

AFS - Bennett Pit
Permit # M-2001-038
August 6, 2021 Annual Report – Supplemental Information
Albert Frei and & Sons, Inc.

Albert Frei & Sons purchased this sand and gravel pit on June 1, 2017 and renamed the mine AFS - Bennett Pit. An amendment application was filed on February 13, 2019 to expand the mine from 47.8 acres to 107.9 acres. Amendment AM-01 was approved by the Mined Land Reclamation Board in an order dated November 20, 2019.

8. The total disturbance at the mine is 43.6 acres ±. Mining continued on the working face that stretches from east to west on the southern part of the mine site. Mining continues on areas previously disturbed by lowering the mine floor. The following list outlines the various areas of disturbance at the mine.

<u>DESCRIPTION</u>	<u>ACRES</u>
Undisturbed area	64.3
Stripped-only area	0.0
2021 Newly Disturbed area	10.0 (dark yellow)
Total Disturbed area	43.6 (light and dark yellow)
<u>Reclaimed area</u>	<u>0.0</u>
Total Permit Area	107.9 (red line)

9. 10.0 acres at the south end.

10. No new area was reclaimed. There are piles of overburden/sloping material stored on the mine floor adjacent to the area that will need final sloping along the west side. The piles are not located on the map as they are moved as needed to complete the slopes.

11. Mining will continue on the working face progressing to the south AM-01 area.

12. No reclamation is required at this time.

13. No reclamation is required at this time.

19. Current Bond Amount \$217,500.00 (was increased with AM-01 in October 2019). No change necessary.

Attachments:

Groundwater Level Monitoring Data (July 2020-June 2021)

Groundwater Quality Data Analysis (August 2020)

Inert Fill Ticket List (July 1, 2020-June 30, 2021)

BENNETT GROUNDWATER ELEVATIONS

All elevations in feet above mean sea level (AMSL)

DATE	MW-1	MW-2	MW-3	MW-4
8/4/2020	5,304.38	5,290.31	5,295.56	5,293.58
9/4/2020	5,304.18	5,289.91	5,295.26	5,293.18
10/2/2020	5,304.18	5,289.71	5,295.06	5,293.08
11/2/2020	5,303.98	5,289.71	5,295.16	5,293.18
12/2/2020	5,304.08	5,289.81	5,295.26	5,293.18
1/6/2021	5,303.98	5,289.81	5,295.16	5,293.08
2/2/2021	5,303.98	5,289.71	5,295.26	5,293.18
3/3/2021	5,304.08	5,289.81	5,295.26	5,293.18
4/2/2021	5,303.98	5,290.01	5,295.36	5,293.48
5/3/2021	5,304.08	5,290.01	5,295.26	5,293.18
6/3/2021	5,303.98	5,290.01	5,295.46	5,293.48
7/1/2021	5,303.98	5,289.71	5,294.96	5,292.98



August 11, 2020

Molen & Associates, LLC

Mark Molen

2090 East 104th Avenue - #205

Thornton CO 80233

Project Name - AFS - Bennett Pit GW

Project Number - 19-0218

Attached are your analytical results for AFS - Bennett Pit GW received by Origins Laboratory, Inc. August 04, 2020. This project is associated with Origins project number Y008031-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Molen & Associates, LLC

2090 East 104th Avenue - #205

Thornton CO 80233

Mark Molen

Project Number: 19-0218

Project: AFS - Bennett Pit GW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	Y008031-01	Water	August 4, 2020 10:30	08/04/2020 16:00

Origins Laboratory, Inc.



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.

Molen & Associates, LLC

2090 East 104th Avenue - #205

Thornton CO 80233

Mark Molen

Project Number: 19-0218

Project: AFS - Bennett Pit GW

www.originslaboratory.com

1902031

page 1 of 1

ORIGINS
LABORATORY, INC

Client: Molen & Associates LLC
Address: 2090 E 104th Ave #101
Thornton, CO 80233
Telephone Number: 303-460-1600
Email Address: mark@molenandassociates.com

Project Manager: Mark Molen
Project Name: AFS - Bennett Pit GW
Project Number: 19-0218
Samples Collected By: Mark Molen

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
MW-2	8/4/20	1030	3	X				X			PH/Cond	1
"	"	"	1			X					Trace Metals	2
"	"	"	1	X							Fe filtered 0.45µm	3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Mark Molen	8-4-20	1600	[Signature]	8/4/20	1600	Same Day ☐ 24 Hr ☐ 48 Hr ☐ Standard ☒

Date Results Needed

Temp Received- 3.3

Origins Laboratory, Inc.

Jordan A. Merrill

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Molen & Associates, LLC

2090 East 104th Avenue - #205

Thornton CO 80233

Mark Molen

Project Number: 19-0218

Project: AFS - Bennett Pit GW

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y008031

Client: Molen & Assoc,

Client Project ID: AFS - Bennett Pit GW

Checklist Completed by: JG

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

Date/time completed: 8/4/20

Airbill #: N/A

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

Cooler Number/Temperature: 1, 37 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T803

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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) Jm

Date/Time Reviewed 8-5-20

Origins Laboratory, Inc.

