

June 01, 2023

Tetra Tech Inc.

Mark Reisig

1560 Broadway, Suite 1400

Denver

CO 80202

Project Name - KMG - Anderson UPRR 32-9A

Project Number - GSH# 18896

Attached are your analytical results for KMG - Anderson UPRR 32-9A received by Origins Laboratory, Inc. May 24, 2023. This project is associated with Origins project number Y305657-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tetra Tech Inc.
1560 Broadway, Suite 1400
Denver CO 80202

Mark Reisig
Project Number: GSH# 18896
Project: KMG - Anderson UPRR 32-9A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW02	Y305657-01	Water	May 22, 2023 13:45	05/24/2023 12:16
MW03	Y305657-02	Water	May 22, 2023 14:10	05/24/2023 12:16
MW04	Y305657-03	Water	May 22, 2023 14:25	05/24/2023 12:16
MW05	Y305657-04	Water	May 22, 2023 14:40	05/24/2023 12:16
MW01	Y305657-05	Water	May 22, 2023 15:00	05/24/2023 12:16

Origins Laboratory, Inc.



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 1560 Broadway, Suite 1400
 Denver CO 80202

Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: UB05657

Client: Tetrattech

Client Project ID: Anderson UPRR 32-9A

Checklist Completed by: JH/EHS

Shipped Via: TD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/25/23

Airbill #: na

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1, 2, 3 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 70034

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/26/23

Origins Laboratory, Inc.
[Signature]

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Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

MW02

5/22/2023 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y305657-01 (Water)
Origins Laboratory, Inc.

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3E2613	JSM	05/26/2023	05/26/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	Ua
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2020	5.00	mg/L	1	B3E2616	AJC	05/26/2023	05/26/2023	
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	139	20.0	mg/L	100	2435613	HXC1	05/22/2023	05/26/2023	
Sulfate	675	40.0	"	"	"	HXC1	"	"	

Origins Laboratory, Inc.



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Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

MW03

5/22/2023 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y305657-02 (Water)
Origins Laboratory, Inc.

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3E2613	JSM	05/26/2023	05/26/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	Ua
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1480	5.00	mg/L	1	B3E2616	AJC	05/26/2023	05/26/2023	
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	153	20.0	mg/L	100	2435613	HXC1	05/22/2023	05/26/2023	
Sulfate	377	40.0	"	"	"	HXC1	"	"	

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Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

MW04

5/22/2023 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y305657-03 (Water)
Origins Laboratory, Inc.

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3E2613	JSM	05/26/2023	05/26/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	Ua
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1370	5.00	mg/L	1	B3E2616	AJC	05/26/2023	05/26/2023	
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	142	20.0	mg/L	100	2435613	HXC1	05/22/2023	05/26/2023	
Sulfate	328	40.0	"	"	"	HXC1	"	"	

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 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

MW05

5/22/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y305657-04 (Water)
Origins Laboratory, Inc.

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3E2613	JSM	05/26/2023	05/26/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	Ua
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2170	5.00	mg/L	1	B3E2616	AJC	05/26/2023	05/26/2023	
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	175	20.0	mg/L	100	2435613	HXC1	05/22/2023	05/26/2023	
Sulfate	726	40.0	"	"	"	HXC1	"	"	

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 Project: KMG - Anderson UPRR 32-9A

MW01

5/22/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y305657-05 (Water)
Origins Laboratory, Inc.

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3E2613	JSM	05/26/2023	05/26/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	Ua
Benzene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Naphthalene	ND	2.00	"	"	"	JSM	"	"	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1240	5.00	mg/L	1	B3E2616	AJC	05/26/2023	05/26/2023	
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GEL Laboratories, LLC

Anions by EPA 300.0

Chloride	132	20.0	mg/L	100	2435613	HXC1	05/22/2023	05/26/2023	
Sulfate	301	40.0	"	"	"	HXC1	"	"	

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 Denver CO 80202

Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E2613 - EPA 5030B (Water)

Blank (B3E2613-BLK1)

Prepared: 05/26/2023 Analyzed: 05/26/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5	92.5		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.7		70-130			

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 Project: KMG - Anderson UPRR 32-9A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E2613 - EPA 5030B (Water)

LCS (B3E2613-BS1)

