



Pueblo Plant
May 7, 2011

Mr. Ollivares
Environmental Protection Specialist
Division of Reclamation and Mining Safety
1313 Sherman St. Room 215
Denver, CO 80203

Re: Pueblo Cement Plant and Limestone Quarry. DRMS Permit No. M-2002-004
Groundwater Monitoring Report

Dear Mr. Ollivares:

Pursuant to TR-01 of the referenced permit, GCC conducted water sampling on its groundwater monitoring well MW-001 on 04/07/2011.

Enclosed you will find copies of sampling record and laboratory analysis report.

Should you have any questions/comments about this submission, please contact me at (719) 647-6861 or eolivares@gcc.com

Sincerely

Edwin Olivares
Environmental Engineer

GROUNDWATER SAMPLING RECORD						SAMPLE No. <u>MW-6</u>	
Project No: <u>06-001</u>			Location: <u>GCC Pueblo Plant</u>			Page <u>1</u> of <u>1</u>	
Date: <u>4/27/18</u>		Weather Conditions: <u>Clear 55°</u>			Personnel: <u>P. Close / D. Bemis</u>		
Comments: <u>2nd Quarter Sampling</u>							
INSTRUMENTS USED							
Instrument	Manufacturer/Model		Serial No.		Calibration		
Water Level Probe	<u>Gestech ET</u>		<u>5886</u>				
pH Meter	<u>YSI Pro 1030</u>		<u>5594</u>		Std: 4 <u>7</u> 10 @ <u>17.9</u> °C Reading <u>7.0</u>		Slope:
pH Meter					Std: <u>4</u> 7 10 @ <u>20.9</u> °C Reading <u>4.0</u>		
Specific Conductance Meter	<u>YSI Pro 1030</u>		<u>5594</u>		Std: <u>1413</u> uS @ 25 °C Reading <u>1413</u>		21.3°
Specific Conductance Meter					Std: _____ uS @ 25 °C Reading _____		
Temperature	<u>YSI Pro 1030</u>		<u>5594</u>				
Other:							
Filtration <u>0.45 micron in-line high capacity disposable filter.</u>							
WELL PURGING INFORMATION							
Casing Diameter (inches): <u>2</u>		Borehole Diameter (inches): <u>6</u>		Screened Interval (ft. BGL): <u>31.1' - 56.1'</u>			
Depth to Water (ft below MP): <u>43.81</u>		Total Depth (ft): <u>59.55</u>		Casing Volume (gal): <u>2.5</u>		(gal/ft: 1.5" = 0.09; 2" = 0.16; 4" = 0.65)	
Purging Method: <u>Bailer, poly</u>							
Comments: Monitoring point (MP) is the top of the PVC well casing. <u>black mark</u> <u>Steel csg stickup = 2.66' above pad</u> <u>PVC csg stickup = 2.50' above pad</u>							
Date/Time	Vol. Purged (gal)	Depth to Water (feet below MP)	pH	Specific Conductance (uS @ 25 deg C)	Temp (deg C)	Appearance (color, sediment, etc.)	Comments
<u>10:25</u>	<u>2.5</u>	<u>50.38</u>	<u>6.84</u>	<u>5840</u>	<u>15.3</u>	<u>Sl. cloudy tan</u>	
<u>10:16</u>	<u>2.5</u>		<u>6.90</u>	<u>5872</u>	<u>15.0</u>	<u>cloudy tan</u>	
<u>10:25</u>	<u>1.25</u>	<u>DRY</u>	<u>7.07</u>	<u>6460</u>	<u>15.1</u>	<u>cloudy tan</u>	
<u>11:15</u>		<u>57.78</u>					
<u>12:15</u>		<u>57.48</u>					
Cumulative Volume Purged: <u>6.25</u> (gallons) <u>2.5</u> (casing vol)							
WELL SAMPLING INFORMATION							
Sampling Equipment: <u>Bailer, poly</u>							
Comments:							
SAMPLING MEASUREMENTS:							
Date/Time	Depth to Water (feet below MP)	Depth Sampled (feet below MP)	pH	Specific Conductance (uS @ 25 deg C)	Temp (deg C)	Other	Other
<u>12:40</u>	<u>57.40</u>	<u>58-59</u>	<u>7.2</u>	<u>6200</u>	<u>16.3</u>		
SAMPLE HANDLING:							
Date/Time	Aliquots			Filtered (Y/N)	Preserved (type)	Comments	
	Volume (ml)	Bottle Composition	Quantity				
<u>12:40</u>	<u>250</u>	<u>LDPE</u>	<u>1</u>	<u>N</u>	<u>H2SO4</u>		
<u>12:40</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>Y</u>	<u>HNO3</u>		
<u>12:40</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>N</u>	<u>none</u>		
<u>12:40</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>N</u>	<u>none</u>		
Field QA/QC Samples Collected (type, Sample No.): <u>None</u>							
Equipment Decontamination: <u>DI water</u>							
Waste Disposal: <u>Ground surface</u>							
Signature of Field Personnel: <u>P. Close</u>					GCC RIO GRANDE, INC. Pueblo, CO		