Jm

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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

MW-2

8/4/2020 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y008031-01 (Water)

Dissolved RCRA 8 Metals by 6010C

Arsenic-Dissolved	ND	0.0300	mg/L	1	2026757	TXT1	08/06/2020	08/06/2020	U
Barium-Dissolved	0.133	0.00500	"	"	"	TXT1	"	"	
Cadmium-Dissolved	0.00115	0.00500	"	"	"	TXT1	"	"	J
Chromium-Dissolved	ND	0.0100	"	"	"	TXT1	"	"	U
Lead-Dissolved	ND	0.0200	"	"	"	TXT1	"	"	U
Selenium-Dissolved	0.0220	0.0300	"	"	"	TXT1	"	"	J
Silver-Dissolved	ND	0.00500	"	"	"	TXT1	"	"	U

Dissolved RCRA 8 Metals by 7470

Mercury-Dissolved	ND	0.000200	mg/L	1	2026868	AXS5	08/05/2020	08/06/2020	U
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pH in Water by EPA 9040C

pH	6.60		pH Units	1	B0H0409	DJL	08/04/2020	08/04/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1350	5.00	uS/cm	"	B0H0410	DJL	"	08/04/2020	
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VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B0H0404	KDK	08/04/2020	08/07/2020	Ua
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	Ua

Origins Laboratory, Inc.



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Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

MW-2

8/4/2020 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008031-01 (Water)

VOC by EPA 8260D

1,1,2,2-Tetrachloroethane	ND	1.00	ug/L	1	B0H0404	KDK	08/04/2020	08/07/2020	Ua
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	Ua
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	Ua
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	Ua
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	Ua
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	Ua
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	Ua
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	Ua
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	Ua
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	Ua
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	Ua
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	Ua
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	Ua
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	Ua
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	Ua
1,4-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	Ua
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	Ua

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MW-2

8/4/2020 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008031-01 (Water)

VOC by EPA 8260D

2-Butanone	ND	5.00	ug/L	1	B0H0404	KDK	08/04/2020	08/07/2020	Ua
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	Ua
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	Ua
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	Ua
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	Ua
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	Ua
Acetone	ND	8.00	"	"	"	KDK	"	"	Ua
Benzene	ND	1.00	"	"	"	KDK	"	"	Ua
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	Ua
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	Ua
Bromoform	ND	1.00	"	"	"	KDK	"	"	Ua
Bromomethane	ND	1.00	"	"	"	KDK	"	"	Ua
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	Ua
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	Ua
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Chloroethane	ND	1.00	"	"	"	KDK	"	"	Ua
Chloroform	ND	1.00	"	"	"	KDK	"	"	Ua
Chloromethane	ND	1.00	"	"	"	KDK	"	"	Ua

Origins Laboratory, Inc.



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Thornton CO 80233

Mark Molen
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Project: AFS - Bennett Pit GW

MW-2

8/4/2020 10:30:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008031-01 (Water)

VOC by EPA 8260D

cis-1,2-Dichloroethene	ND	1.00	ug/L	1	B0H0404	KDK	08/04/2020	08/07/2020	Ua
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	Ua
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	Ua
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	Ua
Iodomethane	ND	10.0	"	"	"	KDK	"	"	Ua
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	Ua
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	Ua
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	Ua
Naphthalene	ND	4.00	"	"	"	KDK	"	"	Ua
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
o-Xylene	ND	1.00	"	"	"	KDK	"	"	Ua
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Styrene	ND	1.00	"	"	"	KDK	"	"	Ua
tert-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	Ua

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Mark Molen
 Project Number: 19-0218
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MW-2

8/4/2020 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008031-01 (Water)

VOC by EPA 8260D

Toluene	ND	1.00	ug/L	1	B0H0404	KDK	08/04/2020	08/07/2020	Ua
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	Ua
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	Ua
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	Ua
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	Ua
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	91.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130	"	"	"

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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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 B0H0404 - EPA 5030B (Water)

Blank (B0H0404-BLK1)

Prepared: 08/04/2020 Analyzed: 08/04/2020

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							Ua
1,1,1-Trichloroethane	ND	1.00	"							Ua
1,1,2,2-Tetrachloroethane	ND	1.00	"							Ua
1,1,2-Trichloroethane	ND	1.00	"							Ua
1,1-Dichloroethane	ND	1.00	"							Ua
1,1-Dichloroethene	ND	1.00	"							Ua
1,1-Dichloropropene	ND	1.00	"							Ua
1,2,3-Trichlorobenzene	ND	5.00	"							Ua
1,2,3-Trichloropropane	ND	5.00	"							Ua
1,2,4-Trichlorobenzene	ND	5.00	"							Ua
1,2,4-Trimethylbenzene	ND	1.00	"							Ua
1,2-Dibromo-3-chloropropane	ND	5.00	"							Ua
1,2-Dibromoethane (EDB)	ND	1.00	"							Ua
1,2-Dichlorobenzene	ND	1.00	"							Ua
1,2-Dichloroethane	ND	1.00	"							Ua
1,2-Dichloropropane	ND	1.00	"							Ua
1,3,5-Trimethylbenzene	ND	1.00	"							Ua
1,3-Dichlorobenzene	ND	1.00	"							Ua
1,3-Dichloropropane	ND	1.00	"							Ua
1,4-Dichlorobenzene	ND	1.00	"							Ua
2,2-Dichloropropane	ND	1.00	"							Ua
2-Butanone	ND	5.00	"							Ua
2-Chlorotoluene	ND	1.00	"							Ua
2-Hexanone	ND	5.00	"							Ua
4-Chlorotoluene	ND	1.00	"							Ua
4-Isopropyltoluene	ND	1.00	"							Ua

