

231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

October 19, 2023

Ms. Jennifer Jermalowicz-Jones Restorative Lake Sciences 18406 W. Spring Lake Rd. Spring Lake, MI 49456

RE: Trace Project 23I1360

Client Project Houghton Lake Herbicides

Dear Ms. Jermalowicz-Jones:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

The results were obtained from Summit Environmental Technologies, Inc..

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink

Senior Project Manager

**Enclosures** 



231-773-5998 Phone 888-979-4469 Fax www.trace-labs.com

#### **SAMPLE SUMMARY**

Trace Project ID: 23I1360

Client Project ID: Houghton Lake Herbicides

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
23I1360-01	23-501 (MG1)	Solid	GS/LG/BS	08/30/23 10:24	08/31/23 09:06
2311360-02	23-502 (MG2)	Solid	GS/LG/BS	08/30/23 10:33	08/31/23 09:06
2311360-03	23-503 (MG3)	Solid	GS/LG/BS	08/30/23 10:40	08/31/23 09:06
2311360-04	23-504 (MG4)	Solid	GS/LG/BS	08/30/23 10:48	08/31/23 09:06
2311360-05	23-505 (MG5)	Solid	GS/LG/BS	08/30/23 11:01	08/31/23 09:06
2311360-06	23-506 (MG6)	Solid	GS/LG/BS	08/30/23 11:07	08/31/23 09:06
2311360-07	23-507 (SW1)	Solid	GS/LG/BS	08/30/23 11:45	08/31/23 09:06
2311360-08	23-508 (SW2)	Solid	GS/LG/BS	08/30/23 11:52	08/31/23 09:06
2311360-09	23-509 (SW3)	Solid	GS/LG/BS	08/30/23 11:57	08/31/23 09:06
2311360-10	23-510 (SW4)	Solid	GS/LG/BS	08/30/23 12:03	08/31/23 09:06
2311360-11	23-511 (SW5)	Solid	GS/LG/BS	08/30/23 12:07	08/31/23 09:06
2311360-12	23-512 (SW6)	Solid	GS/LG/BS	08/30/23 12:12	08/31/23 09:06



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: http://www.settek.com

October 16, 2023

Jon Mink

Trace Analytical Laboratories, Inc.

2241 Black Creek Road

Muskegon, MI 49444

TEL: (231) 773-5998 FAX: (231) 773-6537

23I1360 RE:

Order No.: 23100177 Dear Jon Mink:

Summit Environmental Technologies, Inc. received 12 sample(s) on 10/3/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea

Project Manager

3310 Win St.

Cuyahoga Falls, Ohio 44223

BULH Krea

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com **Case Narrative** 

WO#: **23100177**Date: **10/16/2023** 

**CLIENT:** Trace Analytical Laboratories, Inc.

**Project:** 23I1360

#### WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

#### WorkOrder Comments:

23100177: State required accreditation not specified; results may not be reported as certified data.

#### Analytical Sequence Sample Notes:

23100177-001 through 006 SVOC-Herb\_S(8321M): Hold time for sample preparation and analysis was exceeded. Possible low bias for Triclopyr due to low LCS recovery for Triclopyr, which was confimed by reanalysis. Insufficient sample left for reprep/reanalysis.

23100177-007 through 012 SVOC-Herb\_S(8321M): Hold time for sample preparation and analysis was exceeded. Analytical Sequence's Prep Method hold time was exceeded by 22 days.



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com Workorder Sample Summary

WO#: **23100177** *16-Oct-23* 

**CLIENT:** Trace Analytical Laboratories, Inc.

**Project:** 23I1360

Lab SampleID	Client Sample ID	Tag No	<b>Date Collected</b>	Date Received	Matrix
23100177-001	23I1360-01		8/30/2023 10:24:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-002	23I1360-02		8/30/2023 10:33:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-003	23I1360-03		8/30/2023 10:40:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-004	23I1360-04		8/30/2023 10:48:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-005	23I1360-05		8/30/2023 11:01:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-006	23I1360-06		8/30/2023 11:07:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-007	23I1360-07		8/30/2023 11:45:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-008	23I1360-08		8/30/2023 11:52:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-009	23I1360-09		8/30/2023 11:57:00 AM	10/3/2023 10:10:00 AM	Solid
23100177-010	23I1360-10		8/30/2023 12:03:00 PM	10/3/2023 10:10:00 AM	Solid
23100177-011	23I1360-11		8/30/2023 12:07:00 PM	10/3/2023 10:10:00 AM	Solid
23100177-012	23I1360-12		8/30/2023 12:12:00 PM	10/3/2023 10:10:00 AM	Solid



Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com **Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 10:24:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-001 **Matrix:** SOLID

Client Sample ID: 23I1360-01

Analyses	Result	PQL Qual	Units	DF Da	ate Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549.2	Analyst: <b>PGP</b>
Diquat	ND	2	mg/Kg	1 1	10/13/2023 7:15:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED			SW8321A	SW8321	Analyst: MTG
Triclopyr Surr: 2,4-Dichlorophenylacetic aci	ND 74.4	0.509 UHQL- 70 - 130 H	- mg/Kg %Rec		10/9/2023 9:00:00 AM 10/5/2023 11:55:50 PM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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**Analytical Report** 

(consolidated)

WO#: 23100177 Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 10:33:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-002 **Matrix:** SOLID

**Client Sample ID:** 23I1360-02

Analyses	Result	PQL Qual	Units	DF Da	te Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549.2	Analyst: <b>PGP</b>
Diquat	ND	0.7	mg/Kg	1 1	0/13/2023 7:25:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED			SW8321A	SW8321	A Analyst: MTG
Triclopyr Surr: 2,4-Dichlorophenylacetic aci	ND 97.8	0.502 UHQL- 70 - 130 H	mg/Kg %Rec		0/9/2023 9:00:00 AM 0/6/2023 12:44:26 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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Website: http://www.settek.com

**Analytical Report** 

(consolidated)

WO#: 23100177 Date Reported: 10/16/2023

**CLIENT:** Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 10:40:00 AM

**Project:** 23I1360

Lab ID: 23100177-003 Matrix: SOLID

Client Sample ID: 23I1360-03

Analyses	Result	PQL Qual	Units	DF Date	Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549.2	Analyst: <b>PGP</b>
Diquat	ND	0.7 *	mg/Kg	1 10/1	3/2023 7:36:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED	)		SW8321A	SW8321A	Analyst: MTG
Triclopyr	ND	0.494 UHQL	- mg/Kg	10 10/9	9/2023 9:00:00 AM
Surr: 2,4-Dichlorophenylacetic aci	70.9	70 - 130 H	%Rec	10 10/6	5/2023 1:33:03 AM

Holding times for preparation or analysis exceeded Qualifiers:

ND Not Detected

Reporting Detection Limit RL

Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

Permit Limit PL

Samples with CalcVal < MDL



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**Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 10:48:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-004 **Matrix:** SOLID

**Client Sample ID:** 23I1360-04

Analyses	Result	PQL Qual	Units	DF Da	ate Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549.2	Analyst: PGP
Diquat	ND	0.5	mg/Kg	1 1	0/13/2023 7:47:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED			SW8321A	SW8321	A Analyst: MTG
Triclopyr Surr: 2,4-Dichlorophenylacetic aci	ND 74.4	0.499 UHQL- 70 - 130 H	mg/Kg %Rec		0/9/2023 9:00:00 AM 0/6/2023 2:21:39 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com **Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 11:01:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-005 **Matrix:** SOLID

Client Sample ID: 23I1360-05

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549	0.2 Analyst: PGP
Diquat	ND	0.5	mg/Kg	1	10/13/2023 7:58:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED			SW8321A	SW8	321A Analyst: MTG
Triclopyr Surr: 2,4-Dichlorophenylacetic aci	ND 72.2	0.503 UHQL- 70 - 130 H	- mg/Kg %Rec	10 10	10/9/2023 9:00:00 AM 10/6/2023 3:10:16 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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Website: http://www.settek.com

**Analytical Report** 

(consolidated)

