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## Technical Report for

**Civitas**

**TASMCOA: Zisch 23-6**

**250253**

**SGS Job Number: DA73563**

**Sampling Date: 07/10/25**

**Report to:**

**Civitas Resources  
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**Total number of pages in report: 83**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

A handwritten signature in black ink, appearing to read "Eric Hoffman".

**Eric Hoffman**

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Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Summary of Hits</b> .....	<b>4</b>
<b>Section 3: Sample Results</b> .....	<b>6</b>
<b>3.1:</b> DA73563-1: WH-B01@6' .....	7
<b>3.2:</b> DA73563-1A: WH-B01@6' .....	12
<b>3.3:</b> DA73563-1B: WH-B01@6' .....	14
<b>3.4:</b> DA73563-2: FL-B01@4' .....	15
<b>3.5:</b> DA73563-2A: FL-B01@4' .....	20
<b>3.6:</b> DA73563-2B: FL-B01@4' .....	22
<b>3.7:</b> DA73563-3: FL-B02@4' .....	23
<b>3.8:</b> DA73563-3A: FL-B02@4' .....	28
<b>3.9:</b> DA73563-3B: FL-B02@4' .....	30
<b>Section 4: Misc. Forms</b> .....	<b>31</b>
<b>4.1:</b> Chain of Custody .....	32
<b>Section 5: MS Volatiles - QC Data Summaries</b> .....	<b>34</b>
<b>5.1:</b> Method Blank Summary .....	35
<b>5.2:</b> Blank Spike Summary .....	36
<b>5.3:</b> Matrix Spike/Matrix Spike Duplicate Summary .....	38
<b>Section 6: MS Semi-volatiles - QC Data Summaries</b> .....	<b>40</b>
<b>6.1:</b> Method Blank Summary .....	41
<b>6.2:</b> Blank Spike Summary .....	42
<b>6.3:</b> Matrix Spike/Matrix Spike Duplicate Summary .....	43
<b>Section 7: GC/LC Semi-volatiles - QC Data Summaries</b> .....	<b>44</b>
<b>7.1:</b> Method Blank Summary .....	45
<b>7.2:</b> Blank Spike Summary .....	46
<b>7.3:</b> Matrix Spike/Matrix Spike Duplicate Summary .....	48
<b>Section 8: Metals Analysis - QC Data Summaries</b> .....	<b>50</b>
<b>8.1:</b> Prep QC MP41893: B .....	51
<b>8.2:</b> Prep QC MP41894: As,Ba,Cd,Cu,Pb,Ni,Se,Ag,Zn .....	59
<b>8.3:</b> Prep QC MP41896: Ca,Mg,Na .....	64
<b>Section 9: General Chemistry - QC Data Summaries</b> .....	<b>74</b>
<b>9.1:</b> Method Blank and Spike Results Summary .....	75
<b>9.2:</b> Duplicate Results Summary .....	76
<b>Section 10: Misc. Forms (SGS Dayton, NJ)</b> .....	<b>77</b>
<b>10.1:</b> Chain of Custody .....	78
<b>Section 11: General Chemistry - QC Data (SGS Dayton, NJ)</b> .....	<b>80</b>
<b>11.1:</b> Method Blank and Spike Results Summary .....	81
<b>11.2:</b> Duplicate Results Summary .....	82
<b>11.3:</b> Matrix Spike Results Summary .....	83



## Sample Summary

Civitas

**Job No:** DA73563

TASMCOA: Zisch 23-6  
 Project No: 250253

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:  
 Organics ND = Not detected above the MDL

DA73563-1	07/10/25	09:30	IE	07/10/25	SO	Soil	WH-B01@6'
DA73563-1A	07/10/25	09:30	IE	07/10/25	SO	Soil	WH-B01@6'
DA73563-1B	07/10/25	09:30	IE	07/10/25	SO	Soil	WH-B01@6'
DA73563-2	07/10/25	10:10	IE	07/10/25	SO	Soil	FL-B01@4'
DA73563-2A	07/10/25	10:10	IE	07/10/25	SO	Soil	FL-B01@4'
DA73563-2B	07/10/25	10:10	IE	07/10/25	SO	Soil	FL-B01@4'
DA73563-3	07/10/25	10:15	IE	07/10/25	SO	Soil	FL-B02@4'
DA73563-3A	07/10/25	10:15	IE	07/10/25	SO	Soil	FL-B02@4'
DA73563-3B	07/10/25	10:15	IE	07/10/25	SO	Soil	FL-B02@4'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** DA73563  
**Account:** Civitas  
**Project:** TASMCOA: Zisch 23-6  
**Collected:** 07/10/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**DA73563-1 WH-B01@6'**

Arsenic		3.4	0.24		mg/kg	SW846 6020B
Barium		35.2	2.4		mg/kg	SW846 6020B
Copper		2.9	2.4		mg/kg	SW846 6020B
Lead		7.5	0.59		mg/kg	SW846 6020B
Nickel		8.9	2.4		mg/kg	SW846 6020B
Zinc		28.0	12		mg/kg	SW846 6020B
pH		8.53			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.51	0.0010		mmhos/cm	SM 2510B-2011 MOD

**DA73563-1A WH-B01@6'**

Calcium		10.1	6.0		mg/l	SW846 6010C
Magnesium		25.7	3.0		mg/l	SW846 6010C
Sodium		21.0	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>a</sup>		0.799			ratio	USDA HANDBOOK 60

**DA73563-1B WH-B01@6'**

No hits reported in this sample.

**DA73563-2 FL-B01@4'**

Arsenic		4.6	0.25		mg/kg	SW846 6020B
Barium		203	2.5		mg/kg	SW846 6020B
Cadmium		0.14	0.13		mg/kg	SW846 6020B
Copper		9.3	2.5		mg/kg	SW846 6020B
Lead		10.4	0.63		mg/kg	SW846 6020B
Nickel		11.8	2.5		mg/kg	SW846 6020B
Zinc		42.1	13		mg/kg	SW846 6020B
pH		8.41			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.27	0.0010		mmhos/cm	SM 2510B-2011 MOD

**DA73563-2A FL-B01@4'**

Calcium		39.1	6.0		mg/l	SW846 6010C
Magnesium		8.04	3.0		mg/l	SW846 6010C
Sodium		17.2	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>a</sup>		0.654			ratio	USDA HANDBOOK 60

**DA73563-2B FL-B01@4'**

No hits reported in this sample.