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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
Batch B0H0404 - EPA 5030B (Water)										
Blank (B0H0404-BLK1)					Prepared: 08/04/2020 Analyzed: 08/04/2020					
4-Methyl-2-pentanone	ND	5.00	ug/L							Ua
Acetone	ND	8.00	"							Ua
Benzene	ND	1.00	"							Ua
Bromobenzene	ND	1.00	"							Ua
Bromochloromethane	ND	1.00	"							Ua
Bromodichloromethane	ND	1.00	"							Ua
Bromoform	ND	1.00	"							Ua
Bromomethane	ND	1.00	"							Ua
Carbon disulfide	ND	5.00	"							Ua
Carbon tetrachloride	ND	1.00	"							Ua
Chlorobenzene	ND	1.00	"							Ua
Chloroethane	ND	1.00	"							Ua
Chloroform	ND	1.00	"							Ua
Chloromethane	ND	1.00	"							Ua
cis-1,2-Dichloroethene	ND	1.00	"							Ua
cis-1,3-Dichloropropene	ND	1.00	"							Ua
Dibromochloromethane	ND	1.00	"							Ua
Dibromomethane	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Hexachlorobutadiene	ND	5.00	"							Ua
Iodomethane	ND	10.0	"							Ua
Isopropylbenzene	ND	1.00	"							Ua
m,p-Xylene	ND	2.00	"							Ua
Methylene Chloride	ND	5.00	"							Ua
Methyl tert-Butyl Ether	ND	1.00	"							Ua
Naphthalene	ND	4.00	"							Ua

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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
Batch B0H0404 - EPA 5030B (Water)										
Blank (B0H0404-BLK1)					Prepared: 08/04/2020 Analyzed: 08/04/2020					
n-Butylbenzene	ND	1.00	ug/L							Ua
n-Propylbenzene	ND	1.00	"							Ua
o-Xylene	ND	1.00	"							Ua
sec-Butylbenzene	ND	1.00	"							Ua
Styrene	ND	1.00	"							Ua
tert-Butylbenzene	ND	1.00	"							Ua
Tetrachloroethene	ND	1.00	"							Ua
Toluene	ND	1.00	"							Ua
trans-1,2-Dichloroethene	ND	1.00	"							Ua
trans-1,3-Dichloropropene	ND	1.00	"							Ua
Trichloroethene	ND	1.00	"							Ua
Trichlorofluoromethane	ND	1.00	"							Ua
Vinyl chloride	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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Molen & Associates, LLC

2090 East 104th Avenue - #205

Thornton CO 80233

Mark Molen

Project Number: 19-0218

Project: AFS - Bennett Pit GW

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 B0H0404 - EPA 5030B (Water)

LCS (B0H0404-BS1)

Prepared: 08/04/2020 Analyzed: 08/04/2020

1,1,1,2-Tetrachloroethane	21.9	1.00	ug/L	25.0		87.5	70-130			
1,1,1-Trichloroethane	26.4	1.00	"	25.0		106	70-130			
1,1,2,2-Tetrachloroethane	24.8	1.00	"	25.0		99.3	70-130			
1,1,2-Trichloroethane	23.9	1.00	"	25.0		95.7	70-130			
1,1-Dichloroethane	27.9	1.00	"	25.0		112	70-130			
1,1-Dichloroethene	28.8	1.00	"	25.0		115	70-130			
1,1-Dichloropropene	27.4	1.00	"	25.0		110	70-130			
1,2,3-Trichlorobenzene	23.1	5.00	"	25.0		92.4	70-130			
1,2,3-Trichloropropane	23.6	5.00	"	25.0		94.6	70-130			
1,2,4-Trichlorobenzene	23.7	5.00	"	25.0		94.6	70-130			
1,2,4-Trimethylbenzene	22.9	1.00	"	25.0		91.6	70-130			
1,2-Dibromo-3-chloropropane	19.7	5.00	"	25.0		78.8	70-130			
1,2-Dibromoethane (EDB)	24.3	1.00	"	25.0		97.1	70-130			
1,2-Dichlorobenzene	22.2	1.00	"	25.0		88.8	70-130			
1,2-Dichloroethane	26.5	1.00	"	25.0		106	70-130			
1,2-Dichloropropane	28.7	1.00	"	25.0		115	70-130			
1,3,5-Trimethylbenzene	22.7	1.00	"	25.0		90.8	70-130			
1,3-Dichlorobenzene	22.4	1.00	"	25.0		89.8	70-130			
1,3-Dichloropropane	24.3	1.00	"	25.0		97.1	70-130			
1,4-Dichlorobenzene	22.2	1.00	"	25.0		88.7	70-130			
2,2-Dichloropropane	27.2	1.00	"	25.0		109	70-130			
2-Butanone	160	5.00	"	125		128	70-130			
2-Chlorotoluene	22.5	1.00	"	25.0		90.1	70-130			
2-Hexanone	137	5.00	"	125		109	70-130			
4-Chlorotoluene	22.2	1.00	"	25.0		88.9	70-130			
4-Isopropyltoluene	23.2	1.00	"	25.0		92.9	70-130			

Origins Laboratory, Inc.



