DEPARTMENT OF ENVIRONMENTAL PROTECTION

Isiah Leggett
*County Executive*

Robert Hoyt
*Director*

December 6, 2013

Mrs. Martha Hynson, Chief
Landfill Operations
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

Dear Mrs. Hynson:

Please find enclosed the results of the latest water quality monitoring performed at the Gude Landfill for the Fall 2013. This report has been developed based on the approved Groundwater and Surface Water Monitoring Plan (G&SWM) to monitor the water quality contamination in and around the Gude Landfill in Montgomery County. This report is submitted in fulfillment of the G&SWM requirements approved on May 11, 2009, by Maryland Department of the Environment (MDE).

This report provides a summary of the results for water quality monitoring performed for the semiannual period from April 2013 to September 2013. In addition to sampling results and analysis for the 20 observation wells and 5 stream locations specified in the approved G&SWM, this report also includes the monitoring results for an additional 16 monitoring wells constructed in 2010 at the site as part of an ongoing Nature and Extent Study being conducted by the County's Department of Environmental Protection - Division of Solid Waste Management in coordination with your Office. To differentiate between the two sets of observation wells; the observation wells installed in 2010 have been designated by the prefix "MW", while the pre-existing (prior to 2010) wells are designated by an "OB".

The results obtained for this reporting period are similar and comparable with the prior monitoring results with respect to the types and concentrations of pollutants. The results represent typical fluctuations in water quality that have been observed previously during the past several years. The following provides a brief overview of the results obtained from the laboratory analyses for all the monitoring sites for this reporting period. Please refer to the attached tables, diagrams, and the enclosed CD for additional information.

## VOLATILE ORGANIC COMPOUNDS:

The highlights of the results for this reporting period are listed below. Please note that MCL (Maximum Contaminant Level) is a drinking water standard adopted by the U.S. EPA, its use in this report is as a reference only since this groundwater is not a source of drinking water. Please refer to Table 1 of the report for all the VOC results.

- No VOCs were detected above recommended Maximum Contaminant Level (MCL) in the following monitoring wells and stream locations:
  - **Pre-existing monitoring wells:** OB01, OB02, OB02A, OB04, OB06, OB07, OB07A, OB102, OB105, and OB15.
  - **Monitoring wells installed in 2010:** MW1B, MW2A, MW2B, MW3A, MW3B, MW04, MW06, MW07, MW08, MW10, MW11A, MW11B, and MW12.
  - **Stream Locations:** No VOCs were detected above the recommended MCL in any of the monitored stream locations.
- A total of 41 VOCs exceeded the recommended MCL in the following monitoring wells:
  - **Pre-existing monitoring wells:** OB25 (1 exceedance), OB03 (5 exceedance), OB03A (5 exceedance), OB08 (1 exceedance), OB08A (1 exceedance), OB10 (2 exceedances), OB11 (7 exceedances), OB11A (4 exceedances), and OB12 (4 exceedances).
  - **Monitoring wells installed in 2010:** MW09 (1 exceedance), MW09 (1 exceedance), MW13A (4 exceedances), and MW13B (6 exceedances).

The following include a summary of these 41 VOC concentrations exceeding the recommended MCLs:

- 1,2-Dichloropropane concentration exceeded the MCL of 5 ug/l in observation wells OB03, OB03A, OB11, OB12, and MW13B. Concentrations exceeding the MCL for this compound ranged from 6.50 ug/l in OB11 to 15.30 ug/l in OB03.
- Benzene concentration exceeded the MCL of 5 ug/l in observation well OB03and OB11. The concentrations exceeding the MCL for this compound were 5.38 ug/l at OB03 and 6.17 ug/l at OB11.
- cis-1-2-Dichloroethene concentration exceeded the MCL of 70 ug/l in observation wells OB03, OB03A, OB11, OB11A, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 96.5 ug/l in OB11A to 135.88 ug/l in OB11.
- Dichloromethane concentration exceeded the MCL of 5 ug/l in observation wells OB11, and MW13B. Concentrations exceeding the MCL for this compound were 6.55 ug/l in MW13B and 12 ug/l in OB11.
- Tetrachloroethene concentration exceeded the MCL of 5 ug/l in observation wells OB11, OB11A, OB12, MW09, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 12.90 ug/l in MW09 to32.2 ug/l in OB11.
- Trichloroethene concentration exceeded the MCL of 5 ug/l in observation wells OB03, OB03A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 16 ug/l at OB12 to 87.4 ug/l at OB03.

- Vinyl Chloride concentration exceeded the MCL of 2 ug/l in observation wells OB03, OB03A, OB025, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 2.26 ug/l in OB04A to 16.8 ug/l in OB03.

**METALS AND OTHER PARAMETERS:**

A summary of the metals and other parameters (non-organic contaminants) for this reporting period are listed below. Please refer to Table 3 of this report for additional information on metals and other water quality parameters results.

- A total of 5 metals and other non-organic contaminants exceeded the recommended MCL in the following monitoring locations:
  - **Pre-existing monitoring wells:** OB11 (1 exceedance).
  - **Monitoring wells installed in 2010**: MW3B (2 exceedances), MW07 (1 exceedance), MW10 (1 exceedance).
  - **Stream Locations**: No metal contaminants or other non-organic contaminants were detected above the recommended MCL in any of the monitored stream locations.

The following include a summary of these 5 metal concentrations exceeding the recommended MCLs.

- Cadmium with a recommended MCL of 0.005 mg/l was exceeded in a sample collected from OB11 with 0.0103 mg/l concentration.
- Chromium with a recommended MCL of 0.1 mg/l was exceeded in a sample collected from MW3B with 0.124 mg/l concentration.
- Lead with a recommended MCL of 0.015 mg/l was exceeded in the samples collected from observation well MW3B and MW10 with concentrations of 0.0171 mg/l and 0.0181 mg/l respectively. *(Note: The applied MCL for lead is different from other MCLs used in this report. The MCL for lead has been established for public drinking water systems and requires water samples to be collected from the tap. The regulations also require that no more than 10% of customer samples taken at the tap exceed the EPA Action Level of 0.015 mg/l. An action level exceedance is not a violation of water quality standards, but rather a trigger for further utility action. The MCL of 0.015 mg/l used in this report is only for comparative purposes.)*
- Nitrate with a recommended MCL of 10 mg/l was exceeded in the sample collected from well MW07 with a concentration of 15.75 mg/l.
- As part of a recent study (Nature and Extend Study) under the directive of MDE, the County collected filtered and unfiltered groundwater samples during this semi-annual monitoring event. The purpose of filtering samples was to evaluate turbidity and its potential interferences to metals analysis. For this sampling event basically identical results were obtained for both filter and unfiltered samples. Please note that most of the MCL exceedances for metals were only slightly above the recommended MCLs. Please refer to Table-A, Appendix D (Table of Metals) of this report for additional information on filtered and unfiltered sampling results for metals.

Overall, data collected during this reporting period represent typical seasonal fluctuations in water quality with respect to monitored parameters for this landfill. Based on the latest monitoring and sample analysis obtained during this reporting period, there are no indications of any unexpected or unusual results that would require special attention and therefore no further actions are recommended at this time. The County continues to closely monitor the presence of VOCs and other contaminants and will notify MDE prior to the next report in the event that any detection is found to be significantly different from previous levels.

Please contact Nasser Kamazani at (240) 777-7717 with any questions about this report.

Sincerely,

David Lake, Manager
Water and Wastewater Policy Group

cc: Robert Hoyt, Director,
Department of Environmental Protection

Dan Locke, Chief
Division of Solid Waste Services,
Department of Environmental Protection

# WATER QUALITY MONITORING REPORT

# for

# GUDE LANDFILL

# Montgomery County, Maryland

# FALL 2013

**Prepared by Montgomery County Department of Environmental Protection**

**Prepared for Maryland Department of Environment, Solid Waste Program**

**December 10, 2013**

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# Introduction:

The Gude Landfill is located on the north side of Gude Drive near Southlawn Lane, northeast of the City of Rockville in Montgomery County. The site encompasses approximately 160 acres, of which approximately 100 acres have been used for the disposal of municipal waste and incinerator residues. It operated from the early 1960s until June 1, 1982. The Gude Landfill was constructed prior to the promulgation of regulations for landfill lining and leachate collection systems.

Since 1984, to monitor the quality of ground and surface water, the Montgomery County Department of Environmental Protection (DEP) has been collecting samples at a total of 25 monitoring sites, which include 20 observation wells and 5 stream locations. Beginning in fall 2010, as part of a Nature and Extent Study, sixteen (16) additional monitoring wells have been installed at the site. The purpose of the Nature and Extent Study, directed by MDE and managed by Montgomery County, is to assess and investigate the nature and extent of environmental impacts in the vicinity of and potentially resulting from the Gude Landfill. Locations of these monitoring sites can be found on the attached aerial photo titled Groundwater and Surface Water Monitoring Locations in Appendix A. Sampling and analysis are conducted semi-annually and include laboratory analysis for Volatile Organic Compounds (VOCs), Heavy Metals, field parameters (temperature, pH, conductivity) and other water quality parameters and indicators.

This report is organized into four sections, which discuss the results and observations based on the landfill water quality monitoring program. The four sections include a discussion of:

- VOC sampling results;
- Metals sampling results;
- Groundwater elevation and flow;
- Trends Analysis/Conclusions

The appendices provide data tables for reference, as well as aerial photos and maps.

## 1. Volatile Organic Chemical Sampling Results:

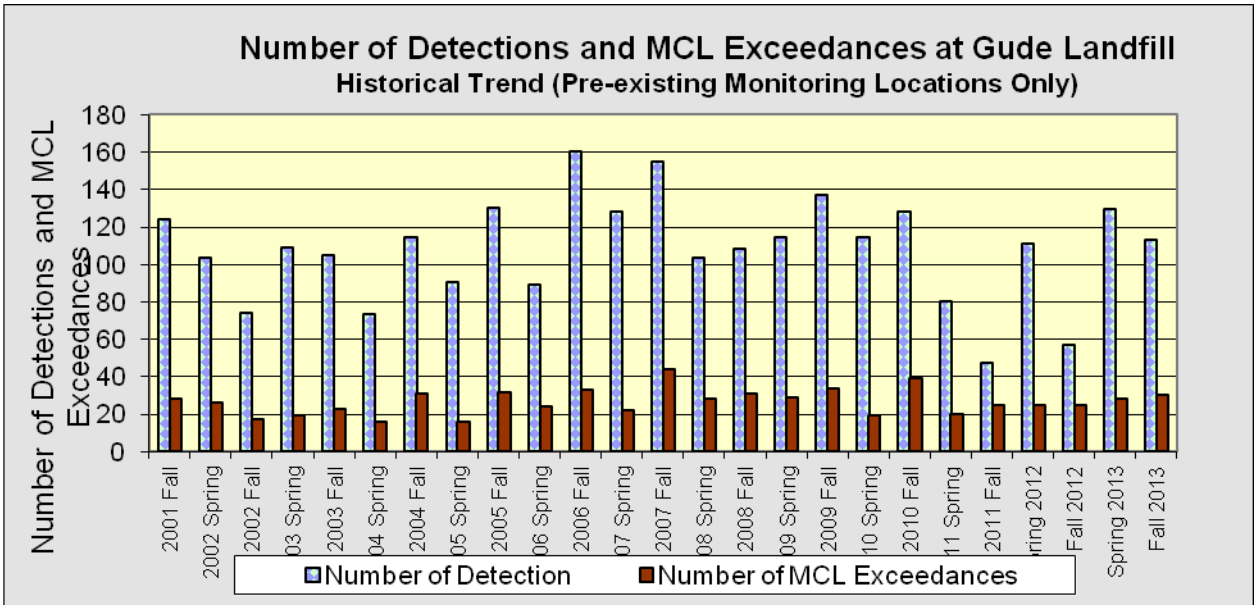
The highlights of the results for this reporting period are listed below. Please note that MCL (Maximum Contaminant Level) is a drinking water standard adopted by the U.S. EPA, its use in this report is as a reference only since this groundwater is not a source of drinking water. Please refer to Table 1 of the report for all the VOC results.

- No VOCs were detected above recommended Maximum Contaminant Level (MCL) in the following monitoring wells and stream locations:
  - **Pre-existing monitoring wells:** OB01, OB02, OB02A, OB04, OB06, OB07, OB07A, OB102, OB105, and OB15.
  - **Monitoring wells installed in 2010:** MW1B, MW2A, MW2B, MW3A, MW3B, MW04, MW06, MW07, MW08, MW10, MW11A, MW11B, and MW12.
  - **Stream Locations:** No VOCs were detected above the recommended MCL in any of the monitored stream locations.
- A total of 41 VOCs exceeded the recommended MCL in the following monitoring wells:
  - **Pre-existing monitoring wells:** OB25 (1 exceedance), OB03 (5 exceedance), OB03A (5 exceedance), OB08 (1 exceedance), OB08A (1 exceedance), OB10 (2 exceedances), OB11 (7 exceedances), OB11A (4 exceedances), and OB12 (4 exceedances).

- **Monitoring wells installed in 2010:** MW09 (1 exceedance), MW09 (1 exceedance), MW13A (4 exceedances), and MW13B (6 exceedances).

The following include a summary of these 41 VOC concentrations exceeding the recommended MCLs:

- 1,2-Dichloropropane concentration exceeded the MCL of 5 ug/l in observation wells OB03, OB03A, OB11, OB12, and MW13B. Concentrations exceeding the MCL for this compound ranged from 6.50 ug/l in OB11 to 15.30 ug/l in OB03.
- Benzene concentration exceeded the MCL of 5 ug/l in observation well OB03and OB11. The concentrations exceeding the MCL for this compound were 5.38 ug/l at OB03 and 6.17 ug/l at OB11.
- cis-1-2-Dichloroethene concentration exceeded the MCL of 70 ug/l in observation wells OB03, OB03A, OB11, OB11A, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 96.5 ug/l in OB11A to 135.88 ug/l in OB11.
- Dichloromethane concentration exceeded the MCL of 5 ug/l in observation wells OB11, and MW13B. Concentrations exceeding the MCL for this compound were 6.55 ug/l in MW13B and 12 ug/l in OB11.
- Tetrachloroethene concentration exceeded the MCL of 5 ug/l in observation wells OB11, OB11A, OB12, MW09, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 12.90 ug/l in MW09 to32.2 ug/l in OB11.
- Trichloroethene concentration exceeded the MCL of 5 ug/l in observation wells OB03, OB03A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 16 ug/l at OB12 to 87.4 ug/l at OB03.
- Vinyl Chloride concentration exceeded the MCL of 2 ug/l in observation wells OB03, OB03A, OB025, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the MCL for this compound ranged from 2.26 ug/l in OB04A to 16.8 ug/l in OB03.




Note: The above Graph does not include data collected from the monitoring wells installed in 2010.

## 2. Inorganic and Metals Sampling Results:

A summary of the metals and other parameters (non-organic contaminants) for this reporting period are listed below. Please refer to Table 3 of this report for additional information on metals and other water quality parameters results.

- A total of 5 metals and other non-organic contaminants exceeded the recommended MCL in the following monitoring locations:
  - **Pre-existing monitoring wells:** OB11 (1 exceedance).
  - **Monitoring wells installed in 2010**: MW3B (2 exceedances), MW07 (1 exceedance), MW10 (1 exceedance).
  - **Stream Locations**: No metal contaminants or other non-organic contaminants were detected above the recommended MCL in any of the monitored stream locations.

The following include a summary of these 5 metal concentrations exceeding the recommended MCLs.

- Cadmium with a recommended MCL of 0.005 mg/l was exceeded in a sample collected from OB11 with 0.0103 mg/l concentration.
- Chromium with a recommended MCL of 0.1 mg/l was exceeded in a sample collected from MW3B with 0.124 mg/l concentration.
- Lead with a recommended MCL of 0.015 mg/l was exceeded in the samples collected from observation well MW3B and MW10 with concentrations of 0.0171 mg/l and 0.0181 mg/l respectively. *(Note: The applied MCL for lead is different from other MCLs used in this report. The MCL for lead has been established for public drinking water systems and requires water samples to be collected from the tap. The regulations also require that no more than 10% of customer samples taken at the tap exceed the EPA Action Level of 0.015 mg/l. An action level exceedance is not a violation of water quality standards, but rather a trigger for further utility action. The MCL of 0.015 mg/l used in this report is only for comparative purposes.)*
- Nitrate with a recommended MCL of 10 mg/l was exceeded in the sample collected from well MW07 with a concentration of 15.75 mg/l.
- As part of a recent study (Nature and Extend Study) under the directive of MDE, the County collected filtered and unfiltered groundwater samples during this semi-annual monitoring event. The purpose of filtering samples was to evaluate turbidity and its potential interferences to metals analysis. For this sampling event basically identical results were obtained for both filter and unfiltered samples. Please note that most of the MCL exceedances for metals were only slightly above the recommended MCLs. Please refer to Table-A, Appendix D (Table of Metals) of this report for additional information on filtered and unfiltered sampling results for metals.

Overall, the results indicate comparable concentrations for metals and other water quality parameters from the last reporting period. Laboratory results for these metals are included in Appendix D, Tables 3 and 4 of this report.

## 3. Physical Water Quality Measurements:

Additional physical water quality parameter measurements and analysis were conducted during the latest monitoring period and the results are included in this report. These water quality

parameters are based on the monitoring requirements specified in the approved G&SWM Plan and include the followings:

| | |
|---|---|
| Alkalinity | Ammonia |
| Calcium | Chloride |
| Nitrate | pH |
| Potassium | Sodium |
| Specific Conductance. | Sulfate |
| TDS | Turbidity |

Results for the above water quality parameters are included in Appendix D, Tables 3 and 4 of this report.

## 4. Groundwater Elevations and Flow:

The groundwater elevation measurements of all the monitoring wells for the past monitoring events are included in Table-5 of this report. The results obtained from all the pre-existing and monitoring wells installed in 2010 indicate that the groundwater elevation at Gude Landfill has decreased by an overall average of 2.0 ft. from April 2013 to September 2013. Based on the groundwater elevation measurements collected from all (36) monitoring wells around the perimeter of the landfill, it appears that the groundwater flow at Gude Landfill is consistent with the topography of the Landfill itself. The groundwater appears to be flowing outward from the center toward the edges of the landfill. These outward flow directions seem to be more distinct on the southern and eastern portion of the landfill with minor flow components to the north and northeast. In general, the groundwater flow appears to basically follow the direction of surface water around the Gude Landfill.

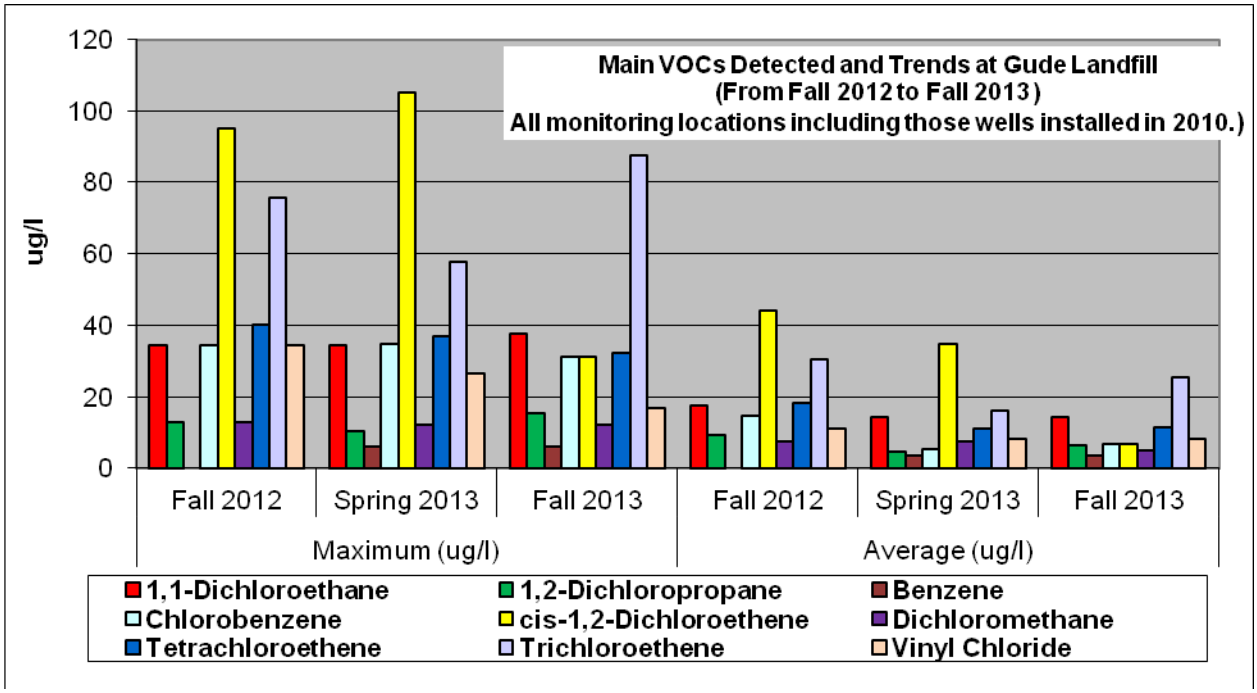
## 5. Conclusions/Trend Analysis:

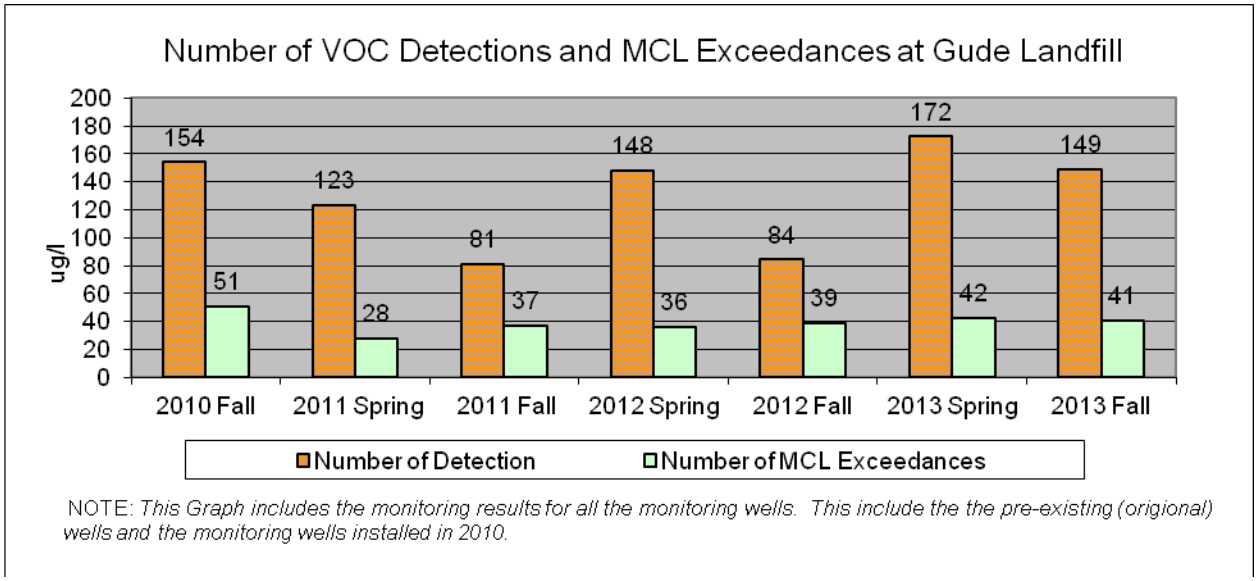
Results obtained from the latest monitoring activities (Spring 2013) are similar and comparable to those collected from prior monitoring results for the past several years. Major findings indicate that:

I. There are indications of some low level groundwater and surface water contamination in the vicinity of Gude Landfill including multiple MCL exceedances.

II. Detected contaminants at Gude Landfill mainly involve chlorinated solvent degradation products including 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride.

III. Historically most of the contaminants and MCL exceedances have been detected at OB11/OB11A located on the south side (front side) of the landfill and observation wells OB03/OB03A and MW13A/MW13B on the north side (back side) of the landfill.




NOTE: *This Graph includes the monitoring results for all the monitoring wells. This include the the pre-existing (origional) wells and the monitoring wells installed in 2010.*

To provide an overall perspective on the quality of groundwater and surface water around the Gude Landfill, a summary of statistical trend analyses and observations are provided below and are included in Appendix C of this report. Please refer to the attached tables and diagrams for additional information.

- Groundwater flow around the landfill appears to follow the general topography of the area where the landfill is located and it follows the general surface water flow direction. The overall surface water flow in the area is towards the east and south away from the landfill.