## Summary of Hits

**Job Number:** DA73563  
**Account:** Civitas  
**Project:** TASMCOA: Zisch 23-6  
**Collected:** 07/10/25

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**DA73563-3      FL-B02@4'**

Arsenic	4.6	0.24		mg/kg	SW846 6020B
Barium	257	2.4		mg/kg	SW846 6020B
Cadmium	0.14	0.12		mg/kg	SW846 6020B
Copper	9.5	2.4		mg/kg	SW846 6020B
Lead	10.4	0.59		mg/kg	SW846 6020B
Nickel	11.7	2.4		mg/kg	SW846 6020B
Zinc	42.2	12		mg/kg	SW846 6020B
pH	8.43			su	WREP-125,4E-SATPASTE
Specific Conductivity	0.26	0.0010		mmhos/cm	SM 2510B-2011 MOD

**DA73563-3A      FL-B02@4'**

Calcium	37.7	6.0		mg/l	SW846 6010C
Magnesium	7.60	3.0		mg/l	SW846 6010C
Sodium	16.8	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>a</sup>	0.652			ratio	USDA HANDBOOK 60

**DA73563-3B      FL-B02@4'**

No hits reported in this sample.

(a) Calculated as:  $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

Sample Results

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Report of Analysis

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## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> WH-B01@6'	
<b>Lab Sample ID:</b> DA73563-1	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V92301.D	1	07/11/25 15:50	MB	n/a	n/a	V5V4432
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.14 g	5.0 ml
Run #2		

### VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0012	0.00058	mg/kg	
100-41-4	Ethylbenzene	ND	0.0023	0.00058	mg/kg	
108-88-3	Toluene	ND	0.0023	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0023	0.0010	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0023	0.0010	mg/kg	
	m,p-Xylene	ND	0.0023	0.0021	mg/kg	
95-47-6	o-Xylene	ND	0.0023	0.00082	mg/kg	
1330-20-7	Xylene (total)	ND	0.0023	0.0021	mg/kg	
	TPH-GRO (C6-C10)	ND	0.23	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	104%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'		
<b>Lab Sample ID:</b> DA73563-1		<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846 8270E SW846 3570		<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G18838.D	1	07/16/25 19:43	TH	07/16/25 14:00	OP28041	E6G708
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

### COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0047	0.0024	mg/kg	
120-12-7	Anthracene	ND	0.0047	0.0024	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0059	0.0035	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0047	0.0024	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0047	0.0024	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0047	0.0024	mg/kg	
218-01-9	Chrysene	ND	0.0047	0.0024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0047	0.0024	mg/kg	
206-44-0	Fluoranthene	ND	0.0047	0.0024	mg/kg	
86-73-7	Fluorene	ND	0.0047	0.0024	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0047	0.0024	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.0047	0.0024	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0047	0.0024	mg/kg	
91-20-3	Naphthalene	ND	0.0024	0.0018	mg/kg	
129-00-0	Pyrene	ND	0.0047	0.0024	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	55%		10-130%
4165-60-0	Nitrobenzene-d5	71%		10-130%
1718-51-0	Terphenyl-d14	79%		10-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> WH-B01@6'	
<b>Lab Sample ID:</b> DA73563-1	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846-8015C SW846 3570	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP082220.D	1	07/14/25 05:23	JB	07/11/25 10:30	OP28016	GFP2442
Run #2							

	Initial Weight	Final Volume
Run #1	5.7 g	10.0 ml
Run #2		

### DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28) <sup>a</sup>	ND	4.2	4.0	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.3	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	115%		20-142%

(a) Associated CCV outside of control limits high, sample was ND.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-1	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	3.4	0.24	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Barium	35.2	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.12	0.12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Copper	2.9	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	7.5	0.59	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Nickel	8.9	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Selenium	< 0.47	0.47	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	< 0.12	0.12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	28.0	12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA19368

(2) Prep QC Batch: MP41894

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-1	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>%solids</b>							
Solids, Percent	83.4		%	1	07/11/25	JL	SM2540G-2011 M
<b>pH-saturated paste method</b>							
pH	8.53		su	1	07/12/25 10:18	SG	WREP-125,4E-SATPASTE
<b>prep: DEPT.OF AG, BOOK N9</b>							
Specific Conductivity	0.51	0.0010	mmhos/cm	1	07/12/25 12:00	SG	SM 2510B-2011 MOD
Chromium, Hexavalent <sup>a</sup>	< 0.47	0.47	mg/kg	1	07/22/25 12:54	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'		<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-1A		<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6		

### SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	10.1	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Magnesium	25.7	3.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Sodium	21.0	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>

(1) Instrument QC Batch: MA19347

(2) Prep QC Batch: MP41896

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-1A	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio <sup>a</sup>	0.799		ratio	1	07/14/25 16:06	BR	USDA HANDBOOK 60

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> WH-B01@6'	
<b>Lab Sample ID:</b> DA73563-1B	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
	<b>Percent Solids:</b> 83.4
<b>Project:</b> TASMCOA: Zisch 23-6	

### Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	07/11/25	07/15/25 BR	SW846 6010C <sup>1</sup>	HWS-B <sup>2</sup>

(1) Instrument QC Batch: MA19352

(2) Prep QC Batch: MP41893

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RL = Reporting Limit

# Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'		
<b>Lab Sample ID:</b> DA73563-2		<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V92302.D	1	07/11/25 16:16	MB	n/a	n/a	V5V4432
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.30 g	5.0 ml
Run #2		

**VOA COGCC Table 915 soil list**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0012	0.00060	mg/kg	
100-41-4	Ethylbenzene	ND	0.0024	0.00060	mg/kg	
108-88-3	Toluene	ND	0.0024	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0024	0.0011	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0024	0.0011	mg/kg	
	m,p-Xylene	ND	0.0024	0.0022	mg/kg	
95-47-6	o-Xylene	ND	0.0024	0.00084	mg/kg	
1330-20-7	Xylene (total)	ND	0.0024	0.0022	mg/kg	
	TPH-GRO (C6-C10)	ND	0.24	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%
17060-07-0	1,2-Dichloroethane-D4	104%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	
<b>Lab Sample ID:</b> DA73563-2	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846 8270E SW846 3570	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G18834.D	1	07/16/25 18:07	TH	07/16/25 14:00	OP28041	E6G708
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

### COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.0050	0.0025	mg/kg	
120-12-7	Anthracene	ND	0.0050	0.0025	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0062	0.0037	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0050	0.0025	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0050	0.0025	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0050	0.0025	mg/kg	
218-01-9	Chrysene	ND	0.0050	0.0025	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0050	0.0025	mg/kg	
206-44-0	Fluoranthene	ND	0.0050	0.0025	mg/kg	
86-73-7	Fluorene	ND	0.0050	0.0025	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0050	0.0025	mg/kg	
90-12-0	1-Methylnaphthalene	ND	0.0050	0.0025	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0050	0.0025	mg/kg	
91-20-3	Naphthalene	ND	0.0025	0.0019	mg/kg	
129-00-0	Pyrene	ND	0.0050	0.0025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	46%		10-130%
4165-60-0	Nitrobenzene-d5	71%		10-130%
1718-51-0	Terphenyl-d14	78%		10-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	
<b>Lab Sample ID:</b> DA73563-2	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846-8015C SW846 3570	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP082221.D	1	07/14/25 05:38	JB	07/11/25 10:30	OP28016	GFP2442
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

### DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28) <sup>a</sup>	ND	4.8	4.6	mg/kg	
	TPH-ORO (> C28-C36)	ND	7.2	6.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		20-142%

(a) Associated CCV outside of control limits high, sample was ND.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-2	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	4.6	0.25	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Barium	203	2.5	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	0.14	0.13	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Copper	9.3	2.5	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	10.4	0.63	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Nickel	11.8	2.5	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Selenium	< 0.50	0.50	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	< 0.13	0.13	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	42.1	13	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA19368

(2) Prep QC Batch: MP41894

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-2	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>%solids</b>							
Solids, Percent	78.9		%	1	07/11/25	JL	SM2540G-2011 M
<b>pH-saturated paste method</b>							
pH	8.41		su	1	07/12/25 10:18	SG	WREP-125,4E-SATPASTE
<b>prep: DEPT.OF AG, BOOK N9</b>							
Specific Conductivity	0.27	0.0010	mmhos/cm	1	07/12/25 12:00	SG	SM 2510B-2011 MOD
Chromium, Hexavalent <sup>a</sup>	< 0.52	0.52	mg/kg	1	07/22/25 13:02	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'		<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-2A		<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6		

### SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	39.1	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Magnesium	8.04	3.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Sodium	17.2	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>

(1) Instrument QC Batch: MA19347

(2) Prep QC Batch: MP41896

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-2A	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio <sup>a</sup>	0.654		ratio	1	07/14/25 16:08	BR	USDA HANDBOOK 60

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B01@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-2B	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.9
<b>Project:</b> TASMCOA: Zisch 23-6	

### Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	07/11/25	07/15/25 BR	SW846 6010C <sup>1</sup>	HWS-B <sup>2</sup>

(1) Instrument QC Batch: MA19352

(2) Prep QC Batch: MP41893

---

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'	
<b>Lab Sample ID:</b> DA73563-3	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V92303.D	1	07/11/25 16:41	MB	n/a	n/a	V5V4432
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.39 g	5.0 ml
Run #2		

### VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0012	0.00058	mg/kg	
100-41-4	Ethylbenzene	ND	0.0023	0.00058	mg/kg	
108-88-3	Toluene	ND	0.0023	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0023	0.0010	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0023	0.0010	mg/kg	
	m,p-Xylene	ND	0.0023	0.0021	mg/kg	
95-47-6	o-Xylene	ND	0.0023	0.00081	mg/kg	
1330-20-7	Xylene (total)	ND	0.0023	0.0021	mg/kg	
	TPH-GRO (C6-C10)	ND	0.23	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'	
<b>Lab Sample ID:</b> DA73563-3	<b>Date Sampled:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/10/25
<b>Method:</b> SW846-8015C SW846 3570	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FP082222.D	1	07/14/25 05:53	JB	07/11/25 10:30	OP28016	GFP2442
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.8 g	10.0 ml
Run #2		

**DRO C10-C28, ORO > C28-C36**

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28) <sup>a</sup>	ND	4.3	4.1	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.5	5.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		20-142%

(a) Associated CCV outside of control limits high, sample was ND.

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-3	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	4.6	0.24	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Barium	257	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	0.14	0.12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Copper	9.5	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	10.4	0.59	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Nickel	11.7	2.4	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Selenium	< 0.47	0.47	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver	< 0.12	0.12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	42.2	12	mg/kg	10	07/11/25	07/18/25 GS	SW846 6020B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA19368

(2) Prep QC Batch: MP41894

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-3	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
<b>%solids</b>							
Solids, Percent	80.1		%	1	07/11/25	JL	SM2540G-2011 M
<b>pH-saturated paste method</b>							
pH	8.43		su	1	07/12/25 10:18	SG	WREP-125,4E-SATPASTE
<b>prep: DEPT.OF AG, BOOK N9</b>							
Specific Conductivity	0.26	0.0010	mmhos/cm	1	07/12/25 12:00	SG	SM 2510B-2011 MOD
Chromium, Hexavalent <sup>a</sup>	< 0.52	0.52	mg/kg	1	07/22/25 13:25	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'		<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-3A		<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6		

### SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	37.7	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Magnesium	7.60	3.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>
Sodium	16.8	6.0	mg/l	1	07/11/25	07/14/25 BR	SW846 6010C <sup>1</sup>	USDA HANDBOOK 60 <sup>2</sup>

(1) Instrument QC Batch: MA19347

(2) Prep QC Batch: MP41896

RL = Reporting Limit

## Report of Analysis



<b>Client Sample ID:</b> FL-B02@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-3A	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio <sup>a</sup>	0.652		ratio	1	07/14/25 16:09	BR	USDA HANDBOOK 60