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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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
Batch B0H0404 - EPA 5030B (Water)										
LCS (B0H0404-BS1)					Prepared: 08/04/2020 Analyzed: 08/04/2020					
4-Methyl-2-pentanone	138	5.00	ug/L	125		110	70-130			
Acetone	146	8.00	"	125		117	70-130			
Benzene	28.7	1.00	"	25.0		115	70-130			
Bromobenzene	23.1	1.00	"	25.0		92.6	70-130			
Bromochloromethane	26.9	1.00	"	25.0		108	70-130			
Bromodichloromethane	28.0	1.00	"	25.0		112	70-130			
Bromoform	19.0	1.00	"	25.0		76.1	70-130			
Bromomethane	25.4	1.00	"	25.0		102	70-130			
Carbon disulfide	38.8	5.00	"	25.0		155	70-130			QM-11
Carbon tetrachloride	26.2	1.00	"	25.0		105	70-130			
Chlorobenzene	23.8	1.00	"	25.0		95.1	70-130			
Chloroethane	29.1	1.00	"	25.0		116	70-130			
Chloroform	28.0	1.00	"	25.0		112	70-130			
Chloromethane	21.8	1.00	"	25.0		87.4	70-130			
cis-1,2-Dichloroethene	28.2	1.00	"	25.0		113	70-130			
cis-1,3-Dichloropropene	23.8	1.00	"	25.0		95.0	70-130			
Dibromochloromethane	22.3	1.00	"	25.0		89.0	70-130			
Dibromomethane	26.9	1.00	"	25.0		108	70-130			
Ethylbenzene	23.4	1.00	"	25.0		93.8	70-130			
Hexachlorobutadiene	21.9	5.00	"	25.0		87.5	70-130			
Iodomethane	37.8	10.0	"	25.0		151	70-130			QM-11
Isopropylbenzene	22.6	1.00	"	25.0		90.3	70-130			
m,p-Xylene	47.4	2.00	"	50.0		94.9	70-130			
Methylene Chloride	29.1	5.00	"	25.0		116	70-130			
Methyl tert-Butyl Ether	27.4	1.00	"	25.0		110	70-130			
Naphthalene	23.2	4.00	"	25.0		92.6	70-130			

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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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
Batch B0H0404 - EPA 5030B (Water)										
LCS (B0H0404-BS1)					Prepared: 08/04/2020 Analyzed: 08/04/2020					
n-Butylbenzene	25.0	1.00	ug/L	25.0		99.9	70-130			
n-Propylbenzene	24.3	1.00	"	25.0		97.4	70-130			
o-Xylene	23.3	1.00	"	25.0		93.2	70-130			
sec-Butylbenzene	24.0	1.00	"	25.0		95.8	70-130			
Styrene	22.9	1.00	"	25.0		91.5	70-130			
tert-Butylbenzene	22.3	1.00	"	25.0		89.2	70-130			
Tetrachloroethene	20.8	1.00	"	25.0		83.2	70-130			
Toluene	24.1	1.00	"	25.0		96.4	70-130			
trans-1,2-Dichloroethene	28.0	1.00	"	25.0		112	70-130			
trans-1,3-Dichloropropene	24.2	1.00	"	25.0		96.8	70-130			
Trichloroethene	26.8	1.00	"	25.0		107	70-130			
Trichlorofluoromethane	26.1	1.00	"	25.0		104	70-130			
Vinyl chloride	22.4	1.00	"	25.0		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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 B0H0404 - EPA 5030B (Water)

Matrix Spike (B0H0404-MS1)		Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020					
1,1,1,2-Tetrachloroethane	24.0	1.00	ug/L	25.0	ND	95.8	70-130			
1,1,1-Trichloroethane	28.1	1.00	"	25.0	ND	112	70-130			
1,1,2,2-Tetrachloroethane	28.1	1.00	"	25.0	ND	112	70-130			
1,1,2-Trichloroethane	26.6	1.00	"	25.0	ND	106	70-130			
1,1-Dichloroethane	29.9	1.00	"	25.0	ND	120	70-130			
1,1-Dichloroethene	30.8	1.00	"	25.0	ND	123	70-130			
1,1-Dichloropropene	29.1	1.00	"	25.0	ND	116	70-130			
1,2,3-Trichlorobenzene	25.8	5.00	"	25.0	0.080	103	70-130			
1,2,3-Trichloropropane	26.7	5.00	"	25.0	ND	107	70-130			
1,2,4-Trichlorobenzene	26.2	5.00	"	25.0	ND	105	70-130			
1,2,4-Trimethylbenzene	24.8	1.00	"	25.0	ND	99.0	70-130			
1,2-Dibromo-3-chloropropane	22.0	5.00	"	25.0	ND	87.8	70-130			
1,2-Dibromoethane (EDB)	27.0	1.00	"	25.0	ND	108	70-130			
1,2-Dichlorobenzene	24.1	1.00	"	25.0	ND	96.3	70-130			
1,2-Dichloroethane	28.8	1.00	"	25.0	0.190	114	70-130			
1,2-Dichloropropane	30.8	1.00	"	25.0	ND	123	70-130			
1,3,5-Trimethylbenzene	24.7	1.00	"	25.0	ND	98.8	70-130			
1,3-Dichlorobenzene	24.4	1.00	"	25.0	ND	97.6	70-130			
1,3-Dichloropropane	26.6	1.00	"	25.0	ND	106	70-130			
1,4-Dichlorobenzene	24.2	1.00	"	25.0	ND	96.8	70-130			
2,2-Dichloropropane	29.0	1.00	"	25.0	ND	116	70-130			
2-Butanone	178	5.00	"	125	ND	142	70-130			QM-07
2-Chlorotoluene	24.4	1.00	"	25.0	ND	97.6	70-130			
2-Hexanone	151	5.00	"	125	ND	121	70-130			
4-Chlorotoluene	24.1	1.00	"	25.0	ND	96.6	70-130			
4-Isopropyltoluene	25.4	1.00	"	25.0	ND	101	70-130			

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2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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
Batch B0H0404 - EPA 5030B (Water)										
Matrix Spike (B0H0404-MS1)		Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020					
4-Methyl-2-pentanone	152	5.00	ug/L	125	ND	121	70-130			
Acetone	165	8.00	"	125	3.89	129	70-130			
Benzene	30.6	1.00	"	25.0	ND	122	70-130			
Bromobenzene	25.5	1.00	"	25.0	ND	102	70-130			
Bromochloromethane	29.4	1.00	"	25.0	ND	117	70-130			
Bromodichloromethane	30.7	1.00	"	25.0	ND	123	70-130			
Bromoform	21.9	1.00	"	25.0	ND	87.6	70-130			
Bromomethane	29.5	1.00	"	25.0	ND	118	70-130			
Carbon disulfide	41.8	5.00	"	25.0	ND	167	70-130			QM-07
Carbon tetrachloride	27.9	1.00	"	25.0	ND	112	70-130			
Chlorobenzene	25.3	1.00	"	25.0	ND	101	70-130			
Chloroethane	31.1	1.00	"	25.0	ND	124	70-130			
Chloroform	31.4	1.00	"	25.0	1.50	120	70-130			
Chloromethane	23.3	1.00	"	25.0	ND	93.2	70-130			
cis-1,2-Dichloroethene	30.2	1.00	"	25.0	ND	121	70-130			
cis-1,3-Dichloropropene	26.0	1.00	"	25.0	ND	104	70-130			
Dibromochloromethane	24.5	1.00	"	25.0	ND	98.2	70-130			
Dibromomethane	29.4	1.00	"	25.0	ND	118	70-130			
Ethylbenzene	25.0	1.00	"	25.0	ND	100	70-130			
Hexachlorobutadiene	23.4	5.00	"	25.0	ND	93.7	70-130			
Iodomethane	40.4	10.0	"	25.0	ND	162	70-130			QM-07
Isopropylbenzene	24.6	1.00	"	25.0	ND	98.6	70-130			
m,p-Xylene	51.4	2.00	"	50.0	ND	103	70-130			
Methylene Chloride	30.1	5.00	"	25.0	ND	121	70-130			
Methyl tert-Butyl Ether	30.6	1.00	"	25.0	ND	122	70-130			
Naphthalene	26.4	4.00	"	25.0	ND	106	70-130			

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2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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 B0H0404 - EPA 5030B (Water)

Matrix Spike (B0H0404-MS1)		Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020					
n-Butylbenzene	26.6	1.00	ug/L	25.0	ND	106	70-130			
n-Propylbenzene	26.6	1.00	"	25.0	ND	106	70-130			
o-Xylene	25.1	1.00	"	25.0	ND	100	70-130			
sec-Butylbenzene	25.9	1.00	"	25.0	ND	104	70-130			
Styrene	24.6	1.00	"	25.0	ND	98.4	70-130			
tert-Butylbenzene	24.4	1.00	"	25.0	ND	97.5	70-130			
Tetrachloroethene	22.2	1.00	"	25.0	ND	88.6	70-130			
Toluene	26.1	1.00	"	25.0	ND	105	70-130			
trans-1,2-Dichloroethene	29.8	1.00	"	25.0	ND	119	70-130			
trans-1,3-Dichloropropene	26.5	1.00	"	25.0	ND	106	70-130			
Trichloroethene	28.7	1.00	"	25.0	ND	115	70-130			
Trichlorofluoromethane	27.5	1.00	"	25.0	ND	110	70-130			
Vinyl chloride	24.1	1.00	"	25.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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2090 East 104th Avenue - #205
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Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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
Batch B0H0404 - EPA 5030B (Water)										
Matrix Spike Dup (B0H0404-MSD1)		Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020					
1,1,1,2-Tetrachloroethane	23.8	1.00	ug/L	25.0	ND	95.2	70-130	0.670	20	
1,1,1-Trichloroethane	27.4	1.00	"	25.0	ND	110	70-130	2.49	20	
1,1,2,2-Tetrachloroethane	27.3	1.00	"	25.0	ND	109	70-130	3.07	20	
1,1,2-Trichloroethane	26.7	1.00	"	25.0	ND	107	70-130	0.338	20	
1,1-Dichloroethane	29.2	1.00	"	25.0	ND	117	70-130	2.33	20	
1,1-Dichloroethene	29.8	1.00	"	25.0	ND	119	70-130	3.33	20	
1,1-Dichloropropene	28.4	1.00	"	25.0	ND	114	70-130	2.37	20	
1,2,3-Trichlorobenzene	24.9	5.00	"	25.0	0.080	99.3	70-130	3.40	20	
1,2,3-Trichloropropane	26.0	5.00	"	25.0	ND	104	70-130	2.88	20	
1,2,4-Trichlorobenzene	25.2	5.00	"	25.0	ND	101	70-130	3.85	20	
1,2,4-Trimethylbenzene	24.4	1.00	"	25.0	ND	97.5	70-130	1.55	20	
1,2-Dibromo-3-chloropropane	21.9	5.00	"	25.0	ND	87.8	70-130	0.0456	20	
1,2-Dibromoethane (EDB)	27.2	1.00	"	25.0	ND	109	70-130	0.626	20	
1,2-Dichlorobenzene	23.3	1.00	"	25.0	ND	93.2	70-130	3.25	20	
1,2-Dichloroethane	28.9	1.00	"	25.0	0.190	115	70-130	0.520	20	
1,2-Dichloropropane	31.1	1.00	"	25.0	ND	125	70-130	1.00	20	
1,3,5-Trimethylbenzene	24.5	1.00	"	25.0	ND	98.0	70-130	0.854	20	
1,3-Dichlorobenzene	23.8	1.00	"	25.0	ND	95.0	70-130	2.70	20	
1,3-Dichloropropane	26.9	1.00	"	25.0	ND	108	70-130	1.27	20	
1,4-Dichlorobenzene	23.7	1.00	"	25.0	ND	94.9	70-130	2.00	20	
2,2-Dichloropropane	27.9	1.00	"	25.0	ND	112	70-130	3.87	20	
2-Butanone	180	5.00	"	125	ND	144	70-130	1.16	20	QM-07
2-Chlorotoluene	24.2	1.00	"	25.0	ND	96.8	70-130	0.823	20	
2-Hexanone	147	5.00	"	125	ND	118	70-130	2.44	20	
4-Chlorotoluene	23.8	1.00	"	25.0	ND	95.2	70-130	1.46	20	
4-Isopropyltoluene	24.6	1.00	"	25.0	ND	98.3	70-130	3.16	20	

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Mark Molen
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Project: AFS - Bennett Pit GW

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
Batch B0H0404 - EPA 5030B (Water)										
Matrix Spike Dup (B0H0404-MSD1)		Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020					
4-Methyl-2-pentanone	153	5.00	ug/L	125	ND	122	70-130	0.729	20	
Acetone	164	8.00	"	125	3.89	128	70-130	0.407	20	
Benzene	30.0	1.00	"	25.0	ND	120	70-130	1.81	20	
Bromobenzene	25.2	1.00	"	25.0	ND	101	70-130	1.26	20	
Bromochloromethane	29.3	1.00	"	25.0	ND	117	70-130	0.307	20	
Bromodichloromethane	31.1	1.00	"	25.0	ND	124	70-130	1.36	20	
Bromoform	21.7	1.00	"	25.0	ND	86.8	70-130	0.964	20	
Bromomethane	30.2	1.00	"	25.0	ND	121	70-130	2.04	20	
Carbon disulfide	40.1	5.00	"	25.0	ND	160	70-130	4.35	20	QM-07
Carbon tetrachloride	27.2	1.00	"	25.0	ND	109	70-130	2.76	20	
Chlorobenzene	25.5	1.00	"	25.0	ND	102	70-130	0.472	20	
Chloroethane	31.0	1.00	"	25.0	ND	124	70-130	0.0644	20	
Chloroform	31.1	1.00	"	25.0	1.50	118	70-130	0.832	20	
Chloromethane	22.7	1.00	"	25.0	ND	90.6	70-130	2.83	20	
cis-1,2-Dichloroethene	29.7	1.00	"	25.0	ND	119	70-130	1.60	20	
cis-1,3-Dichloropropene	26.9	1.00	"	25.0	ND	107	70-130	3.25	20	
Dibromochloromethane	24.6	1.00	"	25.0	ND	98.4	70-130	0.204	20	
Dibromomethane	29.9	1.00	"	25.0	ND	120	70-130	1.85	20	
Ethylbenzene	24.7	1.00	"	25.0	ND	98.7	70-130	1.49	20	
Hexachlorobutadiene	22.3	5.00	"	25.0	ND	89.1	70-130	5.08	20	
Iodomethane	38.9	10.0	"	25.0	ND	156	70-130	3.66	20	QM-07
Isopropylbenzene	24.2	1.00	"	25.0	ND	96.6	70-130	2.01	20	
m,p-Xylene	50.7	2.00	"	50.0	ND	101	70-130	1.23	20	
Methylene Chloride	29.2	5.00	"	25.0	ND	117	70-130	3.07	20	
Methyl tert-Butyl Ether	30.9	1.00	"	25.0	ND	124	70-130	1.17	20	
Naphthalene	25.6	4.00	"	25.0	ND	102	70-130	3.19	20	