WO#: 23100177 Date Reported: 10/16/2023

**Collection Date:** 8/30/2023 11:07:00 AM **CLIENT:** Trace Analytical Laboratories, Inc.

**Project:** 23I1360

Lab ID: 23100177-006 Matrix: SOLID

Client Sample ID: 23I1360-06

Analyses	Result	PQL Qual	Units	DF D	ate Analyzed
DIQUAT AND PARAQUAT BY SV HPLC	(EPA 549.2)		E549.2	E549.2	Analyst: PGP
Diquat	ND	1	mg/Kg	1	10/13/2023 8:08:00 PM
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED			SW8321A	SW832	1A Analyst: MTG
Triclopyr	ND	0.486 UHQL	- mg/Kg	10	10/9/2023 9:00:00 AM
Surr: 2,4-Dichlorophenylacetic aci	75.1	70 - 130 H	%Rec	10	10/6/2023 3:58:53 AM

Holding times for preparation or analysis exceeded Qualifiers:

ND Not Detected

Reporting Detection Limit RL

Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

Permit Limit PL

Samples with CalcVal < MDL



Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com **Analytical Report** 

WO#:

(consolidated) 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 11:45:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-007 **Matrix:** SOLID

Client Sample ID: 23I1360-07

Analyses	Result	PQL (	Qual	Units	DF	Date A	Analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	SW	8321A	Analyst: MTG
2,4-D	ND	0.494	UH	mg/Kg	10	10/6/2	2023 4:47:29 AM
Surr: 2,4-Dichlorophenylacetic aci	70.4	70 - 130	Н	%Rec	10	10/6/2	2023 4:47:29 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u> **Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 11:52:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-008 **Matrix:** SOLID

Client Sample ID: 23I1360-08

Analyses	Result	PQL (	Qual	Units	DF	Date A	Analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	SW	/8321A	Analyst: MTG
2,4-D	ND	0.503	UH	mg/Kg	10	10/6/2	2023 5:36:06 AM
Surr: 2,4-Dichlorophenylacetic aci	85.5	70 - 130	Н	%Rec	10	10/6/2	2023 5:36:06 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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**Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 11:57:00 AM

**Project:** 23I1360

**Lab ID:** 23100177-009 **Matrix:** SOLID

Client Sample ID: 23I1360-09

Analyses	Result	PQL (	Qual	Units	DF	Date A	analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	sw	8321A	Analyst: MTG
2,4-D	ND	0.501	UH	mg/Kg	10	10/6/2	2023 6:24:42 AM
Surr: 2,4-Dichlorophenylacetic aci	91.9	70 - 130	Н	%Rec	10	10/6/2	2023 6:24:42 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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**Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 12:03:00 PM

**Project:** 23I1360

**Lab ID:** 23100177-010 **Matrix:** SOLID

**Client Sample ID:** 23I1360-10

Analyses	Result	PQL (	Qual	Units	DF	Date A	analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	SW	/8321A	Analyst: MTG
2,4-D	ND	0.500	UH	mg/Kg	10	10/6/2	2023 7:13:19 AM
Surr: 2,4-Dichlorophenylacetic aci	84.4	70 - 130	Н	%Rec	10	10/6/2	2023 7:13:19 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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Website: http://www.settek.com

**Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 12:07:00 PM

**Project:** 23I1360

**Lab ID:** 23100177-011 **Matrix:** SOLID

Client Sample ID: 23I1360-11

Analyses	Result	PQL (	Qual	Units	DF	Date A	analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	SW	8321A	Analyst: MTG
2,4-D	ND	0.505	UH	mg/Kg	10	10/6/2	2023 8:01:55 AM
Surr: 2,4-Dichlorophenylacetic aci	103	70 - 130	Н	%Rec	10	10/6/2	2023 8:01:55 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



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**Analytical Report** 

(consolidated)

WO#: 23100177

Date Reported: 10/16/2023

CLIENT: Trace Analytical Laboratories, Inc. Collection Date: 8/30/2023 12:12:00 PM

**Project:** 23I1360

**Lab ID:** 23100177-012 **Matrix:** SOLID

**Client Sample ID:** 23I1360-12

Analyses	Result	PQL (	Qual	Units	DF	Date A	analyzed
HERBICIDES HERBICIDES BY EPA 8321A MODIFIED				SW8321A	sw	/8321A	Analyst: MTG
2,4-D	ND	0.496	UH	mg/Kg	10	10/6/2	2023 8:50:31 AM
Surr: 2,4-Dichlorophenylacetic aci	89.1	70 - 130	Н	%Rec	10	10/6/2	2023 8:50:31 AM

Qualifiers: H Holding times for preparation or analysis exceeded

ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

M Manual Integration used to determine area response

PL Permit Limit

U Samples with CalcVal < MDL



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com

## **QC SUMMARY REPORT**

WO#:

23100177

16-Oct-23

Client: Trace Analytical Laboratories, Inc.

**Project:** 23I1360 **BatchID:** 69300

2311300								ъ	atchid: 6	9300		
Sample ID: MB-68996 Client ID: PBS	SampType: Batch ID:			de: SVOC-Her	b_ Units: mg/Kg SW8321A		Prep Date Analysis Date			RunNo: <b>172</b> SeqNo: <b>463</b>		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D Surr: 2,4-Dichlorophenylace	tic acid	ND 1.08	0.491	0.9817 0.9817	0	0 110	0 70	0 130				U
Sample ID: LCS-68996 Client ID: LCSS	SampType: Batch ID:			de: SVOC-Her	b_ Units: mg/Kg SW8321A		Prep Date Analysis Date			RunNo: <b>172</b> SeqNo: <b>463</b>		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D Surr: 2,4-Dichlorophenylace	tic acid	1.08 1.16	0.509	1.018 1.018	0	107 114	10 70	196 130				
Sample ID: LCSD-68996 Client ID: LCSS02	SampType: Batch ID:			de: SVOC-Her	b_ Units: mg/Kg SW8321A		Prep Date			RunNo: <b>172</b> SeqNo: <b>463</b>		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D Surr: 2,4-Dichlorophenylace	tic acid	1.27 1.19	0.502	1.003 1.003	0	126 119	10 70	196 130	1.085	15.4 0	20 20	

<b>Oualifiers:</b>	В	Analyte detected in the associated Method I	Blank
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J Analyte detected below quantitation limits

RL Reporting Detection Limit

ND Not Detected

PL Permit Limit

E Value above quantitation range

M Manual Integration used to determine area response

OG1

R RPD outside accepted recovery limits

MC Value is below Minimum Compound

P Second column confirmation exceeds



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## **QC SUMMARY REPORT**

WO#:

23100177 16-Oct-23

Client: Trace Analytical Laboratories, Inc.

**Project:** 23I1360 **BatchID: 69429** 

Sample ID: MB-69429	SampType: MBLK	TestCoo	de: SVOC-Her	rb_ Units: %Rec		Prep Da	te: <b>10/9/2</b> 0	)23	RunNo: <b>172</b>	2552	
Client ID: PBS	Batch ID: 69429	TestN	lo: SW8321A	SW8321A		Analysis Da	te: 10/10/2	2023	SeqNo: 465	50265	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4-Dichlorophenylacetic a	cid 0.105		0.1009		104	70	130				

Sample ID: LCS-69429 Client ID: LCSS	SampType: LCS Batch ID: 69429		de: SVOC-Her lo: SW8321A	b_ Units: mg/Kg SW8321A		Prep Da Analysis Da	te: 10/9/20 te: 10/10/2		RunNo: <b>172</b> SeqNo: <b>465</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Triclopyr Surr: 2,4-Dichlorophenylacetic a	0.0646 cid 0.106	0.0493	0.09859 0.09859	0	65.5 108	70 70	130 130				S

Sample ID: LCSD-69429	SampType: <b>LCSD</b>	TestCod	de: SVOC-Her	b_ Units: mg/Kg		Prep Dat	e: <b>10/9/20</b>	23	RunNo: <b>172</b>	2552	
Client ID: LCSS02	Batch ID: 69429	TestN	lo: SW8321A	SW8321A		Analysis Dat	e: <b>10/10/2</b>	023	SeqNo: 465	0267	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Triclopyr Surr: 2,4-Dichlorophenylacetic a	0.0632 acid 0.0918	0.0501	0.1001 0.1001	0	63.1 91.7	70 70	130 130	0.06457	2.21 0	30 20	S

Qualifiers:	В	Analyte detected in the associated Method Blank	E	Value above quantitation range	Н	Holding times for preparation or analy	
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound	0 1
	ND	Not Detected	OG1		P	Second column confirmation exceeds	Original
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	



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## **QC SUMMARY REPORT**

WO#:

23100177

16-Oct-23

Client: Trace Analytical Laboratories, Inc.