(a) Calculated as:  $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FL-B02@4'	<b>Date Sampled:</b> 07/10/25
<b>Lab Sample ID:</b> DA73563-3B	<b>Date Received:</b> 07/10/25
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.1
<b>Project:</b> TASMCOA: Zisch 23-6	

### Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	07/11/25	07/15/25 BR	SW846 6010C <sup>1</sup>	HWS-B <sup>2</sup>

(1) Instrument QC Batch: MA19352

(2) Prep QC Batch: MP41893

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RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## SGS Sample Receipt Summary

Job Number: da73563

Client: TASMAN/CIVITAS

Project: ZISCH 23-6

Date / Time Received: 7/10/2025 2:20:00 PM

Delivery Method: hd

Airbill #'s: \_\_\_\_\_

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

**Cooler Informatio**

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:
- 3. Temp criteria achieved:
- 4. Cooler temp verification: IR Gun
- 5. Cooler media: Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:

W or S N/A

- 3. Type of TB Received

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles:
- 2. Samples presented properly
- 3. Sufficient volume/containers recv'd for analysi
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT
- 6. Dates/Times/IDs on COC match sample labe
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar Received?
- 12. Residual Chlorine Present?

**Misc Information**

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals

Test Strip Lot #: pH 0-3: \_\_\_\_\_

pH 10-12: \_\_\_\_\_ Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot \_\_\_\_\_

Comments

SM001

Rev. Date 05/04/17

Technician: JEREMYD

Date: 7/10/2025 2:24:22 PM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

DA73563: Chain of Custody

Page 2 of 2

4.1  
4

MS Volatiles

QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4432-MB	5V92293.D	1	07/11/25	MB	n/a	n/a	V5V4432

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.90	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.90	ug/kg	
	m,p-Xylene	ND	2.0	1.8	ug/kg	
95-47-6	o-Xylene	ND	2.0	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.8	ug/kg	
	TPH-GRO (C6-C10)	ND	200	120	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 70-130%
2037-26-5	Toluene-D8	99% 70-130%
460-00-4	4-Bromofluorobenzene	106% 70-130%
17060-07-0	1,2-Dichloroethane-D4	103% 70-130%

# Blank Spike Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4432-BS	5V92291.D	1	07/11/25	MB	n/a	n/a	V5V4432

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	50.8	102	70-130
100-41-4	Ethylbenzene	50	50.4	101	70-130
108-88-3	Toluene	50	51.0	102	70-130
95-63-6	1,2,4-Trimethylbenzene	50	48.8	98	70-130
108-67-8	1,3,5-Trimethylbenzene	50	49.6	99	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	49.8	100	70-130
1330-20-7	Xylene (total)	150	152	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-130%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V4432-BS	5V92292.D	1	07/11/25	MB	n/a	n/a	V5V4432

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	2400	120	50-200

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73481-1MS	5V92296.D	1	07/11/25	MB	n/a	n/a	V5V4432
DA73481-1MSD	5V92297.D	1	07/11/25	MB	n/a	n/a	V5V4432
DA73481-1	5V92294.D	1	07/11/25	MB	n/a	n/a	V5V4432

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	DA73481-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	54.6	48.0	88	51.1	53.5	105	11	43-130/30
100-41-4	Ethylbenzene	ND	54.6	47.0	86	51.1	38.0	74	21	15-145/30
108-88-3	Toluene	ND	54.6	47.7	87	51.1	34.5	67	32* <sup>a</sup>	37-130/30
95-63-6	1,2,4-Trimethylbenzene	ND	54.6	46.5	85	51.1	35.0	68	28	5-177/30
108-67-8	1,3,5-Trimethylbenzene	ND	54.6	47.0	86	51.1	33.7	66	33* <sup>a</sup>	6-159/30
	m,p-Xylene	ND	109	95.6	88	102	77.9	76	20	21-142/30
95-47-6	o-Xylene	ND	54.6	46.9	86	51.1	41.7	82	12	25-140/30
1330-20-7	Xylene (total)	ND	164	142	87	153	120	78	17	17-142/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73481-1	Limits
1868-53-7	Dibromofluoromethane	103%	181%* <sup>b</sup>	103%	70-130%
2037-26-5	Toluene-D8	97%	77%	98%	70-130%
460-00-4	4-Bromofluorobenzene	100%	84%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	164%* <sup>b</sup>	104%	70-130%

(a) Outside control limits biased high due to ISTD low for MSD. Analyte recoveries within limits.

(b) The internal standard is low; results may be bias high.

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA73481-3MS	5V92298.D	1	07/11/25	MB	n/a	n/a	V5V4432
DA73481-3MSD	5V92299.D	1	07/11/25	MB	n/a	n/a	V5V4432
DA73481-3	5V92295.D	1	07/11/25	MB	n/a	n/a	V5V4432

The QC reported here applies to the following samples:

Method: SW846 8260B

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	DA73481-3 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2050	ND	0* a	1930	2020	104	200* b	5-200/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73481-3	Limits
1868-53-7	Dibromofluoromethane	173%* c	106%	103%	70-130%
2037-26-5	Toluene-D8	77%	98%	97%	70-130%
460-00-4	4-Bromofluorobenzene	93%	102%	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	164%* c	107%	104%	70-130%

- (a) Outside control limits due to poor purge.
- (b) Outside control limits biased high due to ISTD low for MS. Analyte recovery within limits.
- (c) Outside control limits due to poor purge and ISTD low.

\* = Outside of Control Limits.

