client:	PG&E Gateway Generating Station	WorkOrder:	2012111
Date Prepared:	12/03/2020	BatchID:	210523
Date Analyzed:	12/04/2020	Extraction Method:	SM2540 C-1997
Instrument:	WetChem	Analytical Method:	SM2540 C-1997
Matrix:	Water	Unit:	mg/L
Project:	Quarterly Sampling (December 2020) Combined site Flow	Sample ID:	MB/LCS/LCSD-210523

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Dissolved Solids	995	1020	1000	100	102	80-120	2.78	10



Quality Control Report

Client: PG&E Gateway Generating Station
Date Prepared: 12/03/2020
Date Analyzed: 12/03/2020
Instrument: WetChem
Matrix: Water
Project: Quarterly Sampling (December 2020) Combined site Flow

WorkOrder: 2012111
BatchID: 210472
Extraction Method: SM2540 D-1997
Analytical Method: SM2540 D-1997
Unit: mg/L
Sample ID: MB/LCS/LCSD-210472

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Suspended Solids	106	101	100	106	101	80-120	5.30	10



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2012111

ClientCode: PGEA

☐ WaterTrax

☐ WriteOn

☐ EDF

☐ EQuIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

Report to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party:
PO:
Project: Quarterly Sampling (December 2020)
Combined site Flow

Bill to:

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 5 days;
7 days;

Date Received: 12/02/2020

Date Logged: 12/02/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2012111-001	E-001	Water	12/1/2020 09:12	☐	B	A								A		
2012111-002	E-001	Water	12/2/2020 10:02	☐	B	A	C		D				C	A		
2012111-003	EFF-001	Water	12/2/2020 09:55	☐				A		D	E	F		A	C	B

Test Legend:

1	1664A_SG_W
5	CN_W
9	PHENOLICS_W

2	1664A_W
6	COD_W
10	PRDisposal Fee

3	AMMONIA_W
7	HG_W
11	TDS_W

4	BOD_W
8	METALSMS_TTLC_W
12	TSS_W

Project Manager: Angela Rydelius

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION

Project: Quarterly Sampling (December 2020) Combined site Flow

Work Order: 2012111

Client Contact: Angel Espiritu

QC Level: LEVEL 2

Contact's Email: abe4@pge.com

Comments:

Date Logged: 12/2/2020

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2012111-001A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	2	1LA w/ HCl	☐	12/1/2020 9:12	5 days	None	☐	
2012111-001B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	2	1LA w/ HCl	☐	12/1/2020 9:12	5 days	None	☐	
2012111-002A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	2	1LA w/ HCl	☐	12/2/2020 10:02	5 days	None	☐	
2012111-002B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	2	1LA w/ HCl	☐	12/2/2020 10:02	5 days	None	☐	
2012111-002C	E-001	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	12/2/2020 10:02	5 days	None	☐	
			E350.1 (Ammonia)			☐		5 days	None	☐	
2012111-002D	E-001	Water	Kelada-01 (Cyanide, Total)	1	250mL aHDPE w/ NaOH	☐	12/2/2020 10:02	5 days	None	☐	
2012111-003A	EFF-001	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	12/2/2020 9:55	7 days	None	☐	
2012111-003B	EFF-001	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	12/2/2020 9:55	5 days	None	☐	
2012111-003C	EFF-001	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	12/2/2020 9:55	5 days	None	☐	
2012111-003D	EFF-001	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	12/2/2020 9:55	5 days	None	☐	
2012111-003E	EFF-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	12/2/2020 9:55	5 days	None	☐	
2012111-003F	EFF-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	12/2/2020 9:55	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu

Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ()

Project Name: Quarterly Sampling (December 2020)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

Analysis Request

Remarks

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite / Grab	SAMPLING		# Containers	Type Containers	Matrix		METHOD PRESERVED							Cyanide (sodium preservative) ABCE	Metals (by 200.8 Selenium)	Oil/Grease and with	Total Phos	Ammonia	Mercury	Metals (200.8 copper, lead, Molybdenum)	BOD (SM)	COD (SM)	TDS (SM)	TSS (SM)
			Date	Time			Waste Water	Sewer Water	None	ICE	H ₂ SO ₄	NaOH	HCL	HNO ₃	Other											
E-001		G	12/1/2020	09:12	2	1L Amb	X			X			X				X									
E-001		G	12/2/2020	10:02	2	1L Amb	X			X			X				X									
E-001		G	12/2/2020	10:02	1	500ml Amb	X			X	X							X	X							
E-001		G	12/2/2020	10:02	1	250-ml Poly	X			X		X			X											
E-001		C	12/2/2020	09:55	1	1L Poly	X		X	X												X				
E-001		C	12/2/2020	09:55	2	43-ml VOA	X			X	X												X			
E-001		C	12/2/2020	09:55	1	500-ml poly	X		X	X														X		
E-001		C	12/2/2020	09:55	1	1L poly	X		X	X															X	
E-001		C	12/2/2020	09:55	1	250-ml Poly	X			X				X					X							
E-001		C	12/2/2020	09:55	1	250-ml poly	X			X				X			X									