Origins Laboratory, Inc.

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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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 B0H0404 - EPA 5030B (Water)

Matrix Spike Dup (B0H0404-MSD1)			Source: Y007442-01			Prepared: 08/04/2020 Analyzed: 08/04/2020				
n-Butylbenzene	25.6	1.00	ug/L	25.0	ND	102	70-130	3.72	20	
n-Propylbenzene	25.9	1.00	"	25.0	ND	104	70-130	2.55	20	
o-Xylene	25.3	1.00	"	25.0	ND	101	70-130	0.993	20	
sec-Butylbenzene	25.1	1.00	"	25.0	ND	100	70-130	3.37	20	
Styrene	24.7	1.00	"	25.0	ND	98.7	70-130	0.244	20	
tert-Butylbenzene	24.1	1.00	"	25.0	ND	96.5	70-130	1.03	20	
Tetrachloroethene	21.6	1.00	"	25.0	ND	86.2	70-130	2.79	20	
Toluene	26.3	1.00	"	25.0	ND	105	70-130	0.496	20	
trans-1,2-Dichloroethene	29.1	1.00	"	25.0	ND	116	70-130	2.48	20	
trans-1,3-Dichloropropene	26.9	1.00	"	25.0	ND	108	70-130	1.61	20	
Trichloroethene	28.2	1.00	"	25.0	ND	113	70-130	1.86	20	
Trichlorofluoromethane	27.5	1.00	"	25.0	ND	110	70-130	0.218	20	
Vinyl chloride	23.8	1.00	"	25.0	ND	95.0	70-130	1.63	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

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 B0H0409 - NO PREP

Duplicate (B0H0409-DUP1)

Source: Y008031-01

Prepared: 08/04/2020 Analyzed: 08/04/2020

pH	6.48		pH Units	6.60		1.83	200
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Batch B0H0410 - NO PREP

Blank (B0H0410-BLK1)

Prepared: 08/04/2020 Analyzed: 08/04/2020

Specific Conductance (EC)	1.90	5.00	uS/cm
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Duplicate (B0H0410-DUP1)

Source: Y008031-01

Prepared: 08/04/2020 Analyzed: 08/04/2020

Specific Conductance (EC)	1320	5.00	uS/cm	1350		1.84	10
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Origins Laboratory, Inc.



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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

Dissolved RCRA 8 Metals by 6010C - Quality Control

GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2026757 - SW846 3005A

BLANK (1204613106-BLK)

Prepared: 08/06/2020 Analyzed: 08/06/2020

Arsenic-Dissolved	ND	0.0300	mg/L				-			U
Barium-Dissolved	ND	0.00500	"				-			U
Cadmium-Dissolved	ND	0.00500	"				-			U
Chromium-Dissolved	ND	0.0100	"				-			U
Lead-Dissolved	ND	0.0200	"				-			U
Selenium-Dissolved	ND	0.0300	"				-			U
Silver-Dissolved	ND	0.00500	"				-			U

LCS (1204613107-BKS)

Prepared: 08/06/2020 Analyzed: 08/06/2020

Arsenic-Dissolved	0.496	0.0300	mg/L	0.500		99.2	80-120			
Silver-Dissolved	0.100	0.00500	"	0.100		100	80-120			
Selenium-Dissolved	0.488	0.0300	"	0.500		97.6	80-120			
Lead-Dissolved	0.500	0.0200	"	0.500		100	80-120			
Chromium-Dissolved	0.507	0.0100	"	0.500		101	80-120			
Barium-Dissolved	0.498	0.00500	"	0.500		99.5	80-120			
Cadmium-Dissolved	0.491	0.00500	"	0.500		98.3	80-120			

DUP (1204613108 D)

Source: Y008031-01

Prepared: 08/06/2020 Analyzed: 08/06/2020

Lead-Dissolved	ND	0.0200	mg/L		<0.00330	0-20	163	20		U
Arsenic-Dissolved	ND	0.0300	"		<0.00500	0-20	78.9	20		U
Selenium-Dissolved	0.0219	0.0300	"		0.0220	0-20	0.456	20		J
Silver-Dissolved	ND	0.00500	"		<0.00100	0-20	5.85	20		U
Chromium-Dissolved	0.00111	0.0100	"		<0.00100	0-20	44.7	20		J
Barium-Dissolved	0.136	0.00500	"		0.133	0-20	2.29	20		
Cadmium-Dissolved	0.00108	0.00500	"		0.00115	0-20	6.38	20		J

MS (1204613109 S)

Source: Y008031-01

Prepared: 08/06/2020 Analyzed: 08/06/2020

Origins Laboratory, Inc.