5.3.2  
5

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28041-MB	6G18829.D	1	07/16/25	TH	07/16/25	OP28041	E6G708

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	2.0	ug/kg	
120-12-7	Anthracene	ND	4.0	2.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	3.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	2.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	2.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	2.0	ug/kg	
218-01-9	Chrysene	ND	4.0	2.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	2.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	2.0	ug/kg	
86-73-7	Fluorene	ND	4.0	2.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	2.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	2.0	1.5	ug/kg	
129-00-0	Pyrene	ND	4.0	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
321-60-8	2-Fluorobiphenyl	66%	10-130%
4165-60-0	Nitrobenzene-d5	69%	10-130%
1718-51-0	Terphenyl-d14	79%	10-130%

# Blank Spike Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28041-BS	6G18830.D	1	07/16/25	TH	07/16/25	OP28041	E6G708

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	200	177	89	31-130
120-12-7	Anthracene	200	186	93	46-134
56-55-3	Benzo(a)anthracene	200	174	87	52-135
205-99-2	Benzo(b)fluoranthene	200	200	100	50-136
207-08-9	Benzo(k)fluoranthene	200	178	89	52-134
50-32-8	Benzo(a)pyrene	200	195	98	50-130
218-01-9	Chrysene	200	184	92	51-131
53-70-3	Dibenzo(a,h)anthracene	200	198	99	49-136
206-44-0	Fluoranthene	200	180	90	51-137
86-73-7	Fluorene	200	175	88	38-130
193-39-5	Indeno(1,2,3-cd)pyrene	200	200	100	50-139
90-12-0	1-Methylnaphthalene	200	176	88	18-130
91-57-6	2-Methylnaphthalene	200	177	89	16-130
91-20-3	Naphthalene	200	158	79	5-130
129-00-0	Pyrene	200	187	94	48-136

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	79%	10-130%
4165-60-0	Nitrobenzene-d5	84%	10-130%
1718-51-0	Terphenyl-d14	93%	10-130%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28041-MS	6G18831.D	1	07/16/25	TH	07/16/25	OP28041	E6G708
OP28041-MSD	6G18832.D	1	07/16/25	TH	07/16/25	OP28041	E6G708
DA73563-1	6G18838.D	1	07/16/25	TH	07/16/25	OP28041	E6G708

The QC reported here applies to the following samples:

Method: SW846 8270E

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	DA73563-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	235	204	87	235	211	90	3	12-130/52
120-12-7	Anthracene	ND	235	225	96	235	224	95	0	31-130/60
56-55-3	Benzo(a)anthracene	ND	235	216	92	235	213	91	1	34-130/60
205-99-2	Benzo(b)fluoranthene	ND	235	232	99	235	244	104	5	10-168/60
207-08-9	Benzo(k)fluoranthene	ND	235	224	95	235	220	94	2	30-130/60
50-32-8	Benzo(a)pyrene	ND	235	238	101	235	235	100	1	10-179/60
218-01-9	Chrysene	ND	235	223	95	235	224	95	0	34-130/60
53-70-3	Dibenzo(a,h)anthracene	ND	235	244	104	235	240	102	2	20-138/60
206-44-0	Fluoranthene	ND	235	226	96	235	221	94	2	32-130/60
86-73-7	Fluorene	ND	235	217	92	235	224	95	3	20-130/60
193-39-5	Indeno(1,2,3-cd)pyrene	ND	235	242	103	235	237	101	2	17-148/60
90-12-0	1-Methylnaphthalene	ND	235	209	89	235	216	92	3	10-130/41
91-57-6	2-Methylnaphthalene	ND	235	202	86	235	214	91	6	14-130/40
91-20-3	Naphthalene	ND	235	185	79	235	191	81	3	10-130/40
129-00-0	Pyrene	ND	235	224	95	235	225	96	0	31-130/60

CAS No.	Surrogate Recoveries	MS	MSD	DA73563-1	Limits
321-60-8	2-Fluorobiphenyl	65%	69%	55%	10-130%
4165-60-0	Nitrobenzene-d5	76%	85%	71%	10-130%
1718-51-0	Terphenyl-d14	94%	95%	79%	10-130%

\* = Outside of Control Limits.

## GC/LC Semi-volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28016-MB	FP082183.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	4.0	3.8	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.0	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	100% 20-142%

7.1.1  
7

# Blank Spike Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28016-BS	FP082184.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	179	90	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	90%	20-142%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28016-BS2	FP082185.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	197	99	70-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	95%	20-142%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28016-MS1	FP082186.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442
OP28016-MSD1	FP082187.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442
DA73534-6	FP082190.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	DA73534-6 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	9.37	191	167	82	204	171	79	2	59-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73534-6	Limits
84-15-1	o-Terphenyl	107%	104%	107%	20-142%

\* = Outside of Control Limits.

7.3.1  
7

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** DA73563  
**Account:** CIVITCOW Civitas  
**Project:** TASMCOA: Zisch 23-6

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28016-MS2	FP082188.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442
OP28016-MSD2	FP082189.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442
DA73534-7	FP082191.D	1	07/13/25	JB	07/11/25	OP28016	GFP2442

The QC reported here applies to the following samples:

Method: SW846-8015C

DA73563-1, DA73563-2, DA73563-3

CAS No.	Compound	DA73534-7 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-ORO (> C28-C36)	ND	187	179	96	182	186	102	4	70-153/30

CAS No.	Surrogate Recoveries	MS	MSD	DA73534-7	Limits
84-15-1	o-Terphenyl	106%	107%	108%	20-142%

\* = Outside of Control Limits.

7.3.2  
7

## Metals Analysis

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41893  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	9.9	75		
Antimony	150	30	34		
Arsenic	130	11	23		
Barium	50	.95	6.5		
Beryllium	50	.5	6.5		
Boron	250	6.3	32	-2.5	<250
Cadmium	50	1.1	6.5		
Calcium	2000	28	250		
Chromium	50	3.4	6.5		
Cobalt	25	4.1	3.2		
Copper	50	2.5	6.5		
Iron	350	9.3	60		
Lead	250	21	32		
Lithium	25	10	6.5		
Magnesium	1000	35	130		
Manganese	25	.85	3.2		
Molybdenum	50	13	14		
Nickel	150	5.7	19		
Phosphorus	500	58	80		
Potassium	5000	180	630		
Selenium	250	46	110		
Silicon	1000	210	750		
Silver	150	2.8	19		
Sodium	2000	43	250		
Strontium	25	.5	3.2		
Thallium	50	30	22		
Tin	300	17	260		
Titanium	50	2.2	6.5		
Uranium	250	57	43		
Vanadium	50	5.2	6.5		
Zinc	150	3.4	19		

Associated samples MP41893: DA73563-1B, DA73563-2B, DA73563-3B

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

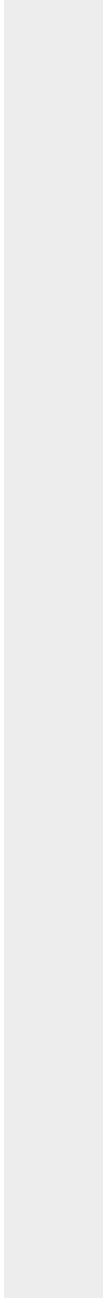
QC Batch ID: MP41893  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.1.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41893  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25 07/11/25

Metal	DA73565-10B Original DUP		RPD	QC Limits	DA73565-10B Original MS		Spikelot ICPAL6	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	229	208	9.6	0-20	229	9940	10000	97.1	75-125
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Phosphorus									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Uranium									
Vanadium									
Zinc									

Associated samples MP41893: DA73563-1B, DA73563-2B, DA73563-3B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

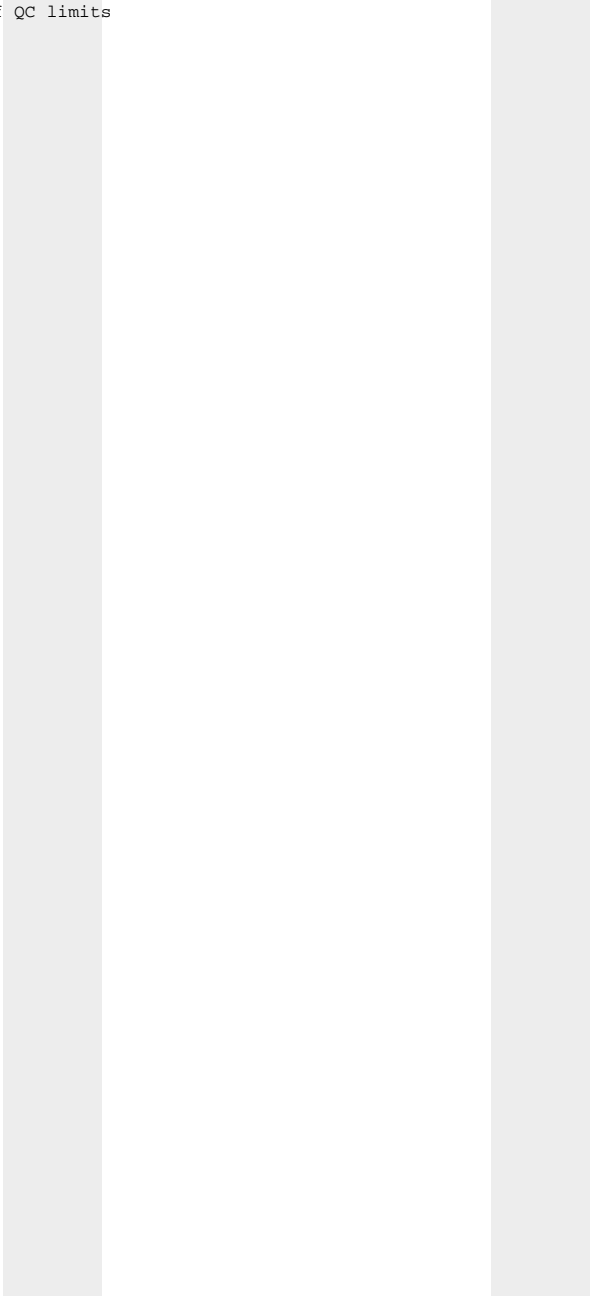
QC Batch ID: MP41893  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25 07/11/25

Metal	DA73565-10B Original DUP	RPD	QC Limits	DA73565-10B Original MS	Spikelot ICPALL6	% Rec	QC Limits
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(N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested



8.1.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41893  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	8630	10000	86.3	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41893: DA73563-1B, DA73563-2B, DA73563-3B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

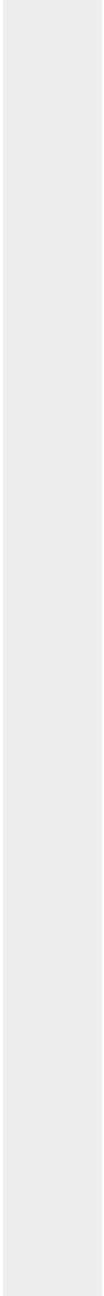
QC Batch ID: MP41893  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
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(anr) Analyte not requested



SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41893  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10B Original SDL 1:5	%DIF	QC Limits
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Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron	45.8	51.6	12.7 (a) 0-10
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Phosphorus			
Potassium			
Selenium			
Silicon			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Uranium			
Vanadium			
Zinc			

Associated samples MP41893: DA73563-1B, DA73563-2B, DA73563-3B

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.1.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41893  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10B	QC
	Original SDL 1:5 %DIF	Limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41894  
Matrix Type: SOLID

Methods: SW846 6020B  
Units: mg/kg

Prep Date: 07/11/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.1	5		
Antimony	0.40	.0027	.05		
Arsenic	0.20	.004	.05	0.014	<0.20
Barium	2.0	.081	.24	0.022	<2.0
Beryllium	0.20	.015	.04		
Cadmium	0.10	.024	.04	-0.012	<0.10
Calcium	400	.13	30		
Chromium	2.0	.038	.6		
Cobalt	0.20	.0016	.025		
Copper	2.0	.23	.25	0.0097	<2.0
Iron	20	.069	15		
Lead	0.50	.0078	.2	0.011	<0.50
Magnesium	100	.12	10		
Manganese	1.0	.0099	.2		
Molybdenum	1.0	.0029	.27		
Nickel	2.0	.029	.2	-0.015	<2.0
Phosphorus	60	21	25		
Potassium	200	1.7	25		
Selenium	0.40	.0096	.05	0.0029	<0.40
Silver	0.10	.001	.03	0.00060	<0.10
Sodium	500	1.2	30		
Strontium	20	.0047	1		
Thallium	0.20	.0028	.04		
Tin	10	.027	4		
Titanium	2.0	.0065	.3		
Uranium	0.20	.001	.1		
Vanadium	1.0	.035	.2		
Zinc	10	.1	1	-0.25	<10

Associated samples MP41894: DA73563-1, DA73563-2, DA73563-3

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

8.2.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41894  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/11/25

