*Element Materials Technology - Fort Wayne*
*328 Ley Rd.*
*Fort Wayne, IN 46825*
*TEL: (260) 424-1622 FAX: (260) 424-9124*
*Website: www.element.com*

July 28, 2020

Brian Cochran
Town of Andrews
66 N. Main St.
Andrews, IN 46702
TEL: (260) 786-3848
FAX:

RE: PWSID IN5235001 VOC

Order No.: 20072479

Dear Brian Cochran:

Element Materials Technology - Fort Wayne received 2 sample(s) on 7/23/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Don Ellis II
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825

*Element Materials Technology - Fort Wayne*
*328 Ley Rd.*
*Fort Wayne, IN 46825*
*TEL: (260) 424-1622 FAX: (260) 424-9124*
*Website: www.element.com*

# Analytical Report

(continuous)

WO#: **20072479**

Date Reported **7/28/2020**

**CLIENT:** Town of Andrews **Lab Order:** 20072479

**Project:** PWSID IN5235001 VOC

**Lab ID:** 20072479-001 **Collection Date:** 7/23/2020 9:25:00 AM

**Client Sample ID:** #1 Water Plant **Matrix:** DRINKING WATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOCS IN DRINKING WATER** | | | | **E524.2** | | Analyst: **SF** |
| Benzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Carbon tetrachloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Chlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,2-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,4-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,2-Dichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| cis-1,2-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| trans-1,2-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Methylene chloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,2-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Ethylbenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Styrene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Tetrachloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Toluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,2,4-Trichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1,1-Trichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1,2-Trichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Trichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Vinyl chloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Xylenes, Total | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| m,p-Xylene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| o-Xylene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Bromobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Bromomethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Chloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Chloromethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 2-Chlorotoluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 4-Chlorotoluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,3-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1-Dichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,3-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 2,2-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1-Dichloropropene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:36:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected at the Reporting Limit | PL | Permit Limit |
| PQL | Practical Quantitation Limit | RL | Reporting Detection Limit |

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# Analytical Report

(continuous)

WO#: **20072479**

Date Reported **7/28/2020**

**CLIENT:** Town of Andrews **Lab Order:** 20072479

**Project:** PWSID IN5235001 VOC

**VOCS IN DRINKING WATER** **E524.2** Analyst: **SF**

| | | | | | |
|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| trans-1,3-Dichloropropene | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,2,3-Trichloropropane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Dibromomethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Methyl tert-butyl ether | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| 1,3-Dichloropropene, Total | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:36:00 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 82.8 | 70 - 130 | %Rec | 1 | 7/28/2020 1:36:00 PM |
| Surr: Bromofluorobenzene | 85.2 | 70 - 130 | %Rec | 1 | 7/28/2020 1:36:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected at the Reporting Limit | PL | Permit Limit |
| PQL | Practical Quantitation Limit | RL | Reporting Detection Limit |

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# Analytical Report

(continuous)

WO#: **20072479**

Date Reported **7/28/2020**

**CLIENT:** Town of Andrews **Lab Order:** 20072479

**Project:** PWSID IN5235001 VOC

**Lab ID:** 20072479-002 **Collection Date:** 7/23/2020 9:55:00 AM

**Client Sample ID:** #2 Wastewater **Matrix:** DRINKING WATER

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOCS IN DRINKING WATER** | | | | **E524.2** | | Analyst: **SF** |
| Benzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Carbon tetrachloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Chlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,2-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,4-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,2-Dichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| cis-1,2-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| trans-1,2-Dichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Methylene chloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,2-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Ethylbenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Styrene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Tetrachloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Toluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,2,4-Trichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1,1-Trichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1,2-Trichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Trichloroethene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Vinyl chloride | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Xylenes, Total | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| m,p-Xylene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| o-Xylene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Bromobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Bromomethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Chloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Chloromethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 2-Chlorotoluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 4-Chlorotoluene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,3-Dichlorobenzene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1-Dichloroethane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,3-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 2,2-Dichloropropane | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1-Dichloropropene | < 0.5 | 0.5 | | µg/L | 1 | 7/28/2020 1:58:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected at the Reporting Limit | PL | Permit Limit |
| PQL | Practical Quantitation Limit | RL | Reporting Detection Limit |

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# Analytical Report

(continuous)

WO#: **20072479**

Date Reported **7/28/2020**

**CLIENT:** Town of Andrews **Lab Order:** 20072479

**Project:** PWSID IN5235001 VOC

**VOCS IN DRINKING WATER** **E524.2** Analyst: **SF**

| | | | | | |
|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| trans-1,3-Dichloropropene | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,2,3-Trichloropropane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Dibromomethane | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Methyl tert-butyl ether | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| 1,3-Dichloropropene, Total | < 0.5 | 0.5 | µg/L | 1 | 7/28/2020 1:58:00 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 85.0 | 70 - 130 | %Rec | 1 | 7/28/2020 1:58:00 PM |
| Surr: Bromofluorobenzene | 90.5 | 70 - 130 | %Rec | 1 | 7/28/2020 1:58:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| H | Holding times for preparation or analysis exceeded | M | Manual Integration used to determine area response |
| ND | Not Detected at the Reporting Limit | PL | Permit Limit |
| PQL | Practical Quantitation Limit | RL | Reporting Detection Limit |

element

# Chain of Custody

Laboratory Number: 20072479

| | Client Information: | Billing Information: |
|---|---|---|
| Company Name: | Town of Andrews | Town of Andrews |
| Contact Name: | | |
| Address: | | |
| | IN 5235001 | |
| City, State Zip: | | |
| Phone Number: | Ext: | Ext: |
| Fax Number: | | |
| E-mail Address: | | |