GROUNDWATER SAMPLING RECORD						SAMPLE No. <u>MLW-7</u>	
Project No: <u>06-001</u>			Location: <u>GCC Pueblo Plant</u>			Page <u>1</u> of <u>1</u>	
Date: <u>4/22/18</u>		Weather Conditions: <u>Clear 55°</u>			Personnel: <u>B. Close / D. Bemis</u>		
Comments: <u>2nd Quarter sampling</u>							
INSTRUMENTS USED							
Instrument	Manufacturer/Model		Serial No.		Calibration		
Water Level Probe	<u>Geotech ET</u>		<u>5886</u>				
pH Meter	<u>YSI Pro 1030</u>		<u>5594</u>		Std: 4 (7) 10 @ <u>19.2</u> °C Reading <u>7.0</u>		Slope:
pH Meter					Std: <u>4</u> 7 10 @ <u>20.1</u> °C Reading <u>4.0</u>		
Specific Conductance Meter	<u>YSI Pro 1030</u>		<u>5594</u>		Std: <u>1413</u> uS @ 25°C Reading <u>1413</u>		
Specific Conductance Meter					Std: _____ uS @ 25°C Reading _____		
Temperature	<u>YSI Pro 1030</u>		<u>5594</u>				
Other:							
Filtration <u>0.45 micron in-line high capacity disposable filter.</u>							
WELL PURGING INFORMATION							
Casing Diameter (inches): <u>2</u>		Borehole Diameter (inches): <u>6</u>		Screened Interval (ft. BGL): <u>30.4'-55.4'</u>			
Depth to Water (ft below MP): <u>41.73</u>		Total Depth (ft): <u>59.4</u>		Casing Volume (gal): <u>2.8</u>		(gal/ft: 1.5" = 0.09; 2" = 0.16; 4" = 0.65)	
Purging Method: <u>Bailer, poly</u>							
Comments: Monitoring point (MP) is the top of the PVC well casing. <u>black mark</u> Steel Csg Stickup = 2.84' above pad PVC Csg Stickup = 2.64' above pad							
Date/Time	Vol. Purged (gal)	Depth to Water (feet below MP)	pH	Specific Conductance (uS @ 25 deg C)	Temp (deg C)	Appearance (color, sediment, etc.)	Comments
<u>4/27 10:40</u>	<u>2.8</u>	<u>43.55</u>	<u>6.89</u>	<u>5680</u>	<u>15.0</u>	<u>cloudy - tan</u>	
<u>10:48</u>	<u>2.8</u>	<u>44.07</u>	<u>6.85</u>	<u>5830</u>	<u>15.3</u>	<u>cloudy - tan</u>	
<u>11:00</u>	<u>2.9</u>	<u>44.70</u>	<u>6.86</u>	<u>5670</u>	<u>15.5</u>	<u>cloudy - tan</u>	
Cumulative Volume Purged: <u>8.5</u>		(gallons)		<u>3</u>		(casing vol)	
WELL SAMPLING INFORMATION							
Sampling Equipment: <u>Bailer, poly</u>							
Comments:							
SAMPLING MEASUREMENTS:							
Date/Time	Depth to Water (feet below MP)	Depth Sampled (feet below MP)	pH	Specific Conductance (uS @ 25 deg C)	Temp (deg C)	Other	Other
<u>11:05</u>	<u>44.70</u>	<u>58</u>	<u>6.85</u>	<u>5820</u>	<u>15.0</u>		
SAMPLE HANDLING:							
Date/Time	Aliquots			Filtered (Y/N)	Preserved (type)	Comments	
	Volume (ml)	Bottle Composition	Quantity				
<u>11:05</u>	<u>250</u>	<u>LDPE</u>	<u>1</u>	<u>N</u>	<u>H2SO4</u>		
<u>11:05</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>Y</u>	<u>HNO3</u>		
<u>11:05</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>N</u>	<u>none</u>		
<u>11:05</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>N</u>	<u>none</u>		
<u>11:05</u>	<u>500</u>	<u>"</u>	<u>1</u>	<u>N</u>	<u>none</u>		
Field QA/QC Samples Collected (type, Sample No.): <u>None</u>							
Equipment Decontamination: <u>DI water</u>							
Waste Disposal: <u>Ground surface</u>							
Signature of Field Personnel: <u>Bence Close</u>					GCC RIO GRANDE, INC. Pueblo, CO		

Client: GCC Pueblo
 Address: 3372 Lime Rd
Pueblo Co 81004
 Telephone Number: 719-647-6861
 Email Address: elivares@gcc.com

Project Manager: Edwin Olivares
 Project Name: Groundwater monitoring
 Project Number: _____
 Samples Collected By: B. Close - GCC
O. Benis - GCC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	pH	TDS		EL/NO ₃
MW-7	4/22/18	11:25	5	3		1	1	X							1
MW-6	4/22/18	12:40	4	2		1	1	X							2
															3
															4
															5
															6
															7
															8
															9
															10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:		
						Same Day	48 Hr	72 Hr
<u>B. Close</u>	4/27/18	1550	<u>[Signature]</u>	4/27/18	1550	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:			



Geotech Environmental Equipment, Inc.
2650 East 40th Avenue
Denver, CO 80205
Phone 303.320.4764 FAX 303.322.7242
sales@geotechenv.com
www.geotechenv.com
Federal ID# 84-0753199

Invoice No Payment Due

Invoice No: 551411
Invoice Date: 04/30/2018
Order No: 00517064
Customer No: 000006609752
Salesperson No: 005 JAMIE OEHRING
Account Terms: NEED CA/TERMS
Payment Method: CC
Purchase Ord No:
Placed By: Bence Close

Bill To: **CLOSE CONSULTING GROUP LLC**

ATTN: A.P. *
PO BOX 206
WINDSOR, CO 80550
UNITED STATES OF AMERICA

Ship To: **HOLD FOR PICKUP:**

GEOTECH ENVIRONMENTAL EQUIPMENT, INC
2650 E 40TH AVE
DENVER, CO 80205
UNITED STATES OF AMERICA

Phone No: (970) 290-6239 Ext No:

Shipping Date	Ship Via	Bill Frt Carrier #	Location
04/26/2018	PICK UP		CO

Line No.	Item No.	Description	Quantity			Unit Price	Amount
			Required	Shipped	B.O.		
FOR 1 DAY 4/26/18 THRU 4/27/18							
1	R8300055	RENTAL,COND,PH,YSIPRO 1030 4M CABLE	1	1		\$50.00	\$50.00
RENTAL UNIT #5594 RETURNED							
2	R8400001	RENTAL,WATER LEVEL,100FT	1	1		\$20.00	\$20.00
RENTAL UNIT #5886 RETURNED							
3	R8550009	RENTAL,GEOPUMP II W/EZLOAD II PUMPHEAD & CASE	1	1		\$30.00	\$30.00
RENTAL UNIT #3894 RETURNED							
4	R8550011	RENTAL,12V BATTERY/CHARGER	1	1		\$5.00	\$5.00
RENTAL UNIT #6147 RETURNED							

Your Amex card ending in *-1002, expiring 02/22 was charged.
Authorization Number: 285050

If you have questions, please contact JAMIE OEHRING at the above number.

Sale Amount	\$105.00
Shipping/Handling:	\$ 0.00
Sales Tax 7.65	\$8.04
Invoice Amount	\$113.04
Payment Applied	\$113.04
Amount Due	\$0.00



Geotech Environmental Equipment, Inc.
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Denver, CO 80205
Phone 303.320.4764 FAX 303.322.7242
sales@geotechenv.com
www.geotechenv.com
Federal ID# 84-0753199

Invoice

No Payment Due

Invoice No: 551274
Invoice Date: 04/27/2018
Order No: 00517066
Customer No: 000006609752
Salesperson No: 005 JAMIE OEHRING
Account Terms: NEED CA/TERMS
Payment Method: CC
Purchase Ord No:
Placed By: Bence Close

Bill To: **CLOSE CONSULTING GROUP LLC**
ATTN: A.P. *
PO BOX 206
WINDSOR, CO 80550
UNITED STATES OF AMERICA

Ship To: **HOLD FOR PICKUP:**
GEOTECH ENVIRONMENTAL EQUIPMENT, INC
2650 E 40TH AVE
DENVER, CO 80205
UNITED STATES OF AMERICA

Phone No: (970) 290-6239 Ext No:

Shipping Date		Ship Via	Bill Frt Carrier #			Location	
04/26/2018		PICK UP				CO	
Line No.	Item No.	Description	Quantity			Unit Price	Amount
			Required	Shipped	B.O.		
1	12101063	SOL,BUFPAK,PH4,7,10,1413,PK/4 4 ONE PINT BOTTLES	1	1		\$35.00	\$35.00
2	87050000	TUBING,SILICONE,SZ15,FT	10	10		\$2.35	\$23.50
3	73050004	FILTER,CAPSULE,.45UM,700CM2 DISPOS-A-FILTER.VERSAPOR	4	4		\$21.25	\$85.00
4	81050005	BAILER,GEO,POLY,WTD,1.5"X36" DISPOSABLE.EACH	3	3		\$6.99	\$20.97
5	81050017	BAILER,GEO,POLY,WTD,1.5"X48" DISPOSABLE.WEIGHTED.EACH	1	1		\$7.40	\$7.40
6	77051001	CORD,NYL,3/16",YLW,1000FT RL	1	1		\$64.80	\$64.80

Your Amex card ending in *-1002, expiring 02/22 was charged.
Authorization Number: 229182

If you have questions, please contact JAMIE OEHRING at the above number.

Sale Amount	\$236.67
Shipping/Handling:	\$ 0.00
Sales Tax 7.65	\$18.10
Invoice Amount	\$254.77
Payment Applied	\$254.77
Amount Due	\$0.00

geotech

*Groundwater Sampling, Monitoring
& Remediation Equipment*

Jamie Oehring

Colorado Sales Manager

JamieO@geotechenv.com

1-800-833-7958

**Geotech
Environmental
Equipment, Inc.**

2650 East 40th Avenue
Denver, Colorado 80205
Phone 303-320-4764
FAX 303-322-7242
www.geotechenv.com



May 03, 2018

GCC Pueblo
Edwin Olivares
3372 Lime Road
Pueblo

CO 81004

Project Name - Groundwater Monitoring

Project Number - [none]

Attached are your analytical results for Groundwater Monitoring received by Origins Laboratory, Inc. April 27, 2018. This project is associated with Origins project number Y804441-01.