Metal	DA73563-1 Original MS		Spike ICPMS6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	3.4	119	119	97.4	75-125
Barium	35.2	273	237	100.2	75-125
Beryllium					
Cadmium	0.031	62.2	59.4	104.7	75-125
Calcium					
Chromium					
Cobalt					
Copper	2.9	110	59.4	180.4N(a)	75-125
Iron					
Lead	7.5	132	119	104.9	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	8.9	85.8	59.4	129.6N(a)	75-125
Phosphorus					
Potassium					
Selenium	0.16	113	119	95.0	75-125
Silver	0.041	24.6	23.7	103.4	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	28.0	86.1	59.4	97.9	75-125

Associated samples MP41894: DA73563-1, DA73563-2, DA73563-3

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41894  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/11/25

Metal	DA73563-1 Original MSD		SpikeLot ICPMS6 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	3.4	103	112	88.9	14.4	20
Barium	35.2	243	224	92.7	11.6	20
Beryllium						
Cadmium	0.031	54.9	56	97.9	12.5	20
Calcium						
Chromium						
Cobalt						
Copper	2.9	53.7	56	90.7	68.8 (a)	20
Iron						
Lead	7.5	119	112	99.5	10.4	20
Magnesium						
Manganese						
Molybdenum						
Nickel	8.9	58.4	56	88.3	38.0 (a)	20
Phosphorus						
Potassium						
Selenium	0.16	99.7	112	88.8	12.5	20
Silver	0.041	21.8	22.4	97.1	12.1	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	28.0	76.4	56	86.4	11.9	20

Associated samples MP41894: DA73563-1, DA73563-2, DA73563-3

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41894  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: mg/kg

Prep Date: 07/11/25

Metal	BSP Result	Spikelot ICPMS6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	98.5	100	98.5	80-120
Barium	194	200	97.0	80-120
Beryllium				
Cadmium	49.8	50	99.6	80-120
Calcium				
Chromium				
Cobalt				
Copper	49.8	50	99.6	80-120
Iron				
Lead	99.5	100	99.5	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	49.5	50	99.0	80-120
Phosphorus				
Potassium				
Selenium	97.6	100	97.6	80-120
Silver	19.7	20	98.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	48.4	50	96.8	80-120

Associated samples MP41894: DA73563-1, DA73563-2, DA73563-3

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

8.2.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41894  
 Matrix Type: SOLID

Methods: SW846 6020B  
 Units: ug/l

Prep Date: 07/11/25

Metal	DA73563-1 Original SDL 10:50%DIF		QC Limits	
Aluminum				
Antimony				
Arsenic	28.7	30.7	6.9	0-20
Barium	297	309	4.3	0-20
Beryllium				
Cadmium	0.261	0.00	100.0 (a)	0-20
Calcium				
Chromium				
Cobalt				
Copper	24.7	27.3	10.8	0-20
Iron				
Lead	63.0	64.0	1.6	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	74.6	78.8	5.6	0-20
Phosphorus				
Potassium				
Selenium	1.31	1.70	29.2 (a)	0-20
Silver	0.342	0.329	3.8	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	236	248	5.3	0-20

Associated samples MP41894: DA73563-1, DA73563-2, DA73563-3

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.2.4  
8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1500	30	230		
Antimony	450	90	100		
Arsenic	380	34	69		
Barium	150	2.9	20		
Beryllium	150	1.5	20		
Boron	750	19	95		
Cadmium	150	3.2	20		
Calcium	6000	84	750	224	<6000
Chromium	150	10	20		
Cobalt	75	12	9.5		
Copper	150	7.4	20		
Iron	1100	28	180		
Lead	750	63	95		
Lithium	75	30	20		
Magnesium	3000	110	380	7.5	<3000
Manganese	75	2.6	9.5		
Molybdenum	150	38	42		
Nickel	450	17	57		
Phosphorus	1500	170	240		
Potassium	15000	540	1900		
Selenium	750	140	320		
Silicon	3000	620	2300		
Silver	450	8.4	57		
Sodium	6000	130	750	327	<6000
Strontium	75	1.5	9.5		
Thallium	150	91	65		
Tin	900	51	770		
Titanium	150	6.5	20		
Uranium	750	170	130		
Vanadium	150	15	20		
Zinc	450	10	57		

Associated samples MP41896: DA73563-1A, DA73563-2A, DA73563-3A

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

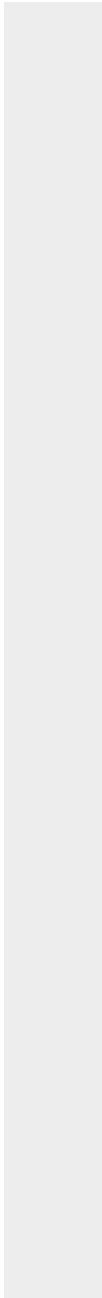
QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	RL	IDL	MDL	MB raw	final
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(anr) Analyte not requested



8.3.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41896  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A Original MS	Spikelot ICPAL6	% Rec	QC Limits	
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	57100	385000	375000	87.4	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	10100	334000	375000	86.4	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	105000	426000	375000	85.6	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP41896: DA73563-1A, DA73563-2A, DA73563-3A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

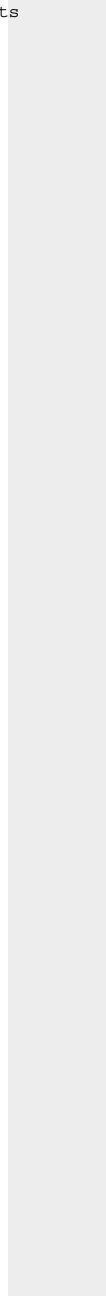
QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A Original MS	SpikeLot ICPAL6	% Rec	QC Limits
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(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41896  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A Original MSD	Spikelot ICPAL6	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	57100	384000	375000	87.2	0.3	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	10100	333000	375000	86.1	0.3	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	105000	422000	375000	84.5	0.9	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP41896: DA73563-1A, DA73563-2A, DA73563-3A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMOA: Zisch 23-6

