Smith, George

From: Madden, Melissa
Sent: Wednesday, February 16, 2022 4:42 PM
To: SWD_Waste
Subject: FW: Citrus Central Landfill - Evaluation Monitoring Letter Response
Attachments: 2022.02.16_Citrus Evaluation Monitoring Response Letter.pdf

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From: Troy D. Hays, PG <THays@JonesEdmunds.com>
Sent: Wednesday, February 16, 2022 4:21 PM
To: Tafuni, Steven <Steven.Tafuni@FloridaDEP.gov>; Madden, Melissa <Melissa.Madden@FloridaDEP.gov>
Cc: SWD_Clerical <SWD_Clerical@dep.state.fl.us>; Joshua L. Younce <Joshua.Younce@citrusbocc.com>; DAN S. SHERLOCK <DAN.SHERLOCK@citrusbocc.com>
Subject: Citrus Central Landfill - Evaluation Monitoring Letter Response

EXTERNAL MESSAGE
This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good Afternoon Steven and Melissa,

Attached to this email is an update letter on the status of the Evaluation Monitoring due to parameter exceedances observed in MW-7 and MW-20 at the Citrus County Central landfill. The notification to conduct evaluation monitoring was submitted to the County in correspondence from FDEP dated November 23, 2021.

If you have any questions during your review of the attached document, please do not hesitate to call me at 352-258-9520.

Thank you,

Troy D. Hays, PG
Senior Manager / Vice President

JonesEdmunds
Integrity • Knowledge • Service

p. 352.377.5821|x. 1480|c. 352.258.9520
JONESEDMUNDS.COM
730 NE Waldo Road, Gainesville, FL 32641

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February 16, 2022

Kelly M. Boatwright
Southwest District Director
Florida Department of Environmental Protection
13051 North Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926

RE: Citrus County Class I Central Landfill
Notice of Evaluation Monitoring for Monitoring Wells MW-7 and MW-20
Jones Edmunds Project No.: 03860-086-01

Dear Ms. Boatright:

This letter is an update on Citrus County's progress implementing the required evaluation monitoring activities detailed in the November 23, 2021, correspondence from FDEP. The correspondence required the sampling of MW-7 and MW-20 for the parameters listed in Rule 62-701.10(7)(c)., F.A.C., the installation of three new compliance wells, and the preparation of the Contamination Evaluation Plan.

GROUNDWATER SAMPLING

Wells MW-7 and MW-20 were sampled on January 6, 2022, for the requested parameters. Attachment A to this letter includes two tables which show the parameters that exceeded groundwater standards and the parameters that were detected above the laboratory detection limit. Attachment B is the laboratory report and field sampling logs.

The parameters outside of a groundwater protection standard were pH, Arsenic, Iron, and Benzene. These are the parameters that initiated the evaluation monitoring and are already included in the routine monitoring network. Table 1 shows the parameters that were detected above the laboratory detection limit. In accordance with Rule 62-701.510(6)(a)2., F.A.C. these parameters will be added to the routine monitoring parameter list.

The only three parameters that were detected that are currently not included in the routine monitoring list are Total Sulfide, Naphthalene, and Pentachlorophenol. These parameters will be added to the routine monitoring list. Additionally, Mercury, which is already included in the routing list, was detected in the equipment blank but not in either of the wells.

Table 1: Parameters Detected in MW-20 and/or MW-7

Detected Parameters Already in the Routine Monitoring List		Detected Parameters to be Added to the Routine Monitoring List
pH	Nickel	Total Sulfide
Ammonia	Sodium	Naphthalene
Chloride	Zinc	Pentachlorophenol
Nitrate Nitrogen	1,4-Dichlorobenzene	
Total Dissolved Solids	Benzene	
Arsenic	Chlorobenzene	
Copper	Cis-1,2-Dichloroethene	
Mercury*	Ethylbenzene	
Iron		

THREE NEW COMPLIANCE WELLS

The County is moving forward with the installation of the required three new compliance wells. Due to the cost of the wells, approval of the costs was needed by the Board of County Commissioners before the contracts for well installation could be executed. The three wells are scheduled for installation the week of April 11th through the 15th.

Item 3 of the November 23, 2021, FDEP Correspondence required two compliance wells to be installed upgradient of MW-7, 100 ft from the edge of liner. The two wells will be installed as directed with no proposed changes. The wells will be installed 100ft east from the edge of liner in line with existing background well MW-7. The locations will be marked in the field before installation and any needed clearing conducted. The two new compliance wells will be constructed as shown in Table 2.

Table 2: Compliance Wells MW-7C(s) and (d) Construction Details

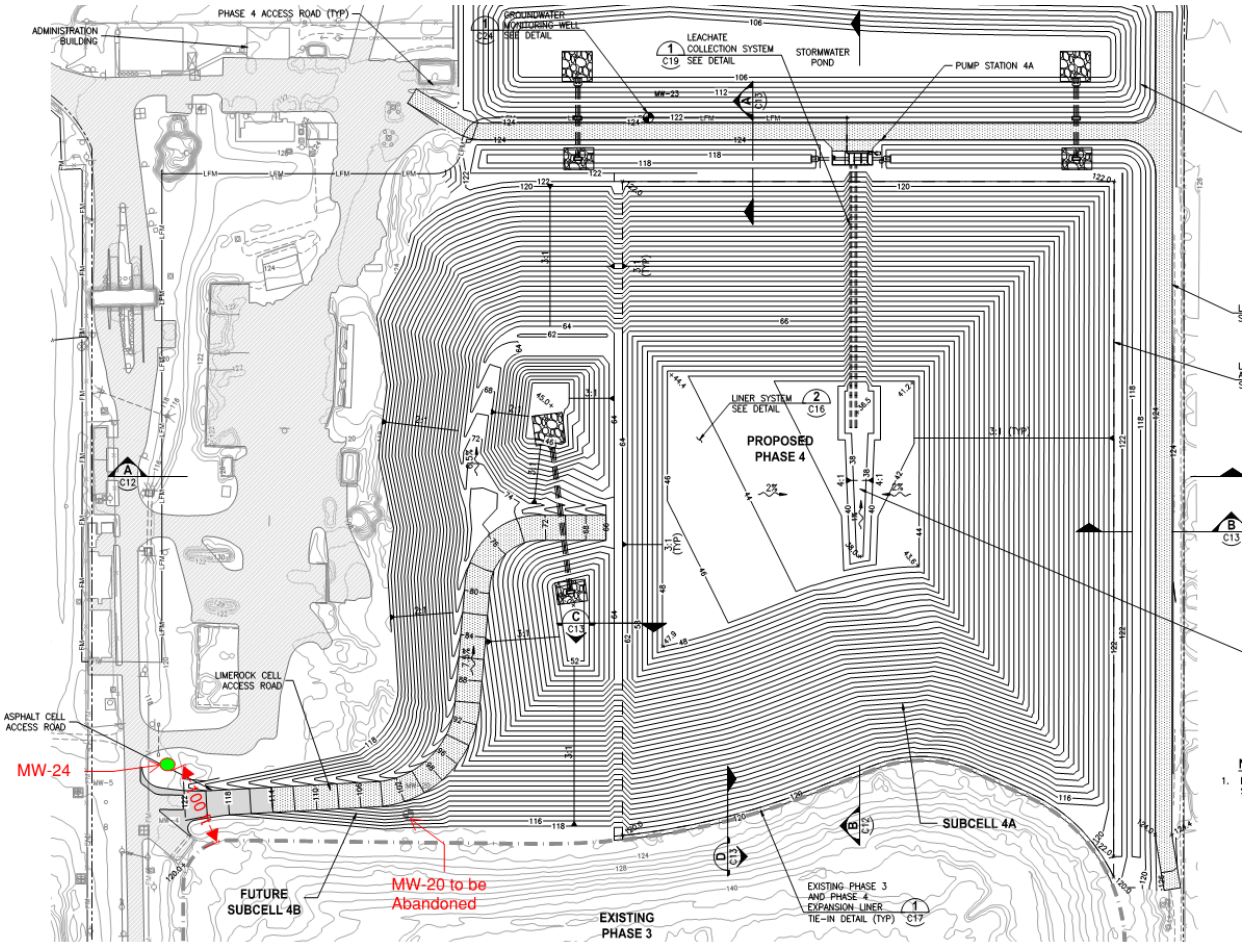
	Diameter	Total Depth (BLS)	Screen Length	Screen Interval (BLS)	Completion
MW-7C(s)	2 inch	145 ft	10 ft	135 to 145 ft	Locking Stick Up
MW-7C(d)	2 inch	165 ft	10 ft	155 to 165 ft	Locking Stick Up

Item 4 of the November 23, 2021, FDEP Correspondence required one compliance well to be installed downgradient of MW-20, 100 ft from the edge of the Phase 3 liner. The County is currently finalizing the design of the next Class I Landfill Cell (Phase 4) and the liner for Phase 4 will be connecting to the liner of Phase 3. The permit application for the new Phase 4 cell is in final QA and expected to be submitted to FDEP in early March. The area where

MW-20 is currently located will be within the footprint of the new cell, specifically the haul road for Subcell 4a, and in the lined area for Subcell 4b.

In the permitting documents for the Phase 4 Expansion, we are requesting the abandonment of MW-20 and for it to be replaced with MW-24. Figure 1 shows the layout for the Phase 4 Subcell 4a and haul road, which is expected to be in construction next year, along with MW-20 and the proposed well MW-24. The Phase 4 design is laid out for the first cell, Subcell 4a, to be constructed while keeping the Citizens Service Area (CSA) in operation. The CSA is planned to be relocated and Subcell 4b will be constructed in the current CSA location.

Figure 1: Phase 4 Subcell 4a Layout and MW-24 Proposed Location.



We propose to install MW-24 as the requested compliance well. It will be installed within 100 ft of the Phase 3 edge of liner at the location shown on Figure 1. This is outside of the Phase 4 Subcell 4a haul road and outside of the proposed liner footprint for the eventual construction of Phase 4 Subcell 4b. MW-24 will be installed as shown in Table 3.

Table 3: Compliance Well MW-24 Construction Details

	Diameter	Total Depth (BLS)	Screen Length	Screen Interval (bls)	Completion
MW-24	2 inch	145 ft	10 ft	135 to 145 ft	Surface Handhole

CONTAMINATON EVALUATION PLAN

Item 5 of the November 23, 2021, FDEP Correspondence requires a Contamination Evaluation Plan to be submitted within 180 days from the date of the letter. With the wells scheduled for installation the second week of April, the Contamination Evaluation Plan will be submitted by the 180-day deadline. The submittal date is May 21, 2022.

Please do not hesitate to contact me at (352) 258-9520 or Thays@jonesedmunds.com if you have any questions or comments during your review of this information.

Sincerely,

Troy D. Hays, PG
Senior Manager/Vice President
thays@jonesedmunds.com
730 NE Waldo Road
Gainesville, FL 32641

\\JEA.NET\PAN02\WORKSPACE\09803-Jacksonville Beach\Opportunities\2022\DixHite\2021.01.21_PROP-JaxBeach-CA.Services.docx

xc: Dan Sherlock, Citrus County
Joshua Younce, Citrus County
Steve Tafuni, FDEP Southwest District
Melissa Madden, FDEP Southwest District

Attachment A: Analysis Results Compared to Groundwater Standards
Attachment B: Original Laboratory Data Including Chain-of-Custody Forms and Field Data Sheets

Attachment A

ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS AND/OR GUIDANCE CONCENTRATIONS
CITRUS COUNTY CENTRAL LANDFILL
JANUARY 2022

PARAMETER		pH (FIELD)	ARSENIC	IRON	BENZENE
STANDARD		6.5-8.5 S.U.**	10 µg/L*	300 µg/L**	1 µg/L*
UNITS		S.U.	µg/L	µg/L	µg/L
Background					
MW-7	01/06/2022	4.97	11.4	1990	8.6
Compliance					
MW-20	01/06/2022	6.23	15.6	196000	1.1
QAQC					
EQUBLK	01/06/2022	NM	-	-	-
TRIP1	01/06/2022	NM	NM	NM	-
TRIP2	01/06/2022	NM	NM	NM	-

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777 Groundwater Cleanup Target Levels (GCTL)
@ =Analysis Result is at Groundwater Standard or GCTL
\- =Analysis Result is not at or outside Groundwater Standard or GCTL
NS =Not Sampled
NM =Not Measured

Note:

This table displays analysis results which were reported at or outside Groundwater Standards or GCTL.
Analysis results notated with "@" indicate that the analysis result was reported at the Groundwater Standard or GCTL.
Analysis results which were reported above the laboratory detection limit (reporting limit), but not at or above the Groundwater Standard or GCTL concentration are not displayed in this table.

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
JANUARY 2022

PARAMETER		CONDUC-TIVITY (FIELD)	DEPTH TO WATER FROM MEASURE PT	DISSOLVED OXYGEN (FIELD)	GROUND-WATER ELEVATION	pH (FIELD)	TEMPER-ATURE (FIELD)	TURBIDITY (FIELD)	AMMONIA NITROGEN	CHLORIDE	NITRATE NITROGEN	TOTAL DISSOLVED SOLIDS	TOTAL SULFIDE
STANDARD UNITS		(1) uS/cm	(1) ft	(1) ppm	(1) ft, NGVD	6.5-8.5 S.U.** S.U.	(1) deg C	(1) NTU	2.8 mg/L*** mg/L	250 mg/L** mg/L	10 mg/L* mg/L	500 mg/L** mg/L	(1) mg/L
Background													
MW-7	01/06/2022	118	118.05	0.46	10.42	4.97	24.6	1.63	<0.0098	8.9	<0.052	48	<0.45
Compliance													
MW-20	01/06/2022	958	110.09	0.30	9.67	6.23	26.0	4.11	2.0	74	0.058 I	360	7.7
QAQC													
EQUBLK	01/06/2022	-	-	-	-	-	-	-	<0.0098	<0.29	<0.052	18	<0.45
TRIP1	01/06/2022	-	-	-	-	-	-	-	-	-	-	-	-
TRIP2	01/06/2022	-	-	-	-	-	-	-	-	-	-	-	-

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777 - Groundwater Cleanup Target Level (GCTL)
(1) =No Standard
\- =Not Analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
JANUARY 2022

PARAMETER		ARSENIC	COPPER	IRON	MERCURY	NICKEL	SODIUM	ZINC	1,4-DICHLORO-BENZENE	BENZENE	CHLORO-BENZENE	CIS-1,2-DICHLORO-ETHENE	ETHYL-BENZENE
STANDARD UNITS		10 µg/L* µg/L	1000 µg/L** µg/L	300 µg/L** µg/L	2 µg/L* µg/L	100 µg/L* µg/L	160 mg/L* mg/L	5000 µg/L** µg/L	75 µg/L* µg/L	1 µg/L* µg/L	100 µg/L* µg/L	70 µg/L* µg/L	30 µg/L** µg/L
Background													
MW-7	01/06/2022	11.4	3.90 I	1990	<0.0230	8.47 I	9.64	83.7 I	15	8.6	3.3	2.5	8.9
Compliance													
MW-20	01/06/2022	15.6	<2.50	196000	<0.0230	<5.00	15.3	<75.0	<0.76	1.1	<0.72	<0.53	<0.69
QAQC													
EQUBLK	01/06/2022	<5.00	<2.50	<25.0	0.512	<5.00	<0.320	<75.0	<0.76	<0.71	<0.72	<0.53	<0.69
TRIP1	01/06/2022	-	-	-	-	-	-	-	<0.76	<0.71	<0.72	<0.53	<0.69
TRIP2	01/06/2022	-	-	-	-	-	-	-	<0.76	<0.71	<0.72	<0.53	<0.69

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777 - Groundwater Cleanup Target Level (GCTL)
(1) =No Standard
\- =Not Analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
JANUARY 2022

PARAMETER		TOTAL VOCS	NAPHTHA-LENE	PENTA-CHLORO-PHENOL
STANDARD UNITS		(1) µg/L	14 µg/L*** µg/L	1 µg/L* µg/L
Background				
MW-7	01/06/2022	38.3	0.65	<0.19
Compliance				
MW-20	01/06/2022	1.1	<0.050	0.090 I
QAQC				
EQUBLK	01/06/2022	-	<0.050	<0.19
TRIP1	01/06/2022	-	<0.82	-
TRIP2	01/06/2022	-	<0.82	-

LEGEND

* =Primary Drinking Water Standard
** =Secondary Drinking Water Standard
*** =Chapter 62-777 - Groundwater Cleanup Target Level (GCTL)
(1) =No Standard
\- =Not Analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time

Attachment B

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

Wednesday, January 19, 2022
Jones Edmunds & Associates, Inc. (JO006)
Attn: Elizabeth Kennelley
730 N.E.Waldo Road Bldg.A
Gainesville, FL 32641

RE: Laboratory Results for
Project Number: 39859, Project Name/Desc: Citrus Co. LF
ENCO Workorder(s): AF00046

Dear Elizabeth Kennelley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, January 7, 2022.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

David Camacho

Project Manager

Enclosure(s)

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-7 | **Lab ID: AF00046-01** | **Sampled: 01/06/22 09:49** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	NO PREP	01/08/22	09:49			01/07/22	10:25	01/07/22 13:02
EPA 300.0	NO PREP	02/03/22				01/07/22	10:25	01/07/22 13:02
EPA 350.1	NO PREP	02/03/22				01/10/22	12:10	01/11/22 11:35
EPA 6020B	EPA 3005A	07/05/22				01/10/22	09:36	01/11/22 12:59
EPA 7470A	EPA 7470A	02/03/22				01/10/22	12:08	01/11/22 08:42
EPA 8011	EPA 504/8011	01/20/22				01/13/22	11:03	01/13/22 18:11
EPA 8081B	EPA 3510C	01/13/22		02/17/22		01/08/22	10:15	01/10/22 19:15
EPA 8082A	EPA 3510C	01/06/23		01/06/23		01/14/22	07:00	01/18/22 10:12
EPA 8151A	EPA 3510C	01/13/22		02/21/22		01/12/22	15:30	01/13/22 17:57
EPA 8260D	EPA 5030B_MS	01/20/22				01/10/22	09:02	01/10/22 16:05
EPA 8270E	EPA 3510C_MS	01/13/22		02/20/22		01/11/22	14:45	01/17/22 13:57
EPA 8270E	EPA 3511_MS	01/13/22		02/22/22		01/13/22	08:00	01/14/22 12:58
Field	*** DEFAULT PREP ***	01/06/22	10:03			01/06/22	09:49	01/06/22 09:49
Field	*** DEFAULT PREP ***	01/07/22	09:49	01/07/22	09:49	01/06/22	09:49	01/06/22 09:49
Field	*** DEFAULT PREP ***	01/08/22	09:49			01/06/22	09:49	01/06/22 09:49
SM 2540C-2011	NO PREP	01/13/22				01/10/22	14:10	01/11/22 16:10
SM 4500CN E-2011	EPA 9010C	01/20/22				01/13/22	14:00	01/14/22 17:55
SM 4500S2 F-2011	NO PREP	01/13/22				01/13/22	10:57	01/13/22 10:57

Client ID: EQUIPMENT BLANK 1 | **Lab ID: AF00046-02** | **Sampled: 01/06/22 10:40** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	NO PREP	01/08/22	10:40			01/07/22	10:25	01/07/22 14:15
EPA 300.0	NO PREP	02/03/22				01/07/22	10:25	01/07/22 14:15
EPA 350.1	NO PREP	02/03/22				01/10/22	12:09	01/11/22 10:57
EPA 6020B	EPA 3005A	07/05/22				01/10/22	09:36	01/11/22 13:56
EPA 7470A	EPA 7470A	02/03/22				01/10/22	12:08	01/11/22 10:12
EPA 8011	EPA 504/8011	01/20/22				01/13/22	11:03	01/13/22 18:27
EPA 8081B	EPA 3510C	01/13/22		02/17/22		01/08/22	09:00	01/10/22 19:27
EPA 8082A	EPA 3510C	01/06/23		01/06/23		01/14/22	07:00	01/18/22 10:23
EPA 8151A	EPA 3510C	01/13/22		02/21/22		01/12/22	15:30	01/13/22 18:22
EPA 8260D	EPA 5030B_MS	01/20/22				01/10/22	09:02	01/10/22 16:32
EPA 8270E	EPA 3510C_MS	01/13/22		02/20/22		01/11/22	14:45	01/17/22 13:27
EPA 8270E	EPA 3511_MS	01/13/22		02/22/22		01/13/22	08:00	01/13/22 22:16
SM 2540C-2011	NO PREP	01/13/22				01/10/22	14:10	01/11/22 16:10
SM 4500CN E-2011	EPA 9010C	01/20/22				01/13/22	14:00	01/14/22 17:55
SM 4500S2 F-2011	NO PREP	01/13/22				01/13/22	10:57	01/13/22 10:57

Client ID: TRIP BLANK 1 | **Lab ID: AF00046-03** | **Sampled: 01/06/22 00:00** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	01/20/22	01/10/22 09:02	01/10/22 17:00

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-20 | **Lab ID: AF00046-04** | **Sampled: 01/06/22 11:54** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	NO PREP	01/08/22	11:54			01/07/22	10:25	01/07/22 14:30
EPA 300.0	NO PREP	02/03/22				01/07/22	10:25	01/07/22 14:30
EPA 350.1	NO PREP	02/03/22				01/10/22	12:09	01/11/22 11:02
EPA 6020B	EPA 3005A	07/05/22				01/10/22	09:36	01/11/22 13:24
EPA 7470A	EPA 7470A	02/03/22				01/10/22	12:08	01/11/22 10:03
EPA 8011	EPA 504/8011	01/20/22				01/13/22	11:03	01/13/22 18:43
EPA 8081B	EPA 3510C	01/13/22		02/17/22		01/08/22	09:00	01/10/22 19:39
EPA 8082A	EPA 3510C	01/06/23		01/06/23		01/14/22	07:00	01/18/22 10:45
EPA 8151A	EPA 3510C	01/13/22		02/21/22		01/12/22	15:30	01/13/22 18:48
EPA 8260D	EPA 5030B_MS	01/20/22				01/10/22	09:02	01/10/22 17:28
EPA 8270E	EPA 3510C_MS	01/13/22		02/20/22		01/11/22	14:45	01/17/22 14:27
EPA 8270E	EPA 3511_MS	01/13/22		02/22/22		01/13/22	08:00	01/14/22 13:19
Field	*** DEFAULT PREP ***	01/06/22	12:08			01/06/22	11:54	01/06/22 11:54
Field	*** DEFAULT PREP ***	01/07/22	11:54	01/07/22	11:54	01/06/22	11:54	01/06/22 11:54
Field	*** DEFAULT PREP ***	01/08/22	11:54			01/06/22	11:54	01/06/22 11:54
SM 2540C-2011	NO PREP	01/13/22				01/10/22	14:10	01/11/22 16:10
SM 4500CN E-2011	EPA 9010C	01/20/22				01/13/22	14:00	01/14/22 17:55
SM 4500S2 F-2011	NO PREP	01/13/22				01/13/22	10:57	01/13/22 10:57

Client ID: MW-20 | **Lab ID: AF00046-04RE1** | **Sampled: 01/06/22 11:54** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6020B	EPA 3005A	07/05/22	01/10/22 09:36	01/11/22 14:17

Client ID: TRIP BLANK 2 | **Lab ID: AF00046-05** | **Sampled: 01/06/22 00:00** | **Received: 01/07/22 11:05**

Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260D	EPA 5030B_MS	01/20/22	01/10/22 09:02	01/10/22 17:56

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

SAMPLE DETECTION SUMMARY

Client ID: MW-7 **Lab ID: AF00046-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	15		0.76	1.0	ug/L	EPA 8260D	
Arsenic - Total	11.4		5.00	10.0	ug/L	EPA 6020B	
Benzene	8.6		0.71	1.0	ug/L	EPA 8260D	
Chloride	8.9		0.29	5.0	mg/L	EPA 300.0	
Chlorobenzene	3.3		0.72	1.0	ug/L	EPA 8260D	
cis-1,2-Dichloroethene	2.5		0.53	1.0	ug/L	EPA 8260D	
Copper - Total	3.90	I	2.50	10.0	ug/L	EPA 6020B	
Depth to Water	118.05				Ft	Field	
Dissolved Oxygen	0.46		0	0	mg/L	Field	
Ethylbenzene	8.9		0.69	1.0	ug/L	EPA 8260D	
Iron - Total	1990		25.0	50.0	ug/L	EPA 6020B	
Naphthalene	0.65		0.050	0.10	ug/L	EPA 8270E	
Nickel - Total	8.47	I	5.00	10.0	ug/L	EPA 6020B	
pH	4.97				pH Units	Field	
Sodium - Total	9.64		0.320	1.00	mg/L	EPA 6020B	
Specific Conductance (EC)	118		0	0	umhos/cm	Field	
Temperature	24.6		0	0	°C	Field	
Total Dissolved Solids	48		10	10	mg/L	SM 2540C-2011	
Turbidity	1.63		0	0	NTU	Field	
Water Elevation	10.42				Ft	Field	
Zinc - Total	83.7	I	75.0	200	ug/L	EPA 6020B	

Client ID: EQUIPMENT BLANK 1 **Lab ID: AF00046-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Mercury - Total	0.512		0.0230	0.200	ug/L	EPA 7470A	
Total Dissolved Solids	18		10	10	mg/L	SM 2540C-2011	

Client ID: MW-20 **Lab ID: AF00046-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	2.0		0.0098	0.020	mg/L	EPA 350.1	
Arsenic - Total	15.6		5.00	10.0	ug/L	EPA 6020B	
Benzene	1.1		0.71	1.0	ug/L	EPA 8260D	
Chloride	74		0.29	5.0	mg/L	EPA 300.0	
Depth to Water	110.09				Ft	Field	
Dissolved Oxygen	0.30		0	0	mg/L	Field	
Nitrate as N	0.058	I	0.052	1.0	mg/L	EPA 300.0	
Pentachlorophenol	0.090	I	0.0	0.50	ug/L	EPA 8151A	
pH	6.23				pH Units	Field	
Sodium - Total	15.3		0.320	1.00	mg/L	EPA 6020B	
Specific Conductance (EC)	958		0	0	umhos/cm	Field	
Sulfide	7.7		0.45	1.0	mg/L	SM 4500S2 F-2011	
Temperature	26.0		0	0	°C	Field	
Total Dissolved Solids	360		10	10	mg/L	SM 2540C-2011	
Turbidity	4.11		0	0	NTU	Field	
Water Elevation	9.67				Ft	Field	

Client ID: MW-20 **Lab ID: AF00046-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	196000		2500	5000	ug/L	EPA 6020B	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** AF00046-01 | **Received:** 01/07/22 11:05

Matrix: Ground Water | **Sampled:** 01/06/22 09:49 | **Work Order:** AF00046

Project: Citrus Co. LF | **Sampled By:** Steve Messick

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
1,4-Dichlorobenzene [106-46-7]^	**15**		ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
3-Chloropropene [107-05-1]^	1.0	U	ug/L	1	1.0	2.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Acetonitrile [75-05-8]^	8.5	U	ug/L	1	8.5	10	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Acrolein [107-02-8]^	6.4	U	ug/L	1	6.4	10	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Acrylonitrile [107-13-1]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Benzene [71-43-2]^	**8.6**		ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	QV-01
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	QV-01
Chlorobenzene [108-90-7]^	**3.3**		ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Chloroprene [126-99-8]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
cis-1,2-Dichloroethene [156-59-2]^	**2.5**		ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Ethyl Methacrylate [97-63-2]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Ethylbenzene [100-41-4]^	**8.9**		ug/L	1	0.69	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Iodomethane [74-88-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	QL-02
Isobutyl alcohol [78-83-1]^	14	U	ug/L	1	14	50	2A10003	EPA 8260D	01/10/22 16:05	KKW	QL-02
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	

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ANALYTICAL RESULTS

Description: MW-7	**Lab Sample ID:** AF00046-01	**Received:** 01/07/22 11:05
Matrix: Ground Water	**Sampled:** 01/06/22 09:49	**Work Order:** AF00046
Project: Citrus Co. LF	**Sampled By:** Steve Messick	

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Methyl Methacrylate [80-62-6]^	0.68	U	ug/L	1	0.68	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Propionitrile [107-12-0]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Vinyl acetate [108-05-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 16:05	KKW	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*111 %*	*41-142*	*2A10003*	*EPA 8260D*	*01/10/22 16:05*	*KKW*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*53-146*	*2A10003*	*EPA 8260D*	*01/10/22 16:05*	*KKW*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*41-146*	*2A10003*	*EPA 8260D*	*01/10/22 16:05*	*KKW*	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
1,3,5-Trinitrobenzene [99-35-4]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
1,3-Dinitrobenzene [99-65-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
1,4-Naphthoquinone [130-15-4]^	4.7	U	ug/L	1	4.7	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
1,4-Phenylenediamine [106-50-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
1-Methylnaphthalene [90-12-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
1-Naphthylamine [134-32-7]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4,5-Trichlorophenol [95-95-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4,6-Trichlorophenol [88-06-2]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4-Dichlorophenol [120-83-2]^	6.5	U	ug/L	1	6.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4-Dimethylphenol [105-67-9]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4-Dinitrophenol [51-28-5]^	7.7	U	ug/L	1	7.7	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,4-Dinitrotoluene [SIM] [121-14-2]^	0.038	U	ug/L	1	0.038	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,6-Dichlorophenol [87-65-0]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2,6-Dinitrotoluene [606-20-2]^	2.9	U	ug/L	1	2.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Acetylaminofluorene [53-96-3]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Chloronaphthalene [91-58-7]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Chlorophenol [95-57-8]^	7.4	U	ug/L	1	7.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1]^	6.0	U	ug/L	1	6.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Methylnaphthalene [91-57-6]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** AF00046-01 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 09:49 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Methylphenol [95-48-7]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Naphthylamine [91-59-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Nitroaniline [88-74-4]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
2-Nitrophenol [88-75-5]^	5.2	U	ug/L	1	5.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5]^	8.2	U	ug/L	1	8.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
3,3'-Dichlorobenzidine [91-94-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
3,3'-Dimethylbenzidine [119-93-7]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
3-Methylcholanthrene [56-49-5]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
3-Nitroaniline [99-09-2]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Aminobiphenyl [92-67-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Bromophenyl-phenylether [101-55-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Chloro-3-methylphenol [59-50-7]^	7.3	U	ug/L	1	7.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Chloroaniline [106-47-8]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Chlorophenyl-phenylether [7005-72-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Nitroaniline [100-01-6]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
4-Nitrophenol [100-02-7]^	7.9	U	ug/L	1	7.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
5-Nitro-o-toluidine [99-55-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
7,12-Dimethylbenz(a)anthracene [57-97-6]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Acenaphthene [83-32-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Acenaphthylene [208-96-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Acetophenone [98-86-2]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Anthracene [120-12-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzo(a)anthracene [56-55-3]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzo(a)pyrene [50-32-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Benzyl alcohol [100-51-6]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Bis(2-chloroethoxy)methane [111-91-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Bis(2-chloroethyl)ether [111-44-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Bis(2-chloroisopropyl)ether [108-60-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7]^	3.5	U	ug/L	1	3.5	5.0	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Butylbenzylphthalate [85-68-7]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Chlorobenzilate [SIM] [510-15-6]^	0.029	U	ug/L	1	0.029	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Diallate [SIM] [2303-16-4]^	0.030	U	ug/L	1	0.030	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Dibenzo(a,h)anthracene [53-70-3]^	0.052	U	ug/L	1	0.052	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Dibenzofuran [132-64-9]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Diethylphthalate [84-66-2]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Dimethoate [SIM] [60-51-5]^	0.043	U	ug/L	1	0.043	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Dimethylphthalate [131-11-3]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Di-n-butylphthalate [84-74-2]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Di-n-octylphthalate [117-84-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Disulfoton [SIM] [298-04-4]^	0.062	U	ug/L	1	0.062	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Ethyl methanesulfonate [62-50-0]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Famphur [SIM] [52-85-7]^	0.052	U	ug/L	1	0.052	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** AF00046-01 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 09:49 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Fluorene [86-73-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Hexachlorobenzene [SIM] [118-74-1]^	0.027	U	ug/L	1	0.027	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Hexachlorobutadiene [SIM] [87-68-3]^	0.045	U	ug/L	1	0.045	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Hexachlorocyclopentadiene [77-47-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Hexachloroethane [67-72-1]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Hexachloropropene [1888-71-7]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Isodrin [465-73-6]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Isophorone [78-59-1]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Isosafrole [120-58-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Kepone [SIM] [143-50-0]^	3.3	U	ug/L	1	3.3	5.0	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Methapyrilene [91-80-5]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Methyl Methanesulfonate [66-27-3]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Methyl Parathion [SIM] [298-00-0]^	0.061	U	ug/L	1	0.061	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Naphthalene [91-20-3]^	**0.65**		ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Nitrobenzene [98-95-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
N-Nitrosodiethylamine [55-18-5]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitrosodimethylamine [62-75-9]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitrosodi-n-butylamine [924-16-3]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitroso-di-n-propylamine [621-64-7]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	5.4	U	ug/L	1	5.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitrosomethylethylamine [10595-95-6]^	3.7	U	ug/L	1	3.7	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitrosopiperidine [100-75-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
N-Nitrosopyrrolidine [930-55-2]^	4.2	U	ug/L	1	4.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
O,O,O-Triethyl phosphorothioate [126-68-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
o-Toluidine [95-53-4]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Parathion [56-38-2]^	1.2	U	ug/L	1	1.2	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
p-Dimethylaminoazobenzene [60-11-7]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Pentachlorobenzene [SIM] [608-93-5]^	0.034	U	ug/L	1	0.034	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Pentachloronitrobenzene [SIM] [82-68-8]^	0.047	U	ug/L	1	0.047	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Phenacetin [62-44-2]^	2.7	U	ug/L	1	2.7	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Phenanthrene [85-01-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Phenol [108-95-2]^	5.6	U	ug/L	1	5.6	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Phorate [SIM] [298-02-2]^	0.070	U	ug/L	1	0.070	0.10	2A11018	EPA 8270E	01/17/22 13:57	jfi	QV-01
Pronamide [23950-58-5]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Pyrene [129-00-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 12:58	jfi	
Safrole [94-59-7]^	4.8	U	ug/L	1	4.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	
Thionazin [297-97-2]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 13:57	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*26*	*1*	*50.0*	*52 %*	*33-145*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	
2-Fluorobiphenyl	*33*	*1*	*50.0*	*67 %*	*32-116*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	
2-Fluorophenol	*25*	*1*	*50.0*	*50 %*	*11-100*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	
2-Methylnaphthalene-d10	*6.4*	*1*	*5.71*	*112 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/14/22 12:58*	*jfi*	
Fluoranthene-d10	*6.7*	*1*	*5.71*	*117 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/14/22 12:58*	*jfi*	

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ANALYTICAL RESULTS

Description: MW-7	**Lab Sample ID:** AF00046-01	**Received:** 01/07/22 11:05
Matrix: Ground Water	**Sampled:** 01/06/22 09:49	**Work Order:** AF00046
Project: Citrus Co. LF	**Sampled By:** Steve Messick	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Nitrobenzene-d5	*35*	*1*	*50.0*	*69 %*	*24-107*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	
Phenol-d5	*18*	*1*	*50.0*	*37 %*	*10-100*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	
Terphenyl-d14	*57*	*1*	*50.0*	*113 %*	*52-150*	*2A11018*	*EPA 8270E*	*01/17/22 13:57*	*jfi*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:15	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	2A07013	EPA 8081B	01/10/22 19:15	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.81*	*1*	*1.00*	*81 %*	*38-142*	*2A07013*	*EPA 8081B*	*01/10/22 19:15*	*JJB*	
Decachlorobiphenyl	*0.77*	*1*	*1.00*	*77 %*	*34-159*	*2A07013*	*EPA 8081B*	*01/10/22 19:15*	*JJB*	

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	
PCB-1221 [11104-28-2]^	0.46	U	ug/L	1	0.46	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	
PCB-1232 [11141-16-5]^	0.47	U	ug/L	1	0.47	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	
PCB-1248 [12672-29-6]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	
PCB-1254 [11097-69-1]^	0.50	U	ug/L	1	0.50	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	
PCB-1260 [11096-82-5]^	0.48	U	ug/L	1	0.48	0.50	2A14004	EPA 8082A	01/18/22 10:12	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*38-142*	*2A14004*	*EPA 8082A*	*01/18/22 10:12*	*JJB*	
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*34-159*	*2A14004*	*EPA 8082A*	*01/18/22 10:12*	*JJB*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** AF00046-01 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 09:49 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.28	U	ug/L	1	0.28	0.50	2A12039	EPA 8151A	01/13/22 17:57	FCV	
2,4,5-TP (Silvex) [93-72-1]^	0.44	U	ug/L	1	0.44	0.50	2A12039	EPA 8151A	01/13/22 17:57	FCV	
2,4-D [94-75-7]^	0.27	U	ug/L	1	0.27	0.50	2A12039	EPA 8151A	01/13/22 17:57	FCV	
Dinoseb [88-85-7]^	0.32	U	ug/L	1	0.32	0.50	2A12039	EPA 8151A	01/13/22 17:57	FCV	QV-01
Pentachlorophenol [87-86-5]^	0.19	U	ug/L	1	0.19	0.50	2A12039	EPA 8151A	01/13/22 17:57	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*2.00*	*88 %*	*37-134*	*2A12039*	*EPA 8151A*	*01/13/22 17:57*	*FCV*	

Semivolatile Organic Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2-Dibromo-3-chloropropane [96-12-8]^	0.012	U	ug/L	1	0.012	0.020	2A13027	EPA 8011	01/13/22 18:11	FCV	
1,2-Dibromoethane [106-93-4]^	0.010	U	ug/L	1	0.010	0.020	2A13027	EPA 8011	01/13/22 18:11	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
1,1,1,2-Tetrachloroethane	*0.25*	*1*	*0.250*	*98 %*	*70-130*	*2A13027*	*EPA 8011*	*01/13/22 18:11*	*FCV*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.0230	U	ug/L	1	0.0230	0.200	2A07034	EPA 7470A	01/11/22 08:42	JMA	QM-07

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Arsenic [7440-38-2]^	**11.4**		ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Barium [7440-39-3]^	50.0	U	ug/L	1	50.0	100	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Beryllium [7440-41-7]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Cadmium [7440-43-9]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Chromium [7440-47-3]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Cobalt [7440-48-4]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Copper [7440-50-8]^	**3.90**	I	ug/L	1	2.50	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Iron [7439-89-6]^	**1990**		ug/L	1	25.0	50.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Lead [7439-92-1]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Nickel [7440-02-0]^	**8.47**	I	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Selenium [7782-49-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Silver [7440-22-4]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Sodium [7440-23-5]^	**9.64**		mg/L	1	0.320	1.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Thallium [7440-28-0]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Tin [7440-31-5]^	25.0	U	ug/L	1	25.0	50.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Vanadium [7440-62-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 12:59	JMA	
Zinc [7440-66-6]^	**83.7**	I	ug/L	1	75.0	200	2A07031	EPA 6020B	01/11/22 12:59	JMA	

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ANALYTICAL RESULTS

Description:	MW-7	**Lab Sample ID:**	AF00046-01	**Received:**	01/07/22 11:05
Matrix:	Ground Water	**Sampled:**	01/06/22 09:49	**Work Order:**	AF00046
Project:	Citrus Co. LF	**Sampled By:**	Steve Messick		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	0.0098	U	mg/L	1	0.0098	0.020	2A10021	EPA 350.1	01/11/22 11:35	cbarr	
Chloride [16887-00-6]^	**8.9**		mg/L	1	0.29	5.0	2A07014	EPA 300.0	01/07/22 13:02	ASR	
Cyanide (total) [57-12-5]^	0.0067	U	mg/L	1	0.0067	0.010	2A13032	SM 4500CN E-2011	01/14/22 17:55	JMW	
Nitrate as N [14797-55-8]^	0.052	U	mg/L	1	0.052	1.0	2A07014	EPA 300.0	01/07/22 13:02	ASR	
Sulfide [18496-25-8]	0.45	U	mg/L	1	0.45	1.0	2A13014	SM 4500S2 F-2011	01/13/22 10:57	AAL	
Total Dissolved Solids^	**48**		mg/L	1	10	10	2A10004	SM 2540C-2011	01/11/22 16:10	LAM	

Field Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Depth to Water	**118.05**		Ft	1			2A17017	Field	01/06/22 09:49	RBK	
Dissolved Oxygen	**0.46**		mg/L	1	0	0	2A17017	Field	01/06/22 09:49	RBK	
Oxidation/Reduction Potential	**-148.1**		mV	1	-999	-999	2A17017	Field	01/06/22 09:49	RBK	
pH	**4.97**		pH Units	1			2A17017	Field	01/06/22 09:49	RBK	
Specific Conductance (EC)	**118**		umhos/cm	1	0	0	2A17017	Field	01/06/22 09:49	RBK	
Temperature	**24.6**		°C	1	0	0	2A17017	Field	01/06/22 09:49	RBK	
Turbidity	**1.63**		NTU	1	0	0	2A17017	Field	01/06/22 09:49	RBK	
Water Elevation	**10.42**		Ft	1			2A17017	Field	01/06/22 09:49	RBK	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1 | **Lab Sample ID:** AF00046-02 | **Received:** 01/07/22 11:05

Matrix: Ground Water | **Sampled:** 01/06/22 10:40 | **Work Order:** AF00046

Project: Citrus Co. LF | **Sampled By:** Steve Messick

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
3-Chloropropene [107-05-1]^	1.0	U	ug/L	1	1.0	2.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Acetonitrile [75-05-8]^	8.5	U	ug/L	1	8.5	10	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Acrolein [107-02-8]^	6.4	U	ug/L	1	6.4	10	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Acrylonitrile [107-13-1]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	QV-01
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	QV-01
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Chloroprene [126-99-8]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Ethyl Methacrylate [97-63-2]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Iodomethane [74-88-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	QL-02
Isobutyl alcohol [78-83-1]^	14	U	ug/L	1	14	50	2A10003	EPA 8260D	01/10/22 16:32	KKW	QL-02
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1 | **Lab Sample ID:** AF00046-02 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 10:40 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Methyl Methacrylate [80-62-6]^	0.68	U	ug/L	1	0.68	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Propionitrile [107-12-0]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Vinyl acetate [108-05-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 16:32	KKW	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*41-142*	*2A10003*	*EPA 8260D*	*01/10/22 16:32*	*KKW*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*53-146*	*2A10003*	*EPA 8260D*	*01/10/22 16:32*	*KKW*	
Toluene-d8	*52*	*1*	*50.0*	*105 %*	*41-146*	*2A10003*	*EPA 8260D*	*01/10/22 16:32*	*KKW*	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
1,3,5-Trinitrobenzene [99-35-4]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
1,3-Dinitrobenzene [99-65-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
1,4-Naphthoquinone [130-15-4]^	4.7	U	ug/L	1	4.7	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
1,4-Phenylenediamine [106-50-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
1-Methylnaphthalene [90-12-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
1-Naphthylamine [134-32-7]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4,5-Trichlorophenol [95-95-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4,6-Trichlorophenol [88-06-2]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4-Dichlorophenol [120-83-2]^	6.5	U	ug/L	1	6.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4-Dimethylphenol [105-67-9]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4-Dinitrophenol [51-28-5]^	7.7	U	ug/L	1	7.7	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,4-Dinitrotoluene [SIM] [121-14-2]^	0.038	U	ug/L	1	0.038	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,6-Dichlorophenol [87-65-0]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2,6-Dinitrotoluene [606-20-2]^	2.9	U	ug/L	1	2.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Acetylaminofluorene [53-96-3]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Chloronaphthalene [91-58-7]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Chlorophenol [95-57-8]^	7.4	U	ug/L	1	7.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1]^	6.0	U	ug/L	1	6.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Methylnaphthalene [91-57-6]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1 | **Lab Sample ID:** AF00046-02 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 10:40 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Methylphenol [95-48-7]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Naphthylamine [91-59-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Nitroaniline [88-74-4]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
2-Nitrophenol [88-75-5]^	5.2	U	ug/L	1	5.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5]^	8.2	U	ug/L	1	8.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
3,3'-Dichlorobenzidine [91-94-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
3,3'-Dimethylbenzidine [119-93-7]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
3-Methylcholanthrene [56-49-5]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
3-Nitroaniline [99-09-2]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Aminobiphenyl [92-67-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Bromophenyl-phenylether [101-55-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Chloro-3-methylphenol [59-50-7]^	7.3	U	ug/L	1	7.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Chloroaniline [106-47-8]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Chlorophenyl-phenylether [7005-72-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Nitroaniline [100-01-6]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
4-Nitrophenol [100-02-7]^	7.9	U	ug/L	1	7.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
5-Nitro-o-toluidine [99-55-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
7,12-Dimethylbenz(a)anthracene [57-97-6]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Acenaphthene [83-32-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Acenaphthylene [208-96-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Acetophenone [98-86-2]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Anthracene [120-12-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzo(a)anthracene [56-55-3]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzo(a)pyrene [50-32-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Benzyl alcohol [100-51-6]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Bis(2-chloroethoxy)methane [111-91-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Bis(2-chloroethyl)ether [111-44-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Bis(2-chloroisopropyl)ether [108-60-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7]^	3.5	U	ug/L	1	3.5	5.0	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Butylbenzylphthalate [85-68-7]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Chlorobenzilate [SIM] [510-15-6]^	0.029	U	ug/L	1	0.029	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Diallate [SIM] [2303-16-4]^	0.030	U	ug/L	1	0.030	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Dibenzo(a,h)anthracene [53-70-3]^	0.052	U	ug/L	1	0.052	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Dibenzofuran [132-64-9]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Diethylphthalate [84-66-2]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Dimethoate [SIM] [60-51-5]^	0.043	U	ug/L	1	0.043	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Dimethylphthalate [131-11-3]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Di-n-butylphthalate [84-74-2]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Di-n-octylphthalate [117-84-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Disulfoton [SIM] [298-04-4]^	0.062	U	ug/L	1	0.062	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Ethyl methanesulfonate [62-50-0]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Famphur [SIM] [52-85-7]^	0.052	U	ug/L	1	0.052	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1 | **Lab Sample ID:** AF00046-02 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 10:40 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Fluorene [86-73-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Hexachlorobenzene [SIM] [118-74-1]^	0.027	U	ug/L	1	0.027	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Hexachlorobutadiene [SIM] [87-68-3]^	0.045	U	ug/L	1	0.045	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Hexachlorocyclopentadiene [77-47-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Hexachloroethane [67-72-1]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Hexachloropropene [1888-71-7]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Isodrin [465-73-6]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Isophorone [78-59-1]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Isosafrole [120-58-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Kepone [SIM] [143-50-0]^	3.3	U	ug/L	1	3.3	5.0	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Methapyrilene [91-80-5]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Methyl Methanesulfonate [66-27-3]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Methyl Parathion [SIM] [298-00-0]^	0.061	U	ug/L	1	0.061	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Naphthalene [91-20-3]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Nitrobenzene [98-95-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
N-Nitrosodiethylamine [55-18-5]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitrosodimethylamine [62-75-9]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitrosodi-n-butylamine [924-16-3]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitroso-di-n-propylamine [621-64-7]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	5.4	U	ug/L	1	5.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitrosomethylethylamine [10595-95-6]^	3.7	U	ug/L	1	3.7	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitrosopiperidine [100-75-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
N-Nitrosopyrrolidine [930-55-2]^	4.2	U	ug/L	1	4.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
O,O,O-Triethyl phosphorothioate [126-68-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
o-Toluidine [95-53-4]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Parathion [56-38-2]^	1.2	U	ug/L	1	1.2	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
p-Dimethylaminoazobenzene [60-11-7]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Pentachlorobenzene [SIM] [608-93-5]^	0.034	U	ug/L	1	0.034	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Pentachloronitrobenzene [SIM] [82-68-8]^	0.047	U	ug/L	1	0.047	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Phenacetin [62-44-2]^	2.7	U	ug/L	1	2.7	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Phenanthrene [85-01-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Phenol [108-95-2]^	5.6	U	ug/L	1	5.6	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Phorate [SIM] [298-02-2]^	0.070	U	ug/L	1	0.070	0.10	2A11018	EPA 8270E	01/17/22 13:27	jfi	QV-01
Pronamide [23950-58-5]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Pyrene [129-00-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/13/22 22:16	jfi	
Safrole [94-59-7]^	4.8	U	ug/L	1	4.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	
Thionazin [297-97-2]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 13:27	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*26*	*1*	*50.0*	*52 %*	*33-145*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	
2-Fluorobiphenyl	*32*	*1*	*50.0*	*64 %*	*32-116*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	
2-Fluorophenol	*23*	*1*	*50.0*	*46 %*	*11-100*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	
2-Methylnaphthalene-d10	*6.4*	*1*	*5.71*	*112 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/13/22 22:16*	*jfi*	
Fluoranthene-d10	*5.5*	*1*	*5.71*	*97 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/13/22 22:16*	*jfi*	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1	**Lab Sample ID:** AF00046-02	**Received:** 01/07/22 11:05
Matrix: Ground Water	**Sampled:** 01/06/22 10:40	**Work Order:** AF00046
Project: Citrus Co. LF	**Sampled By:** Steve Messick	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Nitrobenzene-d5	*32*	*1*	*50.0*	*64 %*	*24-107*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	
Phenol-d5	*17*	*1*	*50.0*	*33 %*	*10-100*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	
Terphenyl-d14	*63*	*1*	*50.0*	*127 %*	*52-150*	*2A11018*	*EPA 8270E*	*01/17/22 13:27*	*jfi*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:27	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	2A07013	EPA 8081B	01/10/22 19:27	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*38-142*	*2A07013*	*EPA 8081B*	*01/10/22 19:27*	*JJB*	
Decachlorobiphenyl	*0.69*	*1*	*1.00*	*69 %*	*34-159*	*2A07013*	*EPA 8081B*	*01/10/22 19:27*	*JJB*	

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	
PCB-1221 [11104-28-2]^	0.46	U	ug/L	1	0.46	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	
PCB-1232 [11141-16-5]^	0.47	U	ug/L	1	0.47	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	
PCB-1248 [12672-29-6]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	
PCB-1254 [11097-69-1]^	0.50	U	ug/L	1	0.50	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	
PCB-1260 [11096-82-5]^	0.48	U	ug/L	1	0.48	0.50	2A14004	EPA 8082A	01/18/22 10:23	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.85*	*1*	*1.00*	*85 %*	*38-142*	*2A14004*	*EPA 8082A*	*01/18/22 10:23*	*JJB*	
Decachlorobiphenyl	*0.51*	*1*	*1.00*	*51 %*	*34-159*	*2A14004*	*EPA 8082A*	*01/18/22 10:23*	*JJB*	

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ANALYTICAL RESULTS

Description: EQUIPMENT BLANK 1 | **Lab Sample ID:** AF00046-02 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 10:40 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.28	U	ug/L	1	0.28	0.50	2A12039	EPA 8151A	01/13/22 18:22	FCV	
2,4,5-TP (Silvex) [93-72-1]^	0.44	U	ug/L	1	0.44	0.50	2A12039	EPA 8151A	01/13/22 18:22	FCV	
2,4-D [94-75-7]^	0.27	U	ug/L	1	0.27	0.50	2A12039	EPA 8151A	01/13/22 18:22	FCV	
Dinoseb [88-85-7]^	0.32	U	ug/L	1	0.32	0.50	2A12039	EPA 8151A	01/13/22 18:22	FCV	QV-01
Pentachlorophenol [87-86-5]^	0.19	U	ug/L	1	0.19	0.50	2A12039	EPA 8151A	01/13/22 18:22	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*74 %*	*37-134*	*2A12039*	*EPA 8151A*	*01/13/22 18:22*	*FCV*	

Semivolatile Organic Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2-Dibromo-3-chloropropane [96-12-8]^	0.012	U	ug/L	1	0.012	0.020	2A13027	EPA 8011	01/13/22 18:27	FCV	
1,2-Dibromoethane [106-93-4]^	0.010	U	ug/L	1	0.010	0.020	2A13027	EPA 8011	01/13/22 18:27	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
1,1,1,2-Tetrachloroethane	*0.27*	*1*	*0.250*	*108 %*	*70-130*	*2A13027*	*EPA 8011*	*01/13/22 18:27*	*FCV*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.512**		ug/L	1	0.0230	0.200	2A07034	EPA 7470A	01/11/22 10:12	JMA	

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Arsenic [7440-38-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Barium [7440-39-3]^	50.0	U	ug/L	1	50.0	100	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Beryllium [7440-41-7]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Cadmium [7440-43-9]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Chromium [7440-47-3]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Cobalt [7440-48-4]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Copper [7440-50-8]^	2.50	U	ug/L	1	2.50	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Iron [7439-89-6]^	25.0	U	ug/L	1	25.0	50.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Lead [7439-92-1]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Nickel [7440-02-0]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Selenium [7782-49-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Silver [7440-22-4]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Sodium [7440-23-5]^	0.320	U	mg/L	1	0.320	1.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Thallium [7440-28-0]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Tin [7440-31-5]^	25.0	U	ug/L	1	25.0	50.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Vanadium [7440-62-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:56	JMA	
Zinc [7440-66-6]^	75.0	U	ug/L	1	75.0	200	2A07031	EPA 6020B	01/11/22 13:56	JMA	

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ANALYTICAL RESULTS

Description:	EQUIPMENT BLANK 1	**Lab Sample ID:**	AF00046-02	**Received:**	01/07/22 11:05
Matrix:	Ground Water	**Sampled:**	01/06/22 10:40	**Work Order:**	AF00046
Project:	Citrus Co. LF	**Sampled By:**	Steve Messick		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	0.0098	U	mg/L	1	0.0098	0.020	2A10020	EPA 350.1	01/11/22 10:57	cbarr	
Chloride [16887-00-6]^	0.29	U	mg/L	1	0.29	5.0	2A07014	EPA 300.0	01/07/22 14:15	ASR	
Cyanide (total) [57-12-5]^	0.0067	U	mg/L	1	0.0067	0.010	2A13032	SM 4500CN E-2011	01/14/22 17:55	JMW	
Nitrate as N [14797-55-8]^	0.052	U	mg/L	1	0.052	1.0	2A07014	EPA 300.0	01/07/22 14:15	ASR	
Sulfide [18496-25-8]	0.45	U	mg/L	1	0.45	1.0	2A13014	SM 4500S2 F-2011	01/13/22 10:57	AAL	
Total Dissolved Solids^	**18**		mg/L	1	10	10	2A10004	SM 2540C-2011	01/11/22 16:10	LAM	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: TRIP BLANK 1 | **Lab Sample ID:** AF00046-03 | **Received:** 01/07/22 11:05

Matrix: Water | **Sampled:** 01/06/22 00:00 | **Work Order:** AF00046

Project: Citrus Co. LF | **Sampled By:** ENCO ORL

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
3-Chloropropene [107-05-1]^	1.0	U	ug/L	1	1.0	2.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Acetonitrile [75-05-8]^	8.5	U	ug/L	1	8.5	10	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Acrolein [107-02-8]^	6.4	U	ug/L	1	6.4	10	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Acrylonitrile [107-13-1]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	QV-01
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	QV-01
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Chloroprene [126-99-8]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Ethyl Methacrylate [97-63-2]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Iodomethane [74-88-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	QL-02
Isobutyl alcohol [78-83-1]^	14	U	ug/L	1	14	50	2A10003	EPA 8260D	01/10/22 17:00	KKW	QL-02
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	

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ANALYTICAL RESULTS

Description:	TRIP BLANK 1	**Lab Sample ID:**	AF00046-03	**Received:**	01/07/22 11:05
Matrix:	Water	**Sampled:**	01/06/22 00:00	**Work Order:**	AF00046
Project:	Citrus Co. LF	**Sampled By:**	ENCO ORL		

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Methyl Methacrylate [80-62-6]^	0.68	U	ug/L	1	0.68	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Propionitrile [107-12-0]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Vinyl acetate [108-05-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:00	KKW	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*111 %*	*41-142*	*2A10003*	*EPA 8260D*	*01/10/22 17:00*	*KKW*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*53-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:00*	*KKW*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*41-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:00*	*KKW*	

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ANALYTICAL RESULTS

Description: MW-20 | **Lab Sample ID:** AF00046-04 | **Received:** 01/07/22 11:05

Matrix: Ground Water | **Sampled:** 01/06/22 11:54 | **Work Order:** AF00046

Project: Citrus Co. LF | **Sampled By:** Steve Messick

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
3-Chloropropene [107-05-1]^	1.0	U	ug/L	1	1.0	2.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Acetonitrile [75-05-8]^	8.5	U	ug/L	1	8.5	10	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Acrolein [107-02-8]^	6.4	U	ug/L	1	6.4	10	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Acrylonitrile [107-13-1]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Benzene [71-43-2]^	**1.1**		ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	QV-01
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	QV-01
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Chloroprene [126-99-8]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Ethyl Methacrylate [97-63-2]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Iodomethane [74-88-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	QL-02
Isobutyl alcohol [78-83-1]^	14	U	ug/L	1	14	50	2A10003	EPA 8260D	01/10/22 17:28	KKW	QL-02
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	

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ANALYTICAL RESULTS

Description: MW-20	**Lab Sample ID:** AF00046-04	**Received:** 01/07/22 11:05
Matrix: Ground Water	**Sampled:** 01/06/22 11:54	**Work Order:** AF00046
Project: Citrus Co. LF	**Sampled By:** Steve Messick	

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Methyl Methacrylate [80-62-6]^	0.68	U	ug/L	1	0.68	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Propionitrile [107-12-0]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Vinyl acetate [108-05-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:28	KKW	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*41-142*	*2A10003*	*EPA 8260D*	*01/10/22 17:28*	*KKW*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*53-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:28*	*KKW*	
Toluene-d8	*53*	*1*	*50.0*	*106 %*	*41-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:28*	*KKW*	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
1,3,5-Trinitrobenzene [99-35-4]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
1,3-Dinitrobenzene [99-65-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
1,4-Naphthoquinone [130-15-4]^	4.7	U	ug/L	1	4.7	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
1,4-Phenylenediamine [106-50-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
1-Methylnaphthalene [90-12-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
1-Naphthylamine [134-32-7]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,3,4,6-Tetrachlorophenol [58-90-2]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4,5-Trichlorophenol [95-95-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4,6-Trichlorophenol [88-06-2]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4-Dichlorophenol [120-83-2]^	6.5	U	ug/L	1	6.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4-Dimethylphenol [105-67-9]^	6.4	U	ug/L	1	6.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4-Dinitrophenol [51-28-5]^	7.7	U	ug/L	1	7.7	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,4-Dinitrotoluene [SIM] [121-14-2]^	0.038	U	ug/L	1	0.038	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,6-Dichlorophenol [87-65-0]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2,6-Dinitrotoluene [606-20-2]^	2.9	U	ug/L	1	2.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Acetylaminofluorene [53-96-3]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Chloronaphthalene [91-58-7]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Chlorophenol [95-57-8]^	7.4	U	ug/L	1	7.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1]^	6.0	U	ug/L	1	6.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Methylnaphthalene [91-57-6]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	

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ANALYTICAL RESULTS

Description: MW-20 | **Lab Sample ID:** AF00046-04 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 11:54 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Methylphenol [95-48-7]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Naphthylamine [91-59-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Nitroaniline [88-74-4]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
2-Nitrophenol [88-75-5]^	5.2	U	ug/L	1	5.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5]^	8.2	U	ug/L	1	8.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
3,3'-Dichlorobenzidine [91-94-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
3,3'-Dimethylbenzidine [119-93-7]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
3-Methylcholanthrene [56-49-5]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
3-Nitroaniline [99-09-2]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Aminobiphenyl [92-67-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Bromophenyl-phenylether [101-55-3]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Chloro-3-methylphenol [59-50-7]^	7.3	U	ug/L	1	7.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Chloroaniline [106-47-8]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Chlorophenyl-phenylether [7005-72-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Nitroaniline [100-01-6]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
4-Nitrophenol [100-02-7]^	7.9	U	ug/L	1	7.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
5-Nitro-o-toluidine [99-55-8]^	2.3	U	ug/L	1	2.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
7,12-Dimethylbenz(a)anthracene [57-97-6]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Acenaphthene [83-32-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Acenaphthylene [208-96-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Acetophenone [98-86-2]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Anthracene [120-12-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzo(a)anthracene [56-55-3]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzo(a)pyrene [50-32-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Benzyl alcohol [100-51-6]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Bis(2-chloroethoxy)methane [111-91-1]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Bis(2-chloroethyl)ether [111-44-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Bis(2-chloroisopropyl)ether [108-60-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Bis(2-ethylhexyl)phthalate [117-81-7]^	3.5	U	ug/L	1	3.5	5.0	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Butylbenzylphthalate [85-68-7]^	5.1	U	ug/L	1	5.1	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Chlorobenzilate [SIM] [510-15-6]^	0.029	U	ug/L	1	0.029	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Diallate [SIM] [2303-16-4]^	0.030	U	ug/L	1	0.030	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Dibenzo(a,h)anthracene [53-70-3]^	0.052	U	ug/L	1	0.052	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Dibenzofuran [132-64-9]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Diethylphthalate [84-66-2]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Dimethoate [SIM] [60-51-5]^	0.043	U	ug/L	1	0.043	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Dimethylphthalate [131-11-3]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Di-n-butylphthalate [84-74-2]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Di-n-octylphthalate [117-84-0]^	3.6	U	ug/L	1	3.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Disulfoton [SIM] [298-04-4]^	0.062	U	ug/L	1	0.062	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Ethyl methanesulfonate [62-50-0]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Famphur [SIM] [52-85-7]^	0.052	U	ug/L	1	0.052	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	

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ANALYTICAL RESULTS

Description: MW-20 | **Lab Sample ID:** AF00046-04 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 11:54 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Fluorene [86-73-7]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Hexachlorobenzene [SIM] [118-74-1]^	0.027	U	ug/L	1	0.027	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Hexachlorobutadiene [SIM] [87-68-3]^	0.045	U	ug/L	1	0.045	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Hexachlorocyclopentadiene [77-47-4]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Hexachloroethane [67-72-1]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Hexachloropropene [1888-71-7]^	3.3	U	ug/L	1	3.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Isodrin [465-73-6]^	3.0	U	ug/L	1	3.0	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Isophorone [78-59-1]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Isosafrole [120-58-1]^	2.6	U	ug/L	1	2.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Kepone [SIM] [143-50-0]^	3.3	U	ug/L	1	3.3	5.0	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Methapyrilene [91-80-5]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Methyl Methanesulfonate [66-27-3]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Methyl Parathion [SIM] [298-00-0]^	0.061	U	ug/L	1	0.061	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Naphthalene [91-20-3]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Nitrobenzene [98-95-3]^	3.2	U	ug/L	1	3.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
N-Nitrosodiethylamine [55-18-5]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitrosodimethylamine [62-75-9]^	3.8	U	ug/L	1	3.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitrosodi-n-butylamine [924-16-3]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitroso-di-n-propylamine [621-64-7]^	4.5	U	ug/L	1	4.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	5.4	U	ug/L	1	5.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitrosomethylethylamine [10595-95-6]^	3.7	U	ug/L	1	3.7	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitrosopiperidine [100-75-4]^	3.9	U	ug/L	1	3.9	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
N-Nitrosopyrrolidine [930-55-2]^	4.2	U	ug/L	1	4.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
O,O,O-Triethyl phosphorothioate [126-68-1]^	3.5	U	ug/L	1	3.5	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
o-Toluidine [95-53-4]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Parathion [56-38-2]^	1.2	U	ug/L	1	1.2	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
p-Dimethylaminoazobenzene [60-11-7]^	3.4	U	ug/L	1	3.4	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Pentachlorobenzene [SIM] [608-93-5]^	0.034	U	ug/L	1	0.034	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Pentachloronitrobenzene [SIM] [82-68-8]^	0.047	U	ug/L	1	0.047	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Phenacetin [62-44-2]^	2.7	U	ug/L	1	2.7	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Phenanthrene [85-01-8]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Phenol [108-95-2]^	5.6	U	ug/L	1	5.6	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Phorate [SIM] [298-02-2]^	0.070	U	ug/L	1	0.070	0.10	2A11018	EPA 8270E	01/17/22 14:27	jfi	QV-01
Pronamide [23950-58-5]^	4.3	U	ug/L	1	4.3	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Pyrene [129-00-0]^	0.050	U	ug/L	1	0.050	0.10	2A13002	EPA 8270E	01/14/22 13:19	jfi	
Safrole [94-59-7]^	4.8	U	ug/L	1	4.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	
Thionazin [297-97-2]^	2.8	U	ug/L	1	2.8	10	2A11018	EPA 8270E	01/17/22 14:27	jfi	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*27*	*1*	*50.0*	*54 %*	*33-145*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	
2-Fluorobiphenyl	*34*	*1*	*50.0*	*68 %*	*32-116*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	
2-Fluorophenol	*23*	*1*	*50.0*	*45 %*	*11-100*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	
2-Methylnaphthalene-d10	*5.8*	*1*	*5.71*	*102 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/14/22 13:19*	*jfi*	
Fluoranthene-d10	*6.0*	*1*	*5.71*	*105 %*	*50-150*	*2A13002*	*EPA 8270E*	*01/14/22 13:19*	*jfi*	

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ANALYTICAL RESULTS

Description: MW-20	**Lab Sample ID:** AF00046-04	**Received:** 01/07/22 11:05
Matrix: Ground Water	**Sampled:** 01/06/22 11:54	**Work Order:** AF00046
Project: Citrus Co. LF	**Sampled By:** Steve Messick	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
Nitrobenzene-d5	*33*	*1*	*50.0*	*65 %*	*24-107*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	
Phenol-d5	*17*	*1*	*50.0*	*34 %*	*10-100*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	
Terphenyl-d14	*49*	*1*	*50.0*	*99 %*	*52-150*	*2A11018*	*EPA 8270E*	*01/17/22 14:27*	*jfi*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	2A07013	EPA 8081B	01/10/22 19:39	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	2A07013	EPA 8081B	01/10/22 19:39	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.71*	*1*	*1.00*	*71 %*	*38-142*	*2A07013*	*EPA 8081B*	*01/10/22 19:39*	*JJB*	
Decachlorobiphenyl	*0.90*	*1*	*1.00*	*90 %*	*34-159*	*2A07013*	*EPA 8081B*	*01/10/22 19:39*	*JJB*	

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	
PCB-1221 [11104-28-2]^	0.46	U	ug/L	1	0.46	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	
PCB-1232 [11141-16-5]^	0.47	U	ug/L	1	0.47	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	
PCB-1248 [12672-29-6]^	0.49	U	ug/L	1	0.49	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	
PCB-1254 [11097-69-1]^	0.50	U	ug/L	1	0.50	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	
PCB-1260 [11096-82-5]^	0.48	U	ug/L	1	0.48	0.50	2A14004	EPA 8082A	01/18/22 10:45	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	*0.79*	*1*	*1.00*	*79 %*	*38-142*	*2A14004*	*EPA 8082A*	*01/18/22 10:45*	*JJB*	
Decachlorobiphenyl	*0.63*	*1*	*1.00*	*63 %*	*34-159*	*2A14004*	*EPA 8082A*	*01/18/22 10:45*	*JJB*	

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ANALYTICAL RESULTS

Description: MW-20 | **Lab Sample ID:** AF00046-04 | **Received:** 01/07/22 11:05
Matrix: Ground Water | **Sampled:** 01/06/22 11:54 | **Work Order:** AF00046
Project: Citrus Co. LF | **Sampled By:** Steve Messick

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.28	U	ug/L	1	0.28	0.50	2A12039	EPA 8151A	01/13/22 18:48	FCV	
2,4,5-TP (Silvex) [93-72-1]^	0.44	U	ug/L	1	0.44	0.50	2A12039	EPA 8151A	01/13/22 18:48	FCV	
2,4-D [94-75-7]^	0.27	U	ug/L	1	0.27	0.50	2A12039	EPA 8151A	01/13/22 18:48	FCV	
Dinoseb [88-85-7]^	0.32	U	ug/L	1	0.32	0.50	2A12039	EPA 8151A	01/13/22 18:48	FCV	QV-01
Pentachlorophenol [87-86-5]^	**0.090**	I	ug/L	1	0.0	0.50	2A12039	EPA 8151A	01/13/22 18:48	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*93 %*	*37-134*	*2A12039*	*EPA 8151A*	*01/13/22 18:48*	*FCV*	

Semivolatile Organic Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2-Dibromo-3-chloropropane [96-12-8]^	0.012	U	ug/L	1	0.012	0.020	2A13027	EPA 8011	01/13/22 18:43	FCV	
1,2-Dibromoethane [106-93-4]^	0.010	U	ug/L	1	0.010	0.020	2A13027	EPA 8011	01/13/22 18:43	FCV	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
1,1,1,2-Tetrachloroethane	*0.26*	*1*	*0.250*	*105 %*	*70-130*	*2A13027*	*EPA 8011*	*01/13/22 18:43*	*FCV*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.0230	U	ug/L	1	0.0230	0.200	2A07034	EPA 7470A	01/11/22 10:03	JMA	

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Arsenic [7440-38-2]^	**15.6**		ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Barium [7440-39-3]^	50.0	U	ug/L	1	50.0	100	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Beryllium [7440-41-7]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Cadmium [7440-43-9]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Chromium [7440-47-3]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Cobalt [7440-48-4]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Copper [7440-50-8]^	2.50	U	ug/L	1	2.50	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Iron [7439-89-6]^	**196000**		ug/L	100	2500	5000	2A07031	EPA 6020B	01/11/22 14:17	JMA	
Lead [7439-92-1]^	2.50	U	ug/L	1	2.50	5.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Nickel [7440-02-0]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Selenium [7782-49-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Silver [7440-22-4]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Sodium [7440-23-5]^	**15.3**		mg/L	1	0.320	1.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Thallium [7440-28-0]^	0.500	U	ug/L	1	0.500	1.00	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Tin [7440-31-5]^	25.0	U	ug/L	1	25.0	50.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Vanadium [7440-62-2]^	5.00	U	ug/L	1	5.00	10.0	2A07031	EPA 6020B	01/11/22 13:24	JMA	
Zinc [7440-66-6]^	75.0	U	ug/L	1	75.0	200	2A07031	EPA 6020B	01/11/22 13:24	JMA	

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ANALYTICAL RESULTS

Description:	MW-20	**Lab Sample ID:**	AF00046-04	**Received:**	01/07/22 11:05
Matrix:	Ground Water	**Sampled:**	01/06/22 11:54	**Work Order:**	AF00046
Project:	Citrus Co. LF	**Sampled By:**	Steve Messick		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**2.0**		mg/L	1	0.0098	0.020	2A10020	EPA 350.1	01/11/22 11:02	cbarr	
Chloride [16887-00-6]^	**74**		mg/L	1	0.29	5.0	2A07014	EPA 300.0	01/07/22 14:30	ASR	
Cyanide (total) [57-12-5]^	0.0067	U	mg/L	1	0.0067	0.010	2A13032	SM 4500CN E-2011	01/14/22 17:55	JMW	
Nitrate as N [14797-55-8]^	**0.058**	I	mg/L	1	0.052	1.0	2A07014	EPA 300.0	01/07/22 14:30	ASR	
Sulfide [18496-25-8]	**7.7**		mg/L	1	0.45	1.0	2A13014	SM 4500S2 F-2011	01/13/22 10:57	AAL	
Total Dissolved Solids^	**360**		mg/L	1	10	10	2A10004	SM 2540C-2011	01/11/22 16:10	LAM	

Field Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Depth to Water	**110.09**		Ft	1			2A17017	Field	01/06/22 11:54	RBK	
Dissolved Oxygen	**0.30**		mg/L	1	0	0	2A17017	Field	01/06/22 11:54	RBK	
Oxidation/Reduction Potential	**-150.2**		mV	1	-999	-999	2A17017	Field	01/06/22 11:54	RBK	
pH	**6.23**		pH Units	1			2A17017	Field	01/06/22 11:54	RBK	
Specific Conductance (EC)	**958**		umhos/cm	1	0	0	2A17017	Field	01/06/22 11:54	RBK	
Temperature	**26.0**		°C	1	0	0	2A17017	Field	01/06/22 11:54	RBK	
Turbidity	**4.11**		NTU	1	0	0	2A17017	Field	01/06/22 11:54	RBK	
Water Elevation	**9.67**		Ft	1			2A17017	Field	01/06/22 11:54	RBK	

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ANALYTICAL RESULTS

Description: TRIP BLANK 2 | **Lab Sample ID:** AF00046-05 | **Received:** 01/07/22 11:05

Matrix: Water | **Sampled:** 01/06/22 00:00 | **Work Order:** AF00046

Project: Citrus Co. LF | **Sampled By:** ENCO ORL

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
3-Chloropropene [107-05-1]^	1.0	U	ug/L	1	1.0	2.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Acetonitrile [75-05-8]^	8.5	U	ug/L	1	8.5	10	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Acrolein [107-02-8]^	6.4	U	ug/L	1	6.4	10	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Acrylonitrile [107-13-1]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	QV-01
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	QV-01
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Chloroprene [126-99-8]^	0.66	U	ug/L	1	0.66	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Ethyl Methacrylate [97-63-2]^	0.54	U	ug/L	1	0.54	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Iodomethane [74-88-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	QL-02
Isobutyl alcohol [78-83-1]^	14	U	ug/L	1	14	50	2A10003	EPA 8260D	01/10/22 17:56	KKW	QL-02
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description:	TRIP BLANK 2	**Lab Sample ID:**	AF00046-05	**Received:**	01/07/22 11:05
Matrix:	Water	**Sampled:**	01/06/22 00:00	**Work Order:**	AF00046
Project:	Citrus Co. LF	**Sampled By:**	ENCO ORL		

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Methacrylonitrile [126-98-7]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Methyl Methacrylate [80-62-6]^	0.68	U	ug/L	1	0.68	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Propionitrile [107-12-0]^	5.0	U	ug/L	1	5.0	10	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Vinyl acetate [108-05-4]^	2.5	U	ug/L	1	2.5	5.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	2A10003	EPA 8260D	01/10/22 17:56	KKW	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*41-142*	*2A10003*	*EPA 8260D*	*01/10/22 17:56*	*KKW*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*53-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:56*	*KKW*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*41-146*	*2A10003*	*EPA 8260D*	*01/10/22 17:56*	*KKW*	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 2A10003 - EPA 5030B_MS

Blank (2A10003-BLK1) Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 09:38

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							
1,1-Dichloroethane	0.62	U	1.0	ug/L							
1,1-Dichloroethene	0.94	U	1.0	ug/L							
1,1-Dichloropropene	0.74	U	1.0	ug/L							
1,2,3-Trichloropropane	0.64	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.70	U	1.0	ug/L							
1,2-Dichlorobenzene	0.73	U	1.0	ug/L							
1,2-Dichloroethane	0.63	U	1.0	ug/L							
1,2-Dichloropropane	0.80	U	1.0	ug/L							
1,3-Dichlorobenzene	0.77	U	1.0	ug/L							
1,3-Dichloropropane	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.76	U	1.0	ug/L							
2,2-Dichloropropane	0.66	U	1.0	ug/L							
2-Butanone	4.5	U	5.0	ug/L							
2-Hexanone	2.5	U	5.0	ug/L							
3-Chloropropene	1.0	U	2.0	ug/L							
4-Methyl-2-pentanone	2.5	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Acetonitrile	8.5	U	10	ug/L							
Acrolein	6.4	U	10	ug/L							
Acrylonitrile	5.0	U	10	ug/L							
Benzene	0.71	U	1.0	ug/L							
Bromochloromethane	0.94	U	1.0	ug/L							
Bromodichloromethane	0.52	U	1.0	ug/L							
Bromoform	0.75	U	1.0	ug/L							
Bromomethane	0.95	U	1.0	ug/L							
Carbon disulfide	2.5	U	5.0	ug/L							
Carbon tetrachloride	0.94	U	1.0	ug/L							
Chlorobenzene	0.72	U	1.0	ug/L							
Chloroethane	0.98	U	1.0	ug/L							
Chloroform	0.80	U	1.0	ug/L							
Chloromethane	0.82	U	1.0	ug/L							
Chloroprene	0.66	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.53	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.59	U	1.0	ug/L							
Dibromochloromethane	0.50	U	1.0	ug/L							
Dibromomethane	0.84	U	1.0	ug/L							
Dichlorodifluoromethane	0.74	U	1.0	ug/L							
Ethyl Methacrylate	0.54	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
Hexachlorobutadiene	0.70	U	1.0	ug/L							
Iodomethane	2.5	U	5.0	ug/L							
Isobutyl alcohol	14	U	50	ug/L							
m,p-Xylenes	1.3	U	2.0	ug/L							
Methacrylonitrile	5.0	U	10	ug/L							
Methyl Methacrylate	0.68	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 2A10003 - EPA 5030B_MS - Continued

Blank (2A10003-BLK1) Continued Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 09:38

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	2.5	U	5.0	ug/L							
Naphthalene	0.82	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.61	U	1.0	ug/L							
Tetrachloroethene	0.76	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.79	U	1.0	ug/L							
Trichloroethene	0.89	U	1.0	ug/L							
Trichlorofluoromethane	0.94	U	1.0	ug/L							
Vinyl acetate	2.5	U	5.0	ug/L							
Vinyl chloride	0.71	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*41-142*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*53-146*			
Toluene-d8	*53*			*ug/L*	*50.0*		*105*	*41-146*			

LCS (2A10003-BS1) Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 08:42

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		110	47-139			
Benzene	24		1.0	ug/L	20.0		118	56-136			
Chlorobenzene	23		1.0	ug/L	20.0		115	51-139			
Toluene	22		1.0	ug/L	20.0		110	64-131			
Trichloroethene	22		1.0	ug/L	20.0		108	62-135			
4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*112*	*41-142*			
Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*53-146*			
Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*41-146*			

Matrix Spike (2A10003-MS1) Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 18:23

Source: AE10133-91

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.94 U	118	47-139			
Benzene	24		1.0	ug/L	20.0	0.71 U	120	56-136			
Chlorobenzene	23		1.0	ug/L	20.0	0.72 U	115	51-139			
Toluene	22		1.0	ug/L	20.0	0.72 U	108	64-131			
Trichloroethene	23		1.0	ug/L	20.0	0.89 U	114	62-135			
4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*109*	*41-142*			
Dibromofluoromethane	*55*			*ug/L*	*50.0*		*110*	*53-146*			
Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*41-146*			

Matrix Spike Dup (2A10003-MSD1) Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 18:51

Source: AE10133-91

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.94 U	118	47-139	0	16	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 2A10003 - EPA 5030B_MS - Continued

Matrix Spike Dup (2A10003-MSD1) Continued Prepared: 01/10/2022 00:00 Analyzed: 01/10/2022 18:51

Source: AE10133-91

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene	24		1.0	ug/L	20.0	0.71 U	120	56-136	0.1	14	
Chlorobenzene	22		1.0	ug/L	20.0	0.72 U	110	51-139	5	13	
Toluene	22		1.0	ug/L	20.0	0.72 U	108	64-131	0.3	16	
Trichloroethene	22		1.0	ug/L	20.0	0.89 U	110	62-135	4	20	
4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*41-142*			
Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*53-146*			
Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*41-146*			

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 2A11018 - EPA 3510C_MS

Blank (2A11018-BLK1) Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 10:52

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	3.2	U	10	ug/L							
1,3,5-Trinitrobenzene	5.1	U	10	ug/L							
1,3-Dinitrobenzene	3.6	U	10	ug/L							
1,4-Naphthoquinone	4.7	U	10	ug/L							
1,4-Phenylenediamine	3.3	U	10	ug/L							
1-Naphthylamine	2.3	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	3.4	U	10	ug/L							
2,4,5-Trichlorophenol	3.9	U	10	ug/L							
2,4,6-Trichlorophenol	6.4	U	10	ug/L							
2,4-Dichlorophenol	6.5	U	10	ug/L							
2,4-Dimethylphenol	6.4	U	10	ug/L							
2,4-Dinitrophenol	7.7	U	10	ug/L							
2,4-Dinitrotoluene [SIM]	0.038	U	0.10	ug/L							
2,6-Dichlorophenol	3.8	U	10	ug/L							
2,6-Dinitrotoluene	2.9	U	10	ug/L							
2-Acetylaminofluorene	3.9	U	10	ug/L							
2-Chloronaphthalene	3.2	U	10	ug/L							
2-Chlorophenol	7.4	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	6.0	U	10	ug/L							
2-Methylphenol	3.5	U	10	ug/L							
2-Naphthylamine	2.3	U	10	ug/L							
2-Nitroaniline	3.3	U	10	ug/L							
2-Nitrophenol	5.2	U	10	ug/L							
3 & 4-Methylphenol	8.2	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	3.6	U	10	ug/L							
3-Methylcholanthrene	3.0	U	10	ug/L							
3-Nitroaniline	3.3	U	10	ug/L							
4-Aminobiphenyl	2.6	U	10	ug/L							
4-Bromophenyl-phenylether	3.3	U	10	ug/L							
4-Chloro-3-methylphenol	7.3	U	10	ug/L							
4-Chloroaniline	4.3	U	10	ug/L							
4-Chlorophenyl-phenylether	3.2	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 2A11018 - EPA 3510C_MS - Continued

Blank (2A11018-BLK1) Continued Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 10:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitrophenol	7.9	U	10	ug/L							
5-Nitro-o-toluidine	2.3	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	3.3	U	10	ug/L							
Acetophenone	3.8	U	10	ug/L							
Benzyl alcohol	3.9	U	10	ug/L							
Bis(2-chloroethoxy)methane	3.3	U	10	ug/L							
Bis(2-chloroethyl)ether	3.8	U	10	ug/L							
Bis(2-chloroisopropyl)ether	3.5	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	3.5	U	5.0	ug/L							
Butylbenzylphthalate	5.1	U	10	ug/L							
Chlorobenzilate [SIM]	0.029	U	0.10	ug/L							
Diallate [SIM]	0.030	U	0.10	ug/L							
Dibenzofuran	2.8	U	10	ug/L							
Diethylphthalate	3.0	U	10	ug/L							
Dimethoate [SIM]	0.043	U	0.10	ug/L							
Dimethylphthalate	3.0	U	10	ug/L							
Di-n-butylphthalate	3.2	U	10	ug/L							
Di-n-octylphthalate	3.6	U	10	ug/L							
Disulfoton [SIM]	0.062	U	0.10	ug/L							
Ethyl methanesulfonate	3.3	U	10	ug/L							
Famphur [SIM]	0.052	U	0.10	ug/L							
Hexachlorobenzene [SIM]	0.027	U	0.10	ug/L							
Hexachlorobutadiene [SIM]	0.045	U	0.10	ug/L							
Hexachlorocyclopentadiene	3.8	U	10	ug/L							
Hexachloroethane	3.0	U	10	ug/L							
Hexachloropropene	3.3	U	10	ug/L							
Isodrin	3.0	U	10	ug/L							
Isophorone	4.5	U	10	ug/L							
Isosafrole	2.6	U	10	ug/L							
Kepone [SIM]	3.3	U	5.0	ug/L							
Methapyrilene	3.4	U	10	ug/L							
Methyl Methanesulfonate	3.4	U	10	ug/L							
Methyl Parathion [SIM]	0.061	U	0.10	ug/L							
Nitrobenzene	3.2	U	10	ug/L							
N-Nitrosodiethylamine	3.9	U	10	ug/L							
N-Nitrosodimethylamine	3.8	U	10	ug/L							
N-Nitrosodi-n-butylamine	4.5	U	10	ug/L							
N-Nitroso-di-n-propylamine	4.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	5.4	U	10	ug/L							
N-Nitrosomethylethylamine	3.7	U	10	ug/L							
N-Nitrosopiperidine	3.9	U	10	ug/L							
N-Nitrosopyrrolidine	4.2	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	3.5	U	10	ug/L							
o-Toluidine	3.4	U	10	ug/L							
Parathion	1.2	U	10	ug/L							
p-Dimethylaminoazobenzene	3.4	U	10	ug/L							
Pentachlorobenzene [SIM]	0.034	U	0.10	ug/L							
Pentachloronitrobenzene [SIM]	0.047	U	0.10	ug/L							
Phenacetin	2.7	U	10	ug/L							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 2A11018 - EPA 3510C_MS - Continued

Blank (2A11018-BLK1) Continued Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 10:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	5.6	U	10	ug/L							
Phorate [SIM]	0.070	U	0.10	ug/L							
Pronamide	4.3	U	10	ug/L							
Safrole	4.8	U	10	ug/L							
Thionazin	2.8	U	10	ug/L							
2,4,6-Tribromophenol	*22*			*ug/L*	*50.0*		*45*	*33-145*			
2-Fluorobiphenyl	*28*			*ug/L*	*50.0*		*55*	*32-116*			
2-Fluorophenol	*20*			*ug/L*	*50.0*		*39*	*11-100*			
Nitrobenzene-d5	*30*			*ug/L*	*50.0*		*60*	*24-107*			
Phenol-d5	*13*			*ug/L*	*50.0*		*27*	*10-100*			
Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*52-150*			

LCS (2A11018-BS1) Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 11:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-Dinitrotoluene	43		10	ug/L	50.0		86	52-158			
2-Chlorophenol	36		10	ug/L	50.0		72	17-110			
4-Chloro-3-methylphenol	40		10	ug/L	50.0		80	35-131			
4-Nitrophenol	23		10	ug/L	50.0		45	10-94			
N-Nitroso-di-n-propylamine	50		10	ug/L	50.0		99	26-135			
Phenol	23		10	ug/L	50.0		47	10-60			
2,4,6-Tribromophenol	*29*			*ug/L*	*50.0*		*58*	*33-145*			
2-Fluorobiphenyl	*33*			*ug/L*	*50.0*		*66*	*32-116*			
2-Fluorophenol	*26*			*ug/L*	*50.0*		*51*	*11-100*			
Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*73*	*24-107*			
Phenol-d5	*19*			*ug/L*	*50.0*		*38*	*10-100*			
Terphenyl-d14	*51*			*ug/L*	*50.0*		*102*	*52-150*			

Matrix Spike (2A11018-MS1) Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 12:22

Source: AF00159-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-Dinitrotoluene	48		10	ug/L	50.0	3.2 U	95	52-158			
2-Chlorophenol	35		10	ug/L	50.0	7.4 U	71	17-110			
4-Chloro-3-methylphenol	43		10	ug/L	50.0	7.3 U	85	35-131			
4-Nitrophenol	22		10	ug/L	50.0	7.9 U	43	10-94			
N-Nitroso-di-n-propylamine	50		10	ug/L	50.0	4.5 U	99	26-135			
Phenol	20		10	ug/L	50.0	5.6 U	41	10-60			
2,4,6-Tribromophenol	*31*			*ug/L*	*50.0*		*62*	*33-145*			
2-Fluorobiphenyl	*35*			*ug/L*	*50.0*		*71*	*32-116*			
2-Fluorophenol	*22*			*ug/L*	*50.0*		*45*	*11-100*			
Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*73*	*24-107*			
Phenol-d5	*16*			*ug/L*	*50.0*		*33*	*10-100*			
Terphenyl-d14	*55*			*ug/L*	*50.0*		*110*	*52-150*			

Matrix Spike Dup (2A11018-MSD1) Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 12:52

Source: AF00159-01

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

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 2A11018 - EPA 3510C_MS - Continued

Matrix Spike Dup (2A11018-MSD1) Continued Prepared: 01/11/2022 14:45 Analyzed: 01/12/2022 12:52

Source: AF00159-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-Dinitrotoluene	43		10	ug/L	50.0	3.2 U	86	52-158	11	18	
2-Chlorophenol	29		10	ug/L	50.0	7.4 U	59	17-110	19	16	QM-11
4-Chloro-3-methylphenol	37		10	ug/L	50.0	7.3 U	74	35-131	13	16	
4-Nitrophenol	18		10	ug/L	50.0	7.9 U	36	10-94	18	15	QM-11
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0	4.5 U	84	26-135	16	18	
Phenol	16		10	ug/L	50.0	5.6 U	32	10-60	23	9	QM-11
2,4,6-Tribromophenol	*27*			*ug/L*	*50.0*		*53*	*33-145*			
2-Fluorobiphenyl	*30*			*ug/L*	*50.0*		*60*	*32-116*			
2-Fluorophenol	*18*			*ug/L*	*50.0*		*36*	*11-100*			
Nitrobenzene-d5	*31*			*ug/L*	*50.0*		*62*	*24-107*			
Phenol-d5	*13*			*ug/L*	*50.0*		*26*	*10-100*			
Terphenyl-d14	*48*			*ug/L*	*50.0*		*97*	*52-150*			

Batch 2A13002 - EPA 3511_MS

Blank (2A13002-BLK1) Prepared: 01/13/2022 08:00 Analyzed: 01/13/2022 20:28

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1-Methylnaphthalene	0.050	U	0.10	ug/L							
2-Methylnaphthalene	0.050	U	0.10	ug/L							
Acenaphthene	0.050	U	0.10	ug/L							
Acenaphthylene	0.050	U	0.10	ug/L							
Anthracene	0.050	U	0.10	ug/L							
Benzo(a)anthracene	0.050	U	0.10	ug/L							
Benzo(a)pyrene	0.050	U	0.10	ug/L							
Benzo(b)fluoranthene	0.059	U	0.10	ug/L							
Benzo(g,h,i)perylene	0.050	U	0.10	ug/L							
Benzo(k)fluoranthene	0.050	U	0.10	ug/L							
Chrysene	0.051	U	0.10	ug/L							
Dibenzo(a,h)anthracene	0.052	U	0.10	ug/L							
Fluoranthene	0.051	U	0.10	ug/L							
Fluorene	0.050	U	0.10	ug/L							
Indeno(1,2,3-cd)pyrene	0.050	U	0.10	ug/L							
Naphthalene	0.050	U	0.10	ug/L							
Phenanthrene	0.050	U	0.10	ug/L							
Pyrene	0.050	U	0.10	ug/L							
2-Methylnaphthalene-d10	*5.8*			*ug/L*	*5.71*		*101*	*50-150*			
Fluoranthene-d10	*5.9*			*ug/L*	*5.71*		*104*	*50-150*			

LCS (2A13002-BS1) Prepared: 01/13/2022 08:00 Analyzed: 01/13/2022 20:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.6		0.10	ug/L	5.71		98	80-120			
Benzo(a)pyrene	4.7		0.10	ug/L	5.71		82	73-149			
Benzo(g,h,i)perylene	5.1		0.10	ug/L	5.71		89	57-124			
Naphthalene	5.4		0.10	ug/L	5.71		94	68-120			
2-Methylnaphthalene-d10	*5.7*			*ug/L*	*5.71*		*99*	*50-150*			
Fluoranthene-d10	*5.9*			*ug/L*	*5.71*		*103*	*50-150*			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 2A13002 - EPA 3511_MS - Continued

Matrix Spike (2A13002-MS1) Prepared: 01/13/2022 08:00 Analyzed: 01/13/2022 21:11

Source: AF00159-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.9		0.10	ug/L	5.71	0.050 U	104	80-120			
Benzo(a)pyrene	4.3		0.10	ug/L	5.71	0.050 U	76	73-149			
Benzo(g,h,i)perylene	4.5		0.10	ug/L	5.71	0.050 U	78	57-124			
Naphthalene	5.7		0.10	ug/L	5.71	0.050 U	100	68-120			
2-Methylnaphthalene-d10	*5.9*			*ug/L*	*5.71*		*104*	*50-150*			
Fluoranthene-d10	*5.8*			*ug/L*	*5.71*		*102*	*50-150*			

Matrix Spike Dup (2A13002-MSD1) Prepared: 01/13/2022 08:00 Analyzed: 01/13/2022 21:33

Source: AF00159-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.5		0.10	ug/L	5.71	0.050 U	96	80-120	8	25	
Benzo(a)pyrene	4.1		0.10	ug/L	5.71	0.050 U	71	73-149	6	25	QM-07
Benzo(g,h,i)perylene	4.2		0.10	ug/L	5.71	0.050 U	73	57-124	7	25	
Naphthalene	5.3		0.10	ug/L	5.71	0.050 U	93	68-120	7	25	
2-Methylnaphthalene-d10	*5.8*			*ug/L*	*5.71*		*101*	*50-150*			
Fluoranthene-d10	*6.0*			*ug/L*	*5.71*		*105*	*50-150*			

Organochlorine Pesticides by GC - Quality Control

Batch 2A07013 - EPA 3510C

Blank (2A07013-BLK1) Prepared: 01/07/2022 12:00 Analyzed: 01/10/2022 10:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.020	U	0.050	ug/L							
4,4'-DDE	0.036	U	0.050	ug/L							
4,4'-DDT	0.025	U	0.050	ug/L							
Aldrin	0.032	U	0.050	ug/L							
alpha-BHC	0.026	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.36	U	0.50	ug/L							
Chlordane-alpha	0.022	U	0.050	ug/L							
Chlordane-gamma	0.024	U	0.050	ug/L							
delta-BHC	0.019	U	0.050	ug/L							
Dieldrin	0.017	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.017	U	0.050	ug/L							
Endosulfan sulfate	0.020	U	0.050	ug/L							
Endrin	0.014	U	0.050	ug/L							
Endrin aldehyde	0.020	U	0.050	ug/L							
gamma-BHC	0.021	U	0.050	ug/L							
Heptachlor	0.026	U	0.050	ug/L							
Heptachlor epoxide	0.018	U	0.050	ug/L							
Methoxychlor	0.020	U	0.050	ug/L							
Toxaphene	0.48	U	0.50	ug/L							
2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*38-142*			
Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*34-159*			

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 2A07013 - EPA 3510C - Continued

LCS (2A07013-BS1) Prepared: 01/07/2022 12:00 Analyzed: 01/10/2022 10:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.70		0.050	ug/L	1.00		70	37-125			
Dieldrin	1.0		0.050	ug/L	1.00		101	46-127			
Endrin	0.88		0.050	ug/L	1.00		88	28-143			
2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*38-142*			
Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*101*	*34-159*			

Matrix Spike (2A07013-MS1) Prepared: 01/07/2022 12:00 Analyzed: 01/10/2022 11:03

Source: AF00055-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	3.2		0.25	ug/L	5.00	0.12 U	64	37-125			
Dieldrin	3.9		0.25	ug/L	5.00	0.085 U	78	46-127			
Endrin	3.8		0.25	ug/L	5.00	0.070 U	75	28-143			
2,4,5,6-TCMX	*3.8*			*ug/L*	*5.00*		*75*	*38-142*			
Decachlorobiphenyl	*4.3*			*ug/L*	*5.00*		*86*	*34-159*			

Matrix Spike Dup (2A07013-MSD1) Prepared: 01/07/2022 12:00 Analyzed: 01/10/2022 11:15

Source: AF00055-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	3.0		0.25	ug/L	5.00	0.12 U	59	37-125	8	24	
Dieldrin	4.2		0.25	ug/L	5.00	0.085 U	84	46-127	7	21	
Endrin	3.8		0.25	ug/L	5.00	0.070 U	77	28-143	3	22	
2,4,5,6-TCMX	*4.4*			*ug/L*	*5.00*		*88*	*38-142*			
Decachlorobiphenyl	*4.5*			*ug/L*	*5.00*		*90*	*34-159*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 2A14004 - EPA 3510C

Blank (2A14004-BLK1) Prepared: 01/14/2022 07:00 Analyzed: 01/18/2022 08:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.49	U	0.50	ug/L							
PCB-1221	0.46	U	0.50	ug/L							
PCB-1232	0.47	U	0.50	ug/L							
PCB-1248	0.49	U	0.50	ug/L							
PCB-1254	0.50	U	0.50	ug/L							
PCB-1260	0.48	U	0.50	ug/L							
2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*38-142*			
Decachlorobiphenyl	*0.87*			*ug/L*	*1.00*		*87*	*34-159*			

LCS (2A14004-BS1) Prepared: 01/14/2022 07:00 Analyzed: 01/18/2022 08:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	15		0.50	ug/L	10.0		146	11-162			
PCB-1260	16		0.50	ug/L	10.0		158	10-166			
2,4,5,6-TCMX	*1.1*			*ug/L*	*1.00*		*108*	*38-142*			
Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*34-159*			

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Polychlorinated Biphenyls by GC - Quality Control

Batch 2A14004 - EPA 3510C - Continued

Matrix Spike (2A14004-MS1) Prepared: 01/14/2022 07:00 Analyzed: 01/18/2022 09:04

Source: AF00159-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	14		0.50	ug/L	10.0	0.49 U	141	11-162			
PCB-1260	13		0.50	ug/L	10.0	0.48 U	129	10-166			
2,4,5,6-TCMX	*0.98*			*ug/L*	*1.00*		*98*	*38-142*			
Decachlorobiphenyl	*0.71*			*ug/L*	*1.00*		*71*	*34-159*			

Matrix Spike Dup (2A14004-MSD1) Prepared: 01/14/2022 07:00 Analyzed: 01/18/2022 09:16

Source: AF00159-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	14		0.50	ug/L	10.0	0.49 U	142	11-162	0.7	23	
PCB-1260	15		0.50	ug/L	10.0	0.48 U	149	10-166	14	13	QM-11
2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*104*	*38-142*			
Decachlorobiphenyl	*0.92*			*ug/L*	*1.00*		*92*	*34-159*			

Chlorinated Herbicides by GC - Quality Control

Batch 2A12039 - EPA 3510C

Blank (2A12039-BLK1) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 15:02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
2,4-DCAA [2C]	*1.7*			*ug/L*	*2.00*		*86*	*37-134*			

Blank (2A12039-BLK2) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 15:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.4	U	2.5	ug/L							
2,4,5-TP (Silvex)	2.2	U	2.5	ug/L							
2,4-D	1.4	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.95	U	2.5	ug/L							
2,4-DCAA [2C]	*9.9*			*ug/L*	*10.0*		*99*	*37-134*			

Blank (2A12039-BLK3) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 15:51

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	1.4	U	2.5	ug/L							
2,4,5-TP (Silvex)	2.2	U	2.5	ug/L							
2,4-D	1.4	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.95	U	2.5	ug/L							
2,4-DCAA [2C]	*8.8*			*ug/L*	*10.0*		*88*	*37-134*			

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 2A12039 - EPA 3510C - Continued

LCS (2A12039-BS1) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 16:17

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.4		0.50	ug/L	2.00		68	24-135			
2,4-D	1.8		0.50	ug/L	2.00		90	20-134			
2,4-DCAA [2C]	*1.8*			*ug/L*	*2.00*		*92*	*37-134*			

Matrix Spike (2A12039-MS1) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 16:42

Source: AE09818-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	6.8		2.5	ug/L	10.0	2.2 U	68	24-135			
2,4-D	10		2.5	ug/L	10.0	1.4 U	100	20-134			
2,4-DCAA [2C]	*10*			*ug/L*	*10.0*		*102*	*37-134*			

Matrix Spike Dup (2A12039-MSD1) Prepared: 01/12/2022 15:30 Analyzed: 01/13/2022 17:07

Source: AE09818-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	7.7		2.5	ug/L	10.0	2.2 U	77	24-135	13	19	
2,4-D	9.2		2.5	ug/L	10.0	1.4 U	92	20-134	9	19	
2,4-DCAA [2C]	*12*			*ug/L*	*10.0*		*116*	*37-134*			

Semivolatile Organic Compounds by GC - Quality Control

Batch 2A13027 - EPA 504/8011

Blank (2A13027-BLK1) Prepared: 01/13/2022 11:03 Analyzed: 01/13/2022 14:57

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.012	U	0.020	ug/L							
1,2-Dibromoethane	0.010	U	0.020	ug/L							
1,1,1,2-Tetrachloroethane	*0.26*			*ug/L*	*0.250*		*102*	*70-130*			

LCS (2A13027-BS1) Prepared: 01/13/2022 11:03 Analyzed: 01/13/2022 15:29

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.21		0.020	ug/L	0.250		86	61-139			
1,2-Dibromoethane	0.24		0.020	ug/L	0.250		95	65-133			
1,1,1,2-Tetrachloroethane	*0.26*			*ug/L*	*0.250*		*106*	*70-130*			

Matrix Spike (2A13027-MS1) Prepared: 01/13/2022 11:03 Analyzed: 01/13/2022 15:45

Source: AF00159-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.25		0.020	ug/L	0.250	0.012 U	100	61-139			
1,2-Dibromoethane	0.25		0.020	ug/L	0.250	0.010 U	102	65-133			
1,1,1,2-Tetrachloroethane	*0.27*			*ug/L*	*0.250*		*108*	*70-130*			

Matrix Spike Dup (2A13027-MSD1) Prepared: 01/13/2022 11:03 Analyzed: 01/13/2022 16:01

Source: AF00159-01

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

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GC - Quality Control

Batch 2A13027 - EPA 504/8011 - Continued

Matrix Spike Dup (2A13027-MSD1) Continued Prepared: 01/13/2022 11:03 Analyzed: 01/13/2022 16:01

Source: AF00159-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.24		0.020	ug/L	0.250	0.012 U	97	61-139	2	12	
1,2-Dibromoethane	0.24		0.020	ug/L	0.250	0.010 U	98	65-133	4	17	
1,1,1,2-Tetrachloroethane	*0.27*			*ug/L*	*0.250*		*108*	*70-130*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07034 - EPA 7470A

Blank (2A07034-BLK1) Prepared: 01/10/2022 12:08 Analyzed: 01/11/2022 08:35

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0230	U	0.200	ug/L							

LCS (2A07034-BS1) Prepared: 01/10/2022 12:08 Analyzed: 01/11/2022 08:38

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.95		0.200	ug/L	5.00		99	80-120			

Matrix Spike (2A07034-MS1) Prepared: 01/10/2022 12:08 Analyzed: 01/11/2022 08:45

Source: AF00046-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.66		0.200	ug/L	5.00	0.0230 U	53	75-125			QM-07

Matrix Spike Dup (2A07034-MSD1) Prepared: 01/10/2022 12:08 Analyzed: 01/11/2022 08:48

Source: AF00046-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.66		0.200	ug/L	5.00	0.0230 U	53	75-125	0.09	20	QM-07

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07031 - EPA 3005A

Blank (2A07031-BLK1) Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 12:51

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	2.50	U	5.00	ug/L							
Arsenic	5.00	U	10.0	ug/L							
Barium	50.0	U	100	ug/L							
Beryllium	0.500	U	1.00	ug/L							
Cadmium	0.500	U	1.00	ug/L							
Chromium	5.00	U	10.0	ug/L							
Cobalt	5.00	U	10.0	ug/L							
Copper	2.50	U	10.0	ug/L							
Iron	25.0	U	50.0	ug/L							
Lead	2.50	U	5.00	ug/L							
Nickel	5.00	U	10.0	ug/L							
Selenium	5.00	U	10.0	ug/L							
Silver	0.500	U	1.00	ug/L							

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QUALITY CONTROL DATA

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07031 - EPA 3005A - Continued

Blank (2A07031-BLK1) Continued Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 12:51

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	0.500	U	1.00	mg/L							
Thallium	0.500	U	1.00	ug/L							
Tin	25.0	U	50.0	ug/L							
Vanadium	5.00	U	10.0	ug/L							
Zinc	75.0	U	200	ug/L							

Blank (2A07031-BLK2) Prepared: 01/11/2022 09:04 Analyzed: 01/12/2022 12:29

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.250	U	0.500	ug/L							
Arsenic	0.500	U	1.00	ug/L							
Barium	5.00	U	10.0	ug/L							
Beryllium	0.0500	U	0.100	ug/L							
Cadmium	0.0500	U	0.100	ug/L							
Chromium	0.500	U	1.00	ug/L							
Cobalt	0.500	U	1.00	ug/L							
Copper	0.250	U	1.00	ug/L							
Iron	2.50	U	5.00	ug/L							
Lead	0.250	U	0.500	ug/L							
Nickel	0.500	U	1.00	ug/L							
Selenium	0.500	U	1.00	ug/L							
Silver	0.0500	U	0.100	ug/L							
Sodium	0.0500	U	0.100	mg/L							
Thallium	0.0500	U	0.100	ug/L							
Tin	2.50	U	5.00	ug/L							
Vanadium	0.500	U	1.00	ug/L							
Zinc	7.50	U	20.0	ug/L							

Blank (2A07031-BLK3) Prepared: 01/10/2022 09:36 Analyzed: 01/12/2022 13:28

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	2.50	U	5.00	ug/L							
Arsenic	5.00	U	10.0	ug/L							
Barium	50.0	U	100	ug/L							
Beryllium	0.500	U	1.00	ug/L							
Cadmium	0.500	U	1.00	ug/L							
Chromium	5.00	U	10.0	ug/L							
Cobalt	5.00	U	10.0	ug/L							
Copper	2.50	U	10.0	ug/L							
Iron	25.0	U	50.0	ug/L							
Lead	2.50	U	5.00	ug/L							
Nickel	5.00	U	10.0	ug/L							
Selenium	5.00	U	10.0	ug/L							
Silver	0.500	U	1.00	ug/L							
Sodium	0.500	U	1.00	mg/L							
Thallium	0.500	U	1.00	ug/L							
Tin	25.0	U	50.0	ug/L							
Vanadium	5.00	U	10.0	ug/L							

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QUALITY CONTROL DATA

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07031 - EPA 3005A - Continued

Blank (2A07031-BLK3) Continued Prepared: 01/10/2022 09:36 Analyzed: 01/12/2022 13:28

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	75.0	U	200	ug/L							

Blank (2A07031-BLK4) Prepared: 01/11/2022 09:04 Analyzed: 01/12/2022 13:32

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.250	U	0.500	ug/L							
Arsenic	0.500	U	1.00	ug/L							
Barium	5.00	U	10.0	ug/L							
Beryllium	0.0500	U	0.100	ug/L							
Cadmium	0.0500	U	0.100	ug/L							
Chromium	0.500	U	1.00	ug/L							
Cobalt	0.500	U	1.00	ug/L							
Copper	0.250	U	1.00	ug/L							
Iron	2.50	U	5.00	ug/L							
Lead	0.250	U	0.500	ug/L							
Nickel	0.500	U	1.00	ug/L							
Selenium	0.500	U	1.00	ug/L							
Silver	0.0500	U	0.100	ug/L							
Sodium	0.0500	U	0.100	mg/L							
Thallium	0.0500	U	0.100	ug/L							
Tin	2.50	U	5.00	ug/L							
Vanadium	0.500	U	1.00	ug/L							
Zinc	7.50	U	20.0	ug/L							

LCS (2A07031-BS1) Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 12:55

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	48.1		5.00	ug/L	50.0		96	80-120			
Arsenic	495		10.0	ug/L	500		99	80-120			
Barium	517		100	ug/L	500		103	80-120			
Beryllium	50.7		1.00	ug/L	50.0		101	80-120			
Cadmium	48.4		1.00	ug/L	50.0		97	80-120			
Chromium	524		10.0	ug/L	500		105	80-120			
Cobalt	509		10.0	ug/L	500		102	80-120			
Copper	517		10.0	ug/L	500		103	80-120			
Iron	1040		50.0	ug/L	1000		104	80-120			
Lead	521		5.00	ug/L	500		104	80-120			
Nickel	515		10.0	ug/L	500		103	80-120			
Selenium	488		10.0	ug/L	500		98	80-120			
Silver	50.1		1.00	ug/L	50.0		100	80-120			
Sodium	23.4		1.00	mg/L	25.0		94	80-120			
Thallium	50.8		1.00	ug/L	50.0		102	80-120			
Tin	511		50.0	ug/L	500		102	80-120			
Vanadium	514		10.0	ug/L	500		103	80-120			
Zinc	490		200	ug/L	500		98	80-120			

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QUALITY CONTROL DATA

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07031 - EPA 3005A - Continued

LCS (2A07031-BS2) Prepared: 01/10/2022 09:36 Analyzed: 01/12/2022 13:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	48.1		5.00	ug/L	50.0		96	80-120			
Arsenic	502		10.0	ug/L	500		100	80-120			
Barium	520		100	ug/L	500		104	80-120			
Beryllium	50.5		1.00	ug/L	50.0		101	80-120			
Cadmium	48.3		1.00	ug/L	50.0		97	80-120			
Chromium	512		10.0	ug/L	500		102	80-120			
Cobalt	506		10.0	ug/L	500		101	80-120			
Copper	514		10.0	ug/L	500		103	80-120			
Iron	1110		50.0	ug/L	1000		111	80-120			
Lead	497		5.00	ug/L	500		99	80-120			
Nickel	509		10.0	ug/L	500		102	80-120			
Selenium	503		10.0	ug/L	500		101	80-120			
Silver	50.2		1.00	ug/L	50.0		100	80-120			
Sodium	27.5		1.00	mg/L	25.0		110	80-120			
Thallium	51.2		1.00	ug/L	50.0		102	80-120			
Tin	512		50.0	ug/L	500		102	80-120			
Vanadium	502		10.0	ug/L	500		100	80-120			
Zinc	496		200	ug/L	500		99	80-120			

Matrix Spike (2A07031-MS1) Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 13:07

Source: AF00046-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	50.3		5.00	ug/L	50.0	2.50 U	101	75-125			
Arsenic	501		10.0	ug/L	500	11.4	98	75-125			
Barium	532		100	ug/L	500	50.0 U	106	75-125			
Beryllium	49.7		1.00	ug/L	50.0	0.500 U	99	75-125			
Cadmium	48.8		1.00	ug/L	50.0	0.500 U	98	75-125			
Chromium	528		10.0	ug/L	500	5.00 U	106	75-125			
Cobalt	514		10.0	ug/L	500	5.00 U	103	75-125			
Copper	526		10.0	ug/L	500	3.90	104	75-125			
Iron	2880		50.0	ug/L	1000	1990	89	75-125			
Lead	507		5.00	ug/L	500	2.50 U	101	75-125			
Nickel	526		10.0	ug/L	500	8.47	103	75-125			
Selenium	481		10.0	ug/L	500	5.00 U	96	75-125			
Silver	49.7		1.00	ug/L	50.0	0.500 U	99	75-125			
Sodium	35.4		1.00	mg/L	25.0	9.64	103	75-125			
Thallium	51.2		1.00	ug/L	50.0	0.500 U	102	75-125			
Tin	508		50.0	ug/L	500	25.0 U	102	75-125			
Vanadium	515		10.0	ug/L	500	5.00 U	103	75-125			
Zinc	580		200	ug/L	500	83.7	99	75-125			

Matrix Spike Dup (2A07031-MSD1) Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 13:11

Source: AF00046-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	49.0		5.00	ug/L	50.0	2.50 U	98	75-125	3	20	
Arsenic	502		10.0	ug/L	500	11.4	98	75-125	0.2	20	
Barium	521		100	ug/L	500	50.0 U	104	75-125	2	20	
Beryllium	50.1		1.00	ug/L	50.0	0.500 U	100	75-125	0.8	20	

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QUALITY CONTROL DATA

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2A07031 - EPA 3005A - Continued

Matrix Spike Dup (2A07031-MSD1) Continued Prepared: 01/10/2022 09:36 Analyzed: 01/11/2022 13:11

Source: AF00046-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	48.3		1.00	ug/L	50.0	0.500 U	97	75-125	1	20	
Chromium	512		10.0	ug/L	500	5.00 U	102	75-125	3	20	
Cobalt	500		10.0	ug/L	500	5.00 U	100	75-125	3	20	
Copper	512		10.0	ug/L	500	3.90	102	75-125	3	20	
Iron	2800		50.0	ug/L	1000	1990	81	75-125	3	20	
Lead	504		5.00	ug/L	500	2.50 U	101	75-125	0.6	20	
Nickel	512		10.0	ug/L	500	8.47	101	75-125	3	20	
Selenium	485		10.0	ug/L	500	5.00 U	97	75-125	0.7	20	
Silver	49.1		1.00	ug/L	50.0	0.500 U	98	75-125	1	20	
Sodium	34.3		1.00	mg/L	25.0	9.64	99	75-125	3	20	
Thallium	50.7		1.00	ug/L	50.0	0.500 U	101	75-125	0.9	20	
Tin	510		50.0	ug/L	500	25.0 U	102	75-125	0.4	20	
Vanadium	500		10.0	ug/L	500	5.00 U	100	75-125	3	20	
Zinc	564		200	ug/L	500	83.7	96	75-125	3	20	

Classical Chemistry Parameters - Quality Control

Batch 2A07014 - NO PREP

Blank (2A07014-BLK1) Prepared & Analyzed: 01/06/2022 19:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.29	U	5.0	mg/L							
Nitrate as N	0.052	U	1.0	mg/L							

LCS (2A07014-BS1) Prepared: 01/06/2022 19:10 Analyzed: 01/06/2022 19:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	51		5.0	mg/L	50.0		102	90-110			
Nitrate as N	26		1.0	mg/L	25.0		104	90-110			

Matrix Spike (2A07014-MS1) Prepared: 01/06/2022 19:10 Analyzed: 01/06/2022 19:56

Source: AE08874-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	3.0	103	90-110			
Nitrate as N	25		1.0	mg/L	25.0	0.055	101	90-110			

Matrix Spike (2A07014-MS2) Prepared: 01/06/2022 19:10 Analyzed: 01/06/2022 20:42

Source: AE08874-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	2.9	104	90-110			
Nitrate as N	26		1.0	mg/L	25.0	0.052 U	104	90-110			

Matrix Spike Dup (2A07014-MSD1) Prepared: 01/06/2022 19:10 Analyzed: 01/06/2022 20:11

Source: AE08874-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	57		5.0	mg/L	50.0	3.0	107	90-110	3	10	
Nitrate as N	26		1.0	mg/L	25.0	0.055	104	90-110	3	10	

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 2A07014 - NO PREP - Continued

Matrix Spike Dup (2A07014-MSD2) Prepared: 01/06/2022 19:10 Analyzed: 01/06/2022 20:57

Source: AE08874-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	64		5.0	mg/L	50.0	2.9	121	90-110	15	10	QM-07, QM-11
Nitrate as N	31		1.0	mg/L	25.0	0.052 U	122	90-110	16	10	QM-07, QM-11

Batch 2A10004 - NO PREP

Blank (2A10004-BLK1) Prepared: 01/10/2022 14:10 Analyzed: 01/11/2022 16:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (2A10004-BS1) Prepared: 01/10/2022 14:10 Analyzed: 01/11/2022 16:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	100		10	mg/L	100		104	90-110			

Duplicate (2A10004-DUP1) Prepared: 01/10/2022 14:10 Analyzed: 01/11/2022 16:10

Source: AE09970-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L		300			3	20	

Batch 2A10020 - NO PREP

Blank (2A10020-BLK1) Prepared: 01/10/2022 12:09 Analyzed: 01/11/2022 10:34

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.0098	U	0.020	mg/L							

LCS (2A10020-BS1) Prepared: 01/10/2022 12:09 Analyzed: 01/11/2022 10:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.96		0.020	mg/L	1.00		96	90-110			

Matrix Spike (2A10020-MS1) Prepared: 01/10/2022 12:09 Analyzed: 01/11/2022 10:41

Source: AE08874-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.1		0.020	mg/L	1.00	0.10	97	90-110			

Matrix Spike (2A10020-MS2) Prepared: 01/10/2022 12:09 Analyzed: 01/11/2022 11:08

Source: AF00104-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.1		0.020	mg/L	1.00	0.032	103	90-110			

Matrix Spike Dup (2A10020-MSD1) Prepared: 01/10/2022 12:09 Analyzed: 01/11/2022 10:42

Source: AE08874-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.1		0.020	mg/L	1.00	0.10	98	90-110	0.9	10	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 2A10021 - NO PREP

Blank (2A10021-BLK1) Prepared: 01/10/2022 12:10 Analyzed: 01/11/2022 11:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.0098	U	0.020	mg/L							

LCS (2A10021-BS1) Prepared: 01/10/2022 12:10 Analyzed: 01/11/2022 11:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.98		0.020	mg/L	1.00		98	90-110			

Matrix Spike (2A10021-MS1) Prepared: 01/10/2022 12:10 Analyzed: 01/11/2022 11:38

Source: AF00145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.020	mg/L	1.00	0.044	99	90-110			

Matrix Spike Dup (2A10021-MSD1) Prepared: 01/10/2022 12:10 Analyzed: 01/11/2022 11:39

Source: AF00145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.020	mg/L	1.00	0.044	98	90-110	1	10	

Batch 2A13014 - NO PREP

Blank (2A13014-BLK1) Prepared & Analyzed: 01/13/2022 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.45	U	1.0	mg/L							

LCS (2A13014-BS1) Prepared & Analyzed: 01/13/2022 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	3.9		1.0	mg/L	4.01		98	84-106			

Matrix Spike (2A13014-MS1) Prepared & Analyzed: 01/13/2022 10:57

Source: AF00292-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	3.5		1.0	mg/L	4.01	0.45 U	87	84-106			

Matrix Spike Dup (2A13014-MSD1) Prepared & Analyzed: 01/13/2022 10:57

Source: AF00292-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	3.3		1.0	mg/L	4.01	0.45 U	83	84-106	4	10	QM-07

Batch 2A13032 - EPA 9010C

Blank (2A13032-BLK1) Prepared: 01/13/2022 14:00 Analyzed: 01/14/2022 17:55

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0067	U	0.010	mg/L							

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 2A13032 - EPA 9010C - Continued

LCS (2A13032-BS1) Prepared: 01/13/2022 14:00 Analyzed: 01/14/2022 17:55

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.20		0.010	mg/L	0.200		101	83-116			

Matrix Spike (2A13032-MS1) Prepared: 01/13/2022 14:00 Analyzed: 01/14/2022 17:55

Source: AE09970-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.20		0.010	mg/L	0.200	0.0067 U	99	83-116			

Matrix Spike Dup (2A13032-MSD1) Prepared: 01/13/2022 14:00 Analyzed: 01/14/2022 17:55

Source: AE09970-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.22		0.010	mg/L	0.200	0.0067 U	110	83-116	10	19	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*****	Not reported due to interference.
[CALC]	Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Jones Edmunds & Associates, Inc. (JO006)	Project Number: 39859
Address: 730 N.E.Waldo Road Bldg.A	Project Name/Desc: Citrus Co. LF
City/ST/Zip: Gainesville, FL 32641	PO # / Billing Info: 03860-086-01
Tel: (352) 377-5821 Fax: (352) 377-3166	Reporting Contact: Elizabeth Kennelley
Sampler(s) Name, Affiliation (Print): Steve Messick, Jones Edmunds, Inc.	Billing Contact: Accounts Payable
Sampler(s) Signature: Steve Messick	Site Location / Time Zone: Lecanto, FL / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: AF00046

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011	8260D Appendix 2 FL	8270 App2,8270E PAH SIM	8151A Appendix 2	8081B Appendix 2,8082A Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Sn,Tl,V,Zn,Hg	Cyanide SM4500-CN E, Sulfide SM4500-S F	Ammonia 350.1	Chloride 300, Nitrate as N 300, TDS SM2540C	Sample Comments
1	MW-7 (22MICC-7)	1-6-22 ~~0949~~	0949	G	GW	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	EQUIPBLK#1 (22MICC-EQB1)	↓	1040	G	O	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	New lab bottle rinse w/dist. water
3	TRIPBlank#1 (22MICC-TB1)	↓	—	—	O	2		✓								QA/QC
4	MW-20 (22MICC-20)	↓	1154	G	GW	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	TRIPBlank#2 (22MICC-TB2)	↓	—	—	O	2		✓								QA/QC

S. Messick

<-- Total # of Containers

Sample Kit Prepared By: [illegible]	Date/Time: 01/04/22 13:17	Relinquished By: [illegible]	Date/Time: 01/04/22 13:17	Received By: Steve Messick	Date/Time: 1-5-22 @ 1550
Comments/Special Reporting Requirements: Samples shipped by FedEx Stnd Overnight from Gainesville, FL to Orlando, FL. 2 Coolers		Relinquished By: Steve Messick	Date/Time: 1-6-22 @ 1600	Received By: [illegible]	Date/Time: 01/07/22 11:05
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-2119 1.0°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Jones, Edmunds, and Associates, Inc.
Environmental Consultants
730 NE Waldo Road
Gainesville, Florida 32641
(352) 377-5821 Fax (352) 377-3166

Please return a copy of this form with original lab report.

Field Data Information Form

Project Name: **Citrus Count Central Class I landfill**
Project Number: **03860-086-01**
Date: **1/6/2022**
Sampler: **Steve Messick**
Laboratory: **ENCO Lab - Orlando, Florida**

Sampling Station	Date	Time	pH (S. U.)	Temp (Deg C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Static Depth to Water *	Collection Method
MW-7	1-6-22	0949	4.97	24.6	118	0.46	1.63	-148.1	118.05	SP
MW-20	↓	1154	6.23	26.0	958	0.30	4.11	-150.2	110.09	SP

TO BE SUBMITTED TO LABORATORY WITH CHAIN-OF-CUSTODY

Collection Method:	Description:
BA	BAILER
BP	BLADDER PUMP
CP	CENTRIFUGAL PUMP
E	GRAB
M	METER READING
PP	PERISTALTIC PUMP
SP	SUBMERSIBLE OR IN-PLACE DEDICATED PUMP
Z	UNKNOWN

* Initial Depth to Water at Time of Sampling

GROUNDWATER SAMPLING LOG

SITE NAME: **Citrus County Central Landfill**		SITE LOCATION: **Lecanto, Florida**
WELL NO: **MW-7** Special sampling	SAMPLE ID: **22M1CC-7**	DATE: 1-6-2022

PURGING DATA

WELL DIAMETER (in): **2 PVC**	TUBING DIAMETER (in): **3/8"**	WELL SCREEN LENGTH: **20ft** **119.06 to 139.06**	STATIC DEPTH TO WATER (feet): 118.05	PURGE PUMP TYPE **Dedicated Bladder Pump**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (**139.06** feet – 118.05 feet) X **0.16** gallons/foot = 3.4 gallons Water Level Measured with: **MPM-GNV-01**

PURGE METHOD: 2.3 2.4 (2.5) OR FS2222

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1 = **0.15** gallons + (**0.006** gallons/foot X **148** feet) + **0.123** gallons = **1.2** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **138**	FINAL PUMP OR TUBING DEPTH IN WELL (feet): **138**	PURGING INITIATED AT: 0841	PURGING ENDED AT: 0947	TOTAL VOLUME PURGED (gallons): 5.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR	ORP (mVolts)
0919	3.4	3.4	0.09	130.18	5.13	24.5	126	0.51	1.56	None clear	None	-146.2
0933	1.2	4.6	↓	130.22	5.04	24.5	121	0.48	1.71	↓	↓	-147.5
0947	1.2	5.8	↓	130.25	4.97	24.6	118	0.46	1.63	↓	↓	-148.1

SAMPLING DATA

SAMPLED BY (Print) / AFFILIATION: **Steve Messick /Jones Edmunds Inc.**	SAMPLER(S) SIGNATURES: Steve Messick	SAMPLING INITIATED AT: 0949	SAMPLING ENDED AT: 1006
PUMP OR TUBING DEPTH IN WELL (feet): **138**	Sample pump VOC Sampling Rate 100-400 ml/min ☑ FLOW RATE Other Samples Rate (mL / min): 1-355	TUBING MATERIAL CODE: **PE**	SAMPLING EQUIPMENT CODE: **DBP**
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOL	PRES. USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL PH	INTENDED ANALYSIS
22M1CC-7	**2**	**CG**	**40 ML**	**HCL**	---	**N/A**	**8260D AP-2**
22M1CC-7	**4**	**AG**	**40 ML**	**NONE**	---	**N/A**	**8011, 8260D AP-2, 8270E PAH SIM**
22M1CC-7	**1**	**PE**	**250 ML**	**HNO3**	---	≤ 2	**Metals**
22M1CC-7	**1**	**PE**	**250 ML**	**NONE**	---	**N/A**	**Chlorides, Nitrate, TDS, SM2540C**
22M1CC-7	**1**	**PE**	**250 ML**	**H2SO4**	---	≤ 2	**Total Ammonia-N**
22M1CC-7	**1**	**PE**	**250 ML**	**NaOH**	---	12	**Cyanide SM4500-CM**
22M1CC-7	**1**	**PE**	**250 mL**	**P+ZnAc NaOH**	---	12	**Sulfide SM4500-SF**
22M1CC-7	**2**	**AG**	**250 ML**	**None**	---	**N/A**	**8270E PAH SIM, 8151A&B, 8082A AP-2**
22M1CC-7	**1**	**AG**	**1 L**	**None**	---	**N/A**	**8082A, 8151A, 8070E PAH SIM, 8082A - AP-2**

REMARKS: **Purge slowly to limit drawdown.**

* Verified Sample pH as <2 or >12 (as applicable) at mw-7
Sky Conditions: clear Ambient Air Temperature: 13°C
Approx. Wind Speed and Direction: <3mph

Bladder Pump: CPM 1 Refill/Discharge 45/15 sec Pressure 65 PSI
Total Tubing Length: Ø feet

Comments:

Note: This well historically draws down into screen so I am doing purge method 2.5

GROUNDWATER SAMPLING LOG

SITE NAME: **Citrus County Central Landfill**		SITE LOCATION: **Lecanto, Florida**
WELL NO: **EQUBLK-1**	SAMPLE ID: **22M1CC-EQB1**	DATE: 1-6-2022

PURGING DATA

WELL DIAMETER (in):	TUBING DIAMETER (in): ~~3/8"~~ Nm	WELL SCREEN LENGTH: ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE Nm ~~Dedicated Bladder Pump~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (feet – feet) X **0.16** gallons/foot = gallons Water Level Measured with:

PURGE METHOD: 2.3 2.4 2.5 OR FS2222

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + **0.123** gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR	ORP (mVolts)
					S. Messick							

SAMPLING DATA

SAMPLED BY (Print) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Steve Messick /Jones Edmunds Inc.	Steve Messick	1040	1055