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

GCC Pueblo

3372 Lime Road

Pueblo

CO

81004

Edwin Olivares

Project Number: [none]

Project: Groundwater Monitoring

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	Y804441-01	Water	April 27, 2018 11:05	04/27/2018 15:50
MW-6	Y804441-02	Water	April 27, 2018 12:40	04/27/2018 15:50

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.

Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

www.originslaboratory.com

180441

page 1 of 1

ORIGINS
LABORATORY, INC

Client: GCC Pueblo
Address: 3372 Lime Rd
Pueblo Co 81004
Telephone Number: 719-647-6861
Email Address: colivares@gcc.com

Project Manager: Edwin Olivares
Project Name: Groundwater monitoring
Project Number: _____
Samples Collected By: B. Close-GCC
D. Benis-GCC

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix		Analysis				Sample Instructions	
			Unpreserved	HCl	HNO ₃	Other	Soil	Air Summa	Other	PH	TDS	F/NO ₃		Nitrate
MW-7	4/27/18	11:05	5	3	1	1	X							1
MW-6	4/27/18	12:40	4	2	1	1	X							2
														3
														4
														5
														6
														7
														8
														9
														10

Metals: Al, As, Be, B, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mg, Ni, Se, V, Zn

Relinquished By: Bene Close Date: 4/27/18 Time: 1550
Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: 4/27/18 Time: 1550
Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Date Results Needed

Temp Received: 12.0

Origins Laboratory, Inc.

Jen Pellegrini

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.

GCC Pueblo

3372 Lime Road

Pueblo

CO

81004

Edwin Olivares

Project Number: [none]

Project: Groundwater Monitoring

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y60441

Client: GCC Pueblo

Client Project ID: Groundwater Monitoring

Checklist Completed by: Jan Lee

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

Date/time completed: 4-27-18

Airbill #: NP

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

Cooler Number/Temperature: 12.0 °C 12.0 °C 12.0 °C 12.0 °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		sampled same day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pH, Nitrate
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Nitrate/Nitrite preserved in H ₂ SO ₄ . Dissolved metals (Pb, Cu, Hg, etc.) in HNO ₃ . Preservation was not confirmed
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) JPP

Date/Time Reviewed 4/30/18

Origins Laboratory, Inc.

Jen Pellegrini

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.

Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

MW-7

4/27/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Accutest Laboratories Y804441-01 (Water)

Anions by 300.0

Fluoride	ND	0.50	mg/L	5	11111	04/27/2018	04/30/2018	
Nitrogen, Nitrate	ND	0.050	"	"	"	"	"	b

Dissolved Metals by 6010C

Aluminum-Dissolved	ND	200	ug/L	1	1760325	05/01/2018	05/01/2018	U
Arsenic-Dissolved	ND	30.0	"	"	"	"	"	U
Barium-Dissolved	14.2	5.00	"	"	"	"	"	
Beryllium-Dissolved	ND	5.00	"	"	"	"	"	U
Cadmium-Dissolved	ND	5.00	"	"	"	"	"	U
Chromium-Dissolved	ND	5.00	"	"	"	"	"	U
Cobalt-Dissolved	ND	5.00	"	"	"	"	"	U
Copper-Dissolved	ND	10.0	"	"	"	"	"	U
Iron-Dissolved	249	100	"	"	"	"	"	
Lead-Dissolved	ND	10.0	"	"	"	"	"	U
Manganese-Dissolved	166	10.0	"	"	"	"	"	
Nickel-Dissolved	6.07	5.00	"	"	"	"	"	
Selenium-Dissolved	ND	30.0	"	"	"	"	"	U
Vanadium-Dissolved	ND	5.00	"	"	"	"	"	U
Zinc-Dissolved	ND	10.0	"	"	"	"	"	U

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.