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/T 3.2°C net
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION



Sample Receipt Checklist

Client Name: **PG&E Gateway Generating Station**
Project: **Quarterly Sampling (December 2020) Combined site Flow**
WorkOrder No: **2012111** Matrix: Water
Carrier: Client Drop-In

Date and Time Received: **12/2/2020 11:47**
Date Logged: **12/2/2020**
Received by: Tina Perez
Logged by: Nancy Palacios

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 3.2°C	NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☒ No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☒ No ☐	NA ☐

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐ No ☐	NA ☒

Comments:

Attachment 8b
Laboratory Results
Q4 2020 Quarterly pH Monitoring of Combined Site Stream
(E-001)



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2012112

Report Created for: Muskan Environmental Services

1828 Nelda Ct.
Yuba City, CA 95993

Project Contact: Sanjiv Gil

Project P.O.:

Project: Ph Sampling (December 2020)

Project Received: 12/02/2020

Analytical Report reviewed & approved for release on 12/08/2020 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: Muskan Environmental Services

Project: Ph Sampling (December 2020)

WorkOrder: 2012112

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: Muskan Environmental Services
Date Received: 12/02/2020 11:47
Date Prepared: 12/01/2020
Project: Ph Sampling (December 2020)

WorkOrder: 2012112
Extraction Method: SM4500H+B-2000
Analytical Method: SM4500H+B
Unit: pH units

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	2012112-001A	Water	12/01/2020 09:15	WetChem	210599

<u>Analytes</u>	<u>Result</u>	<u>Accuracy</u>	<u>DE</u>	<u>Date Analyzed</u>
pH	7.55	±0.05	1	12/01/2020 09:16

Analyst(s): HAD

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ WriteOn ☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2012112

ClientCode: MES

☐ EQulS ☐ Dry-Weight ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:

Sanjiv Gil
Muskan Environmental Services
1828 Nelda Ct.
Yuba City, CA 95993
(408) 666-4494 FAX: (530) 660-1814

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: Ph Sampling (December 2020)

Bill to:

Sanjiv Gil
Muskan Environmental Services
1828 Nelda Ct.
Yuba City, CA 95993

Requested TAT: 5 days;

Date Received: 12/02/2020

Date Logged: 12/02/2020

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2012112-001	E-001	Water	12/1/2020 09:15	☐	A	A										

Test Legend:

1	PH_W_SANJIV	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

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WORK ORDER SUMMARY

Client Name: MUSKAN ENVIRONMENTAL SERVICES

Project: Ph Sampling (December 2020)

Work Order: 2012112

Client Contact: Sanjiv Gil

QC Level:

Contact's Email: sanjivgill@comcast.net

Comments:

Date Logged: 12/2/2020

☐ WaterTrax

☐ WriteOn

☐ EDF

☐ Excel

☐ EQUIS

☒ Email

☐ HardCopy

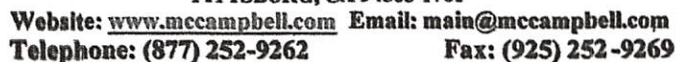
☐ ThirdParty

☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	DryWeight	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
2012112-001A	E-001	Water	SM4500H+B (Field pH)	1	N/A	☐	12/1/2020 9:15	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐
☐ **Check if sample is effluent and "J" flag is required**

Sampler Signature: Maskana Environmental Sampling

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	



Sample Receipt Checklist

Client Name: **Muskan Environmental Services**
Project: **Ph Sampling (December 2020)**

Date and Time Received: **12/2/2020 11:47**

Date Logged: **12/2/2020**

Received by: **Tina Perez**

Logged by: **Nancy Palacios**

WorkOrder No: **2012112** Matrix: Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☐	No ☒	NA ☐
Samples Received on Ice?	Yes ☐	No ☒	

Sample/Temp Blank temperature	Temp:		NA ☒
Water - VOA vials have zero headspace / no bubbles?	Yes ☒	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☒

Comments:

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 12

Exhibit 4b
Notice of Violation/Corrective Action
(Condition of Certification SOIL&WATER-4)

There was no NOV issued to PG&E GGS during RY 2020.