

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 03, 2016

Zan Svendsen  
Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown, CO 80534  
RE: Wasco

Enclosed are the results of analyses for samples received by Summit Scientific on 07/01/16 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco  
Project Number: [none]  
Project Manager: Zan Svendsen

**Reported:**  
07/03/16 13:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Thin	1607009-01	Soil	06/30/16 00:00	07/01/16 12:30
Dark	1607009-02	Soil	06/30/16 00:00	07/01/16 12:30
Thick	1607009-03	Soil	06/30/16 00:00	07/01/16 12:30

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S<sub>2</sub>

Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

# Summit Scientific

1607009

S<sub>2</sub>

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: Symmetry Project Manager: Zan  
 Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Project Name: Wasco  
 Sampler Name: Zan Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	SAS	TPH		
1	Thin	6/30	11	1			X						X	X		
2	Dark		11	1			X						X	X		
3	Thick		11	1			X						X	X		
4																
5																
6																
7																
8																
9																
10																

  

Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Turn Around Time (Check)	Notes:
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Same Day <input checked="" type="checkbox"/> 72 hours _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	24 hours _____ Standard _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	48 hours _____	
Sample Integrity:				Temperature Upon Receipt: <u>17.6</u>	
Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

www.s2scientific.com

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Symmetry Oilfield Solutions  
 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
 Project Manager: Zan Svendsen

Reported:  
 07/03/16 13:05

**Sample Receipt Checklist**

S2 Work Order: 1667006  
 Client: Summit Client Project ID: Wasco  
 Shipped Via: 1/u Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Cooler ID				
Temp (°C)	<u>17.6</u>			

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Paul Shrewsbury  
 Custodian Printed Name

[Signature]  
 Signature or Initials of Custodian

6-30-16  
 Date/Time

[Signature]



Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

**Thin**  
**1607009-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>490</b>	50	mg/kg	1	1607013	07/01/16	07/02/16	8015M	
<b>C28-C36 (ORO)</b>	<b>6600</b>	50	"	"	"	"	"	"	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		104 %	70-130		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Gasoline Range Hydrocarbons</b>	<b>0.565</b>	0.500	mg/kg	1	1607012	07/01/16	07/01/16	EPA 8260B	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.2 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.4 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>329</b>	11.1	mg/kg dry	1	1607006	07/01/16	07/01/16	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>534</b>	5.57	"	"	"	"	"	"	
<b>Sodium</b>	<b>110</b>	5.57	"	"	"	"	"	"	

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Symmetry Oilfield Solutions  
 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco  
 Project Number: [none]  
 Project Manager: Zan Svendsen

**Reported:**  
 07/03/16 13:05

**Thin**  
**1607009-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.870</b>		units	1	1607017	07/03/16	07/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>89.8</b>		%	1	1607005	07/01/16	07/03/16	% calculation	

Summit Scientific

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1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

**Dark**  
**1607009-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	9400	50	mg/kg	1	1607013	07/01/16	07/02/16	8015M	
C28-C36 (ORO)	110000	50	"	"	"	"	"	"	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		172 %	70-130		"	"	"	"	S-02

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	113	5.00	mg/kg	10	1607012	07/01/16	07/01/16	EPA 8260B	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	ND	10.2	mg/kg dry	1	1607006	07/01/16	07/01/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	ND	5.11	"	"	"	"	"	"	
Sodium	ND	5.11	"	"	"	"	"	"	

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Symmetry Oilfield Solutions  
 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco  
 Project Number: [none]  
 Project Manager: Zan Svendsen

**Reported:**  
 07/03/16 13:05

**Dark**  
**1607009-02 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00		units	1	1607017	07/03/16	07/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>97.8</b>		%	1	1607005	07/01/16	07/03/16	% calculation	

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Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

**Thick**  
**1607009-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607013	07/01/16	07/02/16	8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	70-130		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.500	mg/kg	1	1607012	07/01/16	07/01/16	EPA 8260B	

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>914</b>	10.7	mg/kg dry	1	1607006	07/01/16	07/01/16	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>335</b>	5.36	"	"	"	"	"	"	
<b>Sodium</b>	<b>32.5</b>	5.36	"	"	"	"	"	"	

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 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco  
 Project Number: [none]  
 Project Manager: Zan Svendsen

**Reported:**  
 07/03/16 13:05

**Thick**  
**1607009-03 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.230</b>		units	1	1607017	07/03/16	07/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/30/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>93.2</b>		%	1	1607005	07/01/16	07/03/16	% calculation	

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Johnstown CO, 80534

Project: Wasco  
Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1607013 - EPA 3550A**