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Molen & Associates, LLC
 2090 East 104th Avenue - #205
 Thornton CO 80233

Mark Molen
 Project Number: 19-0218
 Project: AFS - Bennett Pit GW

Dissolved RCRA 8 Metals by 6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2026757 - SW846 3005A

MS (1204613109 S)		Source: Y008031-01			Prepared: 08/06/2020 Analyzed: 08/06/2020					
Arsenic-Dissolved	0.514	0.0300	mg/L	0.500	<0.00500	103	75-125			
Barium-Dissolved	0.622	0.00500	"	0.500	0.133	97.8	75-125			
Cadmium-Dissolved	0.468	0.00500	"	0.500	0.00115	93.5	75-125			
Chromium-Dissolved	0.496	0.0100	"	0.500	<0.00100	99.1	75-125			
Lead-Dissolved	0.474	0.0200	"	0.500	<0.00330	94.8	75-125			
Selenium-Dissolved	0.499	0.0300	"	0.500	0.0220	95.4	75-125			
Silver-Dissolved	0.0997	0.00500	"	0.100	<0.00100	98.9	75-125			

Origins Laboratory, Inc.



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2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

Dissolved RCRA 8 Metals by 7470 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2026868 - SW846 7470A Prep										
BLANK (1204613337-BLK)					Prepared: 08/05/2020 Analyzed: 08/06/2020					
Mercury-Dissolved	ND	0.000200	mg/L				-			U
LCS (1204613338-BKS)					Prepared: 08/05/2020 Analyzed: 08/06/2020					
Mercury-Dissolved	0.00208	0.000200	mg/L	0.00200		104	80-120			
DUP (1204613346 D)					Prepared: 08/05/2020 Analyzed: 08/06/2020					
		Source: 515805001								
Mercury-Dissolved	ND	0.000200	mg/L		<0.0000670		0-20	0	20	U
MS (1204613347 S)					Prepared: 08/05/2020 Analyzed: 08/06/2020					
		Source: 515805001								
Mercury-Dissolved	0.00182	0.000200	mg/L	0.00200	<0.0000670	90.3	75-125			

Origins Laboratory, Inc.



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Molen & Associates, LLC
2090 East 104th Avenue - #205
Thornton CO 80233

Mark Molen
Project Number: 19-0218
Project: AFS - Bennett Pit GW

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting 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.

Origins Laboratory, Inc.



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Bennett Inert Fill - July 1, 2020-June 30, 2021

ticketno	ticketdate	productid	customerid	Description	vehicleid
1132697	7/24/2020	731	N200	Nelson Pipeline Constructors	CCI007
1133255	8/19/2020	726	K278	Kiewit (other projects)	K127
1133798	9/22/2020	726	K276	Kiewit Infrastructure (Central 70)	K127
1133799	9/22/2020	726	K276	Kiewit Infrastructure (Central 70)	K128
1134149	10/13/2020	731	S186	Scott Contracting Inc	SCO6014
1134160	10/13/2020	731	S186	Scott Contracting Inc	SCO6014
1134170	10/13/2020	731	S186	Scott Contracting Inc	SCO6014
1134541	11/3/2020	726	K276	Kiewit Infrastructure (Central 70)	K127
1134552	11/3/2020	726	K276	Kiewit Infrastructure (Central 70)	K127
1134614	11/5/2020	726	U080	US Hydro	USHYDRO104
1135257	12/21/2020	726	U080	US Hydro	USHYDRO101
1135732	1/29/2021	721	A001	COD Sales	WZ26
1136154	2/18/2021	726	U080	US Hydro	USHYDRO203
1136987	4/1/2021	731	N200	Nelson Pipeline Constructors	CCC20
1137016	4/1/2021	731	N200	Nelson Pipeline Constructors	CCC20
1137359	4/13/2021	721	A001	COD Sales	SRCT32
1137601	4/26/2021	726	U080	US Hydro	USHYDRO203
1137771	5/5/2021	731	S186	Scott Contracting Inc	SCO6012
1137904	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137905	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT55
1137907	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137908	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137910	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137911	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137912	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT55
1137914	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137915	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT55
1137916	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1137918	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT55
1137919	5/12/2021	726	K501	Kuhn Construction, Inc.	PRT30
1138175	5/20/2021	721	A001	COD Sales	WHITETK#36
1139183	6/9/2021	731	L525	Liberty Infrastructures LLC	MHT01
1139197	6/9/2021	731	L525	Liberty Infrastructures LLC	MHT01
1139216	6/9/2021	731	L525	Liberty Infrastructures LLC	MHT01
1140119	6/30/2021	731	N200	Nelson Pipeline Constructors	CCC6
1140138	6/30/2021	731	N200	Nelson Pipeline Constructors	CCC6
Total					36