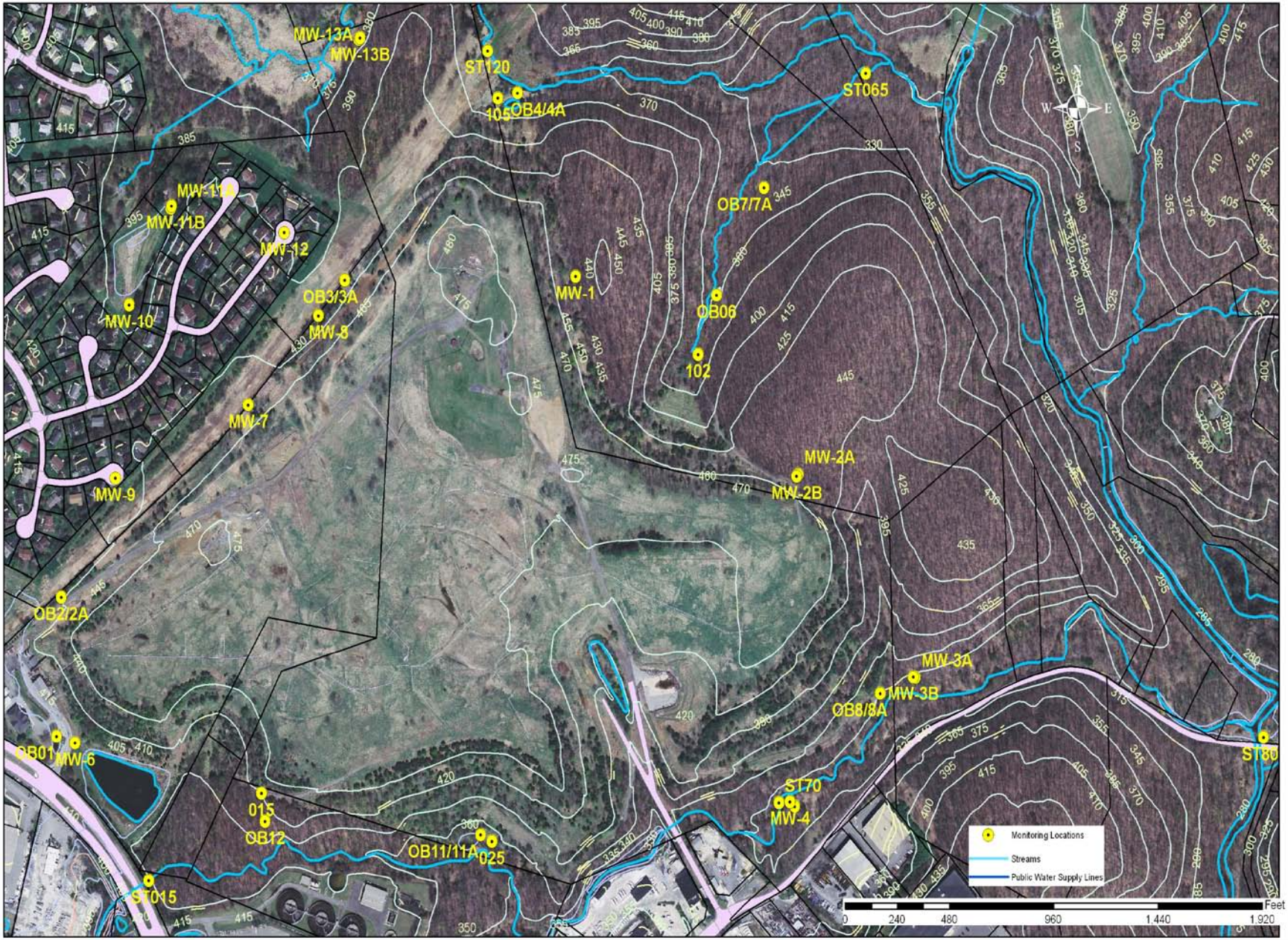
- Most of the detected groundwater contaminants at Gude Landfill are Volatile Organic Compounds (VOCs). These low levels of VOCs detected in groundwater are generally not transported to surface waters.
- The overall number of detections per year has remained relatively constant over the past 8-9 year time period.
- While some detected VOC concentrations (1,2-Dichloropropane in OB03) appear to be trending upwards, the concentration for other VOC (Tetrachloroethene in OB03) seem to be decreasing over the same period suggesting an ongoing VOC degradation process. Contaminants at Gude Landfill mainly involve chlorinated solvent degradation products including 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride.
- Since April 2001, most of all detections exceeding MCL have occurred in observation wells located on the northern and southern part of the landfill which includes OB11/OB11A located on the south side (front side) of the landfill and observation wells OB03/OB03A and MW13A/MW13B on the north side (back side) of the landfill.

# Appendix A

# Gude Landfill Aerial Photo and Sample Locations

# Groundwater and Surface Water Monitoring Locations

Gude Landfill



# Appendix B

# Tables of Volatile Organic Compounds

**Results in (μg/l)**

# TABAL 1 - Volatile Organic Compounds

| | Parameter | OB01 | OB02 | OB02A | OB03 | OB03A | OB04 | OB04A | OB06 | OB07 |
|---|---|---|---|---|---|---|---|---|---|---|
| FALL 2013 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | 37.8 | 32.5 | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | 1.57 | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | 2.61 | 2.76 | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | **15.3** | **12.8** | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | 18.2 | 16 | 5.2 | 6.23 | 1.21 | ND |
| | 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | **5.38** | 4.53 | 1.54 | 1.94 | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | 2.43 | 2.78 | ND | ND | 1.21 | ND |
| | Chloroethane | ND | ND | ND | ND | 1.43 | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 1.9 | ND | ND | **126** | **94.8** | ND | 19.4 | ND | 1.66 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | 1.73 | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | 1.24 | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | 3.98 | 5.83 | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | **87.4** | **64** | 1.76 | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | **16.8** | **12.5** | 1.71 | **2.26** | ND | ND |
| | Xylenes (Total) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected,
Note: MCL exceedances are indicted in Red

# TABAL 1 - Volatile Organic Compounds

| | Parameter | OB07A | OB08 | OB08A | OB10 | OB102 | OB105 | OB11 | OB11A | OB12 |
|---|---|---|---|---|---|---|---|---|---|---|
| FALL 2013 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | 1.38 | 1.54 | 4.91 | ND | ND | 21.2 | 16.4 | 15.1 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | 1.41 | 2.05 | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | 3.57 | 3.56 | ND |
| | 1,2-Dichloropropane | ND | 1.54 | 3.09 | 2.36 | ND | ND | **6.5** | 3.75 | **8.07** |
| | 1,4-Dichlorobenzene | ND | 1.59 | 1.91 | 9.31 | 1.14 | ND | 13.7 | 15 | 4.3 |
| | 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | 2.16 | ND | ND | **6.17** | 4.13 | 3.27 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 4.26 | 5.3 | 1.2 | 2.14 | ND | 31 | 21.1 | 1.23 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 1.58 | 18.4 | 26.2 | 33.9 | 1.26 | ND | **135.88** | **96.5** | 30.6 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | **12** | 1.11 | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | 1.99 | ND | ND | ND | ND | ND | **32.2** | **19.7** | **14.4** |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | 1.98 | 2.22 | ND | ND | 4.94 | 3.91 | 2.09 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | **17.9** | ND | ND | **34.6** | **28.8** | **16** |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | 2.04 | ND | 1.74 |
| | Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **4.41** | **6.38** | **14.4** | ND | ND | **14** | **14.9** | **2.95** |
| | Xylenes (Total) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected,
Note: MCL exceedances are indicted in Red

# TABAL 1 - Volatile Organic Compounds

| | Parameter | OB15 | OB25 | ST015 | ST120 | ST65 | ST70 | ST80 | MW1B | MW2A |
|---|---|---|---|---|---|---|---|---|---|---|
| FALL 2013 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | 2.16 | 3.73 | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 6.84 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 1.43 | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 7.75 | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | 19.5 | ND | ND | 2.26 | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 3.92 | ND | ND | ND | ND | ND | ND | 2.45 |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | 2.11 | ND | 1.01 | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **3.47** | 1.87 | ND | ND | ND | ND | ND | ND |
| | Xylenes (Total) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected,
Note: MCL exceedances are indicted in Red

# TABAL 1 - Volatile Organic Compounds

| | Parameter | MW2B | MW3A | MW3B | MW04 | MW06 | MW07 | MW08 | MW09 | MW10 |
|---|---|---|---|---|---|---|---|---|---|---|
| FALL 2013 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | ND | 3.99 | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | 4.03 | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | 1.64 | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | 1.7 | 15.6 | 3.45 | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | 2.57 | ND | ND | ND | ND | 4.39 | ND | **12.9** | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | 1.26 | 2.62 | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylenes (Total) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected,
Note: MCL exceedances are indicted in Red

# TABAL 1 - Volatile Organic Compounds

| | Parameter | MW11A | MW11B | MW12 | MW13A | MW13B |
|---|---|---|---|---|---|---|
| FALL 2013 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | 19.9 | 16.6 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | 1.09 |
| | 1,2-Dichloroethane | ND | ND | ND | 1.74 | 2.52 |
| | 1,2-Dichloropropane | ND | ND | ND | 3.08 | **7.87** |
| | 1,4-Dichlorobenzene | ND | ND | ND | 6.46 | 11.5 |
| | 2-Butanone | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | ND |
| | Acrylonitrile | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | 3.57 | 4.17 |
| | Bromochloromethane | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | 1 | 2.29 |
| | Chloroethane | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND |
| | Chloromethane | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | **120** | **109** |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | 4.04 | **6.55** |
| | Ethylbenzene | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 2.42 | ND | **24.2** | **24.2** |
| | Toluene | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | 4.76 | 4.18 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | **37.1** | **34.5** |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND |
| | Vinyl Acetate | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | **9.83** | **9.96** |
| | Xylenes (Total) | ND | ND | ND | ND | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected,
Note: MCL exceedances are indicted in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB01 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 1.37 | ND | 2.31 | 1.48 | 1.09 | NS | 1.02 | 1.85 | 0.75 | 1.33 | ND | ND | ND | ND | 1.09 | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | NS | ND | NT | 1 | 1.48 | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | 0.46 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | 1.45 | 1.28 | 1.04 | ND | ND | NS | ND | ND | 0.59 | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 2.16 | 1.51 | 1.78 | ND | NS | ND | 1.94 | 2.81 | 3.19 | ND | ND | 1.9 | ND | 1.64 | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | NS | ND | ND | 0.39 | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | NS | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 1.26 | ND | 1.21 | ND | NS | ND | 1.03 | 1.57 | 1.43 | ND | ND | 1.3 | ND | 1.1 | ND |
| | Chloroethane | ND | ND | ND | ND | ND | NS | ND | ND | 0.25 | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | NS | ND | ND | 0.92 | 0.74 | ND | ND | ND | ND | 1.38 | ND |
| | Chloromethane | NT | NT | NT | NT | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 16.06 | 34.18 | 22.85 | 25.5 | 14.78 | NS | ND | 11.8 | ND | 7.71 | 6.6 | ND | 6.2 | ND | 6.68 | 1.9 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | NS | ND | ND | 0.36 | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | 5.12 | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | NS | ND | ND | ND | 0.77 | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | NS | ND | ND | 0.34 | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 1.26 | ND | ND | ND | NS | 1.2 | ND | 0.51 | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | 1.13 | ND | 1.42 | ND | NS | ND | ND | 0.67 | 0.70 | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | 2.25 | 2.34 | 1.52 | 1.44 | ND | NS | ND | ND | 0.85 | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | **3.32** | **5.26** | 1.42 | **4.75** | 1.31 | NS | ND | ND | **2.77** | **5.09** | ND | ND | 1.2 | ND | 1.3 | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall

Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB02 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | 0.48 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.18 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 1.79 | 1.41 | 1.14 | 1.19 | 1.96 | 1.38 | 1.15 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall

Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB02A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | 0.33 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 1.5 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 6.9 | ND | ND | 5.96 | ND | 6.87 | 9.19 | ND | 0.65 | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | 2.27 | ND | ND | 1.57 | ND | 1.39 | 1.01 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | NT |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB03 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 36.78 | 21.95 | 34.7 | 44.7 | 47.23 | 36.07 | 48.38 | 45 | 13.2 | 36.40 | 23 | ND | 23 | 34.4 | 34.3 | 37.8 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.71 | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | **1.07** | ND | ND | ND | ND | ND | 1.52 | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 2.1 | 1.51 | 2.83 | 1.82 | 1.34 | ND | NT | 0.83 | 1.92 | ND | ND | 1.2 | ND | 1.47 | 1.57 |
| | 1,2-Dichloroethane | 2.58 | 3.87 | 2.95 | **5.32** | 4.98 | 4.09 | 4.81 | ND | 1.24 | 3.84 | ND | **6** | ND | ND | 3.68 | 2.61 |
| | 1,2-Dichloropropane | **9.4** | **13.74** | **9.67** | **15.23** | **14.47** | **12.33** | **16.14** | **15.8** | 3.6 | **10.10** | 4.1 | **11** | **6.8** | **12.8** | **10.5** | **15.3** |
| | 1,4-Dichlorobenzene | 10.01 | 15.05 | 13.83 | 16.69 | 7.97 | ND | ND | 13.6 | 11.7 | 11.30 | ND | ND | 9.7 | 16.6 | 12.4 | 18.2 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.12 | ND | 8.1 | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | 3.34 | 4.53 | 3.99 | **6.12** | 4.62 | 3.2 | **5.53** | 4.56 | 1.83 | 4.24 | ND | **5.5** | 1.9 | ND | 3.44 | **5.38** |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | 3.9 | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | 4.92 | 3.98 | 5.59 | 3.89 | 2.32 | 2.04 | 2.76 | 2.98 | 7.22 | 2.26 | 5.7 | 2.4 | 3.1 | ND | 2.04 | 2.43 |
| | Chloroethane | 1.48 | 1.49 | 1.59 | ND | 1.23 | 1.19 | 1.61 | 1.55 | 0.79 | 1.51 | ND | ND | ND | ND | 1.2 | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 5.3 | 1.7 | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | **71.67** | **128.85** | **87.59** | **148.91** | **161.47** | **120.9** | **164.77** | **156** | 31.7 | **117.00** | 38 | ND | **71** | **94.9** | **97.1** | **126** |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | 5.57 | ND | 2.05 | ND | 1.71 | 2.6 | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | 1.33 | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | 1.85 | **22.97** | ND | **27.73** | ND | ND | 4.49 | ND | ND | **11.00** | ND | **6.2** | ND | ND | 2.39 | ND |
| | Toluene | ND | ND | ND | ND | 2.46 | ND | ND | 1.49 | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | 5.19 | 11.59 | 7 | 12.95 | 8.87 | 12.43 | 11.02 | 9.59 | 3.11 | 7.01 | 6.3 | 14 | 4.8 | 7.24 | 6.92 | 3.98 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **71.55** | **112.28** | **76.03** | **108.24** | **132.6** | **107.44** | **130.79** | **131** | **17.4** | **81.60** | **21** | **82** | **47** | **75.6** | **57.9** | **87.4** |
| | Trichlorofluoromethane | 3.18 | 4.34 | ND | ND | ND | ND | ND | 4.88 | ND | ND | ND | 8.3 | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | **11.67** | **30.39** | **19.65** | **31.39** | **23.16** | **17.61** | **29.48** | **30.5** | **7.84** | **28.00** | **11** | **41** | **14** | **17.5** | **17.4** | **16.8** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB03A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 18.85 | 23.61 | 15.56 | 44.14 | 50.9 | 41.01 | 46.99 | 25.3 | 3.23 | 32.40 | ND | ND | 11 | 30.5 | 12.5 | 32.5 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.57 | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 2.11 | 1.23 | 2.07 | 2 | 1.65 | ND | NT | 0.42 | 0.81 | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | 1.82 | 3.59 | 1.33 | **5.52** | **5.07** | 4.4 | 4.1 | ND | ND | 3.30 | ND | 3.7 | ND | ND | 1.47 | 2.76 |
| | 1,2-Dichloropropane | **7.02** | **12.72** | 4.05 | **14.78** | **14.83** | **13.07** | **13.54** | **9.1** | 0.92 | **10.80** | ND | **8.1** | 2.9 | **10.5** | 3.67 | **12.8** |
| | 1,4-Dichlorobenzene | 9.64 | 15.61 | 16.31 | 14.76 | 7.67 | ND | ND | 12.6 | 5.92 | 9.28 | ND | ND | 6.3 | 14.1 | 5.64 | 16 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | 0.6 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.13 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | 2.73 | **5.18** | 3.8 | **6.23** | 4.47 | **5.44** | 4.08 | 4.19 | 1.2 | 4.06 | ND | 4.7 | 1.3 | ND | 1.51 | 4.53 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | 10.33 | 5.24 | 13.9 | 2.8 | 1.98 | 2.87 | 3.73 | 5.52 | 5.21 | 2.78 | ND | 3.3 | 3.4 | ND | 2.46 | 2.78 |
| | Chloroethane | ND | 1.53 | 1.42 | 1.63 | 1.43 | 1.38 | 1.69 | 1.21 | 0.33 | 1.31 | ND | ND | ND | ND | ND | 1.43 |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 1.54 | ND | 1.5 | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 41.96 | **117.86** | 29.76 | **150.17** | **168.82** | **141.19** | **137.52** | **84.9** | 6.23 | **98.10** | 11 | ND | 33 | **94.6** | 34.1 | **94.8** |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2 | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | 1.39 | 1.15 | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | **29.4** | ND | **33.23** | 1.66 | **26.21** | 3.67 | **7.11** | ND | **17.80** | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | 3.1 | 9.08 | 3.72 | 10.82 | 9.93 | 11.68 | 9.08 | 6.06 | 1.01 | 5.93 | ND | 9 | 2.3 | 6.13 | 2.69 | 5.83 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **51.33** | **95.18** | **20.26** | **97.78** | **141.41** | **101.3** | **113.09** | **66.7** | 2.71 | **19.30** | ND | **56** | **18** | **64.8** | **18** | **64** |
| | Trichlorofluoromethane | ND | 3.77 | ND | ND | ND | ND | ND | 3.08 | ND | 2.47 | ND | 6.5 | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | NT | ND | ND | ND | ND | ND |
| | Vinyl Chloride | **4.62** | **26.98** | **5.96** | **30.58** | **23.11** | **22.43** | **27.36** | **22.9** | 1.99 | **23.50** | ND | **31** | ND | **15.8** | **7.33** | **12.5** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB04 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.35 | ND | 22 | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | 0.45 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | 0.46 | ND | ND | ND | ND | ND | 1.01 | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | 0.52 | ND | ND | ND | ND | ND | 1.15 | ND |
| | 1,4-Dichlorobenzene | ND | 5.96 | 5.53 | 6.19 | ND | ND | ND | 6.06 | 5.92 | 2.91 | ND | ND | 5.9 | 5.7 | 14.7 | 5.2 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | 0.41 | 0.65 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.49 | 11.90 | 6.6 | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 1.65 | 1.7 | 1.85 | ND | 1.21 | 1.68 | 1.62 | 1.6 | 2.04 | 2.2 | ND | 1.6 | ND | 3.73 | 1.54 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 1.11 | 1.05 | 1.19 | ND | ND | ND | 1.09 | 1.18 | 0.90 | ND | ND | 1.4 | ND | 2.85 | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 7.5 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 2.59 | 18.58 | 18.76 | 20.95 | 6.45 | 15.43 | 18.92 | 17 | 16.8 | 8.32 | 67 | ND | 14 | 12.4 | 27.7 | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | 1.48 | 1.6 | 1.42 | ND | ND | 1.42 | 1.93 | 1.72 | 1.03 | **7.7** | ND | ND | ND | 3.48 | 1.73 |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 2.23 | 1.93 | 2.07 | ND | 1.34 | 1.99 | 1.25 | 1.69 | 0.70 | **13** | ND | 2 | ND | 3.93 | 1.24 |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | 0.45 | ND | 5.4 | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | 2.19 | 1.82 | 2.12 | ND | 1.4 | 1.82 | 1.66 | 1.51 | 1.08 | **17** | ND | 1.6 | ND | 3.42 | 1.76 |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.8 | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | 1.33 | 1.23 | 1.7 | ND | ND | 1.47 | 1.53 | 1.26 | **2.16** | ND | ND | ND | ND | **3.03** | 1.71 |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB04A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | 0.47 | ND | ND | ND | ND | ND | 1.06 | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | 0.57 | 0.51 | ND | ND | ND | ND | 1.33 | ND |
| | 1,4-Dichlorobenzene | 4.58 | 7.3 | 6.87 | 7.42 | ND | 4.46 | ND | 7.33 | 6.97 | 4.66 | ND | ND | 7.6 | 6.94 | 15.9 | 6.23 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | 0.78 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | 18.60 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 1.65 | 1.72 | 1.83 | 1.4 | 1.32 | 1.65 | 1.68 | 1.65 | 2.45 | ND | 2.1 | 1.6 | ND | 3.5 | 1.94 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 1.08 | 1.02 | 1.17 | ND | ND | 1.07 | 1.14 | 1.14 | 0.87 | ND | ND | 1.3 | ND | 2.56 | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 12.82 | 23.31 | 24.08 | 26.31 | 23.78 | 20.7 | 24.4 | 21.8 | 21.7 | 8.54 | ND | ND | 20 | 16.4 | 36.8 | 19.4 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | 2.44 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | 1.5 | 2.77 | 3.31 | 2.67 | 2.45 | ND | 2.98 | 3.38 | 3.18 | 3.39 | ND | 4.4 | ND | ND | **6.57** | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | 1.45 | 1.92 | 1.77 | 1.65 | 1.42 | 1.34 | 1.7 | 1.23 | 1.52 | 0.60 | ND | 1.3 | 1.9 | ND | 3.36 | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | 0.55 | ND | ND | 2.2 | ND | ND | 1.22 | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | 1.87 | 2.24 | 1.93 | 2.08 | 1.96 | 1.45 | 1.87 | 1.83 | 1.71 | 1.07 | ND | 1.3 | 1.9 | ND | 3.39 | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | 1.15 | 1.06 | **2.02** | 1.37 | 1.39 | 1.65 | **2.12** | 1.83 | **2.78** | ND | ND | ND | ND | **4.37** | **2.26** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB06 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 11 | ND | 1.44 | 1.03 | ND | ND | 1.43 | ND | 0.93 | ND | ND | 7 | ND | 1.66 | 1.21 |
| | 2-Butanone | ND | ND | NT | ND | NT | NT | NT | ND | 0.57 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | NT | ND | NT | NT | NT | ND | 0.14 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | 0.66 | 0.56 | ND | ND | ND | ND | 1.4 | 1.21 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.91 | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | 2.77 | NT | 2.92 | 2.31 | 2.39 | 2.55 | 2.12 | 1.82 | 1.64 | ND | ND | 1.6 | ND | 1.65 | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 1.11 | 1.15 | ND | ND | 1.01 | ND | ND | 0.68 | ND | ND | ND | ND | ND | 1.16 | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | 0.36 | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB07 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | **19** | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | NS | ND | ND | 0.54 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 10 | ND | ND | ND | NS | ND | NT | 0.47 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | **5.3** | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 10 | ND | ND | ND | NS | ND | ND | 0.58 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | **7.9** | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | NS | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | NS | ND | ND | ND | 1.38 | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | 1.81 | ND | ND | ND | NS | 1.45 | 1.63 | 1.3 | 1.48 | ND | ND | 1.7 | ND | 1.7 | 1.66 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 1.68 | ND | ND | ND | NS | 1.3 | ND | 1.23 | 1.61 | ND | **23** | ND | ND | 1.52 | ND |
| | Toluene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | 0.49 | 0.72 | ND | **23** | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB07A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | ND | 0.23 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 1.20 | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 1.05 | 2.6 | 2.02 | 2.02 | 2.09 | 1.85 | 3.51 | 3 | 1.66 | 1.80 | ND | ND | ND | ND | 2.18 | 1.58 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **5.8** | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | 1.41 | 2.56 | 1.59 | 1.46 | 1.91 | 2.12 | 2.66 | 1.81 | 1.94 | 1.82 | 2 | **23** | 2 | ND | 2.06 | 1.99 |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | 0.64 | 0.88 | ND | **21** | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB08 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | 1.23 | ND | ND | ND | ND | 1.2 | 0.46 | 0.87 | ND | ND | ND | ND | ND | 1.38 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | 0.54 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | NT | ND | ND | ND | ND | ND | ND | NT | 0.59 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | NT | ND | ND | ND | ND | ND | ND | ND | 0.36 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | 1.78 | 1.59 | 1.67 | ND | ND | 1.24 | 1.16 | 1.19 | 0.78 | 1.2 | ND | 1.6 | ND | ND | 1.54 |
| | 1,4-Dichlorobenzene | NT | 2.1 | 3.35 | 3.16 | ND | ND | ND | 2.15 | 2.92 | 1.84 | ND | ND | 4 | ND | 1.01 | 1.59 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | 2.7 | 0.21 | 0.50 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 1.09 | ND | ND | ND | ND | ND | ND | 0.63 | 0.66 | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.24 | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 4.81 | 4.14 | 4.04 | ND | ND | 22.02 | 1.95 | 3.13 | 3.31 | 6.1 | ND | 5.7 | 4.41 | 1.52 | 4.26 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.41 | 0.55 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 2.6 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | 9.92 | 8.88 | 11.07 | 3.92 | 3.1 | 10.93 | 10.4 | 10.3 | 8.39 | 8.9 | ND | 17 | 14.6 | 8.33 | 18.4 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | 0.38 | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | 0.44 | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | 1.22 | 1.11 | 1.26 | ND | ND | ND | ND | 0.87 | 0.66 | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | 0.42 | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.02 | ND | 3.2 | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **2.67** | **2.47** | **2.98** | ND | ND | **2.04** | **2.35** | **2.91** | **3.18** | ND | ND | **4** | **3.68** | 1.78 | **4.41** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB08A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | 1.43 | 1.05 | ND | ND | ND | 1.47 | 0.44 | 0.97 | ND | ND | ND | ND | ND | 1.54 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | 1.07 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | 0.32 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.38 | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | 2.53 | 2.17 | 2.33 | 1.22 | ND | 2.11 | 2.02 | 1.47 | 1.10 | ND | ND | 2 | ND | 1.08 | 3.09 |
| | 1,4-Dichlorobenzene | ND | 5.86 | 4.47 | 4.75 | ND | ND | ND | 3.97 | 3.34 | 2.83 | ND | ND | 4.7 | 4.19 | 1.14 | 1.91 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 1.39 | 1.23 | 1.26 | ND | ND | 1.09 | 1.03 | 0.89 | 0.99 | ND | ND | 1.1 | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | 5.54 | 4.84 | 4.64 | 2.27 | ND | 3.43 | 3.38 | 3.93 | 4.22 | 7.3 | ND | 6.6 | 5.04 | 1.54 | 5.3 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.47 | 0.62 | 1 | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.89 | 4 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 4.33 | 18.21 | 14.02 | 21.08 | 10.07 | 8.42 | 22.57 | 21.2 | 13.4 | 14.10 | 12 | ND | 21 | 19.6 | 9.61 | 26.2 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | 0.42 | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | 1.79 | 1.45 | 1.89 | ND | ND | 1.48 | 1.37 | 0.99 | 0.89 | ND | ND | ND | ND | ND | 1.98 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | 2.26 | 3.72 | 1.51 | 2.3 | ND | ND | 1.52 | 1.29 | 0.64 | 0.51 | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | 4 | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **4.03** | **3.44** | **4.8** | 1.6 | ND | **5.16** | **6.5** | **4.11** | **4.76** | ND | ND | **5.4** | **4.99** | **2.31** | **6.38** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall

Note: MCL exceedances are indicated in Red

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB10 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | 2.2 | 4.99 | 1.04 | 1.51 | ND | 3.49 | ND | 5.60 | ND | ND | ND | 4.06 | 7.23 | 4.91 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | 1.19 | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | 1.02 | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.64 | ND | ND | ND | ND | 1.43 | ND |
| | 1,2-Dichloropropane | 1.08 | ND | 1.48 | 4.46 | 1.55 | 1.84 | ND | 2.53 | 1.26 | 2.65 | ND | ND | 2.8 | ND | **5.86** | 2.36 |
| | 1,4-Dichlorobenzene | ND | 11 | 1.02 | 6.22 | ND | ND | ND | 4.84 | 2.1 | 5.54 | ND | ND | 5 | 7.09 | 12.9 | 9.31 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | 1.67 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | 2.86 | ND | 1.1 | ND | 1.72 | 0.82 | 2.04 | ND | 2.4 | 1.6 | ND | 3.49 | 2.16 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.22 | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | 1.03 | NT | NT | NT | ND | ND | ND | 2.3 | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | 1.01 | ND | ND | ND | ND | 0.32 | 0.98 | ND | ND | 1.2 | ND | 3.16 | 1.2 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.24 | 0.68 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 6.2 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 4.81 | ND | 13.7 | 34.09 | 20.83 | 9.73 | ND | 17.9 | 11.5 | 24.00 | 9.6 | ND | 24 | 25.6 | 51.2 | 33.9 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | 2.47 | ND | ND | ND | ND | 1.03 | 2.86 | 1.95 | ND | 2.3 | 1.8 | ND | 3.43 | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | 5.04 | 1.12 | 1.49 | ND | 2.39 | 1.18 | 3.94 | ND | 3.9 | ND | ND | 5.16 | 2.22 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **8.76** | ND | **10.6** | **28.64** | 1.31 | 3.73 | ND | **13.3** | **5.27** | **13.40** | ND | **11** | **12** | **14.4** | **25.4** | **17.9** |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | **2.43** | **16.03** | **2.15** | **12.62** | ND | **6.07** | **2.39** | **11.70** | ND | **17** | **9** | **12.5** | **26.6** | **14.4** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB102 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 12 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 12 | 2.03 | ND | 1.81 | 1.43 | ND | ND | 1.6 | 1.12 | ND | ND | 1.4 | ND | ND | 1.14 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | 0.53 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.25 | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | 1.54 | 1.65 | 1.74 | 2.43 | 1.65 | 1.41 | 3.43 | 2.27 | 1.7 | 1.51 | ND | ND | 2.6 | ND | ND | 2.14 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.05 | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 1.28 | 2.3 | 2.14 | 2.5 | 1.75 | 1.46 | 1.54 | 1.38 | 1.13 | 0.65 | ND | ND | ND | ND | ND | 1.26 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | 0.47 | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | 1.11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB105 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.55 | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | 2.23 | ND | 1.46 | ND | 3.38 | 0.72 | 3.32 | ND | ND | 3.9 | 4.51 | 7.03 | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | 0.23 | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | 1.27 | ND | 31.10 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.90 | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.55 | ND | ND | ND | ND | 1.24 | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.89 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | 8.03 | ND | 7.14 | ND | 11.1 | 0.97 | ND | ND | ND | 14 | 15 | 24.6 | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.77 | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | 1.25 | ND | 1.38 | ND | 2.1 | 1.4 | ND | 2.96 | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | **2.04** | ND | ND | ND | 1.51 | ND | **3.03** | ND | ND | ND | ND | 1.66 | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB11 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | 1.52 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 13.27 | 15.9 | 29.18 | 29.33 | 11.14 | 23 | 31.01 | 33.4 | 20.4 | 15.10 | ND | ND | 21 | 22.4 | 22.1 | 21.2 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | 0.89 | 1.03 | 0.45 | 0.93 | **25** | **30** | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 2.89 | 2.38 | 2.42 | 1.03 | 1.55 | ND | NT | 1.75 | 1.51 | 3.9 | ND | 3 | ND | 2.69 | 1.41 |
| | 1,2-Dichloroethane | 1.38 | 3.81 | ND | **5.36** | 3.16 | 3.68 | 4.66 | 4.72 | ND | 3.94 | 2.8 | ND | ND | ND | 3.66 | 3.57 |
| | 1,2-Dichloropropane | 3.47 | **8.11** | **7.99** | **8.27** | 4.67 | **6.31** | **8.28** | **8.15** | 4.9 | **6.10** | **5.1** | **7.2** | **6.3** | ND | **6.13** | **6.5** |
| | 1,4-Dichlorobenzene | ND | 13.38 | 12.63 | 13.36 | 2.46 | 6.43 | ND | 14.6 | 9.13 | 9.85 | ND | ND | 17 | 14.8 | 14.9 | 13.7 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | 0.95 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | 24.60 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | 1.43 | **9.78** | **9.69** | **10.69** | 2.04 | **6.16** | **9.56** | **9.37** | 4.32 | **8.29** | **5.2** | **12** | **6.9** | ND | **6.02** | **6.17** |
| | Bromochloromethane | ND | 1.94 | 2.25 | 1.22 | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | 12.61 | 60.16 | 56.32 | 61.28 | 11.69 | 35.91 | 52.75 | 50 | 28.3 | 34.30 | 52 | ND | 41 | 34.5 | 34.6 | 31 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.57 | ND | 17 | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 2.3 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 45.81 | **149.39** | **164.85** | **176.66** | **92.93** | **137.27** | **190.55** | **184** | **123** | **73.60** | ND | ND | **160** | **94.8** | 64.16 | **135.88** |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | 2.51 | **42.44** | **42.01** | **35.48** | **9.24** | **19.47** | **28.72** | **30.6** | 7.21 | **24.20** | **16** | **18** | **12** | **13** | **12.3** | **12** |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | 2.2 | ND | 6.41 | 2.67 | ND | 1.65 | 5.6 | ND | 2.6 | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | **20.17** | **65.48** | **62** | **60.22** | **32.4** | **52.48** | **67.92** | **43.9** | **35.6** | **19.60** | **26** | **44** | **47** | **40.1** | **36.9** | **32.2** |
| | Toluene | ND | ND | ND | ND | ND | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | 1.09 | 6.19 | 5.6 | 8.31 | 2.88 | 8.83 | 7.15 | 6.37 | 3.19 | 2.78 | 4.9 | 3.3 | 4.6 | ND | 4.31 | 4.94 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **20.17** | **55.99** | **52.41** | **59.1** | **28.56** | **42.66** | **53.74** | **51.5** | **31.2** | **33.90** | **28** | **37** | **39** | **34.2** | **32.6** | **34.6** |
| | Trichlorofluoromethane | ND | 4.37 | 4.25 | 5.59 | 1.93 | 2.85 | 4.58 | 3.98 | 1.61 | 3.78 | 6.8 | ND | 3.3 | ND | 2.47 | 2.04 |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.25 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | 1.75 | **15.95** | **12.02** | **16.89** | **4.49** | **8.73** | **15.64** | **20.3** | **7.43** | **20.90** | **14** | ND | **13** | **14.1** | **13.9** | **14** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB11A | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 27.58 | 6.36 | 14.01 | 28.55 | 28.9 | 24.24 | 23.08 | 27.8 | 16.8 | 16.40 | ND | ND | 15 | 15.8 | 15.2 | 16.4 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.07 | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **1.8** | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 1.84 | 1.29 | 1.88 | 2.45 | 2.05 | ND | NT | 1.67 | 1.10 | 2.8 | ND | 2.1 | ND | 1.87 | 2.05 |
| | 1,2-Dichloroethane | 3.15 | 2.36 | ND | **5.76** | **5.34** | 4.48 | 3.6 | ND | 2.7 | 1.88 | ND | ND | ND | ND | 2.48 | 3.56 |
| | 1,2-Dichloropropane | **7.89** | **5.03** | 3.93 | **8.63** | **7.85** | **7.26** | **6.44** | **7.2** | 4.18 | 4.06 | 3.7 | ND | 4.6 | ND | 4.08 | 3.75 |
| | 1,4-Dichlorobenzene | 8.3 | 9.1 | 8.58 | 15.32 | 11.24 | 12.3 | ND | 15.2 | 13.4 | 9.32 | ND | ND | 15 | 13.7 | 13.8 | 15 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.12 | 22.80 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | **5.66** | **5.76** | 4.87 | **9.72** | **7.37** | **7.13** | **6.67** | **7.51** | 4.19 | 3.59 | 3.5 | ND | 4.3 | ND | 3.73 | 4.13 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | 51.24 | 34.47 | 23.03 | 52.49 | 42.48 | 39.6 | 33.51 | 36.9 | 21.3 | 20.60 | 29 | ND | 24 | 22.3 | 20.5 | 21.1 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.39 | 0.89 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | **119.67** | **100.04** | **86.72** | **189.64** | **189.43** | **173.52** | **148.44** | **168** | **113** | **81.60** | **76** | ND | **100** | **89** | **78.6** | **96.5** |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | **8.39** | 3.6 | 2.74 | **9.3** | **5.59** | 1.73 | 2.72 | 1.77 | 2.4 | **5.45** | 1.8 | ND | **5.9** | ND | ND | 1.11 |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | 4.33 | ND | 5.76 | 2.49 | ND | 2.00 | 3.8 | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | **47.07** | **37.1** | **23.91** | **51.32** | **54.18** | **53.26** | **44.75** | **33.8** | **26.3** | **10.70** | **14** | ND | **27** | **22.8** | **19.1** | **19.7** |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | 3.57 | 3.67 | 2.74 | 8.79 | 9.82 | 10.82 | 5.07 | 5.45 | 3.07 | 3.18 | ND | ND | 3.1 | ND | 3.02 | 3.91 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **52.6** | **34.14** | **24.25** | **53.8** | **50.9** | **45.34** | **39.05** | **42.4** | **26.1** | **21.60** | **17** | ND | **28** | **24.7** | **24** | **28.8** |
| | Trichlorofluoromethane | 2.52 | 1.24 | 1.04 | 3.79 | 2.9 | 2.1 | 2.09 | 2.14 | 1.26 | 2.53 | 2.9 | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.27 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | **7.95** | **12.01** | **10.23** | **18.34** | **13.71** | **12.75** | **13.43** | **15.4** | **10.2** | **31.60** | **11** | ND | **12** | **13.1** | **12.9** | **14.9** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB12 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 2.66 | 4.97 | 2.74 | 12.73 | 8.14 | 12.72 | 10.97 | 22.7 | 10.6 | 39.20 | 23 | ND | 21 | 18.3 | 22.6 | 15.1 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.54 | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | 1.59 | ND | 1.08 | ND | ND | 0.63 | 1.17 | ND | ND | ND | ND | 1.07 | ND |
| | 1,2-Dichloropropane | 2.02 | 4.85 | 1.13 | **7.25** | 3.75 | **5.61** | 3.62 | **5.55** | 2.93 | **6.29** | 3.3 | ND | **5.8** | **9.71** | **6.48** | **8.07** |
| | 1,4-Dichlorobenzene | ND | 11 | 1.5 | 3.77 | ND | 2.82 | ND | 4.18 | 2.83 | 4.51 | ND | ND | 5.4 | 6.4 | 6.13 | 4.3 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.59 | 0.70 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | 2.15 | ND | 3.54 | 1.89 | 2.66 | 1.82 | 2.63 | 1.89 | 3.46 | 2.2 | ND | 3.5 | ND | 3.61 | 3.27 |
| | Bromochloromethane | ND | 1.29 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | 1.21 | 0.92 | 1.46 | ND | ND | 2.1 | ND | 2.27 | 1.23 |
| | Chloroethane | 2.69 | 1.03 | ND | ND | ND | 2.5 | 2.61 | 1.39 | 0.87 | 1.64 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 2.1 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | 7.57 | 18.1 | 22.6 | 25.91 | 25.54 | 26.92 | 26.86 | 21.4 | 12.4 | 26.20 | 14 | ND | 23 | 32.1 | 22.5 | 30.6 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | **12.3** | 1.72 | **6.16** | **9.35** | **6.24** | 4.91 | **8.27** | **11.3** | **8.19** | **10** | ND | ND | **5.01** | **7.93** | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.85 | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | **5.03** | **21.98** | ND | **23.67** | **16.57** | **21.49** | **7.95** | **15.4** | **20** | **17.10** | **12** | 1.8 | **22** | **26.5** | **22.3** | **14.4** |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | 1.38 | ND | 2.68 | 1.42 | 1.52 | 1.23 | 1.91 | 1.62 | 2.44 | 1.8 | ND | 2.5 | ND | 2.55 | 2.09 |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | **13.99** | **17.23** | ND | **24.95** | **12.65** | **18.35** | **6.22** | **18.1** | **11.6** | **20.30** | **9.4** | ND | **17** | **24.9** | **16.7** | **16** |
| | Trichlorofluoromethane | ND | 2.26 | ND | 3.46 | 1.91 | 1.78 | ND | 2.42 | 1.8 | 3.80 | 4.5 | ND | 2.2 | ND | 2.17 | 1.74 |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | 0.01 | ND | 6.6 | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **6.32** | 1.54 | **2.9** | **6.72** | **3.97** | **6.99** | **6.3** | **7.32** | **6.22** | ND | ND | **6.4** | ND | **6.64** | **2.95** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB15 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | 3.19 | 1.88 | 7.04 | NS | 4.2 | 4.03 | 4.04 | 4.62 | 1.08 | 12.00 | 2.3 | ND | 3.1 | ND | 1.56 | 3.73 |
| | 1,1-Dichloroethene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | NS | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 11 | ND | NS | ND | ND | ND | ND | 0.28 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | 6.45 | ND | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | NS | NT | NT | NT | ND | 0.61 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | NS | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | 3.6 | ND | ND | ND |
| | Chloroethane | ND | ND | ND | NS | ND | ND | ND | ND | 0.05 | 0.98 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | 1.28 | NS | 1.1 | 1.51 | 1.17 | 1.51 | 1.18 | 1.02 | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | NS | Nt | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | NS | ND | ND | ND | ND | 0.48 | 0.54 | ND | ND | 1.1 | ND | ND | ND |
| | Toluene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | NS | ND | ND | ND | ND | 0.39 | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | NS | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | 2.73 | 1.75 | 1.16 | NS | ND | ND | ND | ND | 2.31 | 1.23 | 1.1 | ND | 2.2 | ND | 1.18 | 2.11 |
| | Trichlorofluoromethane | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NS | NT | NT | NT | NT | 0.01 | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | **6.33** | **11.66** | **18.4** | NS | **6.29** | **9.17** | **2.78** | **3.92** | **3.55** | **10.20** | ND | ND | 1.9 | ND | ND | 1.87 |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OB25 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | 1.13 | 0.63 | 1.11 | ND | ND | ND | ND | ND | 2.16 |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | **143** | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | 0.23 | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | 1.38 | ND | ND | ND | 3.16 | 0.71 | 3.80 | ND | ND | 3.7 | 3.3 | ND | 6.84 |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | 0.45 | 0.87 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.82 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.11 | ND | ND | ND | ND | ND | 1.43 |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | 1.58 | ND | 1.07 | ND | 1.93 | 0.47 | 4.50 | ND | ND | ND | ND | ND | 7.75 |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.17 | 0.69 | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | 2.56 | 6.07 | 4.38 | 6.23 | 4.12 | 7.5 | 4.52 | 6.82 | ND | ND | 4.9 | 9.55 | ND | 19.5 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | 1.44 | ND | ND | ND | ND | ND | 0.86 | ND | ND | 3.8 | ND | 1.4 | 3.92 |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | 1.04 | 2.43 | 1.21 | ND | ND | 1.66 | 0.81 | 2.24 | ND | ND | 2.1 | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | **2.15** | ND | **5.29** | ND | **4.29** | ND | **2.61** | 0.38 | **4.04** | ND | ND | ND | ND | ND | **3.47** |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST015 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | 2.82 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | 1.8 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | 3.65 | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | 3.69 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | **5.52** | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | **2.56** | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 10 | ND | ND | ND | NS | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 10 | ND | ND | ND | NS | ND | ND | 0.27 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | NT | ND | ND | ND | NT | NS | NT | ND | ND | 0.56 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NS | NT | ND | 0.27 | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | 1.11 | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | NS | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | 1.09 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | 0.78 | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | 1.04 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | 2.33 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | 1.15 | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | 1.45 | ND | NS | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | 3.64 | ND | NS | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | 5.94 | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | 1.06 | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NS | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | 1.4 | ND | 1.1 | NS | 2.2 | ND | 1.38 | ND | ND | ND | ND | ND | 1.5 | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NS | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | NS | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST120 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | 0.22 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | 0.21 | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | 1.8 | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.87 | 4.9 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | 2.52 | ND | 2.99 | 1.22 | ND | 1.15 | 1.54 | 0.57 | 1.26 | ND | ND | ND | ND | 1.3 | 2.26 |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | 1.65 | ND | 1.56 | ND | ND | ND | ND | ND | 1.10 | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | 1.33 | ND | 1.4 | ND | ND | ND | ND | 0.27 | 0.90 | ND | ND | ND | ND | ND | 1.01 |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | NT | NT | ND |

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST65 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | 1.13 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | **1.04** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | 1.34 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 11 | ND | ND | ND | ND | ND | ND | 0.17 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | 1.17 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.23 | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.81 | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | 9.43 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.6 | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | **7.13** | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | 1.29 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 3.6 | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST70 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 10 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 10 | ND | ND | ND | ND | ND | ND | 0.19 | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | 0.28 | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | ND | 1.04 | ND | 1.17 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | 3.82 | ND | 7.27 | 1.19 | 4.27 | 1.04 | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 2.2 | NT | NT | ND |

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ST80 | 1,1,1,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | ND | 10 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | ND | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | ND | ND | ND | ND | NT | NT | NT | ND | 0.69 | 1.49 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | ND | ND | ND | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 1.6 | NT | NT | ND |

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# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1B | 1,1,1,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

NEW MONITORING WELL
Sampling Started in Fall 2010

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| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW2A | 1,1,1,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | NT | ND | ND | ND | ND | 40.8 | ND |
| | Acrylonitrile | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | NT | 4 | 2.5 | 2.2 | 3.3 | ND | 2.45 |
| | Toluene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW2B | 1,1,1,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | NT | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | NT | 1.9 | 3 | 3.2 | 3.27 | ND | 2.57 |
| | Toluene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | NT | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW3A | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | 1.46 | 1.5 | 1.6 | 1.8 | ND | 1.15 | 1.64 |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW3B | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | 1.11 | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW04 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | 9.3 | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | 9.4 | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | 1.1 | 2.1 | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | 5.6 | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | 2.9 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | 13 | ND | ND | ND | ND | 1.7 |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | 2 | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | 1.5 | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | 1.7 | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | **5.6** | 1.4 | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | 14 | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | 3.1 | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW06 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | 6.86 | ND | ND | 3.3 | ND | 2.79 | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | 1.84 | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | 2.37 | ND | ND | ND | ND | 1.15 | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | 6.64 | ND | ND | ND | 6.24 | 4.53 | 3.99 |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | 0.74 | ND | ND | 6.3 | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | 5.77 | 7.1 | 6.1 | ND | 6.56 | 5.03 | 4.03 |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | 33.20 | ND | ND | 23 | 18.1 | 15.3 | 15.6 |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | 0.56 | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | 5.16 | ND | ND | 3.3 | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | 2.63 | ND | 2.2 | 1.2 | ND | 1.01 | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | 1.19 | ND | ND | ND | ND | ND | 1.26 |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | 2 | ND | 1.65 | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW07 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | 1.69 | ND |
| | 2-Butanone | | | | | | | | | | 0.73 | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | 4.74 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | 2.00 | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | 0.58 | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | 5.12 | 3.38 | 3.45 |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | 1.7 | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | 0.54 | ND | 3 | 3.2 | 3.56 | **5.26** | 4.39 |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | 0.52 | **11** | 3 | 1.3 | 3.58 | 2.21 | 2.62 |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW08 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | 4.03 | 1.45 | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | 1.41 | 8.6 | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | 1.1 | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | 0.51 | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | 1.98 | 3.7 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | 2.8 | ND | 5.37 | 1.24 | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | NT |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW09 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | 22 | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | 1 | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | **8.72** | 5 | **16** | **14** | **13.6** | **16.4** | **12.9** |
| | Toluene | | | | | | | | | | ND | 3 | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | 0.73 | ND | ND | ND | ND | 1.11 | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | 1.3 | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW10 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | 24 | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | 5.2 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW11A | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW11B | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | 0.97 | ND | ND | 2.1 | ND | 2.74 | 2.42 |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW12 | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,4-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | ND | 4.1 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichlorofluoromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW13A | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | 17.90 | 25 | ND | 16 | 15.6 | 19 | 19.9 |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichloroethane | | | | | | | | | | 1.86 | ND | ND | ND | ND | 2.35 | 1.74 |
| | 1,2-Dichloropropane | | | | | | | | | | 4.80 | **6.6** | 4.4 | **5.4** | **5.64** | **6.94** | 3.08 |
| | 1,4-Dichlorobenzene | | | | | | | | | | 3.54 | ND | ND | 5.9 | 5.12 | 5.77 | 6.46 |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | 0.72 | ND | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | 3.31 | 4.4 | 3.7 | 2.9 | ND | 3.24 | 3.57 |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | 1.01 | ND | ND | ND | ND | 1.64 | 1 |
| | Chloroethane | | | | | | | | | | 0.97 | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | 0.96 | 6.4 | 3.7 | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | **76.70** | **96** | ND | **97** | **79.8** | **105** | **120** |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | **8.07** | **10** | **9.2** | 3.2 | **6.02** | **6.49** | 4.04 |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | 0.61 | 3.1 | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | **22.20** | **17** | **25** | **28** | **25.7** | **27.8** | **24.2** |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | 3.26 | 7.3 | 6.2 | 3.5 | ND | 4 | 4.76 |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | **26.90** | **23** | **28** | **32** | **30.2** | **33.9** | **37.1** |
| | Trichlorofluoromethane | | | | | | | | | | 1.50 | 3.8 | 4.6 | ND | ND | ND | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | **11.10** | **14** | **18** | **8.6** | **8.58** | **10.1** | **9.83** |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

# TABLE 2: Volatile Organic Compounds - Historical Results

| Location | Parameter | 2006-S | 2006-F | 2007-S | 2007-F | 2008-S | 2008-F | 2009-S | 2009-F | 2010-S | 2010-F | 2011-S | 2011-F | 2012-S | 2012-F | 2013-S | 2013-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW13B | 1,1,1,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2,2-Tetrachloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,2-Trichloroethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,1-Dichloroethane | | | | | | | | | | 17.80 | ND | ND | 15 | 13.9 | 17.2 | 16.6 |
| | 1,1-Dichloroethene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2,3-Trichloropropane | | | | | | | | | | ND | ND | ND | ND | ND | NT | ND |
| | 1,2-Dibromo-3-chloropropan | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dibromoethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 1,2-Dichlorobenzene | | | | | | | | | | 0.54 | ND | ND | ND | ND | ND | 1.09 |
| | 1,2-Dichloroethane | | | | | | | | | | 3.11 | ND | 4.6 | ND | ND | 2.87 | 2.52 |
| | 1,2-Dichloropropane | | | | | | | | | | **6.54** | ND | **7.4** | **7.5** | **7.73** | **8.01** | **7.87** |
| | 1,4-Dichlorobenzene | | | | | | | | | | 8.86 | ND | ND | 11 | 9.67 | 10.2 | 11.5 |
| | 2-Butanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 2-Hexanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | 4-Methyl-2-Pentanone | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Acetone | | | | | | | | | | 0.87 | 35 | ND | ND | ND | ND | ND |
| | Acrylonitrile | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Benzene | | | | | | | | | | **5.56** | ND | **6.3** | 4.6 | ND | 4.56 | 4.17 |
| | Bromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromodichloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromoform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Bromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon disulfide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Carbon Tetrachloride | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chlorobenzene | | | | | | | | | | 1.63 | ND | ND | ND | ND | 2.03 | 2.29 |
| | Chloroethane | | | | | | | | | | 1.14 | ND | ND | ND | ND | ND | ND |
| | Chloroform | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Chloromethane | | | | | | | | | | 0.76 | 4.6 | ND | ND | ND | ND | ND |
| | cis-1,2-Dichloroethene | | | | | | | | | | **101.00** | 3.9 | ND | **110** | **82** | **102** | **109** |
| | cis-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromochloromethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dibromomethane | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Dichloromethane | | | | | | | | | | **8.50** | ND | **11** | 4.2 | **5.95** | **7.2** | **6.55** |
| | Ethylbenzene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Iodide | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Methyl Tertiary Butyl Ether | | | | | | | | | | 0.96 | ND | ND | ND | ND | ND | ND |
| | ortho-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | para-Xylene & meta-Xylene | | | | | | | | | | ND | NT | NT | NT | ND | ND | ND |
| | Styrene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethene | | | | | | | | | | **22.70** | ND | **27** | **30** | **26.5** | **27** | **24.2** |
| | Toluene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,2-Dichloroethene | | | | | | | | | | 4.45 | ND | 7.3 | 4.3 | ND | 4.22 | 4.18 |
| | trans-1,3-Dichloropropene | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | trans-1,4-Dichloro-2-buten | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Trichloroethene | | | | | | | | | | **32.00** | ND | **28** | **32** | **27.6** | **29.5** | **34.5** |
| | Trichlorofluoromethane | | | | | | | | | | 1.71 | ND | 4.7 | 1.3 | ND | 1.27 | ND |
| | Vinyl Acetate | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Vinyl Chloride | | | | | | | | | | **17.20** | ND | **25** | **12** | **9.83** | **11.4** | **9.96** |
| | Xylene (Total) | | | | | | | | | | NT | ND | ND | ND | NT | NT | ND |