**Blank (1607013-BLK1)**

Prepared & Analyzed: 07/01/16

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
<i>Surrogate: o-Terphenyl</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.1</i>	<i>70-130</i>			

**LCS (1607013-BS1)**

Prepared & Analyzed: 07/01/16

C10-C28 (DRO)	429	50	mg/kg	499		86.1	50-150			
C28-C36 (ORO)	291	50	"				50-150			
<i>Surrogate: o-Terphenyl</i>	<i>11.8</i>		<i>"</i>	<i>12.5</i>		<i>94.2</i>	<i>70-130</i>			

**Matrix Spike (1607013-MS1)**

Source: 1607012-01

Prepared & Analyzed: 07/01/16

C10-C28 (DRO)	468	50	mg/kg	499	26.4	88.5	50-150			
C28-C36 (ORO)	280	50	"		399		50-150			
<i>Surrogate: o-Terphenyl</i>	<i>12.7</i>		<i>"</i>	<i>12.5</i>		<i>102</i>	<i>70-130</i>			

**Matrix Spike Dup (1607013-MSD1)**

Source: 1607012-01

Prepared & Analyzed: 07/01/16

C10-C28 (DRO)	433	50	mg/kg	499	26.4	81.5	50-150	7.71	20	
C28-C36 (ORO)	353	50	"		399		50-150	23.0	20	QM-07
<i>Surrogate: o-Terphenyl</i>	<i>11.6</i>		<i>"</i>	<i>12.5</i>		<i>92.7</i>	<i>70-130</i>			

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1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco  
Project Number: [none]  
Project Manager: Zan Svendsen

Reported:  
07/03/16 13:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1607012 - EPA 5030 Soil MS**

**Blank (1607012-BLK1)**

Prepared & Analyzed: 07/01/16

Gasoline Range Hydrocarbons	ND	0.500	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	21-167			

**LCS (1607012-BS1)**

Prepared & Analyzed: 07/01/16

Gasoline Range Hydrocarbons	3.76	0.500	mg/kg				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	21-167			

**Matrix Spike (1607012-MS1)**

Source: 1607012-01

Prepared & Analyzed: 07/01/16

Gasoline Range Hydrocarbons	4.15	0.500	mg/kg		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	21-167			

**Matrix Spike Dup (1607012-MSD1)**

Source: 1607012-01

Prepared & Analyzed: 07/01/16

Gasoline Range Hydrocarbons	4.30	0.500	mg/kg		ND		30-150	3.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

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 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco  
 Project Number: [none]  
 Project Manager: Zan Svendsen

Reported:  
 07/03/16 13:05

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1607006 - General Preparation**

**Blank (1607006-BLK1)**

Prepared & Analyzed: 07/01/16

Calcium	ND	10.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

**LCS (1607006-BS1)**

Prepared & Analyzed: 07/01/16

Calcium	444	10.0	mg/kg wet	500		88.9	82.9-118		
Magnesium	506	5.00	"	500		101	77.1-123		
Sodium	519	5.00	"	500		104	71-129		

**Duplicate (1607006-DUP1)**

Source: 1607009-01

Prepared & Analyzed: 07/01/16

Calcium	368	11.1	mg/kg dry	329				11.1	200
Magnesium	555	5.57	"	534				3.94	200
Sodium	103	5.57	"	110				6.24	200

**Matrix Spike (1607006-MS1)**

Source: 1607009-01

Prepared & Analyzed: 07/01/16

Calcium	761	11.1	mg/kg dry	557	329	77.5	75-125		
Magnesium	1110	5.57	"	557	534	103	75-125		
Sodium	680	5.57	"	557	110	102	75-125		

**Matrix Spike Dup (1607006-MSD1)**

Source: 1607009-01

Prepared & Analyzed: 07/01/16

Calcium	760	11.1	mg/kg dry	557	329	77.3	75-125	0.0884	25
Magnesium	1080	5.57	"	557	534	97.5	75-125	2.81	25
Sodium	675	5.57	"	557	110	101	75-125	0.803	25

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 1 Industrial Pkwy  
 Johnstown CO, 80534

Project: Wasco  
 Project Number: [none]  
 Project Manager: Zan Svendsen

**Reported:**  
 07/03/16 13:05

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 1607005 - General Preparation**

Duplicate (1607005-DUP1)	Source: 1607009-01			Prepared: 07/01/16	Analyzed: 07/03/16
% Solids	90.2		%	89.8	0.444 20

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Symmetry Oilfield Solutions  
1 Industrial Pkwy  
Johnstown CO, 80534

Project: Wasco

Project Number: [none]  
Project Manager: Zan Svendsen

**Reported:**  
07/03/16 13:05

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference