

The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595630 2017-12-07 15:03 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 16:00 Collection Site rr ave ou-1, mw-8 Collection Address

Sample Description ground water Client Reference Collector

jackson hylton

Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | | Analyzed In | |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 11:33 | Date Verified | 2017-12-07 15:03 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.0021 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

The result(s) of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.

If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.

515/725-1600 Fax: 515/725-1642



The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595631 2017-12-07 15:04 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-30 11:20 Collection Site rr ave ou-1, sw-1

Collection Address

Sample Description surface water Client Reference

> Collector jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 11:56 | Date Verified | 2017-12-07 15:04 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.



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HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595632 2017-12-07 15:06 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-30 11:45 Collection Site rr ave ou-1, sw-2

Collection Address

Sample Description surface water Client Reference

> Collector jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 12:19 | Date Verified | 2017-12-07 15:06 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595633 2017-12-07 15:07 Date Sample Finalized Date Received 2017-11-30 16:12 Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-30 12:30 Collection Site rr ave ou-1, sw-3

Collection Address

Sample Description surface water Client Reference

Collector jackson hylton

Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | | Analyzed In | |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 12:42 | Date Verified | 2017-12-07 15:07 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Toluene | 0.0030 | 0.0005 | 1 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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HYLTON JACKSON IDNR CONTAMINATED SITES LAND OUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595634 2017-12-07 15:08 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source **Drinking Water** Project WMSF Date Collected 2017-11-30 14:15 Collection Site rr ave ou-1, wdsmww #6

Collection Address

Sample Description drinking water Client Reference Collector jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 13:05 | Date Verified | 2017-12-07 15:08 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

The result(s) of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.



The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595635 2017-12-07 15:08 Date Sample Finalized Date Received 2017-11-30 16:12 Sample Source **Drinking Water** Project WMSF Date Collected 2017-11-30 14:45 Collection Site rr ave ou-1, wdsmww #7

Collection Address

Sample Description Client Reference Collector

drinking water

jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 13:29 | Date Verified | 2017-12-07 15:08 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595636 2017-12-07 15:09 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 09:45 Collection Site rr ave ou-1, mw-1

Collection Address

Sample Description Client Reference

ground water

Collector

jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 13:52 | Date Verified | 2017-12-07 15:09 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.



The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595637 2017-12-07 15:09 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 10:30 Collection Site rr ave ou-1, mw-3

Collection Address

Sample Description ground water Client Reference

jackson hylton

Collector Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 14:15 | Date Verified | 2017-12-07 15:09 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.052 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595638 2017-12-07 15:10 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 11:00 Collection Site rr ave ou-1, mw-6

Collection Address

Sample Description Client Reference

ground water

Collector

jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 14:38 | Date Verified | 2017-12-07 15:10 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.0048 | 0.0005 | 0.07 |
| Trichloroethene | 0.0020 | 0.0005 | 0.005 |
| Tetrachloroethylene | 0.0062 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595639 2017-12-07 15:10 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 11:45 Collection Site rr ave ou-1, mw-7

Collection Address

Sample Description Client Reference

ground water

Collector

jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 15:01 | Date Verified | 2017-12-07 15:10 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.0099 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595640 2017-12-07 15:11 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 11:50 Collection Site rr ave ou-1, mw-7 dup

Collection Address

Sample Description ground water Client Reference

Collector jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 15:24 | Date Verified | 2017-12-07 15:11 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.0036 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.



The University of Iowa

HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595641 2017-12-07 15:12 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 11:50 Collection Site rr ave ou-1, mw-9

Collection Address

Sample Description Client Reference

ground water

Collector

jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| | mg/L | Analyzed In | Coralville |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 15:48 | Date Verified | 2017-12-07 15:12 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL | |
|-----------------------------|----------|-------------|-------|---|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 | _ |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 | |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 | |
| cis-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.07 | |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 | |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 | |
| Methyl-t-butyl ether (MtBE) | 0.0016 | 0.0005 | | |

Note: The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.

If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.

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HYLTON JACKSON IDNR CONTAMINATED SITES LAND QUALITY BUREAU 502 E 9TH STREET DES MOINES, IA 50319-0034

Accession Number 595642 2017-12-07 15:12 Date Sample Finalized 2017-11-30 16:12 Date Received Sample Source Non-Drinking Water Project WMSF Date Collected 2017-11-28 15:15 Collection Site rr ave ou-1, mw-11

Collection Address

Sample Description ground water Client Reference

Collector jackson hylton Phone | 515/725-8338

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 524.2

| Units | | Analyzed In | |
|---------------|------------------|---------------|------------------|
| Date Analyzed | 2017-12-01 16:11 | Date Verified | 2017-12-07 15:12 |
| Analyst | LJL | Verifier | MWM |

| Analyte | Result | Quant Limit | MCL |
|----------------------------|----------|-------------|-------|
| Vinyl chloride | < 0.0005 | 0.0005 | 0.002 |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | 0.007 |
| trans-1,2-Dichloroethylene | < 0.0005 | 0.0005 | 0.1 |
| cis-1,2-Dichloroethylene | 0.0046 | 0.0005 | 0.07 |
| Trichloroethene | < 0.0005 | 0.0005 | 0.005 |
| Tetrachloroethylene | < 0.0005 | 0.0005 | 0.005 |

The MCL (maximum contaminant level) is only applicable to compliance monitoring samples under the Safe Drinking Water Act (SDWA).

Description of Units used within this report

mg/L = Milligrams per Liter

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