PUMP OR TUBING DEPTH IN WELL (feet): N/A	Sample pump VOC Sampling Rate 100-400 ml/min ☑ FLOW RATE Other Samples Rate (mL / min): ~~+/-~~ 500	TUBING MATERIAL CODE: **PE**	SAMPLING EQUIPMENT CODE: **DBP**
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOL	PRES. USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL PH	INTENDED ANALYSIS
22M1CC-EQB1	**2**	**CG**	**40 ML**	**HCL**	---	**N/A**	**8260D AP-2**
22M1CC-EQB1	**4**	**AG**	**40 ML**	**NONE**	---	**N/A**	**8011, 8260D AP-2, 8270E PAH SIM**
22M1CC-EQB1	**1**	**PE**	**250 ML**	**HNO3**	---	*	**Metals**
22M1CC-EQB1	**1**	**PE**	**250 ML**	**NONE**	---	**N/A**	**Chlorides, Nitrate, TDS, SM2540C**
22M1CC-EQB1	**1**	**PE**	**250 ML**	**H2SO4**	---	*	**Total Ammonia-N**
22M1CC-EQB1	**1**	**PE**	**250 ML**	**NaOH**	---	*	**Cyanide SM4500-CM**
22M1CC-EQB1	**1**	**PE**	**250 mL**	**P+ZnAc NaOH**	---	*	**Sulfide SM4500-SF**
22M1CC-EQB1	**2**	**AG**	**250 ML**	**None**	---	**N/A**	**8270E PAH SIM, 8151A&B, 8082A AP-2**
22M1CC-EQB1	**1**	**AG**	**1 L**	**None**	---	**N/A**	**8082A, 8151A, 8070E PAH SIM, 8082A - AP-2**

REMARKS:

* Verified Sample pH as <2 or >12 (as applicable) at MW-7
Sky Conditions: clear Ambient Air Temperature: 25°C
Approx. Wind Speed and Direction: <3 MPH

Bladder Pump: CPM — Refill/Discharge — sec Pressure — PSI
Total Tubing Length: — feet

Comments:

New lab bottle blank with Zeph. Dist. Water Lot #092821271WF233

GROUNDWATER SAMPLING LOG

SITE NAME: **Citrus County Central Landfill**		SITE LOCATION: **Lecanto, Florida**
WELL NO: **MW-20 flush mount well**	SAMPLE ID: **22M1CC-20**	DATE: 1-6-2022

PURGING DATA

WELL DIAMETER (in): **2 PVC**	TUBING DIAMETER (in): **3/8"**	WELL SCREEN LENGTH: **20ft** **105.70 to 125.70**	STATIC DEPTH TO WATER (feet): 110.09	PURGE PUMP TYPE **Dedicated Bladder Pump**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

1 WELL VOLUME = (**125.70** feet – 110.09 feet) X **0.16** gallons/foot = 2.5 gallons Water Level Measured with: **MPM-GNV-01**

PURGE METHOD: 2.3 2.4 (2.5) OR FS2222

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

1 = **0.15** gallons + (**0.006** gallons/foot X **130** feet) + **0.123** gallons = **1.1** gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **124**	FINAL PUMP OR TUBING DEPTH IN WELL (feet): **124**	PURGING INITIATED AT: 1106	PURGING ENDED AT: 1152	TOTAL VOLUME PURGED (gallons): 4.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR	ORP (mVolts)
1130	2.5	2.5	0.10	110.48	6.23	26.0	949	0.29	3.33	None clear	None	-150.4
1141	1.1	3.6	↓	110.48	6.23	26.0	954	0.29	3.97	↓	↓	-150.7
1152	1.1	4.7	↓	110.48	6.23	26.0	958	0.30	4.11	slight orange tint	↓	-150.2

SAMPLING DATA

SAMPLED BY (Print) / AFFILIATION: **Steve Messick /Jones Edmunds Inc.**	SAMPLER(S) SIGNATURES: Steve Messick	SAMPLING INITIATED AT: 1154	SAMPLING ENDED AT: 1208
PUMP OR TUBING DEPTH IN WELL (feet): **124**	Sample pump VOC Sampling Rate 100-400 ml/min ☑ FLOW RATE Other Samples Rate (mL / min): 1-380	TUBING MATERIAL CODE: **PE**	SAMPLING EQUIPMENT CODE: **DBP**
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOL	PRES. USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL PH	INTENDED ANALYSIS
22M1CC-20	**2**	**CG**	**40 ML**	**HCL**	---	**N/A**	**8260D AP-2**
22M1CC-20	**4**	**AG**	**40 ML**	**NONE**	---	**N/A**	**8011, 8260D AP-2, 8270E PAH SIM**
22M1CC-20	**1**	**PE**	**250 ML**	**HNO3**	---	≤2	**Metals**
22M1CC-20	**1**	**PE**	**250 ML**	**NONE**	---	**N/A**	**Chlorides, Nitrate, TDS, SM2540C**
22M1CC-20	**1**	**PE**	**250 ML**	**H2SO4**	---	≤2	**Total Ammonia-N**
22M1CC-20	**1**	**PE**	**250 ML**	**NaOH**	---	12	**Cyanide SM4500-CM**
22M1CC-20	**1**	**PE**	**250 mL**	**P+ZnAc NaOH**	---	12	**Sulfide SM4500-SF**
22M1CC-20	**2**	**AG**	**250 ML**	**None**	---	**N/A**	**8270E PAH SIM, 8151A&B, 8082A AP-2**
22M1CC-20	**1**	**AG**	**1 L**	**None**	---	**N/A**	**8082A, 8151A, 8070E PAH SIM, 8082A - AP-2**

REMARKS: **Flush mount well vented >15 minutes before reading water level.**

* Verified Sample pH as <2 or >12 (as applicable) at MW-20
Sky Conditions: clear Ambient Air Temperature: 27°C
Approx. Wind Speed and Direction: <3 MPH

Bladder Pump: CPM 2 Refill/Discharge 15/15 sec Pressure 60 PSI
Total Tubing Length: 8 feet

Comments:

The purge water gets a light orange tint as it sets in the purge bucket.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: Jones Edmunds & Associates, Inc. (JO006)	Project Number: 39859
Address: 730 N.E.Waldo Road Bldg.A	Project Name/Desc: Citrus Co. LF
City/ST/Zip: Gainesville, FL 32641	PO # / Billing Info: 03860-086-01
Tel: (352) 377-5821 Fax: (352) 377-3166	Reporting Contact: Elizabeth Kennelley
Sampler(s) Name, Affiliation (Print): Steve Messick, Jones Edmunds, Inc.	Billing Contact: Accounts Payable
Sampler(s) Signature: Steve Messick	Site Location / Time Zone: Leesburg, FL / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: AF00046

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011	8260D Appendix 2 FL	8270 App2,8270E PAH SIM	8151A Appendix 2	8081B Appendix 2,8082A Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Sn,Tl,V,Zn,Hg	Cyanide SM4500-CN E,Sulfide SM4500-S F	Ammonia 350.1	Chloride 300,Nitrate as N 300,TDS SM2540C		Sample Comments
1	MW-7 (22MICC-7)	1-6-22 ~~2942~~	0947	G	GW	14	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	EQUIPBLK#1 (22MICC-EQB1)		1040	G	O	14	✓	✓	✓	✓	✓	✓	✓	✓	✓		New lab bottle rinse w/dist. water
3	TripBlank#1 (22MICC-TB1)		—	~	O	2		✓									QA/QC
4	MW-20 (22MICC-20)		1154	G	GW	14	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	TripBlank#2 (22MICC-TB2)		—	—	O	2		✓									QA/QC

S. Messick

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
[illegible]	01/04/22 13:17	[illegible]	01/04/22 13:17	Steve Messick	1-5-22 @ 1550
Comments/Special Reporting Requirements: Samples shipped by FedEx Std Overnight from Gainesville, FL to Orlando, FL. 2 Coolers		Relinquished By: Steve Messick	Date/Time 1-6-22 @ 1600	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

CALIBRATION LOG

Meter ID: YSI-GNV-05 **RQ:** 22M1CC **Project:** Citrus County Central Class I landfill

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification **01/05/2022**

DO (FT 1500)	Name	Date	Time ET	Temp. (°C)	DO Chart (mg/L)	Meter DO (mg/L)	Pass/Fail
Calibr.	**Steve Messick**	1-6-2022	0821	19.3	9.22	9.24	(P) / F
ICV	↓	↓	0842	18.2	9.42	9.44	(P) / F
CCV	↓	↓	1207	22.8	8.61	8.66	(P) / F
Calibr.							P / F
ICV							P / F
CCV							P / F
Calibr.							P / F
ICV							P / F
CCV							P / F
Calibr.							P / F
ICV							P / F
CCV							P / F

DO Acceptance Criteria from Table ± 0.3 mg/L.

Spec. Cond. (FT 1200)	Name	Date	Time ET	Lot #	Expir. Date	Standard (µmhos/cm)	Meter Read. (µmhos/cm)	Pass/Fail
Calibr.	**Steve Messick**	1-6-22	0844	CC21387	6-16-22	1413	1413	(P) / F
ICV	↓	↓	0847	CC21390	6-17-22	84	84	(P) / F
CCV	↓	↓	1209	CC21390	6-17-22	84	85	(P) / F
CCV	↓	↓	1210	CC21387	6-16-22	1413	1416	(P) / F
Calibr.								P / F
ICV								P / F
CCV								P / F
CCV								P / F
Calibr.								P / F
ICV								P / F
CCV								P / F
CCV								P / F
Calibr.								P / F
ICV								P / F
CCV								P / F
CCV								P / F

Conductivity Acceptance Criteria ±5%

pH (FT 1100)	Name	Date	Time ET	Lot #	Expir. Date	Standard (S.U.)	Meter Read (S.U.)	Pass/Fail
Calibr.	**Steve Messick**	1-6-22	0849	CC722414	4-29-23	7.00	7.00	(P) / F
Calibr.	↓	↓	0851	CC728551	6-30-23	4.01	4.01	(P) / F
Calibr.	↓	↓	0853	CC723464	5-11-23	10.01	10.01	(P) / F
ICV	↓	↓	0855	CC684409	8-10-22	9.18	9.06	(P) / F
CCV	↓	↓	1212	CC722414	4-29-23	7.00	7.00	(P) / F
CCV	↓	↓	1214	CC728551	6-30-23	4.01	4.00	(P) / F
Calibr.								P / F
Calibr.								P / F
CCV								P / F
CCV								P / F
Calibr.								P / F
Calibr.								P / F
CCV								P / F
CCV								P / F
Calibr.								P / F
Calibr.								P / F
CCV								P / F
CCV								P / F

Instrument pH Gain -5.126 **Weekly (-4.579 to -5.597 acceptable) Date Determined** 1-6-2022

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Citrus County Central Class I landfill DATE 1-6-2022

INSTRUMENT (MAKE/MODEL#) YSI 556 MPS **INSTRUMENT #** YSI - GNV - 05

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH X ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A **Zobell's Solution Mixed Standard** **Expiration Date** *04/04/22*

Stock Solution Lot # 21C100633 Mix Date: 01/04/2022 **Expiration Date 2026-04-08**

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE (mV)	Temperature (Deg C)	INSTRUMENT RESPONSE (mV)	(+/- 10 mV) DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/01/06	0857	A	240.6	15.3	240.6	Ø	Yes	Init.	SM
↓	1216	A	239.7	16.0	240.1	0.4	Yes	Cont.	SM

Turbidity Calibration Log (DEP SOPs FT1000 & FT1600)
Regional Operations Centers

Meter ID: **TB-GNV-01** Date of Last Calibration: **01-04-2022** Project Name: **Citrus County Central Class I landfill**

Quarterly Calibration

Sampler Name: **Steve Messick** Date: **01-04-2022** Time: **1030 Hrs. ETZ**

Standard Value *(Use Primary Formazin Standards)*			Exp. Date	Lot #	Type of Information Displayed During Calibration?	Value Displayed NTU	Calibration Pass / Fail
<0.1 NTU			Nov -22	A1205	Meter Reading	0.1	Pass
20 NTU			Nov -22	A1207	Meter Reading	19.4	Pass
100 NTU			Nov -22	A1202	Meter Reading	99.2	Pass
800 NTU			Nov - 22	A1204	Meter Reading	795	Pass

Initial Calibration Verification (ICV) *(Only perform ICV immediately after quarterly calibr. Do not use < 0.1 NTU standard for ICV.)*

Sampler Name: **Steve Messick** Date: **01-04-2022** Time: **1030 Hrs. ETZ**

Standard Value *(Use A Primary Formazin Standard)*			Exp. Date	Lot #	Meter Reading NTU	Pass / Fail
20 NTU			Nov - 22	A1207	19.4	Pass

Secondary Gel Standard Quarterly Verification *(perform gel standard verification immediately after quarterly calib. and ICV)*

Sampler Name: **Steve Messick** Date: **01-04-2022** Time: **1030 Hrs. ETZ**

Standard Value Range NTU	Previous Value Assigned NTU	Exp. Date	Lot #	Meter Reading NTU *(new value assigned)*	Acceptable Range, NTU *(Calculate using new value assigned & acceptance criteria*)*
0 – 10	3.56	N/A	N/A	3.50	<2
10 – 100	40.2	N/A	N/A	40.9	<2
100 - 1000	423	N/A	N/A	429	<2

Daily Continuing Calibration Verification (CCV) *(required every day that meter is used)*

Date	Time (24hr) ET	Sampler Name	Standard Type	Standard Value NTU	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail
1-6-22	0900	Steve Messick	Gel	3.50	N/A	N/A	3.51	(P) / F
↓	0901	↓	Gel	40.9	↓	↓	41.1	(P) / F
↓	0901	↓	Blank Cell	<0.25	↓	↓	0.15	(P) / F
↓	1218	↓	Gel	3.50	↓	↓	3.56	(P) / F
↓	1218	↓	Gel	40.9	↓	↓	41.5	(P) / F
↓	1219	↓	Blank Cell	<0.25	↓	↓	0.22	(P) / F
			GEL	3.50				P / F

*Acceptance Criteria: 0.1-10 NTU → ± 10 %; 11-40 NTU → ± 8 %; 41-100 NTU → ± 6.5 %; >100 NTU → ± 5 %;
Acceptable ranges for common standards: 20 NTU (18.4 - 21.6 NTU); 100 NTU (93.5 – 106.5 NTU); 800 NTU (760 - 840 NTU)

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME: **Quarterly Temperature check** DATE: **01/05/2022**

INSTRUMENT (MAKE/MODEL#) **YSI 556 MPS** INSTRUMENT # **YSI-GNV-05**

PARAMETER: *[check only one]*

X **TEMPERATURE** ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A **NIST Thermometer 10.0 °C** **#94748 Cal Date: 06/26/21**

Standard B **NIST Thermometer 25.0 °C** **#94748 Exp. Date: 06/26/22**

Standard C **NIST Thermometer 40.0 °C**

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE (°C)	INSTRUMENT RESPONSE (°C)	(+/- 0.5°C) DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	CALIBRATOR INITIALS
Meter 05								
22/01/05	**0917**	**C**	**40.0**	**40.2**	**0.2**	**yes**	**init**	**SMM**
22/01/05	**0923**	**B**	**25.0**	**25.0**	**0.0**	**yes**	**cont**	**SMM**
22/01/05	**0928**	**A**	**10.0**	**9.9**	**0.1**	**yes**	**cont**	**SMM**

GENERAL SAMPLING NOTES AND CONVENTIONS

1. All sampling was performed according to the FDEP Standard Operating Procedures as listed in DEP-SOP-001/01 (Field Procedures) dated March 31, 2008 (Effective 12/3/08).

2. Field cleaning and decontamination has been done in accordance with DEP-SOP-001/01 (Field Procedures), FC-1000.

3. Tubing and filter cartridge lot numbers for all sampling points and wells are the same as those listed for that tubing type on the Equipment Blank data form(s) covering that equipment system.

4. Tubing suppliers/manufacturers are named in the following list:

• HDPE disposable tubing	US Plastics
• Tygon tubing	Cole Parmer
• Norprene tubing	Cole Parmer
• Silicon tubing	Cole Parmer

5. Field instrument calibrations were conducted in accordance with DEP-SOP-001/01 (Field Procedures), FT1000.

6. Calibration solution and gas suppliers are named in the following list:

• pH calibration solutions	Cole Parmer/Oakton
• Conductivity calibration solutions	Cole Parmer/Oakton
• Dissolved Oxygen probe membranes	YSI
• ORP calibration solutions	YSI
• Turbidity calibration solutions/gel standards	Hach
• TVA calibration gas cylinders	Airgas
• Eagle RKI calibration gas cylinders	Airgas

7. All samples collected were grab samples.

8. All sample containers requiring added preservative were supplied pre-preserved from the laboratory. No additional preservative was added in the field.

9. A combination of a front-bumper-mounted gasoline generator and an electric air compressor or compressed nitrogen is used to power the Grundfos electric submersible pump and bladder pump systems, as appropriate.

10. Screened intervals are assumed to be at the bottom of all monitoring wells sampled unless otherwise noted.

11. Well purge method indications on the field data sheets correspond to DEP-SOP-001/01 (Field Procedures), FS2000 sections as indicated below:

Data Sheet Designation	SOP Designation
2.3	FS 2212.2.3
2.4	FS 2212.2.4
2.5	FS 2212.2.5
2222 or 3.7.1	FS 2222 or 2212.3.7.1
Private	FS 2215.1 & 2215.2 (Jones Edmunds SOP for private well sampling)

Comments or Exceptions

_____

_____

_____

_____

_____

REFERENCE FACTORS FOR FIELD SAMPLING DATA SHEETS

WELL CAPACITY (Gallons / Foot):

0.75" = 0.02
1" = 0.04
1.25" = 0.06
2" = 0.16
3" = 0.37
4" = 0.65
5" = 1.02
6" = 1.47
12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gallons / Foot):

1/8" = **0.0006**
3/16" = **0.0014**
1/4" = **0.0026**
5/16" = **0.004**
3/8" = **0.006**
1/2" = **0.010**
5/8" = **0.016**

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other

PURGING EQUIPMENT CODES **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltid Pump **RFPP** = Reverse Flow Peristaltic Pump **O** = Other (Specify) **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap

STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: **± 0.2 units**

Temperature: **± 0.2 °C**

Specific Conductance: **± 5%**

Dissolved Oxygen: **all readings ≤ 20% saturation (see Table FS 2200-2)**
optionally, ± 0.2 mg/L or ± 10% (whichever is greater)

Turbidity: **all readings ≤ 20 NTU**
optionally ± 5 NTU or ± 10% (whichever is greater)

gal/min	= ml/min	gal/min	= ml/min	gal/min	= ml/min
0.026	100	0.211	800	0.396	1500
0.053	200	0.238	900	0.423	1600
0.079	300	0.264	1000	0.449	1700
0.106	400	0.291	1100	0.476	1800
0.132	500	0.317	1200	0.502	1900
0.159	600	0.343	1300	0.528	2000
0.185	700	0.370	1400		