Prepared: 05/26/2023 Analyzed: 05/26/2023

1,2,4-Trimethylbenzene	47.1	2.00	ug/L	50.0		94.2	70-130			
1,3,5-Trimethylbenzene	46.7	2.00	"	50.0		93.4	70-130			
Benzene	51.5	1.00	"	50.0		103	70-130			
Ethylbenzene	49.6	1.00	"	50.0		99.2	70-130			
m,p-Xylene	93.3	2.00	"	100		93.3	70-130			
Naphthalene	45.4	2.00	"	50.0		90.9	70-130			
o-Xylene	42.7	1.00	"	50.0		85.4	70-130			
Toluene	50.2	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

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 Denver CO 80202

Mark Reisig
 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E2613 - EPA 5030B (Water)

Matrix Spike (B3E2613-MS1)	Source: Y305592-01			Prepared: 05/26/2023 Analyzed: 05/26/2023						
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	49.1	2.00	"	50.0	ND	98.3	70-130			
Benzene	52.1	1.00	"	50.0	ND	104	70-130			
Ethylbenzene	50.6	1.00	"	50.0	ND	101	70-130			
m,p-Xylene	95.8	2.00	"	100	ND	95.8	70-130			
Naphthalene	52.9	2.00	"	50.0	0.310	105	70-130			
o-Xylene	44.3	1.00	"	50.0	ND	88.6	70-130			
Toluene	51.3	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E2613 - EPA 5030B (Water)

Matrix Spike Dup (B3E2613-MSD1)	Source: Y305592-01			Prepared: 05/26/2023 Analyzed: 05/26/2023						
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130	0.0397	20	
1,3,5-Trimethylbenzene	49.8	2.00	"	50.0	ND	99.7	70-130	1.39	20	
Benzene	53.0	1.00	"	50.0	ND	106	70-130	1.83	20	
Ethylbenzene	53.3	1.00	"	50.0	ND	107	70-130	5.06	20	
m,p-Xylene	100	2.00	"	100	ND	100	70-130	4.71	20	
Naphthalene	46.0	2.00	"	50.0	0.310	91.3	70-130	14.1	20	
o-Xylene	45.8	1.00	"	50.0	ND	91.5	70-130	3.24	20	
Toluene	52.7	1.00	"	50.0	ND	105	70-130	2.71	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E2616 - NO PREP

Blank (B3E2616-BLK1)

Prepared: 05/26/2023 Analyzed: 05/26/2023

Total Dissolved Solids ND 5.00 mg/L

LCS (B3E2616-BS1)

Prepared: 05/26/2023 Analyzed: 05/26/2023

Total Dissolved Solids 996 5.00 mg/L 1000 99.6 90-110

Duplicate (B3E2616-DUP1)

Source: Y305596-01

Prepared: 05/26/2023 Analyzed: 05/26/2023

Total Dissolved Solids 7000 5.00 mg/L 6740 3.81 10

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 Project Number: GSH# 18896
 Project: KMG - Anderson UPRR 32-9A

**Anions by EPA 300.0 - Quality Control
 GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2435613 -										
BLANK (1205417996-BLK)					Prepared: Analyzed: 05/27/2023					
Chloride	ND	0.200	mg/L				-			U
Sulfate	ND	0.400	"				-			U
LCS (1205417997-BKS)					Prepared: Analyzed: 05/27/2023					
Chloride	4.64	0.200	mg/L	5.00		92.8	90-110			
Sulfate	9.72	0.400	"	10.0		97.2	90-110			
DUP (1205417998 D)		Source: Y305657-01			Prepared: Analyzed: 05/26/2023					
Chloride	139	20.0	mg/L		139		0-20	0.245	20	
Sulfate	667	40.0	"		675		0-20	1.26	20	
DUP (1205417999 D)		Source: 623798001			Prepared: Analyzed: 05/26/2023					
Chloride	114	20.0	mg/L		116		0-20	2.07	20	
Sulfate	0.946	0.400	"		1.13		0-20	18.1	20	
PS (1205418000 S)		Source: Y305657-01			Prepared: Analyzed: 05/27/2023					
Chloride	631	20.0	mg/L	5.00		98.5	90-110			
Sulfate	1700	40.0	"	10.0		103	90-110			
PS (1205418001 S)		Source: 623798001			Prepared: Analyzed: 05/27/2023					
Sulfate	11.2	0.400	mg/L	10.0		101	90-110			
Chloride	599	20.0	"	5.00		96.5	90-110			

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Denver CO 80202

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Project Number: GSH# 18896
Project: KMG - Anderson UPRR 32-9A

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.