NEW MONITORING WELL
Sampling Started in Fall 2010

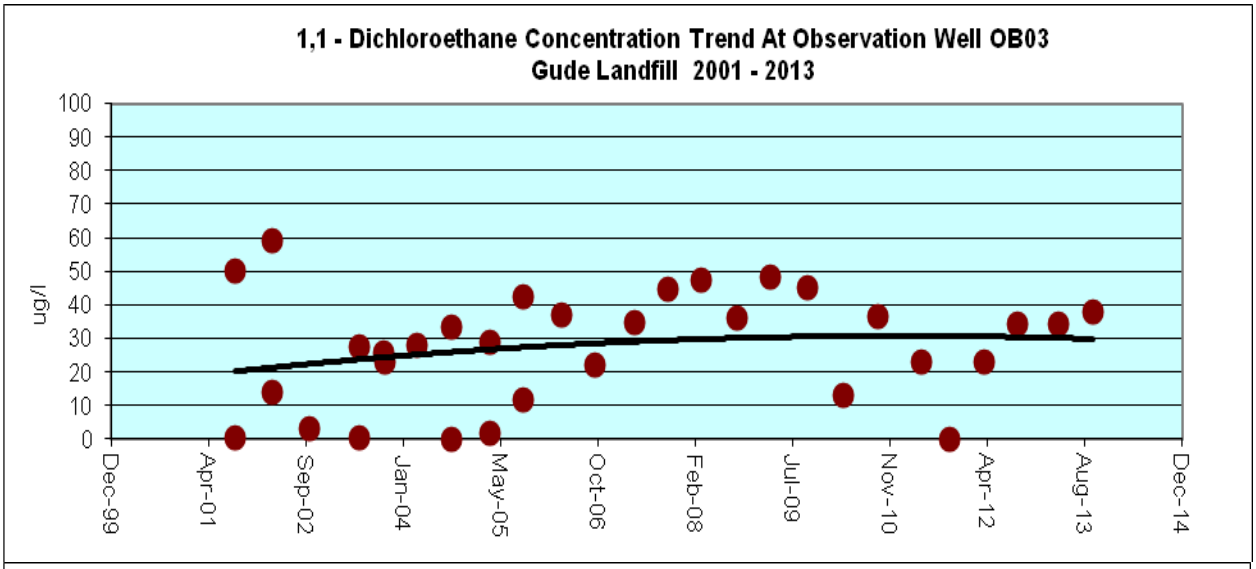
NT: Not Tested, NS: Not Sampled, ND: Not Detected, S: Spring, F: Fall
Note: MCL exceedances are indicated in Red

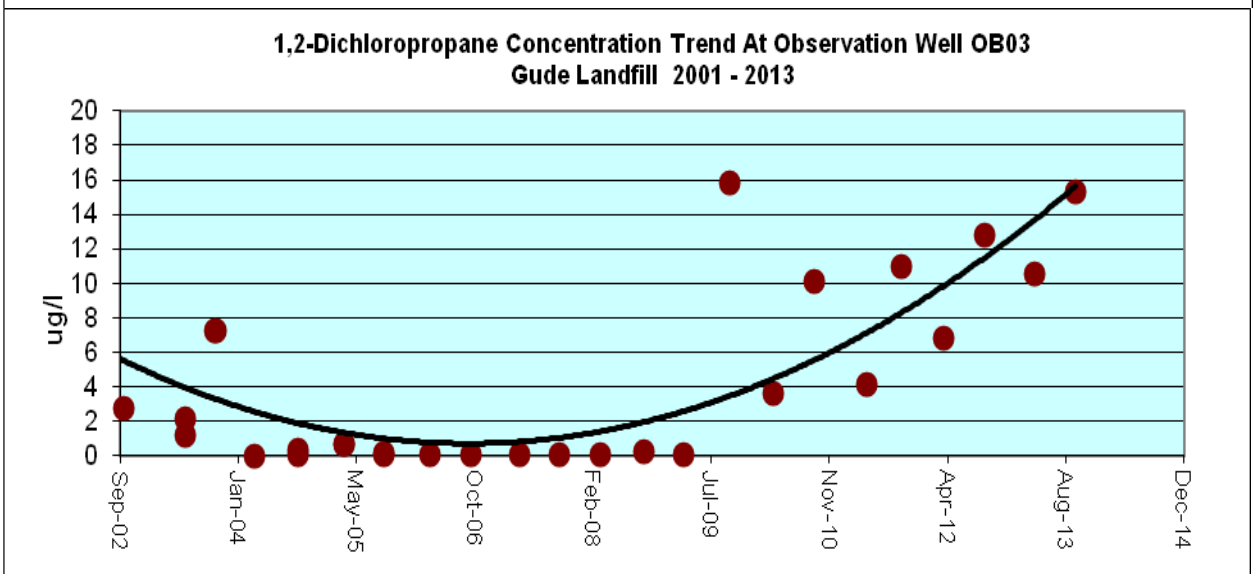
# Appendix C

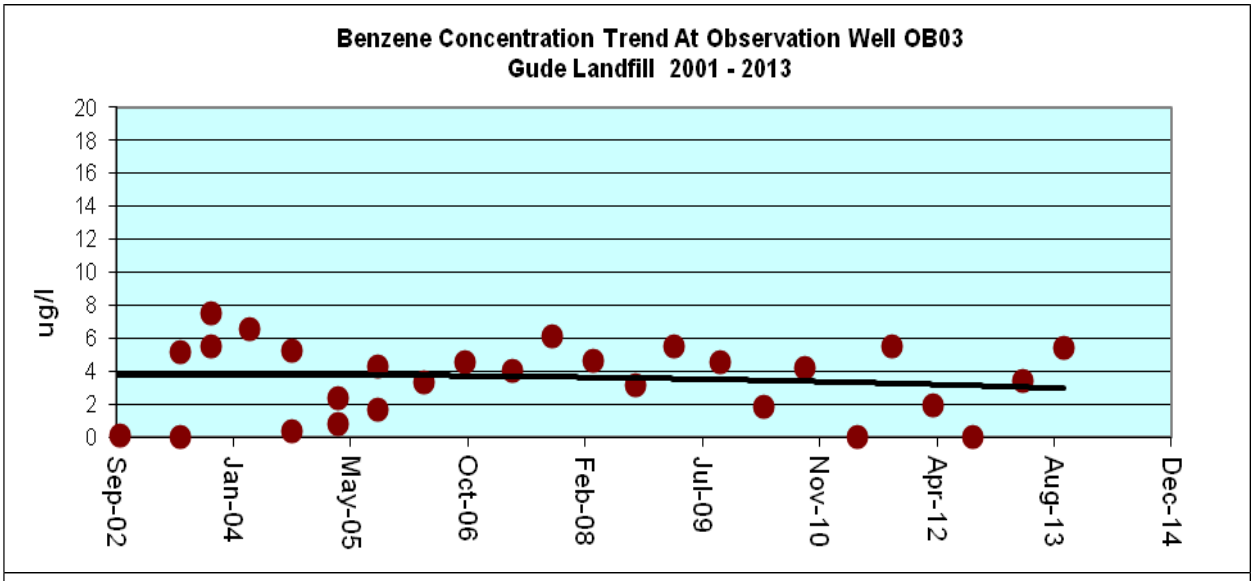
# Volatile Organic Compounds

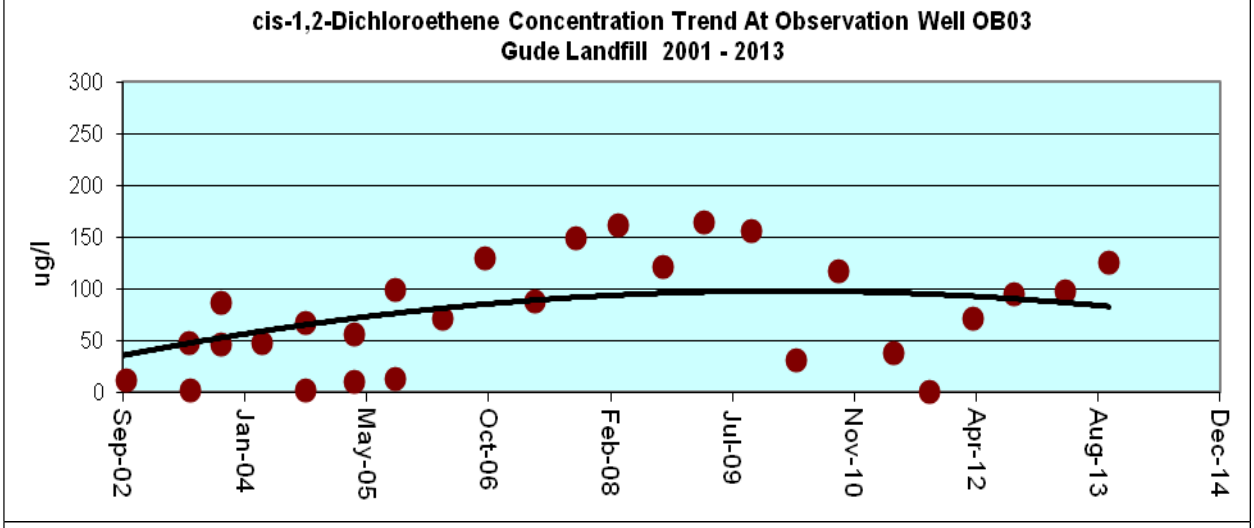
# Trend Analysis

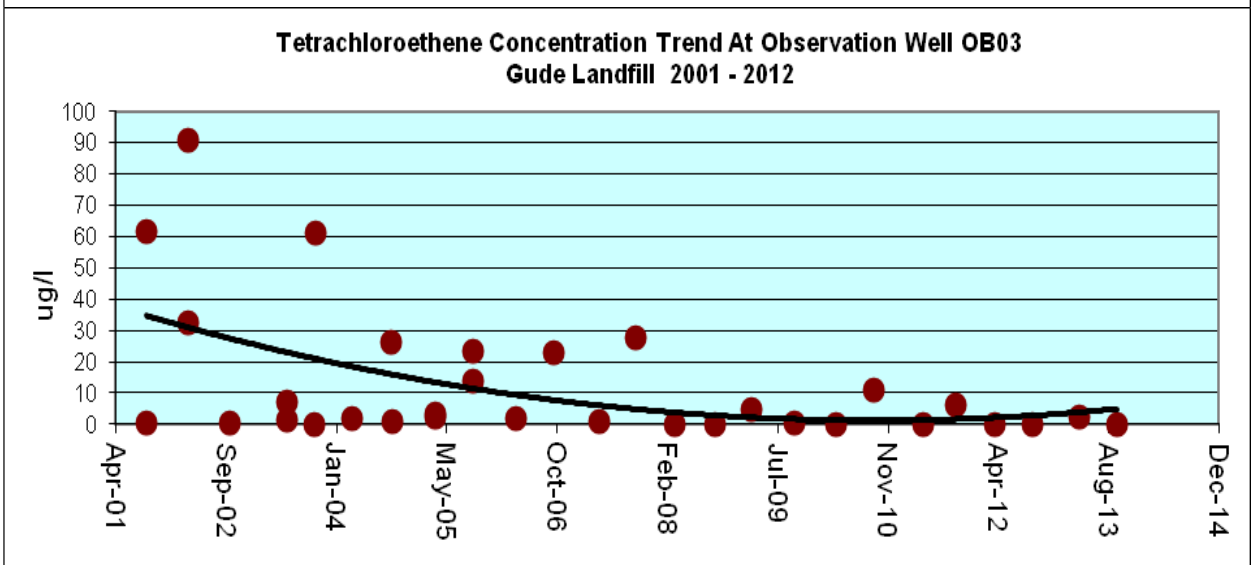
The following graphs provide Historical Trend Analysis for those VOC compounds that are consistently detected at specific monitoring locations. These historical trend analyses do not include the monitoring locations installed in 2010.
*(Please refer to Tables 1 and 2 for additional information.)*



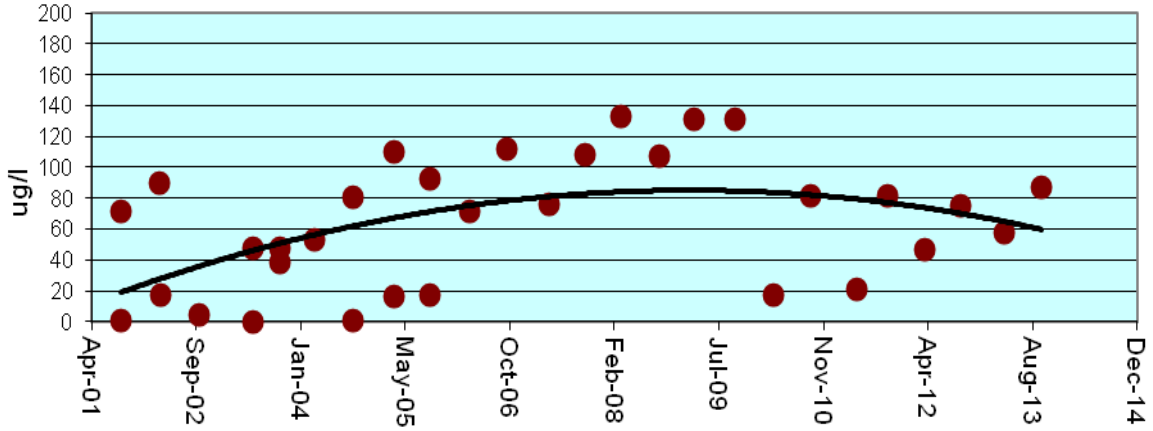




Benzene Concentration Trend At Observation Well OB03
Gude Landfill 2001 - 2013
ug/l
20
18
16
14
12
10
8
6
4
2
0
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

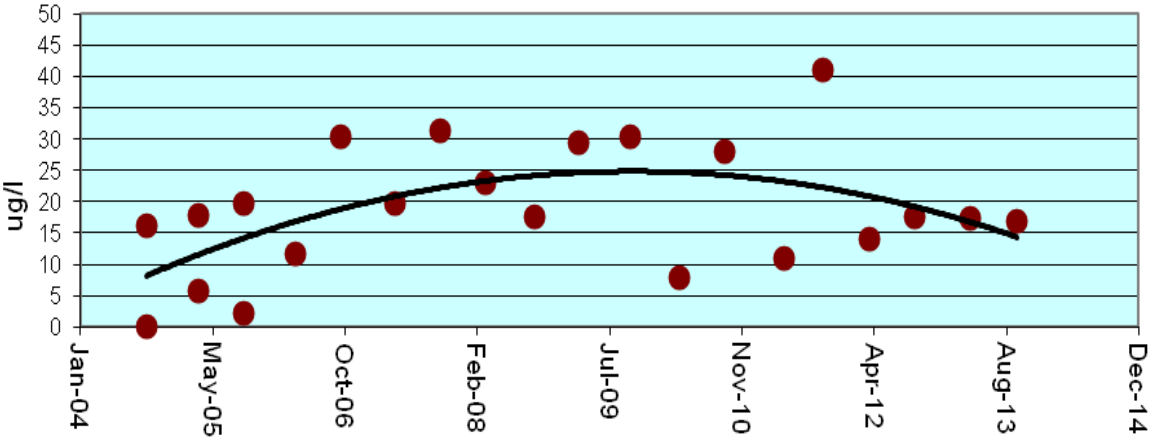

cis-1,2-Dichloroethene Concentration Trend At Observation Well OB03
Gude Landfill 2001 - 2013
ug/l
300
250
200
150
100
50
0
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14


Tetrachloroethene Concentration Trend At Observation Well OB03
Gude Landfill 2001 - 2012
ug/l
100
90
80
70
60
50
40
30
20
10
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

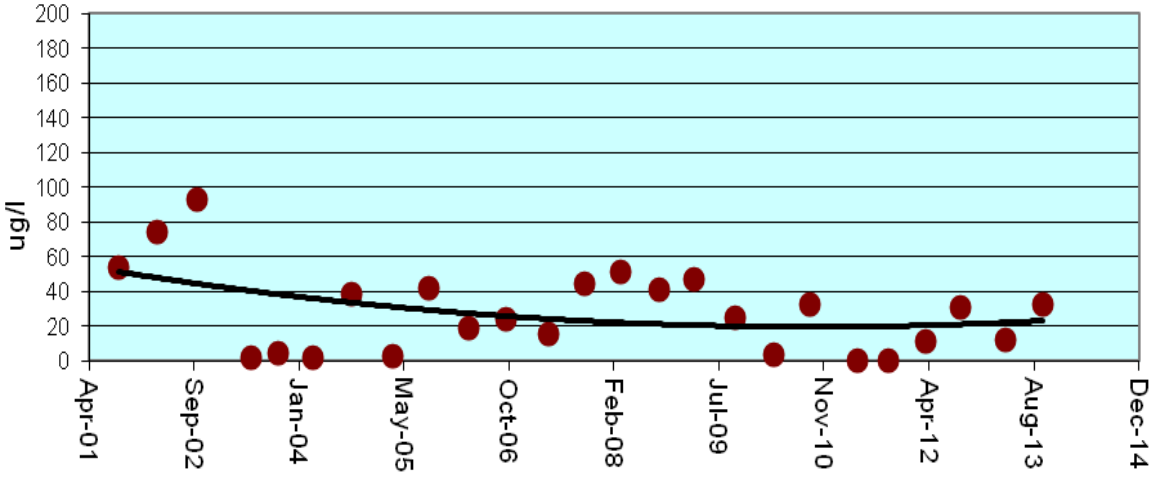
**Trichloroethene Concentration Trend At Observation Well OB03**
**Gude Landfill 2001 - 2013**

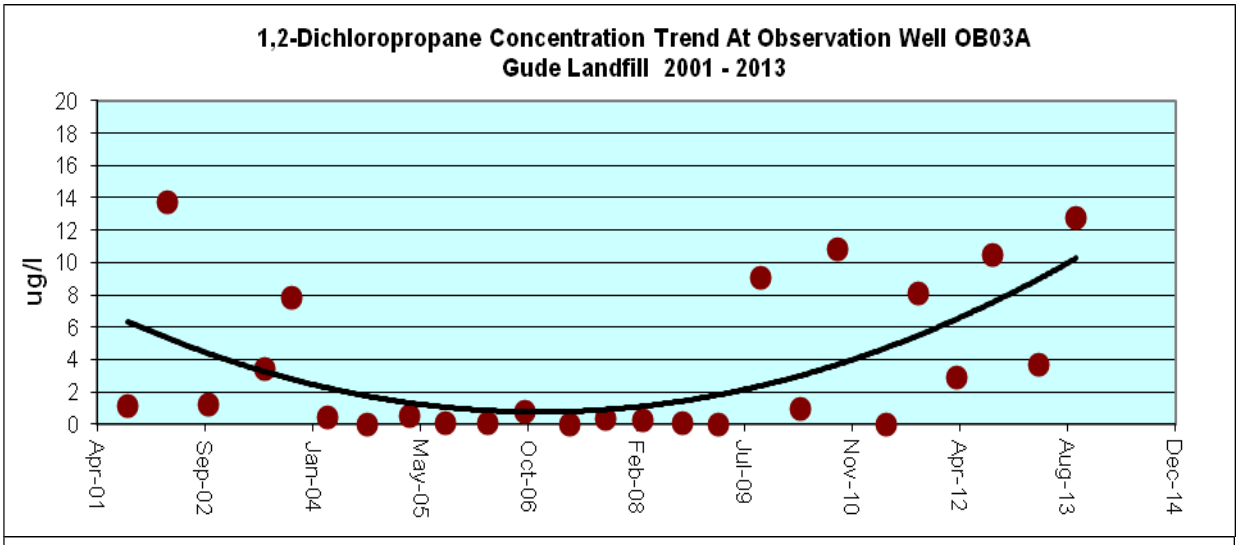


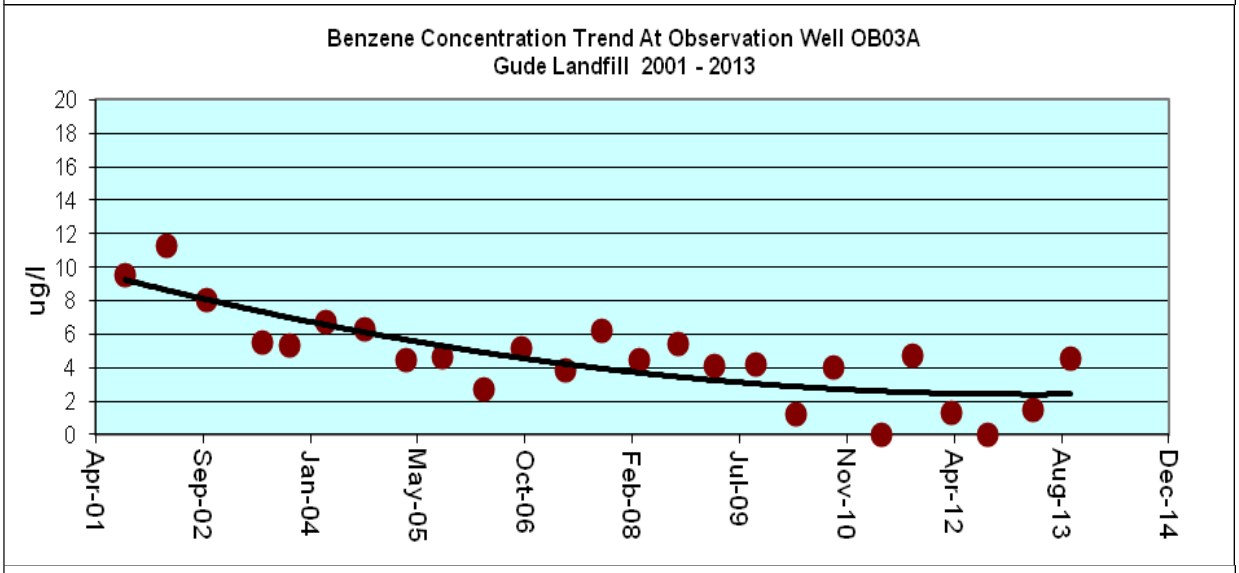

**Vinyl Chloride Concentration Trend At Observation Well OB03**
**Gude Landfill 2004 - 2013**

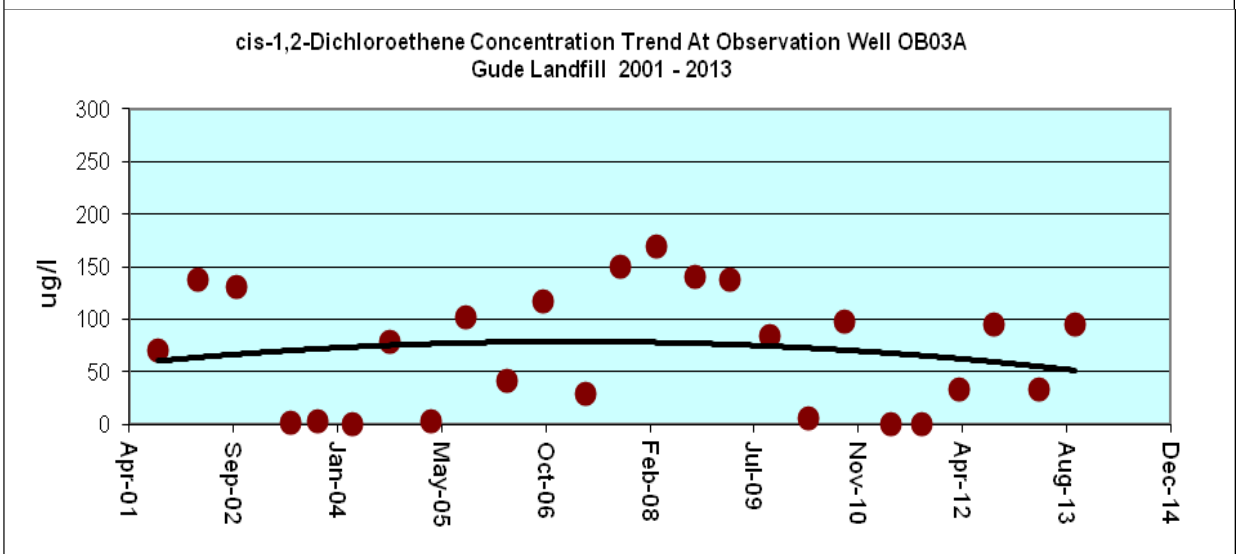


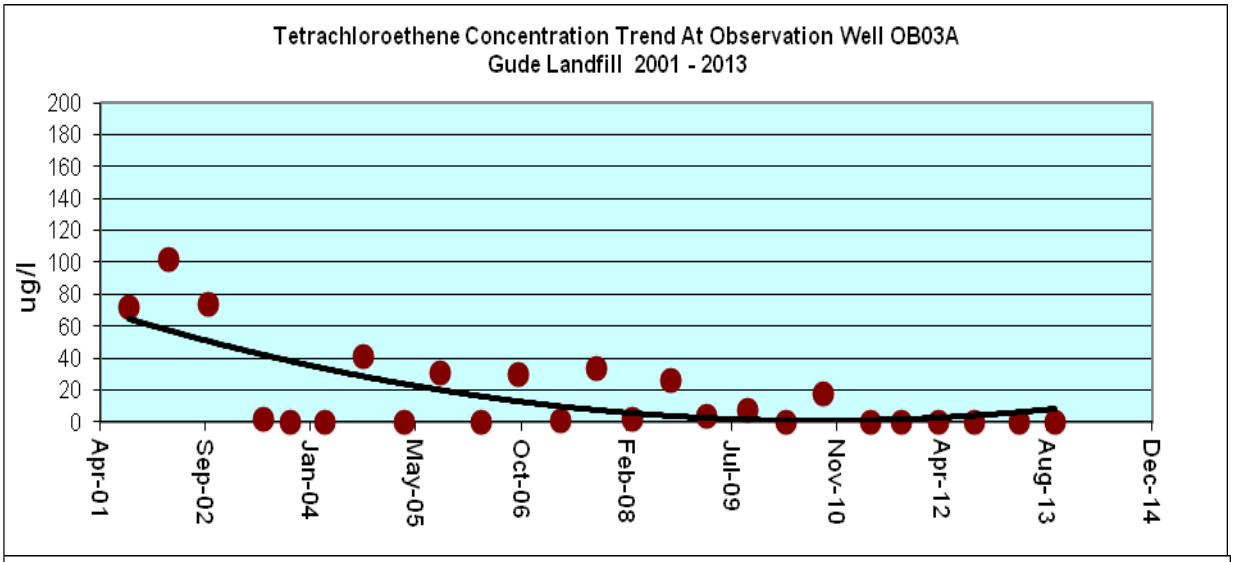

**1,1-Dichloroethene Concentration Trend At Observation Well OB03A**
**Gude Landfill 2001 - 2013**

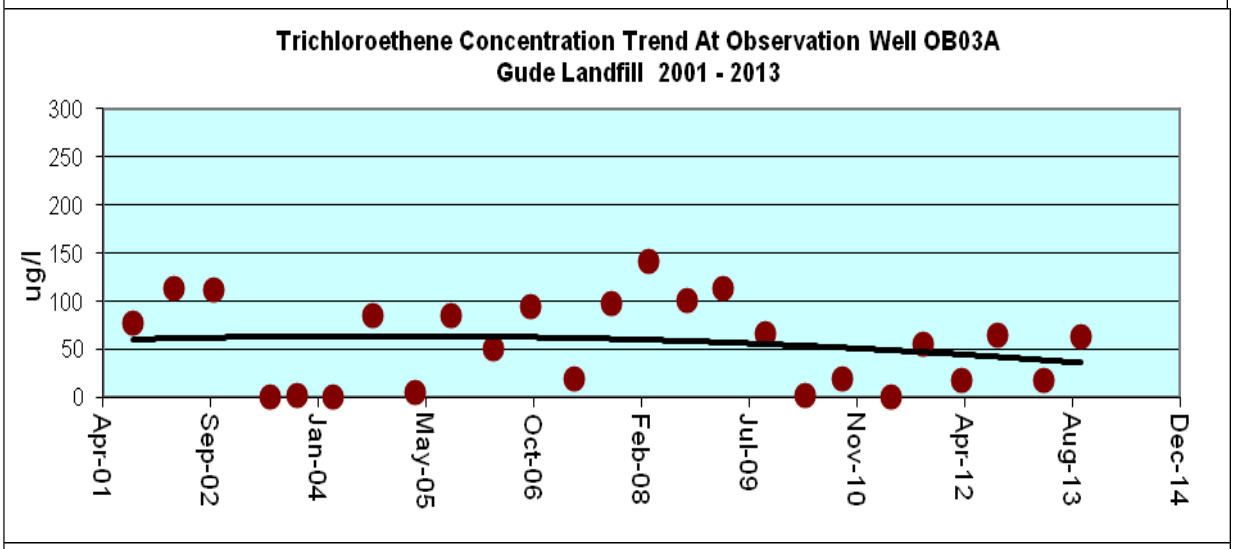


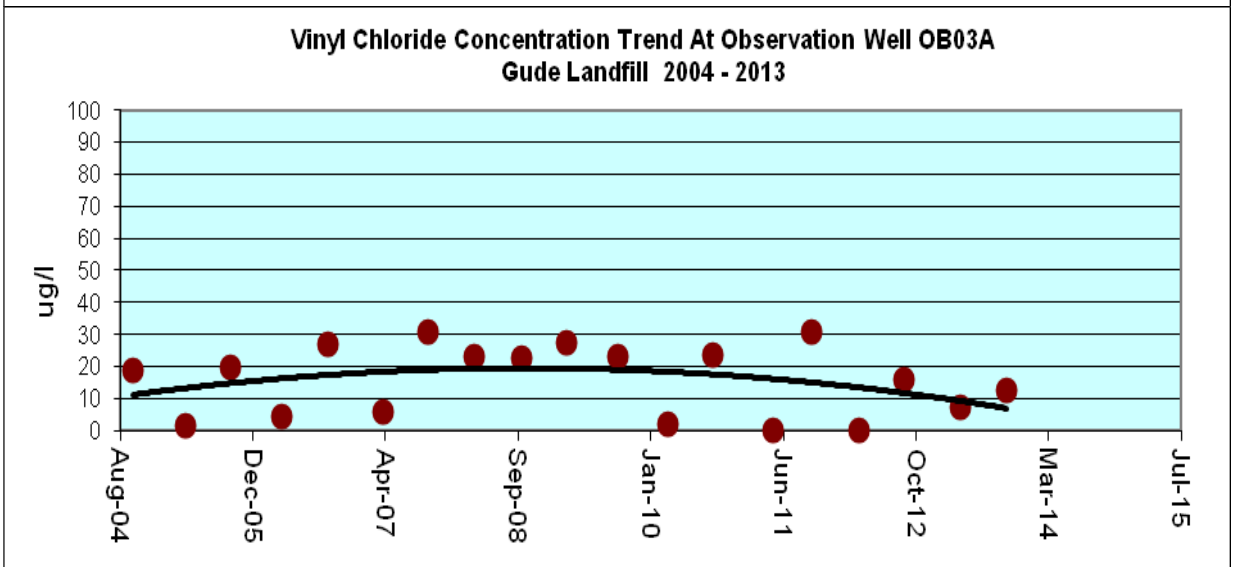

1,2-Dichloropropane Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2013
ug/l
0
2
4
6
8
10
12
14
16
18
20
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

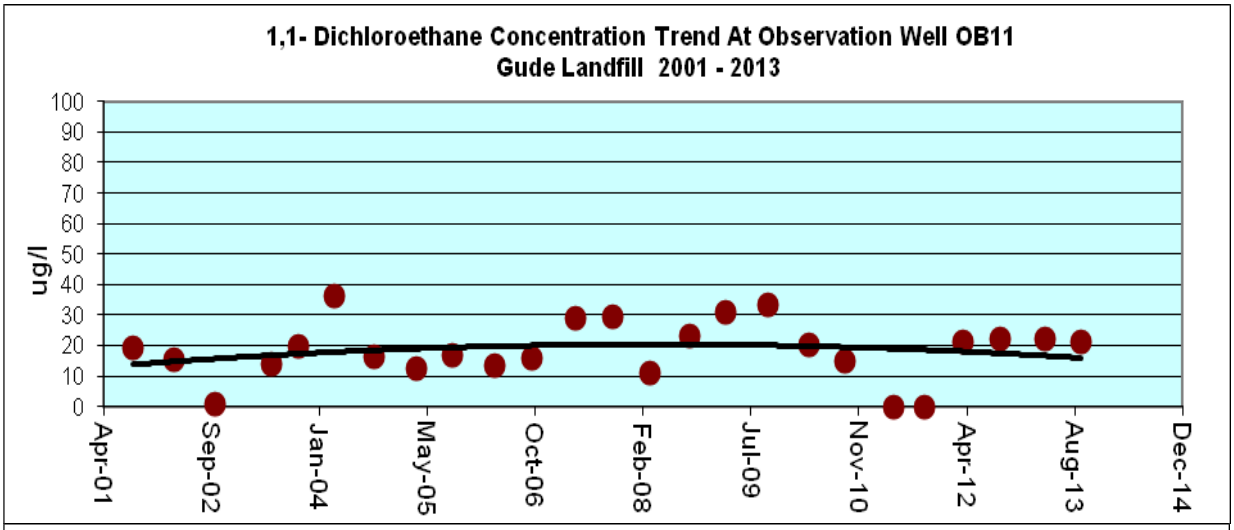

Benzene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2013
ug/l
0
2
4
6
8
10
12
14
16
18
20
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

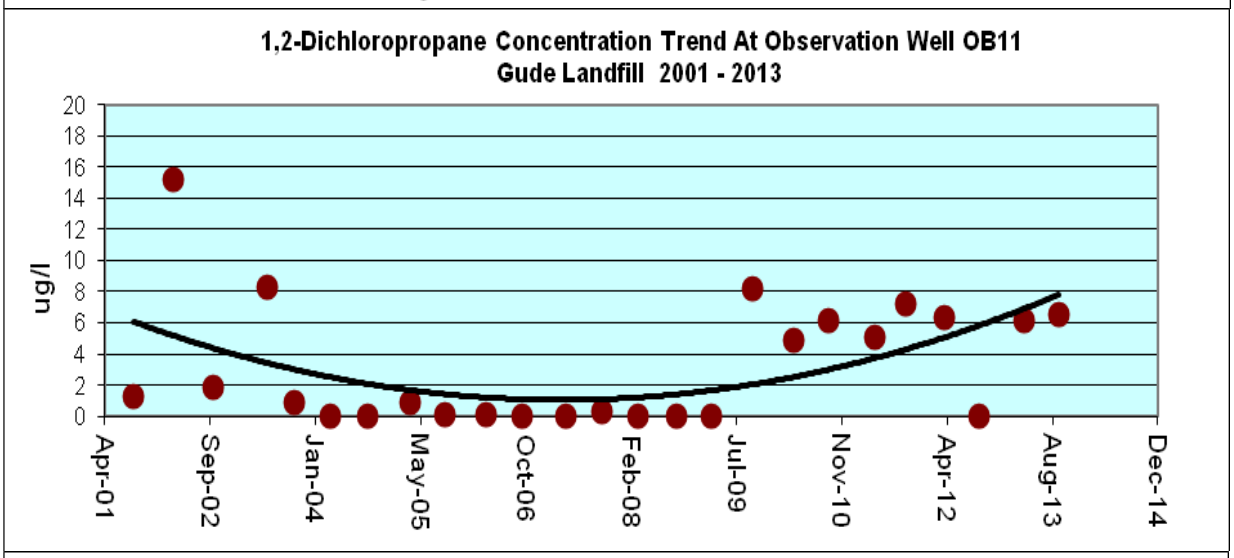

cis-1,2-Dichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2013
ug/l
0
50
100
150
200
250
300
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

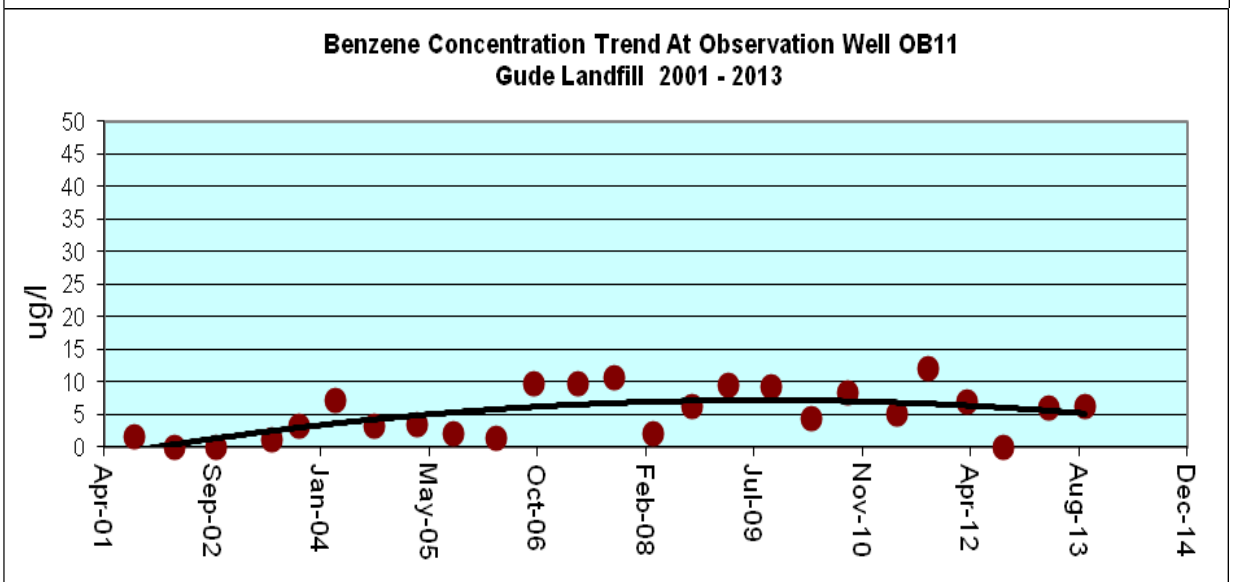

Tetrachloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2013
ug/l
200
180
160
140
120
100
80
60
40
20
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

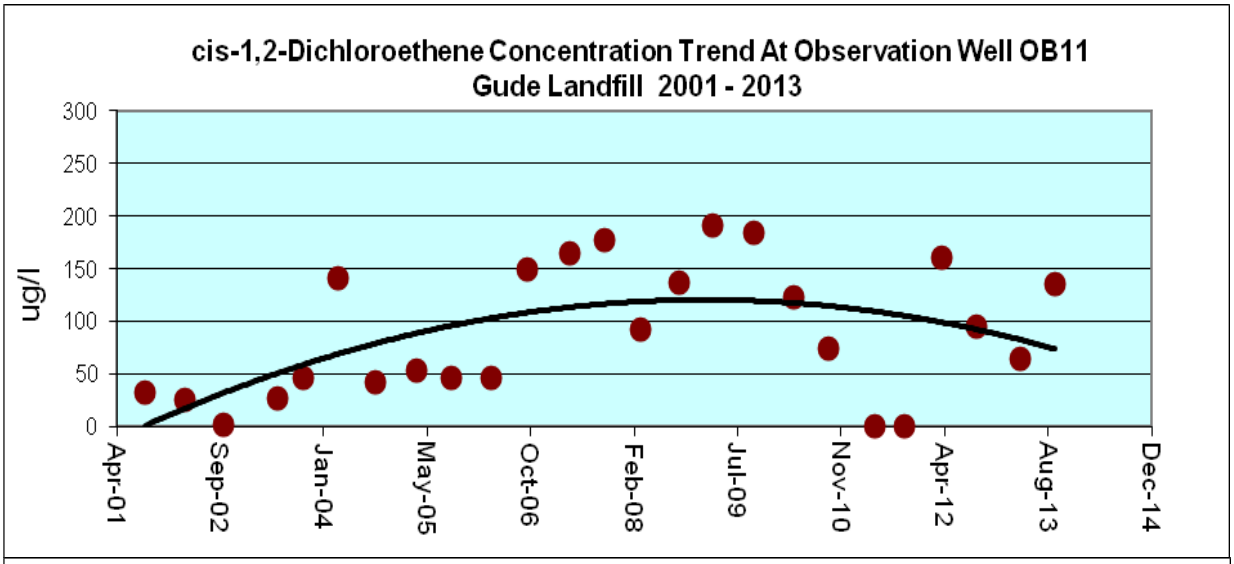

Trichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2013
ug/l
300
250
200
150
100
50
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

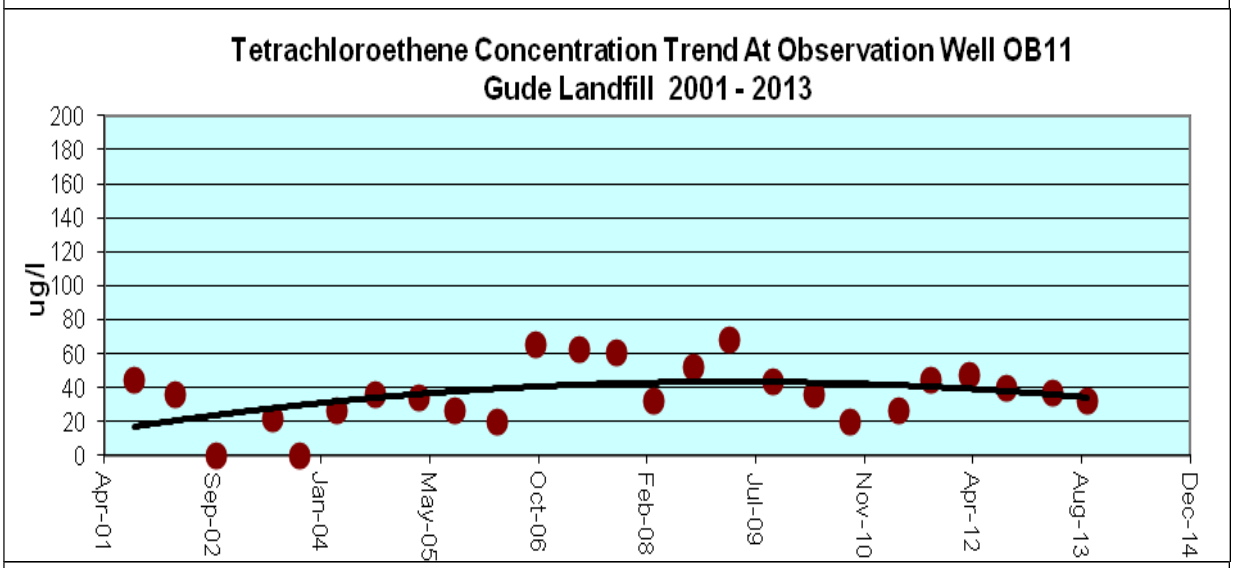

Vinyl Chloride Concentration Trend At Observation Well OB03A
Gude Landfill 2004 - 2013
ug/l
100
90
80
70
60
50
40
30
20
10
0
Aug-04
Dec-05
Apr-07
Sep-08
Jan-10
Jun-11
Oct-12
Mar-14
Jul-15

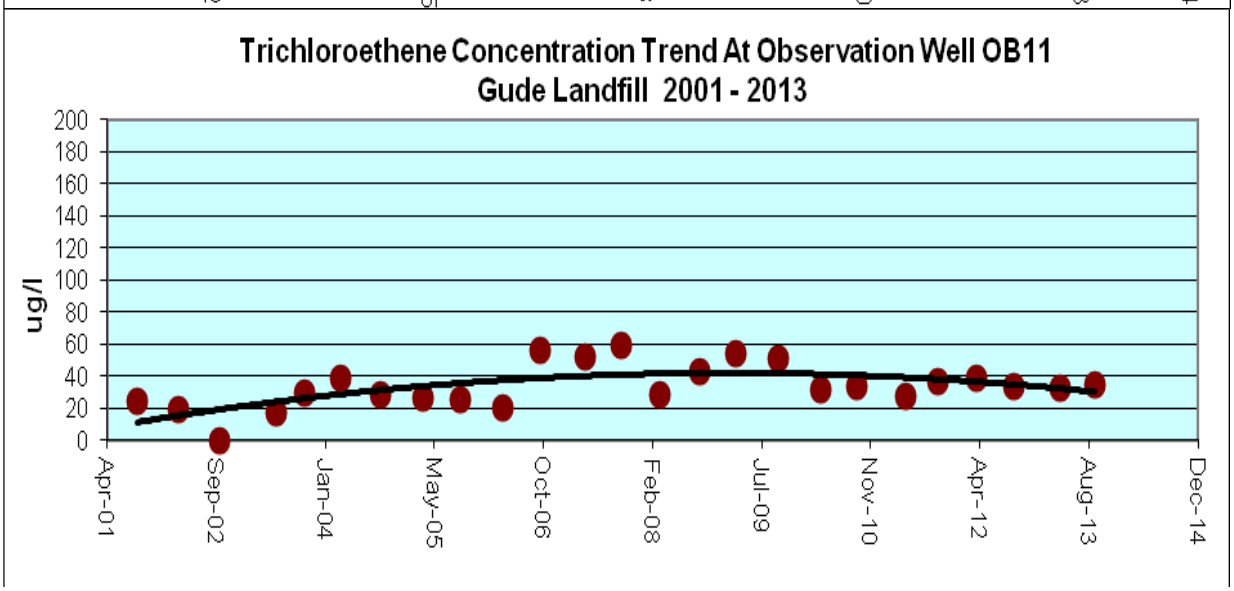

1,1- Dichloroethane Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
100
90
80
70
60
50
40
30
20
10
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

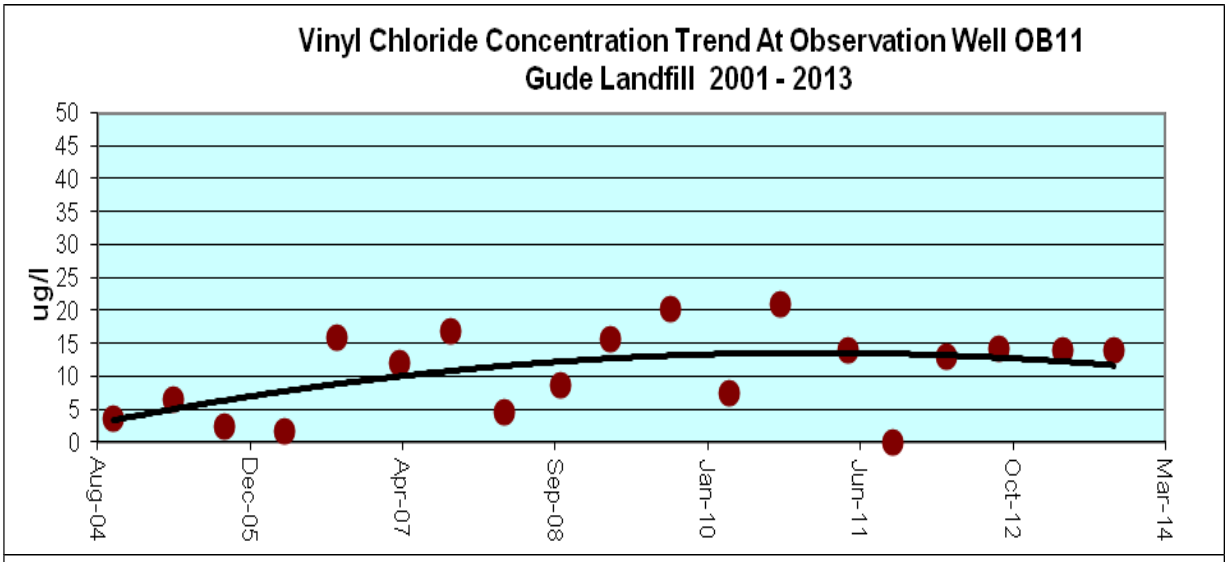

1,2-Dichloropropane Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
20
18
16
14
12
10
8
6
4
2
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

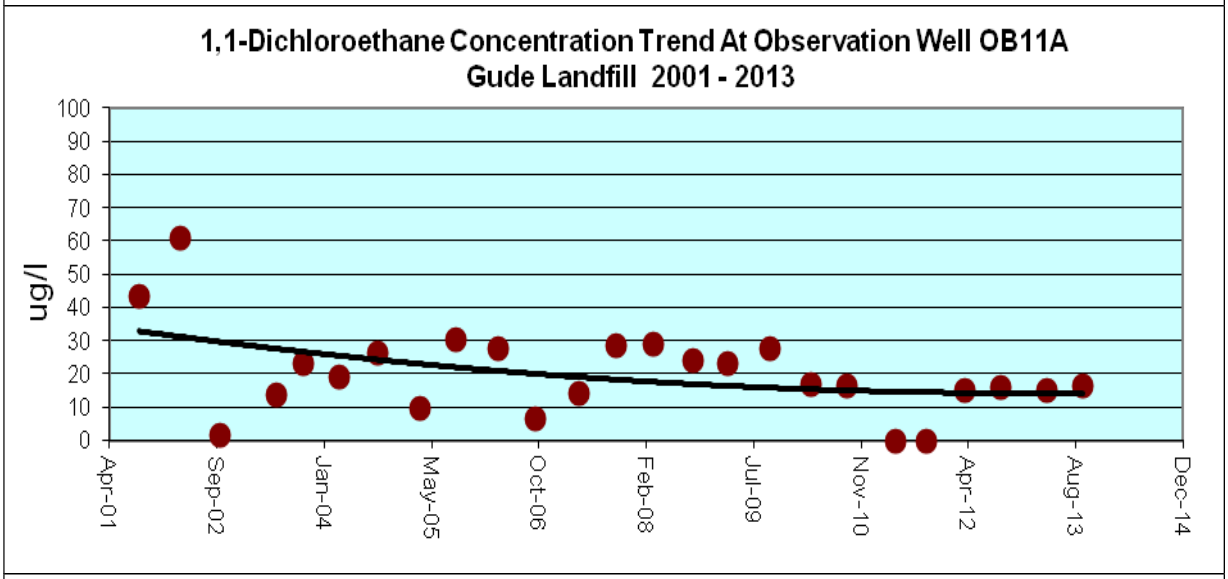

Benzene Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
50
45
40
35
30
25
20
15
10
5
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

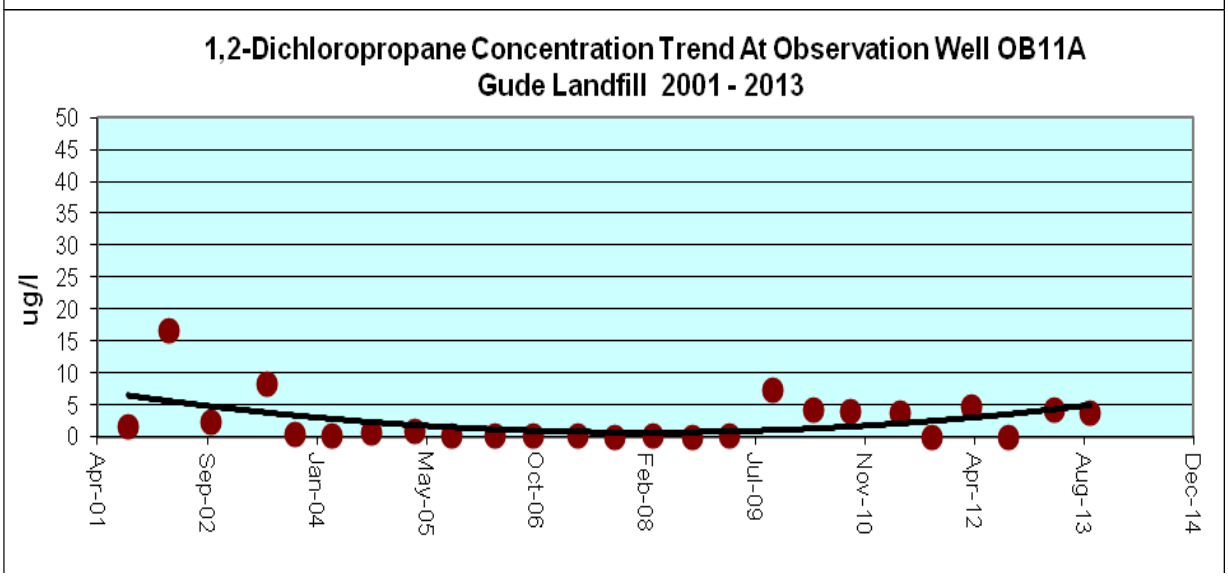

cis-1,2-Dichloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
300
250
200
150
100
50
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