**Project:** 23I1360 **BatchID:** 69429

Website: http://www.settek.com

Sample ID: MB-69429 Client ID: PBS	SampType: MBLK Batch ID: 69429		de: SVOC-Herb lo: SW8321A	_ Units: mg/Kg SW8321A		Prep Dat Analysis Dat	te: 10/9/20 te: 10/9/20		RunNo: <b>172</b> SeqNo: <b>46</b> 4		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Triclopyr	ND	0.505									U
Surr: 2,4-Dichlorophenylacetic a	cid 1.07		1.009		106	70	130				

**Qualifiers:** B Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

ND Not Detected

PL Permit Limit

E Value above quantitation range

M Manual Integration used to determine area response

OG1

R RPD outside accepted recovery limits

H Holding times for preparation or analy

MC Value is below Minimum Compound

P Second column confirmation exceeds

RL Reporting Detection Limit



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## **QC SUMMARY REPORT**

WO#:

23100177 16-Oct-23

Client: Trace Analytical Laboratories, Inc.

Project:	23I1360	arytical Euroratories, me.				BatchID: 6	9594	
Sample ID:	MB-69594 PBW	SampType: MBLK Batch ID: 69594	TestCode: svoc_dw(549	9. Units: mg/L E549.2	•	e: 10/13/2023 e: 10/13/2023	RunNo: 172716 SeqNo: 4657472	
Analyte		Result	PQL SPK value S	PK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Diquat		ND	0.002					U
Sample ID:	LCS-69594	SampType: LCS	TestCode: svoc_dw(549	). Units: mg/L	Prep Date	e: 10/13/2023	RunNo: <b>172716</b>	
Client ID:	LCSW	Batch ID: 69594	TestNo: <b>E549.2</b>	E549.2	Analysis Date	e: 10/13/2023	SeqNo: <b>4657473</b>	
Analyte		Result	PQL SPK value S	PK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Diquat		0.02	0.002 0.02	0	101 70	130		
Sample ID:	LCSD-69594	SampType: LCSD	TestCode: svoc_dw(549	). Units: mg/L	Prep Date	e: 10/13/2023	RunNo: <b>172716</b>	
Client ID:	LCSS02	Batch ID: 69594	TestNo: <b>E549.2</b>	E549.2	Analysis Date	e: <b>10/13/2023</b>	SeqNo: <b>4657474</b>	
Analyte		Result	PQL SPK value S	PK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Diquat		0.02	0.002 0.02	0	101 70	130 0.02	0.138 30	
Sample ID:	RLC-69594	SampType: RLC	TestCode: svoc_dw(549	). Units: mg/L	Prep Date	e: 10/13/2023	RunNo: <b>172716</b>	
Client ID:	BatchQC	Batch ID: 69594	TestNo: <b>E549.2</b>	E549.2	Analysis Date	e: <b>10/13/2023</b>	SeqNo: <b>4657475</b>	
Analyte		Result	PQL SPK value S	PK Ref Val	%REC LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Diquat		0.002	0.002 0.002	0	112 50	150		
Qualifiers:	•		M Manual Ir OG1	ove quantitation raintegration used to color	determine area response	MC Value is below Mi	preparation or analy inimum Compound onfirmation exceeds on Limit	Original



Client ID: BatchQC

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**QC SUMMARY REPORT** 

SeqNo: 4657475

WO#: **23100177** 

16-Oct-23

**Client:** Trace Analytical Laboratories, Inc.

Batch ID: 69594

**Project:** 23I1360 **BatchID:** 69594

Website: http://www.settek.com

TestNo: **E549.2** 

Sample ID: RLC-69594 SampType: RLC TestCode: svoc\_dw(549. Units: mg/L Prep Date: 10/13/2023 RunNo: 172716

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

E549.2

Analysis Date: 10/13/2023

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

ND Not Detected

PL Permit Limit

E Value above quantitation range

M Manual Integration used to determine area response

OG1

R RPD outside accepted recovery limits

H Holding times for preparation or analy

MC Value is below Minimum Compound

P Second column confirmation exceeds

RL Reporting Detection Limit

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3310 Win S

Cuyahoga Falls, Ohio 4422 TEL: (330) 253-8211 FAX: (330) 253-448

Website: http://www.settek.co

#### **Qualifiers and Acronyms**

WO#: **23100177**Date: **10/16/2023** 

These commonly used Qualifiers and Acronyms may or may not be present in this report.

#### Qualifiers

II	The compound was an	alvzed for but wa	s not detected
U	The compound was an	aryzeu for but wa	is not actedica.

J The reported value is greater than the Method Detection Limit but less than the Reporting Limit.

**H** The hold time for sample preparation and/or analysis was exceeded.

**D** The result is reported from a dilution.

**E** The result exceeded the linear range of the calibration or is estimated due to interference.

MC The result is below the Minimum Compound Limit.

\* The result exceeds the Regulatory Limit or Maximum Contamination Limit.

m Manual integration was used to determine the area response.

**d** Manual integration in which peak was deleted

N The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.

**P** The second column confirmation exceeded 25% difference.

C The result has been confirmed by GC/MS.

X The result was not confirmed when GC/MS Analysis was performed.

**B/MB**+ The analyte was detected in the associated blank.

**G** The ICB or CCB contained reportable amounts of analyte.

QC-/+ The CCV recovery failed low (-) or high (+).

R/QDR The RPD was outside of accepted recovery limits.

QL-/+ The LCS or LCSD recovery failed low (-) or high (+).

**QLR** The LCS/LCSD RPD was outside of accepted recovery limits.

QM-/+ The MS or MSD recovery failed low (-) or high (+).

**QMR** The MS/MSD RPD was outside of accepted recovery limits.

**QV-/+** The ICV recovery failed low (-) or high (+).

S The spike result was outside of accepted recovery limits.

**Z** Deviation; A deviation from the method was performed; Please refer to the Case Narrative for

additional information

#### Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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#### SUBCONTRACT ORDER

**23I1360** 

23100177

#### SENDING LABORATORY:

Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444 Phone: 231.773.5998 RECEIVING LABORATORY:

Summit Environmental Technologies, Inc. 3310 Win Street

Cuyahoga Falls, OH 44223 Phone :(330) 253-8211 Temp:3.1+

Project Manager: Jon Mink

Note Our New Email address: TraceSubOut@trace-labs.com

PO # 2311360

OK to run past hold

Matrix: Solid

Sampled: 08/30/23 10:24

TAT: Standard

Sample ID: 23-501 (MG1) 23I1360-01

Sampled By: GS/LG/BS

Analysis Needed:

Special Analysis \_\_\_\_.

Comments: Triclopyr & Diquat Dibromide

Matrix: Solid

Sampled: 08/30/23 10:33

TAT: Standard

Sample ID: 23-502 (MG2) 23I1360-02

Sampled By: GS/LG/BS

Analysis Needed:

Special Analysis

Comments: Triclopyr & Diquat Dibromide

Matrix: Solid

Sampled: 08/30/23 10:40

TAT: Standard

Sample ID: 23-503 (MG3) 23I1360-03

Sampled By: GS/LG/BS

Analysis Needed:

Special Analysis

Comments: Triclopyr & Diquat Dibromide

30X, Cooler, Ice

Released By

Date

Received By

136R 10.1(

Released By

Date

Received By

Date

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## SUBCONTRACT ORDER 23I1360

Sample ID: 23-504 (MG4)	Matrix: Solid 23I1360-04	Sampled: 08/30/23 10:48	TAT: Standard
,			Sampled By: GS/LG/BS
Analysis Needed:			<del></del>
Special Analysis		Comments: Triclopyr & Diquat Dib	romide
Sample ID: 23-505 (MG5)	Matrix: Solid 23I1360-05	Sampled: 08/30/23 11:01	TAT: Standard
•			Sampled By: GS/LG/BS
Analysis Needed:			
Special Analysis		Comments: Triclopyr & Diquat Dit	promide
Sample ID: 23-506 (MG6)	Matrix: Solid 23I1360-06	Sampled: 08/30/23 11:07	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:	<del></del>		
Special Analysis		Comments: Triclopyr & Diquat Dil	promide
Sample ID: 23-507 (SW1)	Matrix: Solid 23I1360-07	Sampled: 08/30/23 11:45	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:			Temp: 3.1 to.
Special Analysis		Comments: 2-4 D Residue	=3.200
		BOX	o, cooper, Ice, UR
Dw All May	9/19/17	Pagainad By	10/3/13 10:10
Released By	Date	Received By	- Date
Released By	Date	Received By	Date



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## SUBCONTRACT ORDER 2311360

Sample ID: 23-508 (SW2)	Matrix: Solid 23I1360-08	Sampled: 08/30/23 11:52	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:			
Special Analysis		Comments: 2-4 D Residue	
Sample ID: 23-509 (SW3)	Matrix: Solid 23I1360-09	Sampled: 08/30/23 11:57	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:			
Special Analysis		Comments: 2-4 D Residue	
Sample ID: 23-510 (SW4)	Matrix: Solid	Sampled: 08/30/23 12:03	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:			
Special Analysis		Comments: 2-4 D Residue	
Sample ID: 23-511 (SW5)	Matrix: Solid 23I1360-11	Sampled: 08/30/23 12:07	TAT: Standard
			Sampled By: GS/LG/BS
Analysis Needed:	ode overel Am		Temp:301+0.1
Special Analysis		Comments: 2-4 D Residue	Temp:3.1+0.1
8-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	201	BOXICE	over, Ice, UPS
Released By AdMy	9/39/37 / Date	Received By	10/3/23 10:10
Released By	Date	Received By	Date



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## SUBCONTRACT ORDER 23I1360

Matrix: Solid

Sampled: 08/30/23 12:12 TAT: Standard

Sample ID: 23-512 (SW6) 23I1360-12

Sampled By: GS/LG/BS

Analysis Needed:

Special Analysis

Comments: 2-4 D Residue

Temp: 3, 1+0.1=3.200 Box, cooper, Ice, UPS

age 4 of 4

Released By Date Received By Date

Released By

Date

Received By

Date

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## Sample Log-In Check List

Client Name	:: TRA-MI-49444	Work Order Number	: 23100177		RcptNo: 1
Logged by:	Meghan Weinberg	10/3/2023 10:10:00 A	ιM	/h	~~~~
Completed I	By: <b>Tegan A. Richards</b>	10/3/2023 3:23:17 PM	Л	Legan Prio	hools
Reviewed B	y: <b>Holly Florea</b>	10/4/2023 10:02:25 A	M	Tegan Prio	tea
Chain of C	Custody				
	n of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How wa	as the sample delivered?		<u>UPS</u>		
Log In					
	are present?		Yes 🗸	No 🗌	NA $\square$
4 Shippin	g container/cooler in good cor	ndition?	Yes 🗸	No 🗌	
	y seals intact on shipping cont		Yes	No 🗌	Not Present 🗹
No.	Seal Da		Signed By:		
5. Was ar	attempt made to cool the sar	mples?	Yes 🗹	No 🗌	NA $\square$
6. Were a	Il samples received at a tempo	erature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA $\square$
7. Sample	e(s) in proper container(s)?		Yes 🗸	No 🗌	
8. Sufficie	nt sample volume for indicate	d test(s)?	Yes 🗸	No 🗌	
9. Are sar	nples (except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌	
10. Was pr	eservative added to bottles?		Yes	No 🗹	NA 🗆
11. Is the h	eadspace in the VOA vials les	ss than 1/4 inch or 6 mm?	Yes	No 🗌	No VOA Vials <b>✓</b>
	ny sample containers received		Yes	No 🗸	
	aperwork match bottle labels? iscrepancies on chain of custo		Yes 🗸	No 🗌	
`	trices correctly identified on C	• /	Yes 🗹	No 🗆	
	ar what analyses were reques		Yes 🗸	No 🗌	
_	Il holding times able to be met		Yes	No 🗸	
	otify customer for authorization				
Special Ha	andling (if applicable)				
17. Was cli	ent notified of all discrepancie	s with this order?	Yes	No 🗌	NA 🗹
Pe	erson Notified:	Date:			
Ву	/ Whom:	Via:	eMail I	Phone  Fax	☐ In Person
Re	egarding:				
CI	ient Instructions:				
18. Addition	nal remarks:				
CI	ient approved to run past hold				