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

MW-7

4/27/2018 11:05:00AM

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

Y804441-01 (Water)

Dissolved Metals by 6020A

Lithium-Dissolved	665	10.0	ug/L	1	1760340	05/01/2018	05/02/2018	
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Dissolved Metals by 7470A

Mercury-Dissolved	ND	0.0002	mg/L	1	1760359	"	05/02/2018	U
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Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	ND	0.100	mg/L	5	1759992	04/27/2018	04/30/2018	U
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pH in Water by EPA 9040C

pH	6.66		pH Units	1	B8E0303	05/03/2018	05/03/2018	
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TDS by SM 2540C

Total Dissolved Solids	5270	14.3	mg/L	1	1759627	04/27/2018	05/01/2018	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

MW-6

4/27/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Accutest Laboratories Y804441-02 (Water)

Anions by 300.0

Fluoride	ND	1.0	mg/L	10	11111	04/27/2018	04/30/2018	
Nitrogen, Nitrate	ND	0.10	"	"	"	"	"	b

Dissolved Metals by 6010C

Aluminum-Dissolved	ND	200	ug/L	1	1760325	05/01/2018	05/01/2018	U
Arsenic-Dissolved	ND	30.0	"	"	"	"	"	U
Barium-Dissolved	32.0	5.00	"	"	"	"	"	
Beryllium-Dissolved	ND	5.00	"	"	"	"	"	U
Cadmium-Dissolved	ND	5.00	"	"	"	"	"	U
Chromium-Dissolved	ND	5.00	"	"	"	"	"	U
Cobalt-Dissolved	18.8	5.00	"	"	"	"	"	
Copper-Dissolved	ND	10.0	"	"	"	"	"	U
Iron-Dissolved	55.6	100	"	"	"	"	"	J
Lead-Dissolved	ND	10.0	"	"	"	"	"	U
Manganese-Dissolved	1140	10.0	"	"	"	"	"	
Nickel-Dissolved	68.8	5.00	"	"	"	"	"	
Selenium-Dissolved	ND	30.0	"	"	"	"	"	U
Vanadium-Dissolved	ND	5.00	"	"	"	"	"	U
Zinc-Dissolved	ND	10.0	"	"	"	"	"	U

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GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

MW-6

4/27/2018 12:40:00PM

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

Y804441-02 (Water)

Dissolved Metals by 6020A

Lithium-Dissolved	689	10.0	ug/L	1	1760340	05/01/2018	05/02/2018	
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Dissolved Metals by 7470A

Mercury-Dissolved	ND	0.0002	mg/L	1	1760359	"	05/02/2018	U
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Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	ND	0.020	mg/L	1	1759992	04/27/2018	04/30/2018	U
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pH in Water by EPA 9040C

pH	7.22		pH Units	1	B8E0303	05/03/2018	05/03/2018	
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TDS by SM 2540C

Total Dissolved Solids	5030	14.3	mg/L	1	1759627	04/27/2018	05/01/2018	
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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

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 B8E0303 - NO PREP

Duplicate (B8E0303-DUP1)

Source: Y804441-01

Prepared: 05/03/2018 Analyzed: 05/03/2018

pH	6.65		pH Units		6.66			0.150	200	
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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Dissolved 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 1760325 - SW846 3005A

BLANK (1204019776-BLK)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Vanadium-Dissolved	ND	5.00	ug/L				-			U
Zinc-Dissolved	ND	10.0	"				-			U
Selenium-Dissolved	ND	30.0	"				-			U
Nickel-Dissolved	ND	5.00	"				-			U
Manganese-Dissolved	ND	10.0	"				-			U
Lead-Dissolved	ND	10.0	"				-			U
Iron-Dissolved	ND	100	"				-			U
Cobalt-Dissolved	ND	5.00	"				-			U
Chromium-Dissolved	ND	5.00	"				-			U
Cadmium-Dissolved	ND	5.00	"				-			U
Beryllium-Dissolved	ND	5.00	"				-			U
Barium-Dissolved	ND	5.00	"				-			U
Aluminum-Dissolved	ND	200	"				-			U
Arsenic-Dissolved	ND	30.0	"				-			U
Copper-Dissolved	ND	10.0	"				-			U