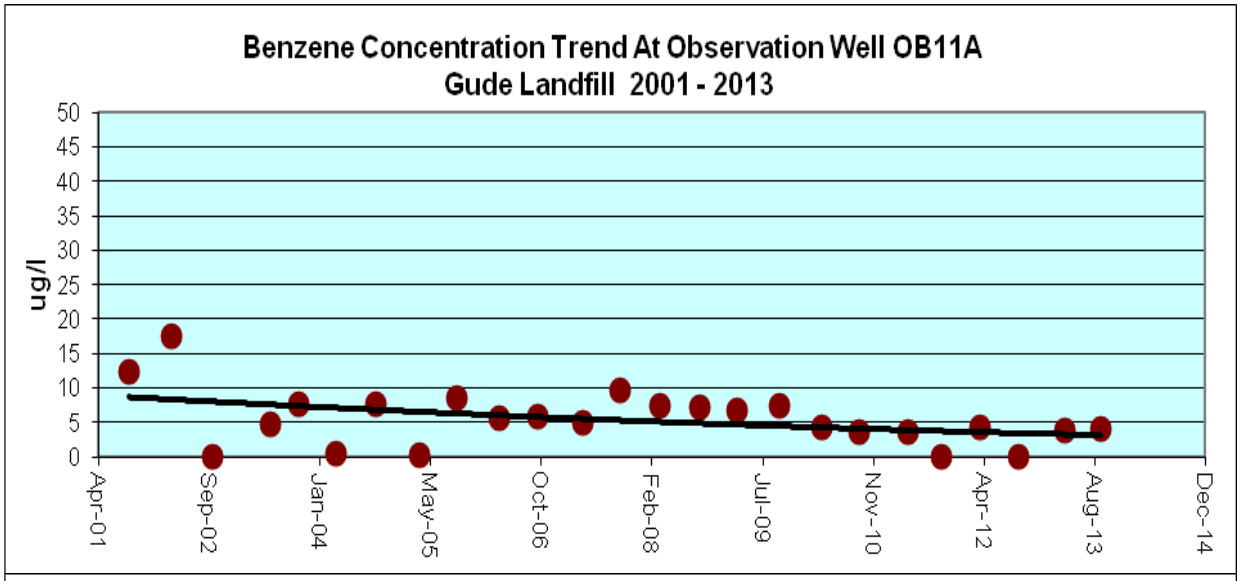

Tetrachloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
200
180
160
140
120
100
80
60
40
20
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

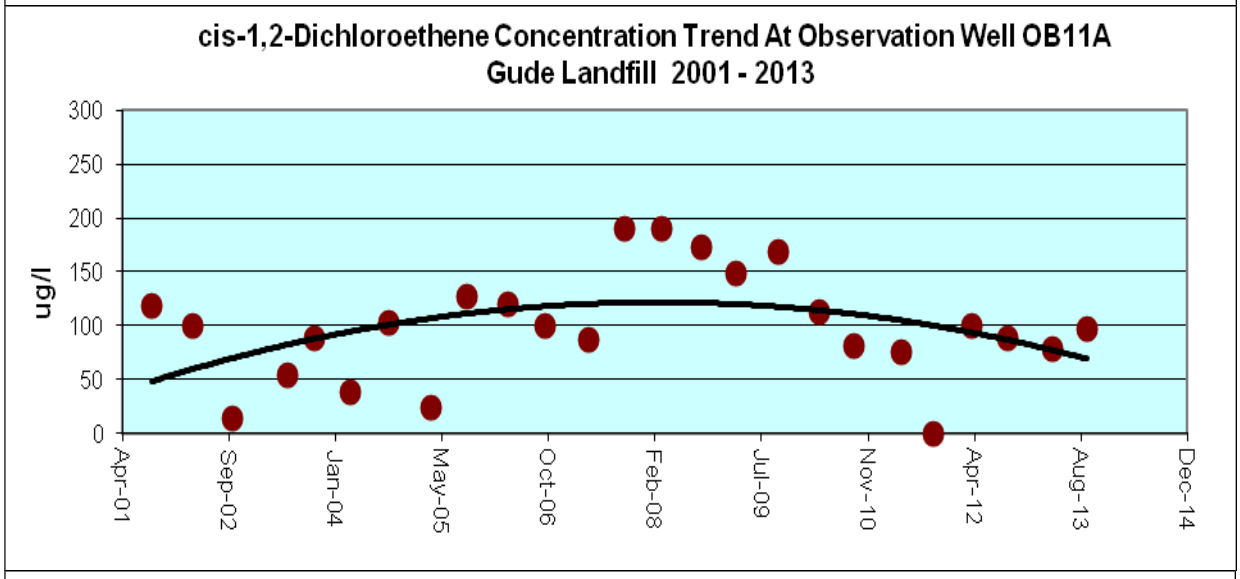

Trichloroethene Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
200
180
160
140
120
100
80
60
40
20
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

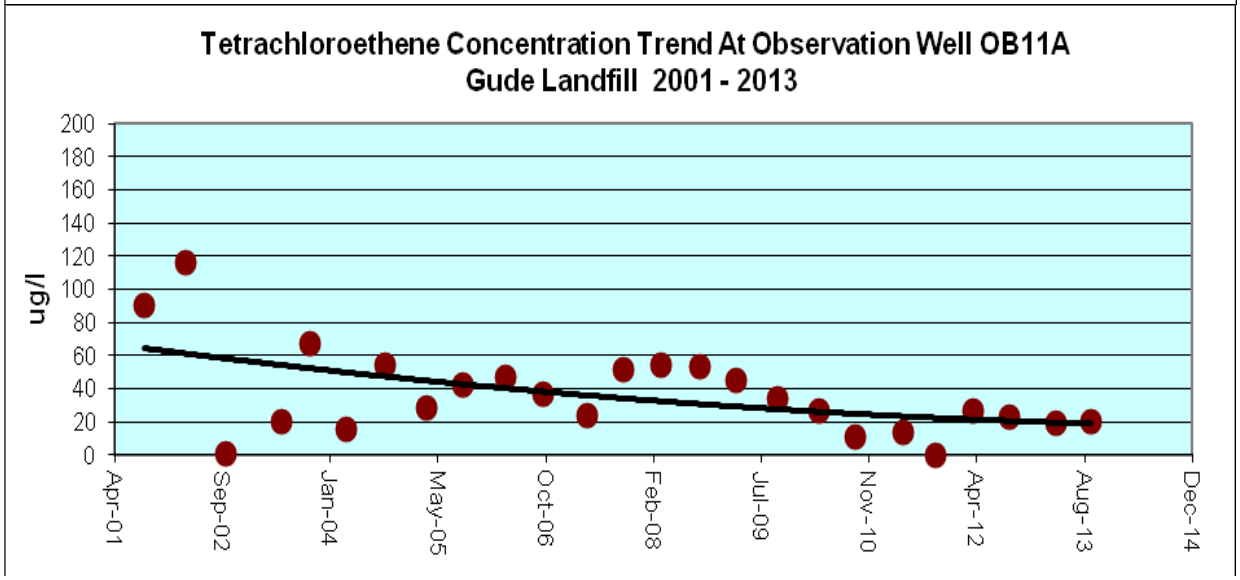

Vinyl Chloride Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2013
ug/l
50
45
40
35
30
25
20
15
10
5
0
Aug-04
Dec-05
Apr-07
Sep-08
Jan-10
Jun-11
Oct-12
Mar-14

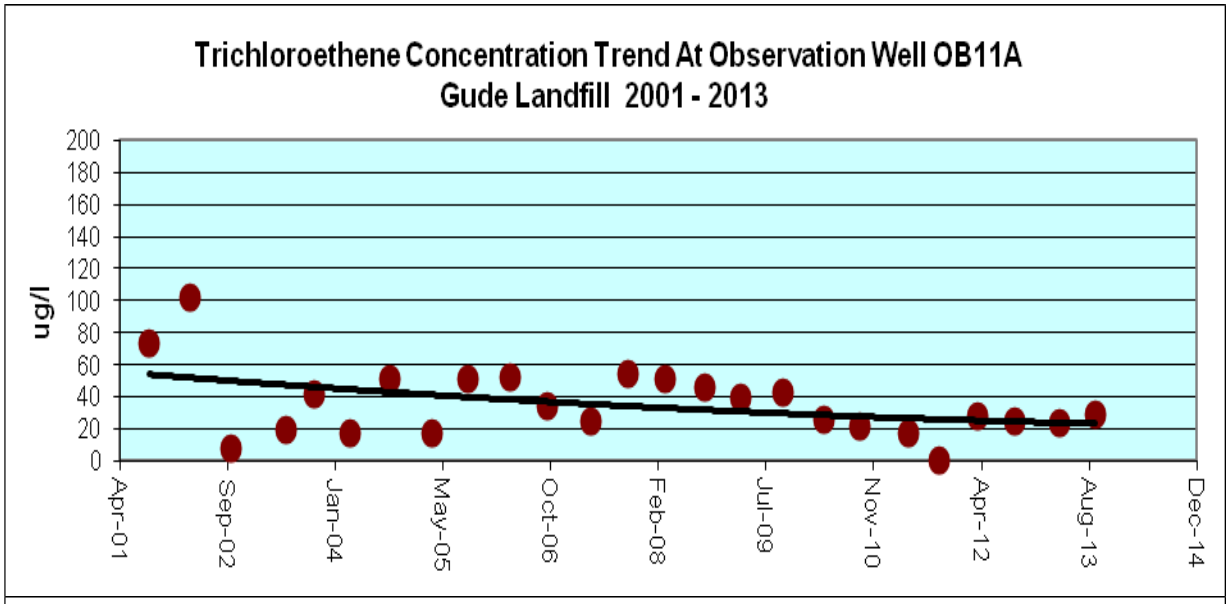

1,1-Dichloroethane Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
100
90
80
70
60
50
40
30
20
10
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

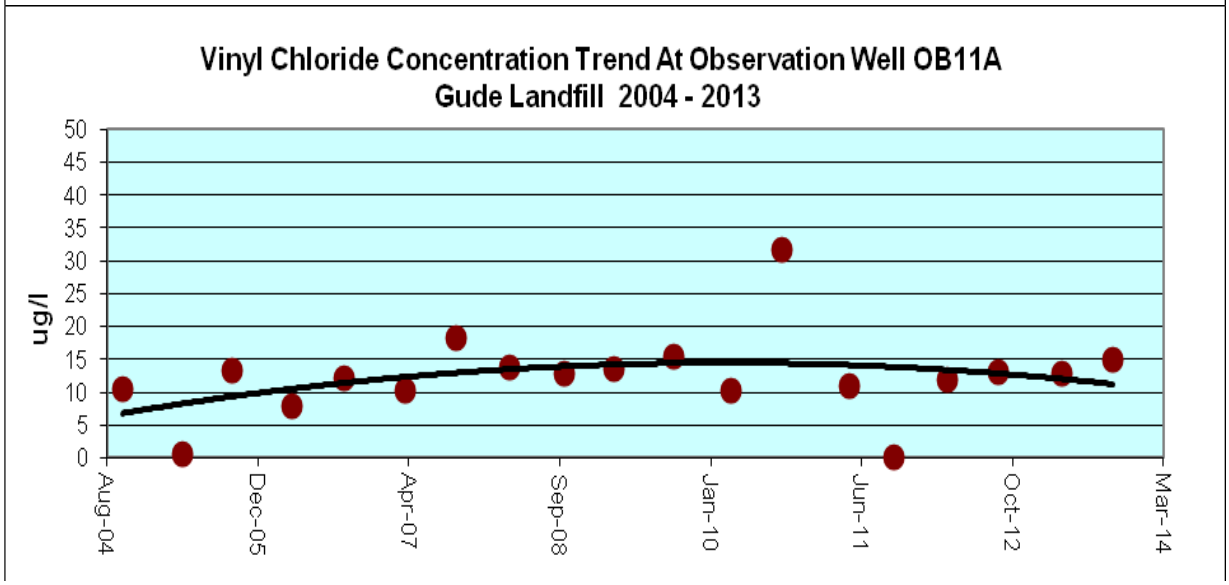

1,2-Dichloropropane Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
50
45
40
35
30
25
20
15
10
5
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14


Benzene Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
50
45
40
35
30
25
20
15
10
5
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

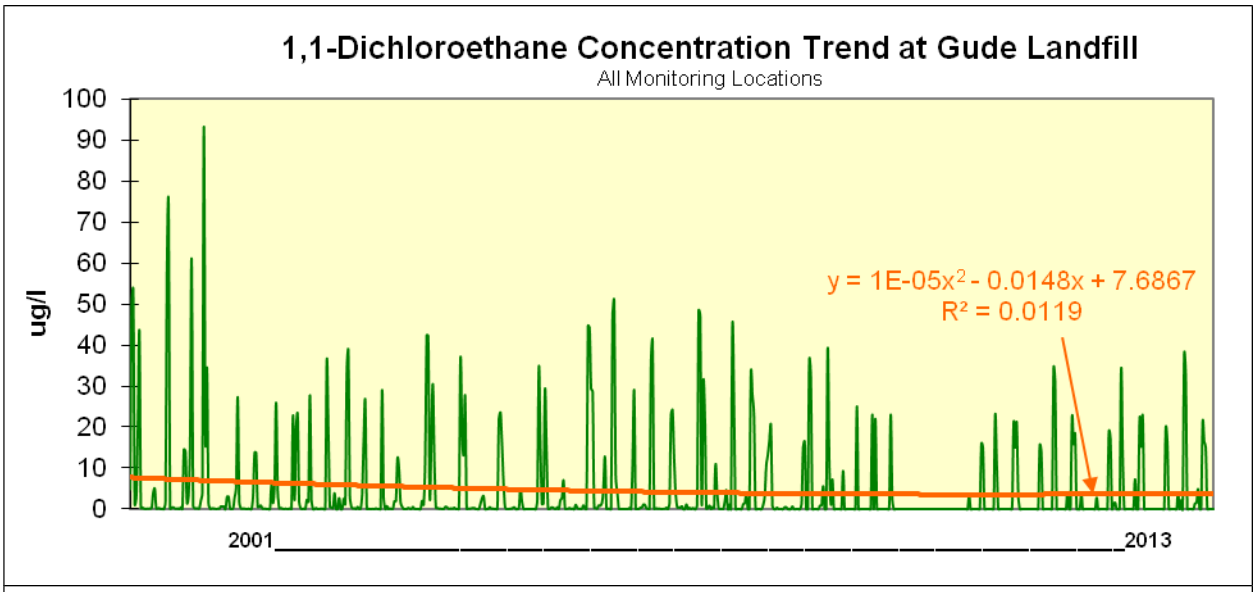

cis-1,2-Dichloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
300
250
200
150
100
50
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

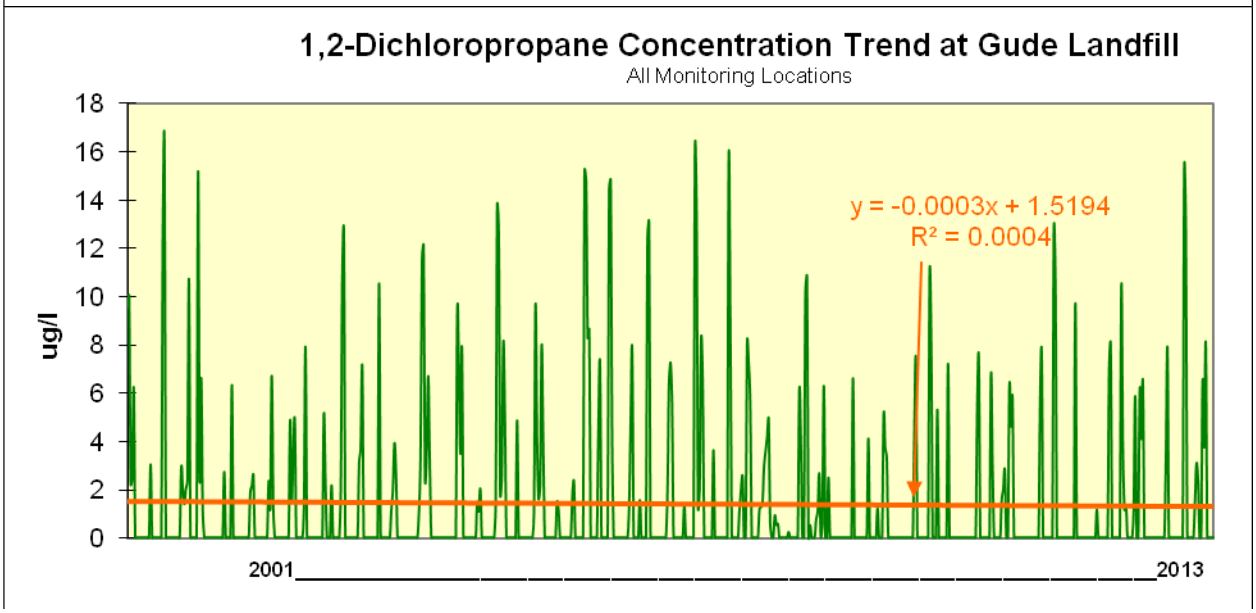

Tetrachloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
200
180
160
140
120
100
80
60
40
20
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

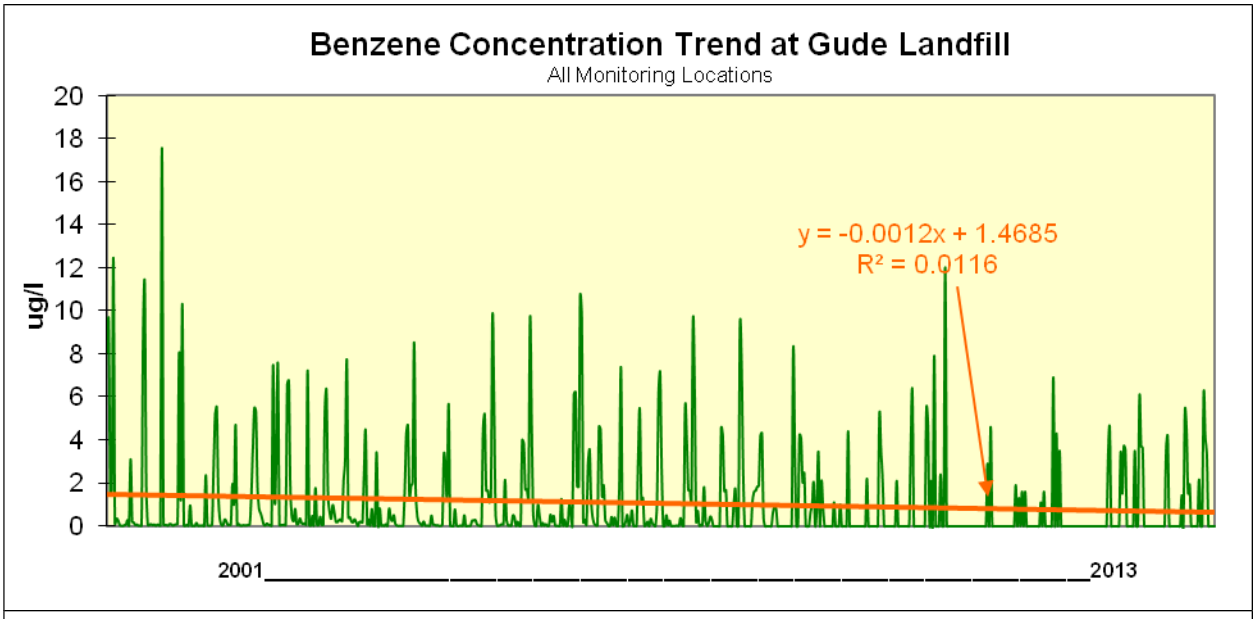

Trichloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2013
ug/l
200
180
160
140
120
100
80
60
40
20
0
Apr-01
Sep-02
Jan-04
May-05
Oct-06
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14

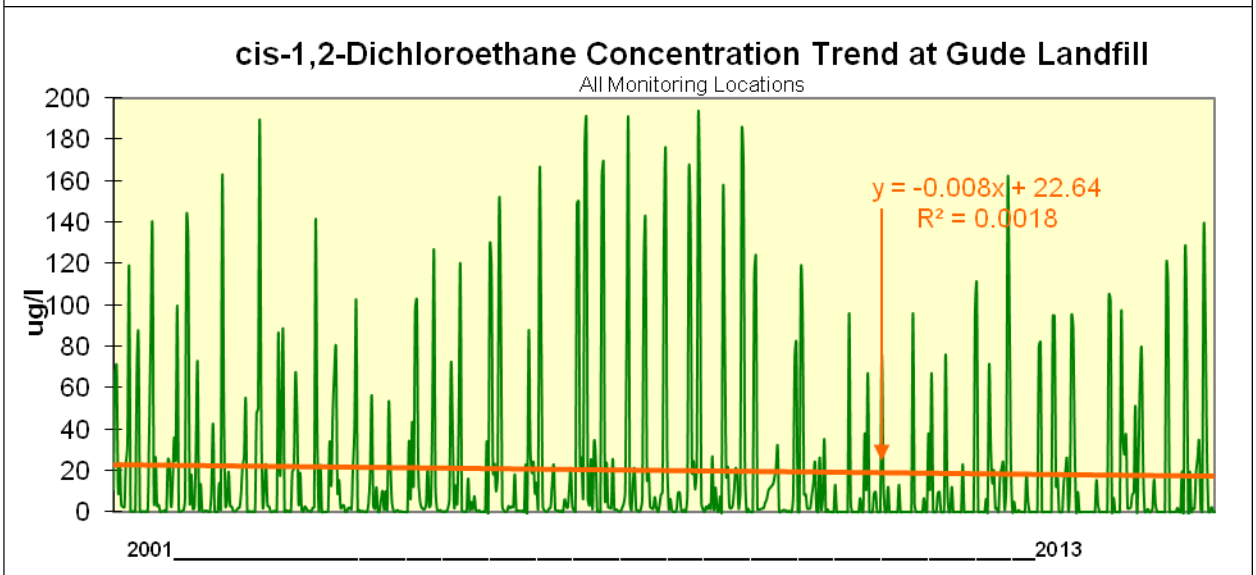

Vinyl Chloride Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2013
ug/l
50
45
40
35
30
25
20
15
10
5
0
Aug-04
Dec-05
Apr-07
Sep-08
Jan-10
Jun-11
Oct-12
Mar-14

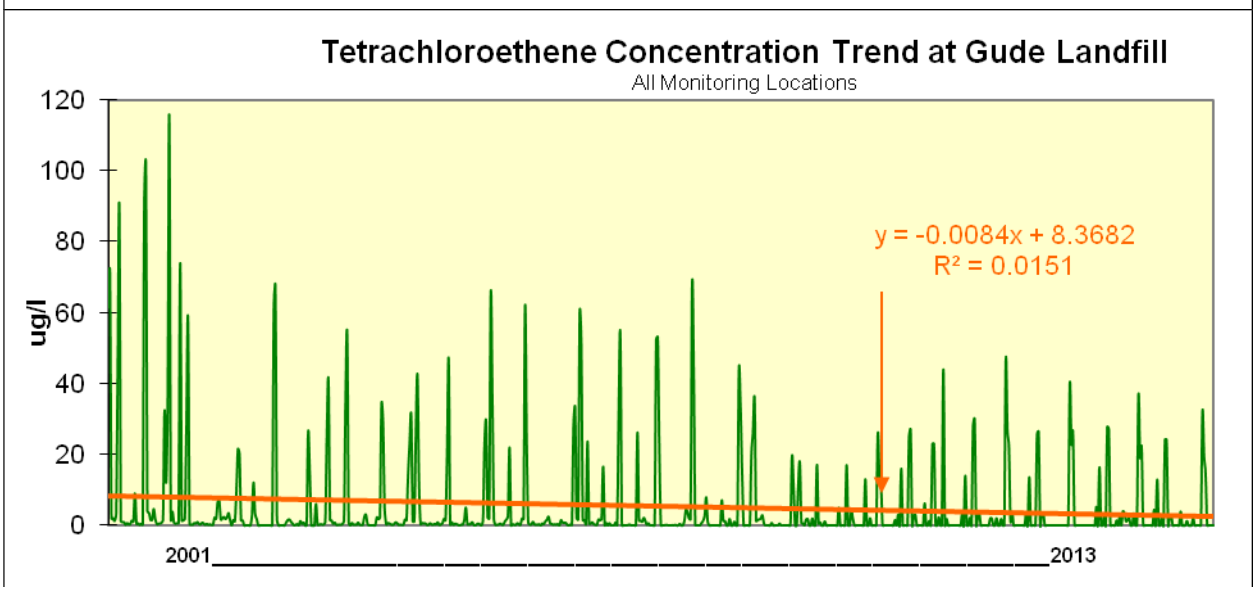
**The following graphs provide Historical Trend Analysis for particular VOC compounds that are detected on regular basis at the Landfill. These trend analyses are for all the monitoring locations including those wells installed in 2010.**
***(Please refer to Tables 1 and 2 for additional information.)***