PO Number:

Quote Number:

Required QC Level

Bill Monthly
☐Yes
☐No

Project Name/Number:
**PWSID IN** 5235001

Sampler's Signature

Shipping Method:
UPS / FedEx
Element / (Hand) / Mail

Page 1 of 2



**Matrix Code**
DW = Drinking Water
WW = Waste Water
GW = Ground Water
AQ = Aqueous OT = Other
SL = Sludge SOL = Solid
O = Oil SO = Soil
F = Food SW = Swab
NG = Natural Gas
NGL = Natural Gas Liquid
PW = Produced Water
CF = Completion Fluid

**Which Regulations Apply:**
☐RCRA ☒Drinking Water
☐POTW ☐Distribution
☐NPDES ☐Special
☐USDA/FDA ☐State
☐RECAP/RISC ☐Other

**Turn Time**
☐Standard
RUSH
☐1 Day
☐2 Day
☐Other
(Rush turn times will incur a surcharge and must be pre-approved by lab.)

| Sample ID/Description | Collection Information: Date | Time | Grab / Composite | Matrix | Container: Quantity | Type P=Plastic, G=Glass, V=Vial | Pres. HCl, $HNO_3$, $H_2SO_4$, NaOH, $Na_2S_2O_3$ | Requested Tests: VOC ** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| #1 Water Plant | 7/23/20 | 9:25 | G | DW | 2 | V | Ascorbic+ HCl | x | |

Comments:
Chlorinated
DW VOC TESTING

Vials should not contain any headspace (air bubbles)
**Please follow Attached Instructions

SAMPLES MEET ACCEPTANCE POLICY
(Y) N

| | Relinquished by | Date/Time | Received by | Date/Time |
|---|---|---|---|---|
| 1 | | 7/23/20 11:16 | | |
| 2 | | | | |
| 3 | | | | 7-23-20 11" |

Field Notes:

Received at lab on ice?
☑Yes ☐No Temp: 12°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.


9301 Innovation Drive, Suite 125
PO Box 569
Daleville, IN 47334-0569
765-378-4103
Fax: 765-378-4109

8800 N US 31
Columbus, In 47201
812-375-0531
Fax: 812-375-0731

328 Ley Road, Suite 100
Fort Wayne, In 46825
260-471-7000
Fax: 260-471-7777

909 Executive Drive
Warsaw, IN 46580
574-267-3305
Fax: 574-269-6569

2417 W. Pinhook Rd
Lafayette, LA 70508
337-235-0483
Fax: 337-233-6540

2129 Willow Street
Scott, LA 70583
337-232-3568
Fax: 337-232-3621

element

# Chain of Custody

Laboratory Number: 2004 2479

Page 2 of 2



| | Client Information: | Billing Information: | PO Number: | Project Name/Number: | Matrix Code |
|---|---|---|---|---|---|
| Company Name: | Town of Andrews | Town of Andrews | | PWSID IN 5235001 | DW = Drinking Water<br>WW = Waste Water<br>GW = Ground Water<br>AQ = Aqueous OT = Other<br>SL = Sludge SOL = Solid<br>O = Oil SO = Soil<br>F = Food SW = Swab<br>NG = Natural Gas<br>NGL = Natural Gas Liquid<br>PW = Produced Water<br>CF = Completion Fluid |
| Contact Name: | | | Quote Number: | | |
| Address: | | | | Sampler's Signature | |
| | IN 523 5001 | | Required QC Level | | |
| City, State Zip: | | | | | |
| Phone Number: | Ext: | Ext: | Bill Monthly ☐Yes ☐No | Shipping Method: UPS / FedEx Element / (Hand) / Mail | |
| Fax Number: | | | | | |
| E-mail Address: | | | | | |

**Which Regulations Apply:**
☐RCRA ☒Drinking Water
☐POTW ☐Distribution
☐NPDES ☐Special
☐USDA/FDA ☐State
☐RECAP/RISC ☐Other

**Turn Time**
☐Standard
RUSH
☐1 Day
☐2 Day
☐Other
(Rush turn times will incur a surcharge and must be pre-approved by lab.)

| Sample ID/Description | Collection Information: Date | Time | Grab / Composite | Matrix | Container: Quantity | Container: Type P=Plastic, G=Glass, V=Vial | Pres. HCl, $HNO_3$, $H_2SO_4$, NaOH, $Na_2S_2O_3$ | Requested Tests: VOC ** | Comments |
|---|---|---|---|---|---|---|---|---|---|
| #2 Wastewater | 72320 | 9:55 | G | DW | 2 | V | Ascorbic+ HCl | x | Chlorinated<br>DW VOC TESTING<br>Vials should not contain any headspace (air bubbles)<br>**Please follow Attached Instructions<br>SAMPLES MEET ACCEPTANCE POLICY (Y) N |

| | Relinquished by | Date/Time | Received by | Date/Time |
|---|---|---|---|---|
| 1 | | 723·20 11:11 | | |
| 2 | | | | |
| 3 | | | PLD | 7-23-20 11:11 |

Field Notes:

Received at lab on ice? ☑Yes ☐No Temp: 12°C

7-23-20

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.


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Fax: 337-233-6540

2129 Willow Street
Scott, LA 70583
337-232-3568
Fax: 337-232-3621