LCS (1204019777-BKS)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Barium-Dissolved	500	5.00	ug/L	500		99.9	80-120
Selenium-Dissolved	469	30.0	"	500		93.8	80-120
Nickel-Dissolved	482	5.00	"	500		96.4	80-120
Manganese-Dissolved	502	10.0	"	500		100	80-120
Lead-Dissolved	493	10.0	"	500		98.6	80-120
Iron-Dissolved	4990	100	"	5000		99.9	80-120
Copper-Dissolved	504	10.0	"	500		101	80-120
Cobalt-Dissolved	497	5.00	"	500		99.3	80-120
Chromium-Dissolved	494	5.00	"	500		98.8	80-120
Aluminum-Dissolved	5070	200	"	5000		101	80-120

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GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Dissolved Metals by 6010C - Quality Control

GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1760325 - SW846 3005A										
LCS (1204019777-BKS)					Prepared: 05/01/2018 Analyzed: 05/01/2018					
Beryllium-Dissolved	493	5.00	ug/L	500		98.7	80-120			
Arsenic-Dissolved	502	30.0	"	500		100	80-120			
Vanadium-Dissolved	501	5.00	"	500		100	80-120			
Zinc-Dissolved	482	10.0	"	500		96.4	80-120			
Cadmium-Dissolved	488	5.00	"	500		97.6	80-120			
DUP (1204019778 D)					Source: Y804441-01		Prepared: 05/01/2018 Analyzed: 05/01/2018			
Manganese-Dissolved	163	10.0	ug/L		166		0-20	1.98	20	
Aluminum-Dissolved	ND	200	"		<68.0		0-20	11.3	20	U
Zinc-Dissolved	ND	10.0	"		<3.30		0-20	7.8	20	U
Vanadium-Dissolved	ND	5.00	"		<1.00		0-20	NR	20	U
Cobalt-Dissolved	ND	5.00	"		<1.00		0-20	10.6	20	U
Nickel-Dissolved	6.14	5.00	"		6.07		0-20	1.16	20	
Lead-Dissolved	ND	10.0	"		<3.30		0-20	91.6	20	U
Iron-Dissolved	246	100	"		249		0-20	1.28	20	
Copper-Dissolved	ND	10.0	"		<3.00		0-20	14.1	20	U
Arsenic-Dissolved	ND	30.0	"		<5.00		0-20	40.1	20	U
Barium-Dissolved	13.4	5.00	"		14.2		0-20	5.64	20	
Beryllium-Dissolved	ND	5.00	"		<1.00		0-20	81.4	20	U
Cadmium-Dissolved	ND	5.00	"		<1.00		0-20	5.01	20	U
Chromium-Dissolved	ND	5.00	"		<1.00		0-20	8.68	20	U
Selenium-Dissolved	6.40	30.0	"		<6.00		0-20	15.7	20	J
MS (1204019779 S)					Source: Y804441-01		Prepared: 05/01/2018 Analyzed: 05/01/2018			
Zinc-Dissolved	469	10.0	ug/L	500	<3.30	93.8	75-125			
Cobalt-Dissolved	456	5.00	"	500	<1.00	91.1	75-125			
Vanadium-Dissolved	488	5.00	"	500	<1.00	97.6	75-125			

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GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Dissolved 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 1760325 - SW846 3005A