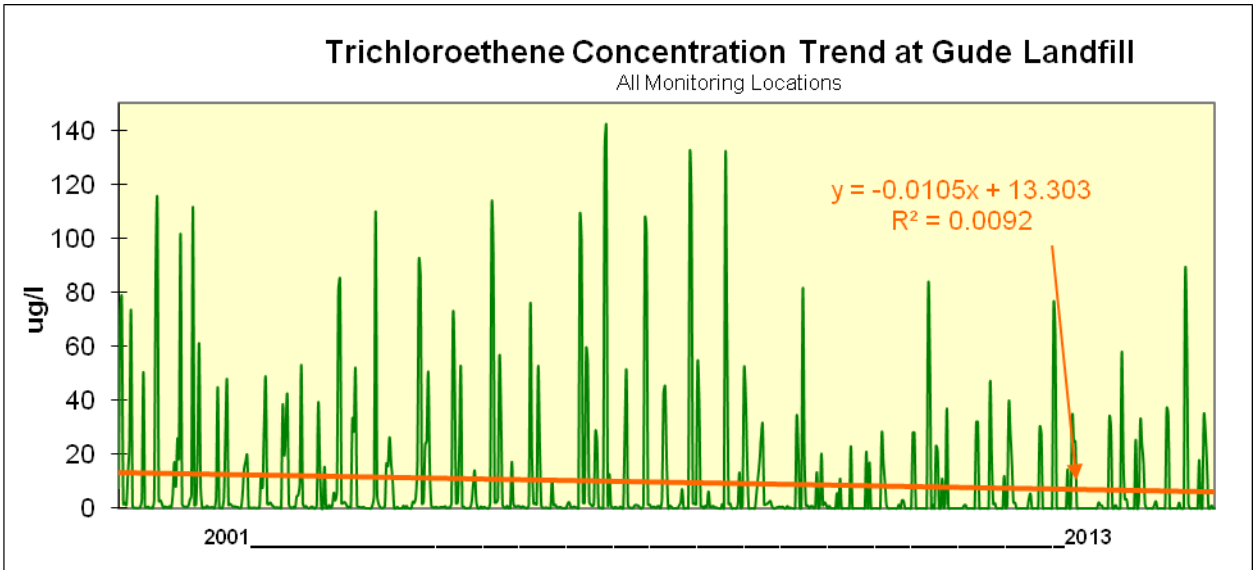


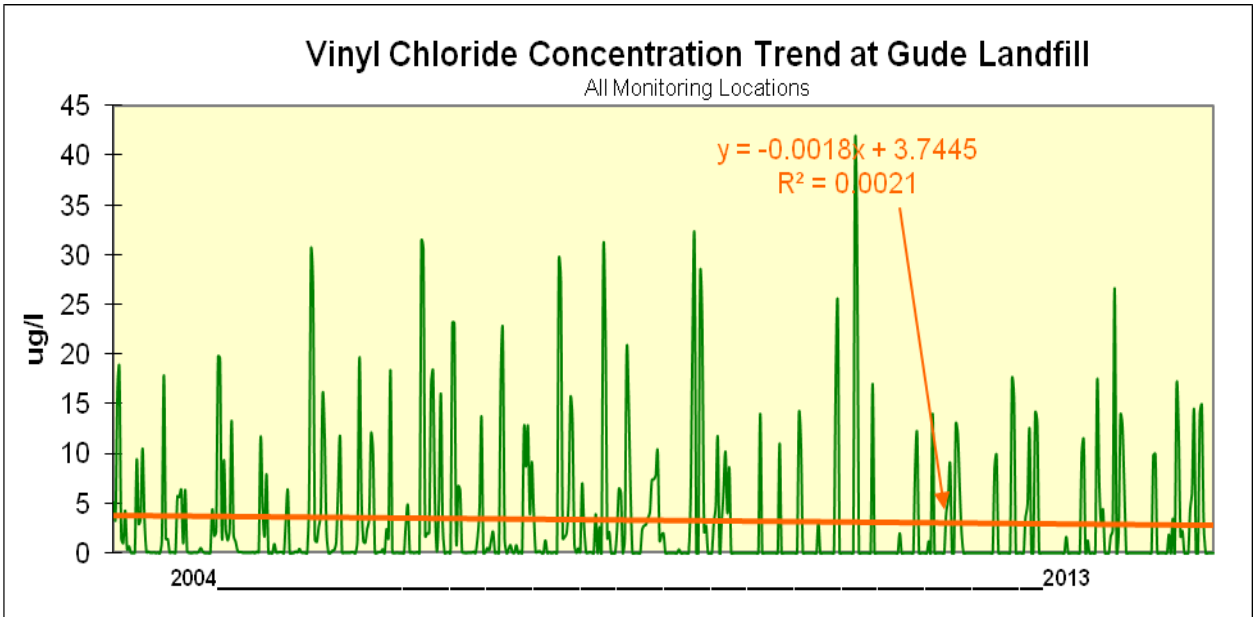




Benzene Concentration Trend at Gude Landfill
All Monitoring Locations
ug/l
20
18
16
14
12
10
8
6
4
2
0
y = -0.0012x + 1.4685
R² = 0.0116
2001
2013


cis-1,2-Dichloroethane Concentration Trend at Gude Landfill
All Monitoring Locations
ug/l
200
180
160
140
120
100
80
60
40
20
0
y = -0.008x + 22.64
R² = 0.0018
2001
2013


Tetrachloroethene Concentration Trend at Gude Landfill
All Monitoring Locations
ug/l
120
100
80
60
40
20
0
y = -0.0084x + 8.3682
R² = 0.0151
2001
2013


Trichloroethene Concentration Trend at Gude Landfill
All Monitoring Locations
y = -0.0105x + 13.303
R² = 0.0092
ug/l
140
120
100
80
60
40
20
0
2001
2013


Vinyl Chloride Concentration Trend at Gude Landfill
All Monitoring Locations
y = -0.0018x + 3.7445
R² = 0.0021
ug/l
45
40
35
30
25
20
15
10
5
0
2004
2013

# Appendix D

# Tables of Metals

## Results in (mg/l)

# Table 3
# Metals and Other Water Quality Parameters

| Monitoring Location | Parameter | OB01 | OB02 | OB02A | OB03 | OB03A | OB04 | OB04A | OB06 | OB07 | OB07A | OB08 | OB08A | OB10 | OB102 | OB105 | OB11 | OB11A | OB12 | OB15 | OB25 | ST015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gude Landfill - FALL 2013 Results | Alkalinity | 66 | 65 | 34 | 233 | 260 | 249 | 127 | 188 | 181 | 120 | 219 | 214 | 139 | 1080 | 50 | 228 | 302 | 126 | 151 | 387 | 29 |
| | Ammonia | ND | ND | ND | 2.29 | 4.18 | 0.666 | 0.229 | ND | ND | ND | ND | ND | ND | 13.3 | 4.61 | ND | 1.18 | ND | ND | 2.94 | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | 0.006 | ND | ND | ND | ND | ND | ND | 0.005 | 0.006 | ND | ND | ND | ND | ND | ND |
| | Barium | 0.184 | 0.052 | 0.439 | 0.598 | 0.543 | 0.265 | 0.061 | 0.18 | 0.029 | 0.046 | 0.126 | 0.065 | 0.076 | 0.347 | 0.144 | 0.029 | 0.165 | 0.018 | 0.062 | 0.175 | 0.017 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.01** | ND | ND | ND | ND | ND |
| | Calcium | 73.4 | 23.6 | 112 | 64.4 | 67.2 | 164 | 123 | 136 | 123 | 93.6 | 65.3 | 52.4 | 55.8 | 116 | 169 | 135 | 99.6 | 33.8 | 16.8 | 91.2 | 11.4 |
| | Chloride | 303 | 32.2 | 419 | 157 | 177 | 455 | 501 | 376 | 223 | 268 | 47.7 | 68 | 136 | 543 | 318 | 392 | 327 | 70.5 | 10.8 | 175 | 10.2 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.024 | ND | ND | ND | ND | 0.012 | ND |
| | Cobalt | 0.007 | ND | ND | 0.057 | 0.056 | ND | ND | ND | ND | ND | 0.006 | 0.016 | 0.008 | 0.07 | 0.031 | ND | 0.026 | ND | 0.012 | 0.037 | ND |
| | COD | ND | ND | ND | 13.2 | 17.5 | 23.7 | 65.6 | 36.2 | ND | 12.8 | ND | ND | ND | 126 | 56.2 | 22.5 | 23.1 | ND | ND | 17.2 | ND |
| | Copper | 0.006 | ND | ND | ND | ND | 0.035 | 0.028 | 0.009 | ND | 0.006 | ND | ND | ND | 0.071 | 0.042 | 0.008 | 0.006 | ND | 0.006 | 0.015 | ND |
| | Iron | 0.541 | 1.01 | 0.521 | 20.6 | 25.6 | 0.729 | 0.932 | 1.4 | 0.564 | 0.43 | 0.676 | 3.94 | 1.75 | 2.03 | 24.7 | 0.638 | 1.19 | ND | 17.3 | 17 | 0.345 |
| | Lead | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.01 | ND | ND | ND | ND | ND | ND |
| | Magnesium | 44 | 9.94 | 66.7 | 38.6 | 43 | 82 | 85.5 | 54.7 | 37.7 | 51.9 | 16.5 | 21.6 | 34.4 | 96.9 | 127 | 67 | 70.6 | 20.2 | 17.3 | 69 | 3.01 |
| | Manganese | 3.59 | 0.623 | 0.055 | 19.4 | 16 | 2.59 | 1.48 | 0.481 | 0.042 | 0.07 | 6 | 7.16 | 5.2 | 20.1 | 3.53 | 0.76 | 7.21 | 0.118 | 1.1 | 18.2 | 0.038 |
| | Mercury | ND | ND | ND | 5E-04 | ND | ND | ND | ND | 4E-04 | 7E-04 | ND | ND | ND | ND | 1E-03 | 0.001 | ND | ND | ND | 2E-04 | ND |
| | Nickel | 0.026 | ND | 0.013 | 0.019 | 0.018 | 0.014 | 0.021 | 0.011 | 0.006 | 0.007 | 0.008 | 0.007 | 0.011 | 0.091 | 0.073 | 0.033 | 0.024 | 0.007 | 0.008 | 0.026 | ND |
| | Nitrate | 2.28 | ND | 0.616 | ND | ND | ND | ND | 0.559 | 0.96 | 1 | ND | ND | ND | ND | ND | ND | ND | 0.87 | ND | ND | ND |
| | Nitrate+Nitrite | 2.29 | ND | 0.626 | ND | ND | ND | ND | 0.753 | 1.01 | 1.05 | ND | ND | ND | ND | ND | ND | ND | 0.88 | ND | ND | ND |
| | Nitrite | ND | ND | ND | ND | ND | ND | ND | 0.194 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | 5.46 | 6.74 | 5.34 | 5.84 | 5.34 | 6.12 | 5.69 | 5.7 | 6.41 | 5.7 | 6.18 | 6.01 | 6.12 | 6.41 | 6.34 | 5.41 | 5.61 | 5.53 | NM | 6.12 | 6.83 |
| | Potassium | 3.95 | 3.25 | 5.51 | 5.77 | 8.17 | 7.21 | 5.15 | 4.75 | 3.47 | 2.55 | 2.71 | 2.91 | 2.98 | 46.7 | 15.4 | 5.17 | 6.78 | 2.88 | 2.07 | 16.4 | 1.14 |
| | Selenium | ND | ND | ND | ND | ND | 0.021 | 0.024 | 0.012 | 0.006 | 0.009 | ND | ND | ND | 0.019 | 0.016 | 0.005 | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 63.5 | 10.2 | 39.8 | 35.7 | 55.7 | 64.8 | 90.4 | 87.3 | 20.8 | 24.9 | 26.4 | 30.1 | 20.8 | 483 | 184 | 71.3 | 102 | 21.2 | 50.6 | 83.5 | 7.17 |
| | Spec. Cond. | 1052 | 229.3 | 1327 | 887.2 | 998.1 | 1737 | 1697 | 1537 | 992.5 | 1016 | 516.5 | 547.9 | 636.8 | 3303 | 2224 | 1539 | 1481 | 436.3 | NM | 807.1 | 93.3 |
| | Sulfate | 25.7 | 4.79 | 22.2 | 16.8 | 29.7 | 21 | 11.7 | 101 | 24.6 | 31 | 5.68 | 4.39 | ND | 44.7 | 299 | 12.2 | 15.7 | 5.79 | 63.3 | 65 | ND |
| | TDS | 840 | 174 | 1072 | 568 | 578 | 1304 | 1262 | 1150 | 724 | 774 | 392 | 388 | 434 | 2158 | 1606 | 1122 | 936 | 364 | 244 | 838 | 6 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Total Hardness | 356 | 98 | 520 | 330 | 360 | 740 | 616 | 584 | 452 | 448 | 230 | 240 | 278 | 696 | 940 | 606 | 516 | 178 | 120 | 490 | 36 |
| | Turbidity | 3.6 | 35.3 | 0 | 0 | 3.8 | 0 | 18.2 | 38.5 | 0 | 0.75 | 0 | 0 | 0 | 84.5 | 728 | 0 | 0 | 1.26 | NM | 153 | 6.2 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.036 | ND | ND | ND | ND | 0.01 | ND |
| | Zinc | 0.012 | 0.006 | 0.009 | 0.015 | 0.012 | 0.008 | 0.023 | 0.021 | 0.005 | 0.007 | 0.006 | 0.007 | 0.008 | 0.02 | 0.157 | 0.041 | 0.019 | 0.006 | 0.052 | 0.04 | 0.005 |

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 3
# Metals and Other Water Quality Parameters

| Monitoring Location | Parameter | ST120 | ST65 | ST70 | ST80 | MW1B | MW2A | MW2B | MW3A | MW3B | MW04 | MW06 | MW07 | MW08 | MW09 | MW10 | MW11A | MW11B | MW12 | MW13A | MW13B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gude Landfill - FALL 2013 Results | Alkalinity | 57 | 112 | 92 | 569 | 49 | 56 | 34 | 16 | 123 | 55 | 183 | 48 | 89 | 28 | 86 | 33 | 62 | 7.9 | 32 | 221 |
| | Ammonia | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.044 | 0.044 | 0.061 | 0.039 | 0.009 | 0.017 | 0.007 | 0.033 | 0.12 | 0.042 | 0.301 | 0.073 | 0.156 | 0.115 | 0.448 | 0.185 | 0.026 | 0.392 | 0.397 | 0.075 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | 27.4 | 40 | 39.8 | 17.5 | 8.27 | 13.2 | 10.1 | 5.41 | 54.5 | 35.1 | 79.8 | 45.4 | 46.9 | 11 | 23.3 | 17.3 | 16.9 | 45.5 | 26.9 | 86.2 |
| | Chloride | 67.8 | 68.4 | 62.6 | 43 | 3.27 | 5.76 | ND | ND | 3.05 | 128 | 304 | 117 | 197 | 13.9 | 7.95 | 5.14 | 6.57 | 197 | 87.9 | 89.4 |
| | Chromium | ND | ND | 0.023 | ND | 0.007 | ND | ND | 0.013 | **0.124** | ND | 0.006 | ND | 0.022 | 0.026 | 0.068 | 0.052 | ND | 0.012 | 0.041 | ND |
| | Cobalt | ND | ND | ND | ND | ND | 0.005 | ND | 0.005 | 0.016 | ND | 0.263 | ND | ND | 0.009 | 0.031 | 0.021 | ND | ND | 0.035 | ND |
| | COD | ND | ND | 22.4 | 14.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Copper | ND | ND | 0.009 | 0.008 | 0.006 | 0.011 | ND | 0.02 | 0.054 | ND | 0.015 | 0.011 | 0.011 | 0.017 | 0.108 | 0.046 | 0.006 | 0.017 | 0.09 | ND |
| | Iron | 0.579 | 0.294 | 0.486 | 0.55 | 0.623 | 1.46 | ND | 11.7 | 24.9 | 0.786 | 7.65 | 0.29 | 1.64 | 14.7 | 55.7 | 30.7 | 0.948 | 7.12 | 45.7 | 0.411 |
| | Lead | ND | ND | ND | ND | ND | ND | ND | ND | **0.017** | ND | 0.005 | ND | ND | 0.011 | **0.018** | 0.012 | ND | 0.007 | 0.015 | ND |
| | Magnesium | 12.9 | 19 | 11.8 | 10.5 | 4.56 | 5.72 | 2.56 | 5.37 | 12 | 23.2 | 56.7 | 27.7 | 27.1 | 11.8 | 26.4 | 16.4 | 8.18 | 21.6 | 30.5 | 30.4 |
| | Manganese | 0.08 | 0.071 | 0.097 | 0.098 | 0.019 | 0.602 | 0.023 | 0.141 | 0.465 | 0.142 | 40 | 1.22 | 0.182 | 0.415 | 0.931 | 0.633 | 0.021 | 0.177 | 1.03 | 0.037 |
| | Mercury | ND | ND | ND | ND | ND | 3E-04 | ND | ND | 3E-04 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7E-04 | 3E-04 |
| | Nickel | 0.007 | ND | 0.007 | 0.005 | 0.007 | 0.028 | ND | 0.013 | 0.114 | 0.009 | 0.038 | 0.007 | 0.024 | 0.025 | 0.061 | 0.049 | ND | 0.014 | 0.043 | 0.006 |
| | Nitrate | 0.812 | 1.16 | 0.523 | 0.309 | ND | ND | ND | ND | ND | 0.489 | ND | **15.75** | 5.21 | 1.49 | ND | 2.57 | 2.38 | 5.02 | 1.67 | 2.44 |
| | Nitrate+Nitrite | 0.822 | 1.17 | 0.692 | 0.359 | ND | ND | ND | ND | ND | 0.499 | ND | 15.8 | 5.26 | 1.5 | ND | 2.58 | 2.39 | 5.03 | 1.72 | 2.45 |
| | Nitrite | ND | ND | 0.169 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | 7.4 | 7.48 | 7.45 | 7.65 | 6.1 | 5.31 | 5.13 | 5.49 | 7.59 | 6.05 | 5.62 | 5.57 | 6.39 | 5.05 | 5.9 | 5.72 | 6.46 | 4.82 | 5.12 | 6.07 |
| | Potassium | 2.67 | 4.53 | 13.5 | 3.86 | 1.06 | 2.27 | 1.47 | 3.03 | 6.49 | 2.53 | 4 | 2.82 | 8 | 5.4 | 11.3 | 6.81 | 1.17 | 4.3 | 11.3 | 3.35 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.013 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 19.8 | 27.5 | 25.9 | 17.2 | 7.4 | 9.54 | 4.17 | 3.81 | 30.1 | 29.6 | 66 | 24.7 | 100 | 4.13 | 9.52 | 5.31 | 9.42 | 61.4 | 12.5 | 16.4 |
| | Spec. Cond. | 340 | 466.9 | 424.7 | 231.3 | 95.5 | 104.3 | 74 | 37.1 | 221.9 | 485.6 | 1248 | 580.1 | 907.6 | 70.2 | 183 | 111.7 | 144.9 | 668 | 290.5 | 673.7 |
| | Sulfate | 8.37 | 29.2 | 28.7 | 6.35 | ND | ND | ND | ND | 43.2 | 4.01 | 50 | 7.76 | 57.6 | ND | 6.47 | 5.93 | ND | 17.3 | ND | 8.33 |
| | TDS | 272 | 352 | 308 | 180 | 90 | 4 | 72 | 126 | 242 | 442 | 878 | 524 | 520 | 96 | 142 | 116 | 134 | 646 | 348 | 502 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Total Hardness | 120 | 170 | 140 | 76 | 40 | 48 | 30 | 16 | 162 | 170 | 500 | 212 | 218 | 48 | 90 | 60 | 62 | 170 | 136 | 328 |
| | Turbidity | ND | 0 | 0.6 | 4 | 33.9 | 11.3 | 0 | 982 | 22.7 | 45.2 | 2651 | 3.7 | NM | 1235 | 1583 | 1272 | 15.8 | 160 | 1220 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | 0.013 | 0.023 | ND | ND | ND | ND | 0.017 | 0.124 | 0.056 | 0.006 | 0.009 | 0.113 | ND |
| | Zinc | 0.006 | ND | 0.022 | 0.013 | 0.007 | 0.032 | 0.01 | 0.037 | 0.08 | 0.007 | 0.056 | 0.01 | 0.031 | 0.087 | 0.19 | 0.124 | 0.007 | 0.044 | 0.126 | 0.007 |

