

Hit Summary Sheet SW-846

SDG No.: P4549 **Order ID:** P4549
Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-067-IDWGW-20241024									
P4549-02	TT-067-IDWGW-20241024	Water	Aluminum	19000		28.3	40.0	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Arsenic	4.33	J	3.48	8.00	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Barium	85.5		6.28	12.5	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Beryllium	1.02	J	0.13	0.75	3.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Cadmium	0.62	J	0.094	0.75	3.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Calcium	8450		33.0	250	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Chromium	37.7		0.66	2.50	5.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Cobalt	14.2	J	0.50	3.75	15.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Copper	33.0		7.07	8.00	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Iron	8550		18.5	40.0	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Lead	18.9		3.51	4.80	6.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Magnesium	3790		39.4	250	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Manganese	283		1.46	2.50	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Nickel	21.4		0.85	5.00	20.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Potassium	2700		685	800	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Sodium	36900		237	500	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Vanadium	27.1		3.06	10.0	20.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Zinc	40.8		1.75	5.00	20.0	ug/L
Client ID : TT-068-IDWGW-20241024									
P4549-03	TT-068-IDWGW-20241024	Water	Aluminum	37900		28.3	40.0	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Arsenic	7.93	J	3.48	8.00	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Barium	151		6.28	12.5	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Beryllium	2.47	J	0.13	0.75	3.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Cadmium	1.55	J	0.094	0.75	3.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Calcium	17600		33.0	250	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Chromium	31.5		0.66	2.50	5.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Cobalt	12.6	J	0.50	3.75	15.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Copper	21.0		7.07	8.00	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Iron	18500		18.5	40.0	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Lead	36.8		3.51	4.80	6.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Magnesium	7970		39.4	250	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Manganese	430		1.46	2.50	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Nickel	21.3		0.85	5.00	20.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Potassium	2490		685	800	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Sodium	55700		237	500	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Vanadium	33.7		3.06	10.0	20.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Zinc	74.0		1.75	5.00	20.0	ug/L

Hit Summary Sheet SW-846

SDG No.: P4549

Order ID: P4549

Client: Tetra Tech NUS, Inc.

Project ID: CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-069-IDWGW-20241024									
P4549-04	TT-069-IDWGW-20241024	Water	Aluminum	13000		28.3	40.0	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Barium	96.5		6.28	12.5	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Beryllium	1.11	J	0.13	0.75	3.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Cadmium	0.50	J	0.094	0.75	3.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Calcium	9080		33.0	250	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Chromium	15.1		0.66	2.50	5.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Cobalt	5.18	J	0.50	3.75	15.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Copper	11.2		7.07	8.00	10.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Iron	7460		18.5	40.0	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Lead	16.3		3.51	4.80	6.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Magnesium	3380		39.4	250	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Manganese	192		1.46	2.50	10.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Nickel	9.45	J	0.85	5.00	20.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Potassium	1480		685	800	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Sodium	43600		237	500	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Vanadium	13.5	J	3.06	10.0	20.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Zinc	35.7		1.75	5.00	20.0	ug/L



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	19000		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-38-2	Arsenic	4.33	JN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-39-3	Barium	85.5		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-41-7	Beryllium	1.02	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-43-9	Cadmium	0.62	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-70-2	Calcium	8450		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-47-3	Chromium	37.7		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-48-4	Cobalt	14.2	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-50-8	Copper	33.0		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-89-6	Iron	8550		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-92-1	Lead	18.9	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-95-4	Magnesium	3790	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-96-5	Manganese	283	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/28/24 08:00	10/28/24 11:37	SW7470A	
7440-02-0	Nickel	21.4		1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-09-7	Potassium	2700		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-23-5	Sodium	36900		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-62-2	Vanadium	27.1	N	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-66-6	Zinc	40.8		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	37900		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-38-2	Arsenic	7.93	JN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-39-3	Barium	151		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-41-7	Beryllium	2.47	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-43-9	Cadmium	1.55	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-70-2	Calcium	17600		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-47-3	Chromium	31.5		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-48-4	Cobalt	12.6	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-50-8	Copper	21.0		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-89-6	Iron	18500		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-92-1	Lead	36.8	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-95-4	Magnesium	7970	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-96-5	Manganese	430	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/28/24 08:00	10/28/24 11:46	SW7470A	
7440-02-0	Nickel	21.3		1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-09-7	Potassium	2490		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-23-5	Sodium	55700		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-62-2	Vanadium	33.7	N	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-66-6	Zinc	74.0		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

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N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13000		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-38-2	Arsenic	8.00	UN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-39-3	Barium	96.5		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-41-7	Beryllium	1.11	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-43-9	Cadmium	0.50	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-70-2	Calcium	9080		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-47-3	Chromium	15.1		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-48-4	Cobalt	5.18	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-50-8	Copper	11.2		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-89-6	Iron	7460		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-92-1	Lead	16.3	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-95-4	Magnesium	3380	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-96-5	Manganese	192	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/28/24 08:00	10/28/24 11:56	SW7470A	
7440-02-0	Nickel	9.45	J	1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-09-7	Potassium	1480		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-23-5	Sodium	43600		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-62-2	Vanadium	13.5	JN	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-66-6	Zinc	35.7		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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LAB CHRONICLE

OrderID:	P4549	OrderDate:	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-02	TT-067-IDWGW-2024 1024	Water			10/24/24			10/24/24
			Mercury	7470A		10/28/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4549-03	TT-068-IDWGW-2024 1024	Water			10/24/24			10/24/24
			Mercury	7470A		10/28/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4549-04	TT-069-IDWGW-2024 1024	Water			10/24/24			10/24/24
			Mercury	7470A		10/28/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	