MS (1204019779 S)		Source: Y804441-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					
Selenium-Dissolved	479	30.0	ug/L	500	<6.00	94.7	75-125			
Nickel-Dissolved	440	5.00	"	500	6.07	86.8	75-125			
Manganese-Dissolved	632	10.0	"	500	166	93.2	75-125			
Lead-Dissolved	453	10.0	"	500	<3.30	90.7	75-125			
Chromium-Dissolved	469	5.00	"	500	<1.00	93.7	75-125			
Cadmium-Dissolved	448	5.00	"	500	<1.00	89.6	75-125			
Beryllium-Dissolved	465	5.00	"	500	<1.00	93	75-125			
Barium-Dissolved	483	5.00	"	500	14.2	93.8	75-125			
Arsenic-Dissolved	496	30.0	"	500	<5.00	99.2	75-125			
Aluminum-Dissolved	4800	200	"	5000	<68.0	95.9	75-125			
Iron-Dissolved	4900	100	"	5000	249	93	75-125			
Copper-Dissolved	544	10.0	"	500	<3.00	109	75-125			

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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Dissolved Metals by 6020A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1760340 - SW846 3010A										
BLANK (1204019812-BLK)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
Lithium-Dissolved	ND	10.0	ug/L				-			U
LCS (1204019813-BKS)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
Lithium-Dissolved	56.7	10.0	ug/L	50.0		113	80-120			
DUP (1204019814 D)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
		Source: Y804441-01								
Lithium-Dissolved	696	10.0	ug/L		665		0-20	4.52	20	
MS (1204019815 S)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
		Source: Y804441-01								
Lithium-Dissolved	773	10.0	ug/L	50.0	665	215	75-125			

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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Dissolved Metals by 7470A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1760359 - SW846 7470A Prep										
BLANK (1204019846-BLK)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
Mercury-Dissolved	ND	0.0002	mg/L				-			U
LCS (1204019847-BKS)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
Mercury-Dissolved	0.00231	0.0002	mg/L	0.002		115	80-120			
MS (1204019851 S)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
		Source: 448992001								
Mercury-Dissolved	0.00206	0.0002	mg/L	0.002	0.000166	94.7	75-125			
MSD (1204019852 SD)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
		Source: 448992001								
Mercury-Dissolved	0.00203	0.0002	mg/L	0.002	0.000166	93.3	75-125	1.37	20	

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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

Nitrate/Nitrite by EPA 353.2 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1759992 -										
BLANK (1204018934-BLK)					Prepared: Analyzed: 04/30/2018					
Nitrogen, Nitrate/Nitrite	ND	0.020	mg/L				-			U
LCS (1204018935-BKS)					Prepared: Analyzed: 04/30/2018					
Nitrogen, Nitrate/Nitrite	1.02	0.020	mg/L	1.00		102	90-110			
DUP (1204018936 D)					Source: Y804441-01 Prepared: Analyzed: 04/30/2018					
Nitrogen, Nitrate/Nitrite	ND	0.100	mg/L		<0.035		0-20	17	20	U
PS (1204018937 S)					Source: Y804441-01 Prepared: Analyzed: 04/30/2018					
Nitrogen, Nitrate/Nitrite	4.96	0.100	mg/L	1.00		99.1	90-110			

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Jen Pellegrini, Project Manager

GCC Pueblo
3372 Lime Road
Pueblo CO 81004

Edwin Olivares
Project Number: [none]
Project: Groundwater Monitoring

TDS by SM 2540C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1759627 -										
BLANK (1204018111-BLK)					Prepared: Analyzed: 05/01/2018					
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1204018112-BKS)					Prepared: Analyzed: 05/01/2018					
Total Dissolved Solids	286	14.3	mg/L	300		95.2	95-105			
DUP (1204019107 D)					Prepared: Analyzed: 05/01/2018					
Source: 448849003										
Total Dissolved Solids	120	14.3	mg/L		120		0-5	3.51	5	

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Jen Pellegrini, Project Manager

GCC Pueblo

3372 Lime Road

Pueblo

CO

81004

Edwin Olivares

Project Number: [none]

Project: Groundwater Monitoring

Notes and Definitions

U Result not detected above the detection limit

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

b Sample analyzed beyond recommended hold time.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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