#### **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Not Present			



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CHAIN-OF-CUSTODY RECORD   Trace Analytical Laborationies, Inc.   Phone 23,173,5998   241 Black Cheek Road   Www.trace-labs.com   Fax 888,979,4469   Www.trace-labs.com   Www.trace-labs.com   Fax 888,979,4469   Www.trace-labs.com   Fax 888,979,4469   Www.trace-labs.com   Fax 888,979,4469   Www.trace-labs.com   Www.trace-labs.com   Fax 888,979,4469   Www.trace-labs	Pleas	e Siç	gn	10	9	$\infty$	7	6	5	I	W	2	_	Trace No.	Projec	*Result	Turna	Email 4	Office Phone:	City, St	Mailing	Report	Compa	Repo	-	
CHAIN-OF-CUSTODY RECORD  Trace Analytical Laboratories, Inc. Phone 231.773.5998  2241 Black Creek Road  Muskegon, MI 49444-2873  Www.trace-labs.com  Bill To:  Po #:  Contact Name:  Billing Address (if different):  City, Sate, Zip Code: Phone Number:  Billing Email Address:  Matrix Key:  S = Soul / Solid WI = Wipes  W = Water	3)	1) All	Released By			_				-	-	-	1024		1	FStandard, 5-10 Days   3 Day*   1 Day*  s provided end of business day, require	ground Requirements:	Address:	hone:	ate, Zip Code:	Address:	To: Teanife		rt Results To:	LABORATO	1
CHAIN-OF-CUSTODY RECORD  Trace Analytical Laboratories, Inc. Phone 231.773.5998  2241 Black Creek Road  Fax 888.979.4469  Muskegon, MI 49444-2673  Muskegon, MI 4944-2673  Muskegon, MI 49444-2673	In execution this Chai		Received By	(Suf)	(Sw3)	(SWZ)	(3~1)	(mcc)	(MGS)				(MG1)	Client Sample ID			Ma		Cell Phone:						RIES, INC.	
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Please Si	ign Released by			*	12 31/43 1212 23-512(	11 DANGS 1207 23-5-11 (	Trace Date Time No. Collected Collected	Project Name: How the Lola	Standard, 5-10 Days  3 Day*  1 Day*  *Results provided end of business day, requires prior approval.	Turnaround Requirements:	Email Address:	Office Phone: Cell	City, State, Zip Code:	Mailing Address:	Report To:	Company Name: RLS	Report Results To:	ALLABORATORIES, INC.	-
In executing this Chain of Cus	Received By				(36)	Sw8)	Client Sample ID		\$ = Soil / Solid  W = Water  \$L = Sludge  approval.  OI = Oil	Matrix Key:		Cell Phone:						IXO.	
2    2    2    1   2    2    2    3    3	Date Time F				>	- >×	Metals Field Filtered (Y / N) Matrix Number of Containers Cool HCI HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH Other	Sampled By:	lid WI = Wipes  LW = Liquid Waste  A = Air  D = Drinking Water	ey:	Billing Email Address:	Phone Number:	City, State, Zip Code:	Billing Address (if different):	Contact Name:	PO #:	Bill To:	CHAIN-OF-CUSTODY RECORD Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673	CHAIN OF CHETONY DECO
at www.trace-labs.com/terms-of-agree	Released By				X	×	2,1=	D 7	Residue	Analy								Phone 231.773.5998 Fax 888.979.4469 www.trace-labs.com	,
ament.	Received By Date						Re			Analysis Requested		Sampling Time:	MeOH Low Level	Soil Volatiles Preserved (circle if applicable):	Checked By:	Logged By:	Trace Use:	Trace ID No.	7
	Time						Remarks Possible Hea	lth Haz	ards?				Lab	applicable):		0			