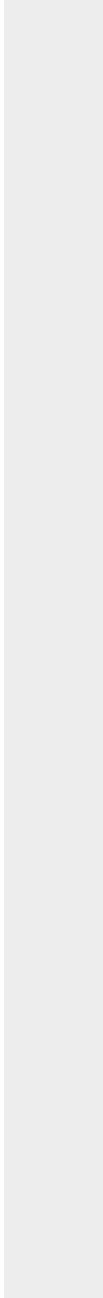
QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A Original MSD	SpikeLot ICPAL6 % Rec	MSD RPD	QC Limit
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(N) Matrix Spike Rec. outside of QC limits  
(anr) Analyte not requested



8.3.2  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41896  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	336000	375000	89.6	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	330000	375000	88.0	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	330000	375000	88.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41896: DA73563-1A, DA73563-2A, DA73563-3A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.3  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

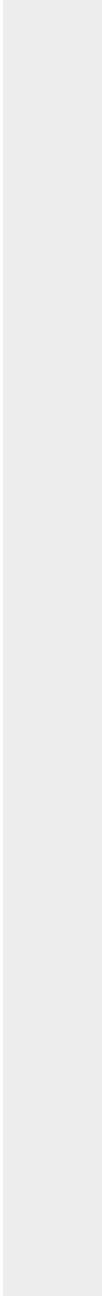
QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
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(anr) Analyte not requested



8.3.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73563  
 Account: CIVITCOW - Civitas  
 Project: TASMCOA: Zisch 23-6

QC Batch ID: MP41896  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	3810	3680	3.3	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	673	679	1.0	0-10
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	6980	6810	2.4	0-10
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP41896: DA73563-1A, DA73563-2A, DA73563-3A

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits

8.3.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

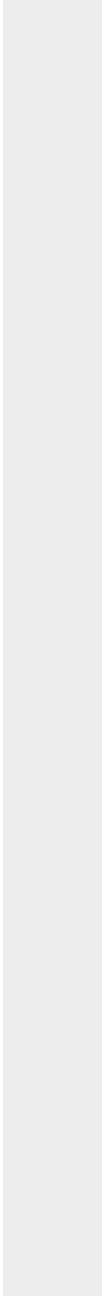
QC Batch ID: MP41896  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 07/11/25

Metal	DA73565-10A	QC
	Original SDL 1:5 %DIF	Limits

(anr) Analyte not requested



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMSOA: Zisch 23-6

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP38976/GN67855			mmhos/cm	1.409	1.4	100.1	90-110%

Associated Samples:

Batch GP38976: DA73563-1, DA73563-2, DA73563-3

(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73563  
Account: CIVITCOW - Civitas  
Project: TASMCOA: Zisch 23-6

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GP38976/GN67855	DA73565-9	mmhos/cm	1.2	1.1	2.3	0-20%
pH	GN67850	DA73565-9	su	8.13	8.12	0.1	0-5%

Associated Samples:

Batch GN67850: DA73563-1, DA73563-2, DA73563-3

Batch GP38976: DA73563-1, DA73563-2, DA73563-3

(\*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsususa

SO

FED EX Tracking #
SGS Quote #
Both Order Control #
SGS Job #

Client / Reporting Information
Project Information
Requested Analysis ( see TEST CODE sheet)
Matrix Codes

Table with columns: Sample #, Field ID / Point of Collection, MECH/ID Vial #, Date, Time, Sampled by, Matrix, # of bottles, and various analysis codes (HCl, NH3, HPO4, HPO3, HPO2, HPO1, NONE, DNAPL, MICH, ENCORE). Includes handwritten 'X' marks in the 'Requested Analysis' column.

Turnaround Time ( Business days)
Data Deliverable Information
Comments / Special Instructions
Initial Assessment Label Verification

Sample Custody must be documented below each time samples change possession, including courier delivery.
Relinquished By: Date Time: Received By: Date Time:
Relinquished By: Date Time: Received By: Date Time:
Relinquished By: Date Time: Received By: Date Time:
Custody Seal # Intact Not Intact Preserved where applicable Therm. ID On Ice Cooler Temp.

10.1 10



## SGS Sample Receipt Summary

Job Number: DA73563

Client: SGS NORTH AMERICA INC

Project: TASMCOA: ZISCH 23-6

Date / Time Received: 7/12/2025 9:50:00 AM

Delivery Method: SGS COURIER

Airbill #'s: 7444-9077-4958

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

**Cooler Security**

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. SmpI Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>IR-50</u>                        |                          |
| 3. Cooler media:             | <u>Ice (Bag)</u>                    |                          |
| 4. No. Coolers:              | <u>1</u>                            |                          |

**Quality Control Preservatio**

Y or N

N/A

- |                                 |                                     |                                     |                                     |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. VOCs headspace free:         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Sample Integrity - Documentation**

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Condition**

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | <u>Intact</u>                       |                          |

**Sample Integrity - Instructions**

Y or N

N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instrctdns clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: <u>231619</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03  
Rev. Date 12/7/17

10.1 10

## General Chemistry

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### QC Data Summaries

(SGS Dayton, NJ)

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73563  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CIVITCOW: TASMCOA: Zisch 23-6

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP62565/GN71218	0.40	0.0	mg/kg	40	38.2	95.5	80-120%
Chromium, Hexavalent	GP62565/GN71218			mg/kg	779	701	90.0	80-120%

Associated Samples:

Batch GP62565: DA73563-1, DA73563-2, DA73563-3

(\*) Outside of QC limits

11.1  
11

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73563  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CIVITCOW: TASMCOA: Zisch 23-6

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP62565/GN71218	DA73542-10	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:

Batch GP62565: DA73563-1, DA73563-2, DA73563-3

(\*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA73563  
Account: ALMS - SGS Wheat Ridge, CO  
Project: CIVITCOW: TASMCOA: Zisch 23-6

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP62565/GN71218	DA73542-10	mg/kg	0.0	47	41.5	88.4 (a)	75-125%
Chromium, Hexavalent	GP62565/GN71218	DA73542-10	mg/kg	0.0	895	834	93.1 (b)	75-125%

Associated Samples:

Batch GP62565: DA73563-1, DA73563-2, DA73563-3

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Good recovery on soluble XCR matrix spike. Good recovery (xxx.x%) on the post-spike.

(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.