

FINAL REPORT

Work Orders: 5G25080 **Report Date:** 8/01/2025

Received Date: 7/25/2025

Project: Workorder#4300 Turnaround Time: 3 workdays

Phones: (714) 955-0657

Fax: (714) 955-0637

P.O. #: MA-080-17010712

Billing Code:

Attn: Kathleen Kelly

Client: Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865

DoD-ELAP ANAB #ADE-2882 ◆ DoD-ISO ANAB # ◆ ELAP-CA #1132 ◆ EPA-UCMR #CA00211 ◆ ISO17025 ANAB #L2457.01 ◆ LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Results are related only to the items tested. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

Dear Kathleen Kelly,

Enclosed are the analytical results for the samples submitted under the attached Chain of Custody document. All analyses adhered to the method criteria, except where noted in the case narrative, sample condition checklist, and/or data qualifiers.

Reviewed by:

Valerie I. Ayo Project Manager











FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865

Project Number: Workorder#4300

Reported: 08/01/2025 11:43

Project Manager: Kathleen Kelly



Sample Condition

Temperature	2.20 (
COC present	~	COC completed properly	~
COC matches sample labels	~	Wet ice	~
Blue ice		Sample(s) intact	~
Sample(s) using proper containers	~	Sample(s) have sufficient sample volume	~
Sample(s) received within hold time	~	Sample(s) labels have correct preservation	~
Sample(s) have acceptable pH	~	Sample(s) have acceptable Cl	



Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
4300001	OCPW	5G25080-01	Water	07/25/25 11:11	
4300002	OCPW	5G25080-02	Water	07/25/25 11:35	
4300003	OCPW	5G25080-03	Water	07/25/25 12:12	



FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865 Project Number: Workorder#4300

Reported:

08/01/2025 11:43



Sample Results

Sample: 4300001 Sampled: 07/25/25 11:11 by OCPW

Project Manager: Kathleen Kelly

Sample: 4300001			Sar	npled: 0	17/25/25 11:	11 by OCPW
5005000 04 444						
5G25080-01 (Wa	·					a 1161
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
	cal Parameters by APHA/EPA/ASTM Methods					
Method: SM 4500S2-D	B NONE (AVETCHEAD)	Instr: _ANA		0.7		
Batch ID: W5G2155	Preparation: _NONE (WETCHEM)	Prepared: (0.10	07/31/25 10 mg/l	:07	07/31/25	Analyst: mes
·		0.10	IIIg/I	'	07/31/23	
Glyphosate & AMPA by EPA 54	47M LCMS					
Method: EPA 547M		Instr: LCMS	506			
Batch ID: W5G1939	Preparation: _NONE (LC)	Prepared: (Analyst: JNA
Glyphosate	1.2	1.0	ug/l	1	07/29/25	
Metals by EPA 200 Series Meth	nods					
Method: EPA 200.8		Instr: ICPM	S06			
Batch ID: W5G1849	Preparation: EPA 200.2	Prepared: (07/28/25 12	:37		Analyst: JWC
Arsenic, Total	1.6	0.40	ug/l	1	07/30/25	
Cadmium, Total	1.8	0.20	ug/l	1	07/30/25	
Chromium, Total	0.57	0.20	ug/l	1	07/30/25	
Copper, Total	3.6	0.50	ug/l	1	07/30/25	
Iron, Total	250	20	ug/l	1	07/30/25	
Lead, Total	0.25	0.20	ug/l	1	07/30/25	
Nickel, Total		2.0	ug/l	1	07/30/25	
Selenium, Total	4.0	0.40	ug/l	1	07/30/25	
Silver, Total	ND	0.20	ug/l	1	07/30/25	
Thallium, Total	ND	0.20	ug/l	1	07/30/25	
Zinc, Total	14	10	ug/l	1	07/30/25	
Method: EPA 245.1		Instr: HG03	;			

Wiceliou. Eli/(E-15.1		111361.11003					
Batch ID: W5G1954	Preparation: EPA 245.1		Prepared: 07/29/25 10:47				
Mercury Total	ND	0.050	ua/l	1	07/30/25		



FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865 Project Number: Workorder#4300

Project Manager: Kathleen Kelly

Reported:

Qualifier

Analyst: mes

Analyst: JNA

08/01/2025 11:43

Sample:

Sample Results

5G25080-02 (Water)

(Continued)

Sampled: 07/25/25 11:35 by OCPW

Analyzed

07/30/25

07/30/25

Sample:	4300002	

Analyte	Result
Conventional Chemistry/Physical Parameters	by ADHA/EDA/ASTM Mothode

Method: SM 4500S2-D

Batch ID: W5G2155 **Preparation:** _NONE (WETCHEM) Sulfide, Total

Instr: _ANALYST

MRL

0.20

10

Instr: HG03

ug/l

ug/l

Prepared: 07/31/25 10:07

Units

0.10 07/31/25 mg/l

Glyphosate & AMPA by EPA 547M LCMS

Method: EPA 547M Instr: LCMS06

Batch ID: W5G1939 Preparation: NONE (LC) Prepared: 07/29/25 10:03

Glyphosate 07/29/25 ug/l

Metals by EPA 200 Series Methods

Thallium, Total

Method: EPA 245.1

Zinc, Total

Method: EPA 200.8		Instr: ICPMS	506		
Batch ID: W5G1849	Preparation: EPA 200.2	Prepared: 0	7/28/25 12:	37	Analyst: JWC
Arsenic, Total	1.9	0.40	ug/l	1	07/30/25
Cadmium, Total	ND	0.20	ug/l	1	07/30/25
Chromium, Total	ND	0.20	ug/l	1	07/30/25
Copper, Total	1.9	0.50	ug/l	1	07/30/25
Iron, Total	66	20	ug/l	1	07/30/25
Lead, Total	ND	0.20	ug/l	1	07/30/25
Nickel, Total	9.5	2.0	ug/l	1	07/30/25
Selenium, Total	1.0	0.40	ug/l	1	07/30/25
Silver, Total	ND	0.20	ug/l	1	07/30/25

Batch ID: W5G1954	Preparation: EPA 245.1	Prepared: 0	7/29/25 10:4	47		Analyst: kjo
Mercury, Total	ND	0.050	ug/l	1	07/30/25	

ND



FINAL REPORT

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2301 N. Glassel St. Orange, CA 92865

Project Number: Workorder#4300

Reported:

08/01/2025 11:43

Sample Results

Batch ID: W5G1954

Mercury, Total

Project Manager: Kathleen Kelly

(Continued)

Analyst: kjo

07/30/25

Sample: 4300003

Sampled: 07/25/25 12:12 by OCPW

5G25080-03 (Wat	ter)					
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifie
Conventional Chemistry/Physic	cal Parameters by APHA/EPA/ASTM Method	S				
Method: SM 4500S2-D		Instr: _ANA	ALYST			
Batch ID: W5G2155	Preparation: _NONE (WETCHEM)	-	07/31/25 10	:07		Analyst: mes
Sulfide, Total	ND	0.10	mg/l	1	07/31/25	
Glyphosate & AMPA by EPA 54	47M LCMS					
Method: EPA 547M		Instr: LCMS	506			
Batch ID: W5G1939	Preparation: _NONE (LC)	Prepared:	07/29/25 10	:03		Analyst: JNA
Glyphosate	ND	1.0	ug/l	1	07/29/25	
Metals by EPA 200 Series Meth	nods					
Method: EPA 200.8		Instr: ICPM	IS06			
Batch ID: W5G1849	Preparation: EPA 200.2	Prepared:	07/28/25 12	:37		Analyst: JWC
Arsenic, Total	1.9	0.40	ug/l	1	07/30/25	•
Cadmium, Total	1.7	0.20	ug/l	1	07/30/25	
Chromium, Total	0.43	0.20	ug/l	1	07/30/25	
Copper, Total	3.9	0.50	ug/l	1	07/30/25	
Iron, Total		20	ug/l	1	07/30/25	
Lead, Total	ND	0.20	ug/l	1	07/30/25	
Nickel, Total	19	2.0	ug/l	1	07/30/25	
Selenium, Total	1.1	0.40	ug/l	1	07/30/25	
·	ND	0.20	ug/l	1	07/30/25	
·		0.20	ug/l	1	07/30/25	
	ND	10	ug/l	1	07/30/25	

Prepared: 07/29/25 10:47

ug/l

0.050

Preparation: EPA 245.1



FINAL REPORT

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2301 N. Glassel St. Orange, CA 92865

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08/01/2025 11:43



Quality Control Results

Conventional Chemistry/Physical Para	meters by APF	HA/EPA/ASTN	Л Method	S						
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W5G2155 - SM 4500S2-D										
Blank (W5G2155-BLK1)			Pre	pared & A	nalyzed: 0	7/31/2	5			
Sulfide, Total	ND	0.10	mg/l		_					
LCS (W5G2155-BS1)			Pre	pared & A	nalyzed: 0	7/31/2	5			
Sulfide, Total	0.100	0.10	mg/l	0.100		100	90-110			
Duplicate (W5G2155-DUP1)	Source: 5F0	2006-01	Pre	pared & A	nalyzed: 0	7/31/2	5			
Sulfide, Total	0.200	0.10	mg/l		0.200			0	20	
Matrix Spike (W5G2155-MS1)	Source: 5G0	8006-01	Pre	pared & A	nalyzed: 0	7/31/2	5			
Sulfide, Total	0.200	0.10	mg/l	0.200	ND	100	80-120			
Matrix Spike Dup (W5G2155-MSD1)	Source: 5G0	8006-01	Pre	pared & A	nalyzed: 0	7/31/2	5			
Sulfide. Total	0.200	0.10	ma/l	0.200	ND	100	80-120	0	20	



Quality Control Results

Glyphosate & AMPA by EPA 547M LCI	MS									
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W5G1939 - EPA 547M										
Blank (W5G1939-BLK1)			Pre	pared & A	nalyzed: 0	7/29/2	:5			
Glyphosate	ND	1.0	ug/l							
LCS (W5G1939-BS1)			Pre	pared & A	nalyzed: 0	7/29/2	:5			
Glyphosate	10.9	1.0	ug/l	10.0		109	50-150			
Matrix Spike (W5G1939-MS1)	Source: 5G2	5080-02	Pre	pared & A	nalyzed: 0	7/29/2	:5			
Glyphosate	11.2	1.0	ug/l	10.0	0.714	105	41-149			
Matrix Spike Dup (W5G1939-MSD1)	Source: 5G2	5080-02	Pre	pared & A	nalyzed: 0	7/29/2	25			
Glyphosate	10.8	1.0	ua/l	10.0	0.714	101	41-149	3	30	



FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865 Project Number: Workorder#4300

Project Manager: Kathleen Kelly

Reported:

08/01/2025 11:43



(Continued)

Metals by EPA 200 Series Methods										
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
atch: W5G1849 - EPA 200.8										
Blank (W5G1849-BLK1)			Prepare	d: 07/28/2	5 Analyze	ed: 07/3	30/25			
Arsenic, Total		0.40	ug/l							
Cadmium, Total		0.20	ug/l							
Chromium, Total		0.20	ug/l							
Copper, Total		0.50	ug/l							
Iron, Total		20	ug/l							
Lead, Total		0.20	ug/l							
Nickel, Total	ND	2.0	ug/l							
Selenium, Total	ND	0.40	ug/l							
Silver, Total	ND	0.20	ug/l							
Thallium, Total	ND	0.20	ug/l							
Zinc, Total	ND	10	ug/l							
LCS (W5G1849-BS1)			Propare	d: 07/28/2	5 Analyza	ad: 07/3	20/25			
Arsenic, Total	51.4	0.40	ug/l	50.0	Allalyze	103	85-115			
Cadmium, Total	50.5	0.20	ug/l	50.0		101	85-115			
Chromium, Total		0.20	ug/l	50.0		101	85-115			
Copper, Total		0.50	ug/l	50.0		104	85-115			
Iron, Total		20	ug/l	1050		103	85-115			
Lead, Total		0.20	ug/l	50.0		102	85-115			
Nickel, Total		2.0	ug/l	50.0		102	85-115			
Selenium, Total		0.40	ug/l	50.0		102	85-115			
Silver, Total		0.20	ug/l	50.0		101	85-115			
Thallium, Total		0.20	ug/l	50.0		102	85-115			
Zinc, Total		10	ug/l	50.0		102	85-115			
Matrix Spike (W5G1849-MS1) Arsenic, Total	Source: 5G2	25080-02 0.40	Prepare ug/l	d: 07/28/2 ! 50.0	5 Analyze 1.92	e d: 07/ 3 107	30/25 70-130			
Cadmium, Total			· .		0.0834		70-130			
,		0.20	ug/l	50.0		98				
Chromium, Total		0.20	ug/l	50.0	0.166	99	70-130			
Copper, Total		0.50	ug/l	50.0	1.90	98	70-130			
Iron, Total		20	ug/l	1050	66.2	100	70-130			
Lead, Total		0.20	ug/l	50.0	ND	106	70-130			
Nickel, Total		2.0	ug/l	50.0	9.53	94	70-130			
Selenium, Total		0.40	ug/l	50.0	1.01	103	70-130			
Silver, Total		0.20	ug/l	50.0	0.0274	96	70-130			
Thallium, Total		0.20	ug/l	50.0	ND	105	70-130			
Zinc, Total	51.9	10	ug/l	50.0	2.65	99	70-130			
Matrix Spike Dup (W5G1849-MSD1)	Source: 5G2			d: 07/28/2						
Arsenic, Total	**	0.40	ug/l	50.0	1.92	106	70-130	0.7	30	
Cadmium, Total		0.20 0.20	ug/l	50.0	0.0834	99	70-130	1	30	
Chromium, Total			ug/l	50.0	0.166	98	70-130	0.5	30	



FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865 Project Number: Workorder#4300

Project Manager: Kathleen Kelly

Reported:

08/01/2025 11:43



Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Co	ontinued)									
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W5G1849 - EPA 200.8 (Continue	d)									
Matrix Spike Dup (W5G1849-MSD1)	Source: 5G25080-02		Prepared: 07/28/25 Analyzed: 07/30/25							
Copper, Total		0.50	ug/l	50.0	1.90	97	70-130	0.2	30	
Iron, Total	1120	20	ug/l	1050	66.2	100	70-130	0.06	30	
Lead, Total	53.3	0.20	ug/l	50.0	ND	107	70-130	0.4	30	
Nickel, Total	56.9	2.0	ug/l	50.0	9.53	95	70-130	0.4	30	
Selenium, Total	52.4	0.40	ug/l	50.0	1.01	103	70-130	0.2	30	
Silver, Total	48.9	0.20	ug/l	50.0	0.0274	98	70-130	1	30	
Thallium, Total	52.4	0.20	ug/l	50.0	ND	105	70-130	0.7	30	
Zinc, Total	51.7	10	ug/l	50.0	2.65	98	70-130	0.5	30	
Batch: W5G1954 - EPA 245.1										
Blank (W5G1954-BLK1)		Prepa		ed: 07/29/25 Analyzed: 07/30/2			30/25			
Mercury, Total	ND	0.050	ug/l		-					
LCS (W5G1954-BS1)			Prepare	d: 07/29/25	Analyze	ed: 07/3	30/25			
Mercury, Total	0.983	0.050	ug/l	1.00	-	98	85-115			
Matrix Spike (W5G1954-MS1)	Source: 5G2	5080-01	Prepare	d: 07/29/25	Analyze	ed: 07/3	30/25			
Mercury, Total	0.940	0.050	ug/l	1.00	ND	94	70-130			
Matrix Spike Dup (W5G1954-MSD1)	Source: 5G2	5080-01	Prepare	d: 07/29/25	Analyze	ed: 07/3	30/25			
Mercury, Total	0.966	0.050	ug/l	1.00	ND	97	70-130	3	20	



FINAL REPORT

Orange County Environmental Man. Agency

2301 N. Glassel St. Orange, CA 92865

Project Number: Workorder#4300

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08/01/2025 11:43



Notes and Definitions

Item Definition

%REC Percent Recovery

Dil Dilution

MRL Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a

specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)

ND NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or

above the MDL.

RPD Relative Percent Difference

Source Sample that was matrix spiked or duplicated.

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

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

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



FINAL REPORT

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Project Number: Workorder#4300

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		7

Orange, CA 92865

Analyses Accreditation Summary

Analyte		lot By AP-CA	Not By NELAP OR	Not ANAB ISO 17025
EPA 547M in Water				
Glyphosate	1071-83-6		•	•

This laboratory report may contain results for target analytes that are not currently certifiable by the California Environmental Laboratory Accreditation Program (ELAP). ELAP is the state agency that accredits environmental testing laboratories in Californiahttps://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html. ELAP certification is required for laboratories that perform testing for regulatory purposes, such as drinking water, wastewater, hazardous waste, and ambient waterhttps://www.waterboards.ca.gov/drinking_water/certlic/labs/apply.html. However, ELAP does not certify all analytes or methods that a laboratory may offer. Therefore, some of the target analytes in this report may not have been tested under ELAP-approved methods or quality control procedures. The results for these analytes are provided for informational purposes only and should not be usea for regulatory compliance or decision making. Please contact the laboratory if you have any questions or concerns about the report.