

February 5, 2019

Paradise Irrigation District
 6332 Clark Road
 Paradise, CA 95969

Lab ID : CH 1970834
 Customer : 7-5855

Laboratory Report

Introduction: This report package contains total of 12 pages divided into 3 sections:

Case Narrative	(2 pages) : An overview of the work performed at FGL.
Sample Results	(9 pages) : Results for each sample submitted.
Quality Control	(1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Travel Blank	01/29/2019	01/29/2019	CH 1970834-000	DW
1653 Gate Ln	01/29/2019	01/29/2019	CH 1970834-001	DW
1639 Gate Ln	01/29/2019	01/29/2019	CH 1970834-002	DW
1593 Gate Ln	01/29/2019	01/29/2019	CH 1970834-003	DW
1755 Arany	01/29/2019	01/29/2019	CH 1970834-004	DW
1718 Arany	01/29/2019	01/29/2019	CH 1970834-005	DW
Hyd Apple View	01/29/2019	01/29/2019	CH 1970834-006	DW
1825 Apple View	01/29/2019	01/29/2019	CH 1970834-007	DW
1820 Chris	01/29/2019	01/29/2019	CH 1970834-008	DW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

524.2	02/02/2019:201671 All analysis quality controls are within established criteria.
	02/01/2019:201695 All analysis quality controls are within established criteria.
	02/01/2019:201260 All preparation quality controls are within established criteria, except: The following note applies to Benzene: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Paradise Irrigation District

Lab ID : CH 1970834
Customer : 7-5855

Organic QC

524.2	02/01/2019:201287 All preparation quality controls are within established criteria.
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Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2019-02-05

February 5, 2019

Lab ID : CH 1970834-000
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 29, 2019-00:00
Sampled By : Laura Capra
Received On : January 29, 2019-14:26
Matrix : Drinking Water

Description : Travel Blank
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	102	70-130	%	1	524.2	02/01/19:201260	524.2	02/02/19:201671
1,2-Dichlorobenzene-d4 [‡]	94.1	70-130	%		524.2	02/01/19:201260	524.2	02/02/19:201671
Benzene	ND	0.5	ug/L		524.2	02/01/19:201260	524.2	02/02/19:201671

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-001

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 29, 2019-11:15

Sampled By : Laura Capra

Received On : January 29, 2019-14:26

Matrix : Drinking Water

Description : 1653 Gate Ln

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	81.0	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	86.1	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-002

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 29, 2019-11:25

Sampled By : Laura Capra

Received On : January 29, 2019-14:26

Matrix : Drinking Water

Description : 1639 Gate Ln

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	85.1	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	90.9	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-003

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 29, 2019-11:30

Sampled By : Laura Capra

Received On : January 29, 2019-14:26

Matrix : Drinking Water

Description : 1593 Gate Ln

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	82.6	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	93.1	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-004
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 29, 2019-11:40
Sampled By : Laura Capra
Received On : January 29, 2019-14:26
Matrix : Drinking Water

Description : 1755 Arany
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	80.5	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	88.0	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	3.6	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-005

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 29, 2019-11:56

Sampled By : Laura Capra

Received On : January 29, 2019-14:26

Matrix : Drinking Water

Description : 1718 Arany

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	102	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	97.0	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	16.8	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-006
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 29, 2019-13:15
Sampled By : Laura Capra
Received On : January 29, 2019-14:26
Matrix : Drinking Water

Description : Hyd Apple View
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	87.3	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	89.4	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970834-007
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 29, 2019-13:20
Sampled By : Laura Capra
Received On : January 29, 2019-14:26
Matrix : Drinking Water

Description : 1825 Apple View
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	83.1	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	86.0	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

February 5, 2019

Lab ID : CH 1970834-008

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 29, 2019-13:40

Sampled By : Laura Capra

Received On : January 29, 2019-14:26

Matrix : Drinking Water

Description : 1820 Chris

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	86.5	70-130	%	1	524.2	02/01/19:201287	524.2	02/01/19:201695
1,2-Dichlorobenzene-d4 [‡]	92.7	70-130	%		524.2	02/01/19:201287	524.2	02/01/19:201695
Benzene	ND	0.5	ug/L		524.2	02/01/19:201287	524.2	02/01/19:201695

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Paradise Irrigation District

Lab ID : CH 1970834
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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,2-Dichlorobenzene-d4	524.2	02/01/19:201260VRG (CC 1980308-001)	Blank	ug/L	10.00	96.9 %	70-130	
			MS	ug/L	10.00	97.1 %	70-130	
			MSD	ug/L	10.00	97.9 %	70-130	
			MSRPD	ug/L	10.00	0.9%	≤20	
	524.2	02/01/19:201287VRG (SP 1900475-007)	Blank	ug/L	10.00	90.1 %	70-130	
			MS	ug/L	10.00	102 %	70-130	
			MSD	ug/L	10.00	103 %	70-130	
			MSRPD	ug/L	10.00	0.8%	≤20	
4-Bromofluorobenzene	524.2	02/01/19:201260VRG (CC 1980308-001)	Blank	ug/L	10.00	103 %	70-130	
			MS	ug/L	10.00	102 %	70-130	
			MSD	ug/L	10.00	102 %	70-130	
			MSRPD	ug/L	10.00	0.3%	≤30	
	524.2	02/01/19:201287VRG (SP 1900475-007)	Blank	ug/L	10.00	89.5 %	70-130	
			MS	ug/L	10.00	110 %	70-130	
			MSD	ug/L	10.00	108 %	70-130	
			MSRPD	ug/L	10.00	1.9%	≤30	
4-Bromofluorobenzene (BFB)	524.2	02/01/19:201695SBL	CCV	ug/L	10.00	111 %	70-130	
	524.2	02/02/19:201671VRG	CCV	ug/L	10.00	96.7 %	70-130	
Benzene	524.2	02/01/19:201260VRG (CC 1980308-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	41.4 %	12-158	
			MSD	ug/L	10.00	28.7 %	12-158	
			MSRPD	ug/L	10.00	36.3%	≤36	435
	524.2	02/01/19:201287VRG (SP 1900475-007)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	70.5 %	12-158	
			MSD	ug/L	10.00	93.6 %	12-158	
			MSRPD	ug/L	10.00	28.1%	≤36	
	524.2	02/01/19:201695SBL	CCV	ug/L	10.00	101 %	70-130	
	524.2	02/02/19:201671VRG	CCV	ug/L	10.00	94.2 %	70-130	
Definition CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. ND : Non-detect - Result was below the DQO listed for the analyte. DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								