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB01 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 104 | 95 | 103 | 93 | 112 | 100 | 73 | 80 | 66 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.036 | 0.1325 | 0.1065 | 0.1459 | 0.1381 | 0.1348 | 0.1286 | NT | 0.1465 | 0.164 | 0.162 | 0.169 | 0.182 | 0.191 | 0.214 | 0.171 | 0.185 | 0.184 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 64.9 | 67.6 | 68.2 | 76.2 | 73.8 | 81.24 | 69.1 | 73.3 | 73.4 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 196 | 204 | 241 | 262 | 291 | 322 | 284 | 291 | 303 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | 0.007 | 0.0036 | 0.0051 | 0.0094 | 0.0039 | 0.0071 | NT | ND | 0.009 | 0.0084 | 0.0101 | 0.0147 | 0.0289 | 0.0219 | 0.00903 | 0.0111 | 0.00681 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 5.1 | 6.9 | ND | 5.4 | ND | ND | ND |
| | Copper | 0.0105 | 0.0149 | 0.0107 | 0.0069 | 0.0104 | 0.0071 | 0.0072 | NT | ND | 0.007 | 0.0096 | 0.0094 | 0.0063 | 0.00645 | 0.0119 | 0.00575 | 0.0148 | 0.00605 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 330 | 320 | 350 | 364 | 390 | 420 | 342 | 346 | 356 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 0.469 | 0.837 | 0.515 | 1.6 | 0.386 | 0.458 | 0.541 |
| | Lead | ND | ND | 0.0025 | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | 0.0054 | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 36 | 40.3 | 38.9 | 45.3 | 46.3 | 48.58 | 38.6 | 45 | 44 |
| | Manganese | 0.1334 | 0.8516 | ND | 1.231 | NT | NT | NT | NT | NT | 2.77 | 3.17 | 3.95 | 5.07 | 7.98 | 6.33 | 3.74 | 3.8 | 3.59 |
| | Mercury | ND | ND | ND | ND | 0.0004 | ND | ND | NT | ND | ND | ND | ND | ND | ND | 0.00036 | ND | ND | ND |
| | Nickel | 0.0035 | 0.0151 | 0.0131 | 0.0177 | 0.0194 | 0.0182 | 0.0152 | NT | 0.0182 | 0.026 | 0.0264 | 0.0304 | 0.0307 | 0.0381 | 0.0406 | 0.0319 | 0.0324 | 0.0258 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.67 | 1.94 | 1.907 | 1.79 | 1.34 | 1.56 | 2.13 | 2.21 | 2.28 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.82 | 5.08 | | | 5.51 | 5.62 | 5.14 | 5.87 | 5.46 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.52 | 3.64 | 3.36 | 3.81 | 3.78 | 4.57 | 3.85 | 4.55 | 3.95 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 47.4 | 54.5 | 51.8 | 58.2 | 66.3 | 77.79 | 57.2 | 73.6 | 63.5 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 855.9 | 920.7 | | | 980.9 | 1218 | 1060 | 1223 | 1052 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 26.4 | 24.9 | 26.6 | 26.8 | 28.8 | 26.1 | 24.2 | 22.3 | 25.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 776 | 912 | 1176 | 856 | 1116 | 876 | 856 | 980 | 840 |
| | Thallium | ND | 0.0013 | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.186 | 0.18 | 0.98 | 1.96 | NT | NT | NS | 1.4 | 3.6 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0157 | 0.0084 | 0.0161 | NT | 0.012 | ND | 0.013 | 0.0107 | 0.0116 | 0.0128 | 0.0163 | 0.0112 | 0.0118 | 0.012 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB02 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 67 | 57 | 72 | 70 | 72 | 68 | 68 | 67 | 65 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.1443 | 0.1971 | 0.1508 | 0.2539 | 0.2817 | 0.2464 | 0.1635 | 0.1338 | 0.1568 | 0.296 | 0.344 | 0.126 | 0.531 | 0.0771 | 0.0702 | 0.427 | 0.05 | 0.0524 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 60.6 | 73.9 | 39.1 | 72.2 | 28.2 | 28.37 | 103 | 20.9 | 23.6 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 212 | 264 | 90 | 47.3 | 51.1 | 49.9 | 404 | 27.8 | 32.2 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | 0.0055 | ND | 0.0049 | 0.0065 | ND | ND | ND | ND | 0.0057 | 0.0071 | ND | 0.0587 | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | 34.6 | ND |
| | Copper | 0.0176 | 0.0267 | 0.0101 | 0.0054 | 0.008 | 0.0192 | 0.0052 | 0.0074 | 0.0055 | 0.006 | 0.0103 | 0.0069 | ND | ND | 0.00631 | ND | 0.0106 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 350 | 376 | 169 | 130 | 125 | 116 | 500 | 86 | 98 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.66 | 2.59 | 0.818 | 25.2 | 0.768 | 1.18 | 0.586 | 0.725 | 1.01 |
| | Lead | ND | 0.0049 | 0.0022 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 32.2 | 43.3 | 17.7 | 59.3 | 12.1 | 11.97 | 59 | 9.45 | 9.94 |
| | Manganese | 0.2375 | 1.3188 | 0.1466 | 1.314 | NT | NT | NT | NT | NT | 1.21 | 1.34 | 1.24 | 10.1 | 0.876 | 0.919 | 0.0582 | 0.6 | 0.623 |
| | Mercury | 0.1694 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.004 | 0.0074 | 0.0022 | 0.0047 | 0.0088 | 0.0062 | 0.0028 | ND | 0.0021 | 0.0082 | 0.011 | ND | 0.0168 | ND | ND | 0.0141 | ND | ND |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 0.575 | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 8.27 | 5.35 | | | 6.71 | 6.94 | 6.6 | 7.16 | 6.74 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.91 | 7.07 | 4.43 | 13.7 | 3.99 | 3.76 | 5.69 | 3.33 | 3.25 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 22.6 | 30.6 | 17.8 | 111 | 11 | 15.64 | 34.5 | 14.8 | 10.2 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 665 | 910.3 | | | 318.1 | 302.2 | 261.2 | 252.9 | 229.3 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 13.5 | 14.9 | 7.38 | 4.24 | 5.87 | 4.51 | 20.2 | 5.14 | 4.79 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 780 | 1008 | 388 | 336 | 1264 | 252 | 1124 | 152 | 174 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10.3 | 6.4 | 2.6 | 33.3 | NT | NT | NS | 7.5 | 35.3 |
| | Vanadium | ND | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.017 | 0.0176 | 0.0049 | 0.0074 | 0.0091 | ND | 0.0187 | 0.00533 | 0.00773 | 0.00643 | 0.00627 | 0.0086 | ND | 0.00616 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB02A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 38 | 36 | 40 | 35 | 36 | 36 | 33 | 33 | 34 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | NT | 0.0033 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.1033 | 0.1198 | 0.1035 | 0.2976 | 0.2861 | 0.1479 | 0.2413 | 0.1676 | 0.2743 | 0.354 | 0.297 | 0.345 | 0.349 | 0.397 | 0.356 | 0.0568 | 0.385 | 0.439 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 77.5 | 76.4 | 87.1 | 82.9 | 96.3 | 94 | 24.7 | 90.3 | 112 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 280 | 286 | 310 | 302 | 350 | 334 | 36 | 335 | 419 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Copper | 0.0159 | 0.0114 | 0.0137 | 0.0057 | 0.0062 | 0.0103 | 0.0045 | 0.0061 | 0.0064 | 0.0054 | 0.0075 | 0.0077 | 0.0053 | ND | 0.00507 | ND | 0.0112 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 390 | 353 | 420 | 391 | 463 | 414 | 112 | 426 | 520 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.414 | 0.6 | 0.682 | ND | 0.58 | 0.396 | 0.793 | 0.486 | 0.521 |
| | Lead | ND | ND | 0.0031 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 46.4 | 44.4 | 52.3 | 53.4 | 59.1 | 53.1 | 10.6 | 52.4 | 66.7 |
| | Manganese | 0.0313 | 0.0303 | 0.0128 | NT | NT | NT | NT | NT | NT | 0.0381 | 0.0382 | 0.0449 | 0.0513 | 0.0465 | 0.0449 | 0.718 | 0.0418 | 0.0548 |
| | Mercury | **0.0482** | ND | 0.0013 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0059 | 0.0064 | 0.006 | 0.0061 | 0.0082 | 0.0092 | 0.0059 | 0.0077 | 0.0073 | 0.0122 | 0.0099 | 0.012 | 0.011 | 0.0114 | 0.0135 | ND | 0.0116 | 0.0129 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.5894 | 0.582 | 0.589 | 0.543 | 0.576 | 0.582 | ND | 0.623 | 0.616 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.75 | 4.77 | | | 5.09 | 5.41 | 5.25 | 5.7 | 5.34 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 4.73 | 4.1 | 4.69 | 5.2 | 5.78 | 4.82 | 3.56 | 5.24 | 5.51 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 31.2 | 32.5 | 35 | 31.6 | 34.9 | 37.5 | 10.9 | 35.9 | 39.8 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 636.7 | 925.5 | | | 1263 | 1120 | 1386 | 1286 | 1327 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 22.4 | 16.2 | 25.4 | 17.8 | 21.5 | 18.4 | 4.91 | 19.3 | 22.2 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1088 | 1072 | 1192 | 288 | 68 | 824 | 176 | 796 | 1072 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.83 | 1.16 | 0.891 | 0.416 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0068 | 0.0156 | ND | ND | 0.0131 | ND | 0.00713 | 0.0081 | 0.00823 | 0.00783 | 0.00652 | 0.00607 | 0.00696 | 0.00883 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB03 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 265 | 321 | 242 | 267 | 216 | 187 | 241 | 221 | 233 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.39 | 6.46 | 2.9 | 4.97 | 2.56 | 3.48 | 2.43 | 2.7 | 2.29 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | **0.0232** | 0.0079 | 0.0066 | 0.0023 | 0.0023 | 0.0046 | 0.004 | ND | ND | 0.0024 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 1.69 | 0.1124 | 1.101 | 0.6512 | 0.7963 | 0.9091 | 0.7536 | 0.5928 | 0.5995 | 0.588 | 0.856 | 0.592 | 0.736 | 0.58 | 0.697 | 0.571 | 0.573 | 0.598 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | 0.0039 | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 59.9 | 80.3 | 62.3 | 69 | 65.3 | 74.4 | 64.3 | 67.4 | 64.4 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 134 | 193 | 155 | 220 | 163 | 222 | 169 | 192 | 157 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | 0.0711 | 0.0029 | 0.0593 | 0.0555 | 0.0674 | 0.0581 | 0.0556 | 0.053 | 0.0569 | 0.0643 | 0.0662 | 0.0659 | 0.0629 | 0.0554 | 0.0634 | 0.067 | 0.0531 | 0.0566 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 13.6 | 34.9 | 10.1 | 28.8 | 16.8 | 24.3 | 18 | 17.8 | 13.2 |
| | Copper | 0.0145 | 0.0153 | 0.0093 | 0.0499 | 0.0064 | 0.0113 | 0.0066 | 0.0077 | 0.0978 | 0.0063 | 0.0084 | 0.0124 | 0.0076 | ND | 0.0082 | ND | 0.0113 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 690 | 700 | 400 | 3600 | 410 | 400 | 360 | 348 | 330 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 28.8 | 34.6 | 25 | 23.6 | 22.19 | 23.68 | 21.7 | 21.8 | 20.6 |
| | Lead | 0.003 | 0.0027 | 0.0031 | **0.02** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 33.2 | 52.8 | 35.6 | 47.1 | 41.1 | 42.7 | 37 | 35.2 | 38.6 |
| | Manganese | 20.5775 | 19.79 | 20.7743 | 16.74 | NT | NT | NT | NT | NT | 18.5 | 18.8 | 21.3 | 18.5 | 19 | 19.6 | 18.8 | 19.5 | 19.4 |
| | Mercury | **0.005** | **0.0024** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.00025 | ND | ND | 0.00047 |
| | Nickel | 0.0047 | 0.0172 | 0.0171 | 0.0408 | 0.019 | 0.0175 | 0.0168 | 0.0142 | 0.09 | 0.0183 | 0.0167 | 0.0197 | 0.0176 | 0.0164 | 0.0215 | 0.0217 | 0.0174 | 0.0188 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.19 | 4.74 | | | 5.97 | 5.78 | 5.15 | 5.93 | 5.84 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10.2 | 10.9 | 6.94 | 10.1 | 7 | 7.95 | 6.77 | 9.31 | 5.77 |
| | Selenium | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | 0.00545 | ND | ND | ND |
| | Silver | 0.0046 | ND | ND | ND | ND | ND | ND | ND | 0.0154 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | ND | ND | ND | ND | ND | ND | ND | NT | ND | 35.9 | 92.8 | 41.6 | 74.2 | 44.2 | 58.9 | 35.7 | 43.8 | 35.7 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 902 | 1405 | | | 814.1 | 1140 | 960.6 | 1138 | 887.2 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 8.84 | 31.4 | 16.7 | 41.4 | 22 | 28.5 | 13.1 | 18.6 | 16.8 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 564 | 984 | 676 | 784 | 804 | 888 | 604 | 572 | 568 |
| | Thallium | 0.0012 | ND | ND | ND | ND | ND | 0.0015 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 11 | 24.4 | 22.9 | 2.81 | NT | NT | NS | 0 | 0 |
| | Vanadium | 0.0078 | 0.0027 | ND | 0.0219 | ND | 0.0023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0126 | 0.0253 | 0.0208 | ND | 0.0336 | ND | 0.0118 | 0.0165 | 0.0148 | 0.0141 | 0.0175 | 0.0148 | 0.0142 | 0.0154 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB03A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 317 | 461 | 270 | 340 | 226 | 266 | 268 | 338 | 260 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.47 | 8.93 | 4.35 | 7.91 | 5.09 | 6.15 | 4.51 | 6.67 | 4.18 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | 0.0036 | 0.0034 | 0.0021 | 0.0033 | 0.0046 | 0.008 | 0.0032 | **0.0106** | ND | 0.0036 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.4988 | 0.57 | 0.4668 | 0.6407 | 0.9942 | 0.658 | 0.5139 | 0.5699 | 0.593 | 0.568 | 0.421 | 0.581 | 0.0796 | 0.529 | 0.51 | 0.495 | 0.435 | 0.543 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | 0.0031 | 0.0022 | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 69.4 | 91.6 | 66 | 24.8 | 68.5 | 76 | 62.3 | 70.9 | 67.2 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 194 | 164 | 176 | 239 | 193 | 245 | 185 | 229 | 177 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | 0.082 | 0.0654 | 0.0584 | 0.0658 | 0.084 | 0.0608 | 0.0609 | 0.0617 | 0.063 | 0.0698 | 0.0458 | 0.0684 | ND | 0.0563 | 0.057 | 0.0672 | 0.0441 | 0.0561 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 19.1 | 38.5 | 12.1 | 35 | 22.5 | 31.1 | 19.5 | 52.1 | 17.5 |
| | Copper | ND | 0.0141 | 0.0089 | 0.0054 | 0.0101 | 0.0079 | 0.0056 | 0.0083 | ND | 0.0064 | 0.0084 | 0.008 | 0.0108 | ND | 0.00958 | ND | 0.011 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 700 | 670 | 360 | 580 | 375 | 420 | 350 | 400 | 360 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 39.4 | 49.3 | 31 | 2.71 | 29.71 | 29.85 | 26.5 | 29.6 | 25.6 |
| | Lead | ND | ND | 0.0026 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | 2.9275 | 17.88 | 14.2709 | 15.08 | NT | NT | NT | NT | NT | 44.4 | 66.8 | 41.6 | 15.8 | 48.7 | 52.7 | 39.3 | 51.4 | 43 |
| | Manganese | NT | NT | NT | NT | NT | NT | NT | NT | NT | 13.3 | 6.35 | 16.4 | 0.982 | 14.2 | 13.7 | 15.4 | 11.2 | 16 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0121 | 0.0178 | 0.0132 | 0.0164 | 0.0219 | 0.0166 | 0.0164 | 0.0166 | 0.016 | 0.02 | 0.0157 | 0.0194 | ND | 0.0158 | 0.0185 | 0.021 | 0.0142 | 0.0181 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.76 | 4.98 | | | 6.03 | 6.04 | 5.2 | 6.29 | 5.34 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 12.4 | 19.2 | 9.18 | 4.68 | 9.64 | 13.1 | 9.64 | 16.6 | 8.17 |
| | Selenium | 0.0029 | ND | ND | ND | 0.003 | ND | ND | ND | ND | 0.0024 | ND | ND | ND | ND | 0.00586 | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 70.3 | 132 | 58.5 | 14.4 | 70.5 | 91 | 52.2 | 97.8 | 55.7 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1023 | 1661 | | | 975.1 | 1379 | 1082 | 1517 | 998.1 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 33.5 | 75.4 | 26.9 | 58.4 | 31.5 | 41.8 | 21.2 | 36 | 29.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 780 | 1112 | 704 | 980 | 888 | 952 | 632 | 796 | 578 |
| | Thallium | ND | 0.0012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 39.4 | 271 | 13.3 | 13.6 | NT | NT | NS | 1.8 | 3.8 |
| | Vanadium | 0.0021 | 0.0022 | 0.0011 | 0 | 0.0003 | 0.0113 | 0.0021 | 0.0036 | 0.0005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | 0.0064 | 0.017 | 0.0134 | 0.0272 | 0.0272 | 0.0182 | 0.0182 | 0.011 | 0.00872 | 0.0131 | 0.0147 | 0.0089 | 0.0142 | 0.00986 | 0.00638 | 0.0117 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB04 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 221 | 242 | 255 | 238 | 242 | 261 | 248 | 244 | 249 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.328 | 0.542 | 0.514 | 0.695 | 0.673 | 0.667 | 0.771 | 0.733 | 0.666 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0034 | ND | 0.0055 | ND | ND | 0.00907 | 0.00857 | 0.00926 | ND |
| | Barium | 0.0797 | 0.043 | 0.1065 | 0.2328 | 0.2276 | 0.222 | 0.1991 | 0.2255 | 0.2468 | 0.261 | 0.254 | 0.255 | 0.264 | 0.255 | 0.281 | 0.247 | 0.274 | 0.265 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 154 | 160 | 159 | 154 | 157 | 173 | 157 | 151 | 164 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 412 | 193 | 424 | 433 | 416 | 473 | 448 | 449 | 455 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 26.3 | 25.2 | 29.8 | 30.7 | 29.2 | 34.1 | 26.7 | 31.3 | 23.7 |
| | Copper | 0.0157 | 0.0254 | 0.0123 | 0.0316 | 0.0323 | 0.029 | 0.0088 | 0.0087 | 0.0311 | 0.0344 | 0.0388 | 0.0418 | 0.0367 | 0.0314 | 0.0377 | 0.0353 | 0.0475 | 0.0354 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 670 | 610 | 680 | 717 | 705 | 714 | 712 | 730 | 740 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.343 | 1.13 | 1.2 | ND | 0.92 | 0.804 | 0.824 | 0.751 | 0.729 |
| | Lead | ND | ND | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 75.1 | 83.7 | 81 | 88.1 | 89.1 | 88.9 | 76.6 | 78.1 | 82 |
| | Manganese | 0.0306 | 0.7021 | 0.1073 | 1.2 | NT | NT | NT | NT | NT | 1.32 | 1.81 | 1.84 | 1.94 | 2.03 | 2.07 | 2.28 | 2.55 | 2.59 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0064 | 0.0146 | 0.0095 | 0.0091 | 0.0105 | 0.0102 | 0.0106 | 0.0118 | ND | 0.0137 | 0.0124 | 0.0145 | 0.0132 | 0.0115 | 0.0178 | 0.0179 | 0.0204 | 0.0139 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.71 | 5.3 | | | 5.88 | 5.65 | 5.67 | 6.22 | 6.12 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.32 | 6.52 | 6.45 | 7.29 | 7.18 | 7.03 | 7.72 | 8.21 | 7.21 |
| | Selenium | 0.0024 | 0.0032 | 0.0047 | 0.0033 | 0.0072 | 0.007 | 0.005 | 0.0058 | ND | 0.0167 | 0.0066 | 0.0219 | 0.0193 | 0.0144 | 0.032 | 0.0321 | 0.037 | 0.0212 |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 71 | 77.6 | 73.8 | 74.4 | 74.3 | 73.3 | 63.2 | 66.6 | 64.8 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1673 | 1758 | | | 1503 | 1817 | 1828 | 2022 | 1737 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 18.8 | 21.1 | 28.4 | 19.6 | 22.3 | 19.5 | 18.3 | 16.1 | 21 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1348 | 1772 | 1760 | 1428 | 1736 | 1632 | 1432 | 1600 | 1304 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.07 | 0.24 | 0.632 | 0.421 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.007 | 0.0058 | 0.0167 | ND | 0.0138 | ND | 0.00761 | 0.00779 | 0.00828 | 0.00744 | 0.00692 | 0.00885 | 0.00793 | 0.00797 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB04A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 125 | 142 | 135 | 133 | 127 | 129 | 123 | 129 | 127 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.301 | 0.366 | 0.281 | 0.379 | 0.316 | 0.218 | 0.299 | 0.285 | 0.229 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0036 | ND | 0.0061 | 0.0053 | ND | **0.0105** | **0.0107** | **0.0105** | 0.00555 |
| | Barium | 0.0447 | 0.1167 | 0.0408 | 0.0441 | 0.0432 | 0.0445 | 0.0453 | 0.049 | 0.0512 | 0.0542 | 0.0555 | 0.0539 | 0.0579 | 0.0555 | 0.0614 | 0.0553 | 0.0622 | 0.0612 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 109 | 116 | 113 | 117 | 118 | 124 | 118 | 126 | 123 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 438 | 311 | 468 | 473 | 460 | 531 | 501 | 498 | 501 |
| | Chromium | ND | ND | ND | 0.0022 | ND | 0.0026 | ND | ND | ND | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 31.3 | 26.4 | 29.5 | 39.3 | 27.5 | 33 | 33.3 | 28.8 | 65.6 |
| | Copper | 0.0339 | 0.0218 | 0.026 | 0.0248 | 0.0227 | 0.0261 | 0.03 | 0.027 | 0.0288 | 0.0328 | 0.0321 | 0.0324 | 0.0283 | 0.0236 | 0.0295 | 0.0256 | 0.0364 | 0.0284 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 570 | 550 | 600 | 592 | 602 | 622 | 598 | 604 | 616 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.998 | 1.57 | 1.24 | 0.636 | 0.712 | 1.12 | 0.615 | 0.806 | 0.932 |
| | Lead | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 71.9 | 86.1 | 80.3 | 94.8 | 85.5 | 88.8 | 81 | 89.6 | 85.5 |
| | Manganese | 0.6969 | 0.3169 | 0.6662 | 0.6592 | NT | NT | NT | NT | NT | 0.969 | 1.07 | 1.13 | 1.12 | 1.1 | 1.01 | 1.12 | 1.23 | 1.48 |
| | Mercury | **0.0799** | ND | ND | ND | ND | ND | 0.0004 | ND | ND | 0.0003 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0149 | 0.0103 | 0.0142 | 0.0148 | 0.0152 | 0.0157 | 0.0164 | 0.0172 | 0.0159 | 0.021 | 0.0194 | 0.0207 | 0.0193 | 0.017 | 0.0234 | 0.0239 | 0.0255 | 0.021 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.82 | 4.84 | | | 5.43 | 5.57 | 5.29 | 5.85 | 5.69 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 4.93 | 5.25 | 4.92 | 5.92 | 4.99 | 5.73 | 5.42 | 5.96 | 5.15 |
| | Selenium | 0.0027 | 0.0032 | 0.0053 | 0.0032 | 0.0074 | 0.0085 | 0.0077 | 0.0064 | ND | 0.0174 | 0.0071 | 0.0243 | 0.0223 | 0.0161 | 0.0373 | 0.0391 | 0.0434 | 0.0239 |
| | Silver | ND | ND | ND | ND | ND | ND | 0.0026 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 89.1 | 101 | 91.9 | 100 | 91.1 | 95 | 89 | 100 | 90.4 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1943 | 1678 | | | 1438 | 1752 | 1785 | 1985 | 1697 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 12.1 | 12.9 | 12.8 | 11.5 | 11 | 11.1 | 11.5 | 9 | 11.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1200 | 1764 | 1672 | 1356 | 1636 | 1508 | 1476 | 1596 | 1262 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10.3 | 16.8 | 16.3 | 5.83 | NT | NT | NS | 12.3 | 18.2 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0166 | 0.017 | 0.0201 | 0.0273 | 0.0321 | 0.024 | 0.0227 | 0.0214 | 0.021 | 0.0204 | 0.0227 | 0.0222 | 0.0228 | 0.0227 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB06 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 150 | 170 | 220 | 145 | 156 | 175 | 161 | 178 | 188 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | 0.389 | ND | ND | ND | ND | ND |
| | Antimony | ND | 0.0033 | ND | ND | 0.0034 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | 0.003 | 0.0027 | ND | 0.0027 | ND | ND | 0.0032 | ND | 0.0067 | ND | ND | ND | ND | ND | ND |
| | Barium | 0.2335 | 0.1901 | 0.2245 | 0.2017 | 0.195 | 0.4262 | 0.1607 | 0.17 | 0.1941 | 0.196 | 0.267 | 0.507 | 0.536 | 0.195 | 0.221 | 0.19 | 0.196 | 0.18 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 148 | 147 | 126 | 145 | 137.5 | 142 | 148 | 135 | 136 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 356 | 222 | 360 | 356 | 350 | 383 | 374 | 382 | 376 |
| | Chromium | ND | ND | ND | 0.0104 | ND | 0.0768 | ND | ND | 0.0127 | 0.0021 | 0.021 | **0.127** | 0.0199 | ND | 0.0133 | 0.00631 | ND | ND |
| | Cobalt | 0.0039 | 0.005 | 0.0047 | 0.0063 | 0.0049 | 0.0251 | 0.0052 | 0.0052 | ND | 0.0059 | 0.0111 | 0.0326 | 0.0101 | ND | 0.00694 | 0.00655 | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 68 | 55.1 | 31.5 | 38.9 | 32.9 | 44 | 38.1 | 43 | 36.2 |
| | Copper | 0.0138 | 0.0204 | 0.0082 | 0.0192 | 0.0083 | 0.1077 | 0.0096 | 0.0101 | 0.0117 | 0.0116 | 0.0327 | 0.207 | 0.0444 | 0.00681 | 0.0309 | 0.015 | 0.0158 | 0.00908 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 580 | 560 | 550 | 553 | 552 | 582 | 566 | 582 | 584 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.7 | 29.2 | 111 | 15.5 | 1.05 | 12.2 | 5.07 | 1.17 | 1.4 |
| | Lead | ND | 0.0028 | ND | 0.0048 | ND | **0.0491** | ND | ND | ND | ND | 0.0126 | **0.0503** | **0.0474** | ND | 0.0081 | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 56.6 | 64.4 | 78.8 | 63 | 55.9 | 61.3 | 61.1 | 55.3 | 54.7 |
| | Manganese | 0.3813 | 0.4155 | 0.4181 | 0.4954 | NT | NT | NT | NT | NT | 0.482 | 0.668 | 1.57 | 0.862 | 0.487 | 0.592 | 0.589 | 0.496 | 0.481 |
| | Mercury | ND | ND | ND | ND | ND | 0.0005 | 0.0003 | ND | ND | ND | **0.00286** | 0.00149 | **0.00852** | 0.00087 | 0.00054 | 0.00041 | ND | ND |
| | Nickel | 0.0106 | 0.0126 | 0.0138 | 0.0204 | 0.0139 | 0.0805 | 0.0129 | 0.0129 | 0.02 | 0.0166 | 0.0349 | 0.131 | 0.0245 | 0.0112 | 0.0207 | 0.0184 | 0.0126 | 0.0114 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.6869 | 0.6679 | 0.87 | 0.758 | 0.786 | 0.708 | 0.674 | 0.554 | 0.559 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.62 | 5.69 | | | 5.51 | 5.76 | 5.42 | 6.03 | 5.7 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 4.82 | 6.71 | 28.8 | 6.2 | 4.72 | 7.39 | 5.52 | 6.2 | 4.75 |
| | Selenium | 0.006 | 0.0049 | 0.0118 | 0.0088 | 0.0094 | ND | 0.0095 | 0.0088 | ND | 0.0147 | 0.008 | 0.023 | 0.0201 | 0.0122 | 0.0121 | 0.0151 | 0.0169 | 0.0124 |
| | Silver | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | 0.0088 | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 83.3 | 92 | 70.4 | 80.3 | 81 | 94.3 | 88.7 | 92.2 | 87.3 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1564 | 1571 | | | 1289 | 1600 | 1618 | 1247 | 1537 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 82.9 | 85.1 | 81.7 | 85.7 | 93.7 | 76.8 | 89.6 | 86.5 | 101 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1116 | 1388 | 1784 | 1192 | 960 | 1156 | 1224 | 1124 | 1150 |
| | Thallium | ND | ND | ND | ND | ND | **0.0031** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 21.7 | 533 | 3329 | 3800 | NT | NT | NS | 44.6 | 38.5 |
| | Vanadium | ND | ND | ND | 0.0069 | ND | 0.0724 | ND | ND | ND | ND | 0.0204 | 0.133 | 0.0213 | ND | 0.0148 | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.036 | 0.2789 | 0.031 | 0.0321 | 0.0414 | 0.0414 | 0.0321 | 0.116 | 0.372 | 0.0997 | 0.0213 | 0.0545 | 0.0385 | 0.021 | 0.0208 |

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| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB07 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 163 | 161 | 184 | 175 | 169 | 176 | 172 | 178 | 181 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0658 | 0.0831 | 0.0938 | 0.0172 | 0.0928 | 0.0903 | 0.0511 | 0.0406 | 0.0252 | 0.025 | 0.0414 | 0.0333 | 0.0256 | 0.0257 | 0.0261 | 0.0265 | 0.0338 | 0.0287 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 99.5 | 105 | 102 | 114 | 112.5 | 108 | 113 | 115 | 123 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 150 | 48.8 | 171 | 193 | 194 | 199 | 202 | 222 | 223 |
| | Chromium | ND | ND | ND | ND | ND | 0.0034 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 13.6 | ND | 14 | 5.2 | 11.7 | ND | 11.2 | ND |
| | Copper | ND | 0.0129 | 0.005 | 0.0057 | 0.0053 | 0.0137 | 0.0033 | 0.008 | ND | 0.0062 | 0.0126 | 0.0132 | ND | ND | 0.00909 | 0.00561 | 0.0135 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 331 | 350 | 360 | 407 | 409 | 412 | 410 | 434 | 452 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.262 | 1.07 | 2.14 | 1.08 | 0.659 | 0.957 | 0.837 | 1.78 | 0.564 |
| | Lead | ND | ND | ND | ND | ND | 0.0031 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 26.1 | 29.7 | 28.5 | 35.2 | 34.8 | 33.6 | 33.3 | 33.9 | 37.7 |
| | Manganese | 0.0038 | 0.0232 | 0.0772 | 0.0479 | NT | NT | NT | NT | NT | 0.0317 | 0.281 | 0.221 | 0.0338 | 0.0369 | 0.113 | 0.0724 | 0.0827 | 0.0415 |
| | Mercury | ND | ND | ND | 0.0003 | ND | ND | ND | ND | ND | ND | ND | 0.00028 | 0.00049 | 0.00031 | 0.00029 | 0.00053 | 0.00038 | 0.00039 |
| | Nickel | ND | ND | 0.0022 | ND | 0.0024 | 0.0056 | 0.0022 | ND | ND | 0.0047 | 0.0057 | ND | ND | ND | ND | ND | ND | 0.00568 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.5482 | 0.5966 | 0.658 | 0.861 | 0.819 | 0.8232 | 0.8309 | 0.8996 | 0.96 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.04 | 5.95 | | | 6.34 | 6.55 | 6.17 | 6.74 | 6.41 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.07 | 3.23 | 3.13 | 3.24 | 3.42 | 3.4 | 3.54 | 4.66 | 3.47 |
| | Selenium | ND | ND | 0.0042 | ND | 0.0029 | 0.0054 | 0.0028 | ND | ND | 0.0044 | ND | 0.0058 | 0.0071 | 0.00658 | 0.00506 | 0.00714 | 0.00865 | 0.0064 |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 21.4 | 23.3 | 21.9 | 21.3 | 20.8 | 24.5 | 19.5 | 22.9 | 20.8 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 760 | 828.1 | | | 806.2 | 937.2 | 973.5 | 1115 | 992.5 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 13.4 | 15.2 | 19.2 | 20.4 | 21 | 20.2 | 23 | 24.1 | 24.6 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 644 | 764 | 1068 | 800 | 984 | 708 | 828 | 666 | 724 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.283 | 14.3 | 40.7 | 0.939 | NT | NT | NS | 42.5 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0075 | 0.023 | ND | ND | ND | ND | ND | 0.0126 | 0.0112 | ND | 0.00576 | 0.00575 | 0.00624 | 0.00752 | 0.00539 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB07A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 124 | 92 | 115 | 112 | 115 | 122 | 119 | 112 | 120 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0529 | 0.027 | 0.0616 | 0.0265 | 0.0313 | 0.0506 | 0.0643 | 0.0864 | 0.0419 | 0.0431 | 0.0693 | 0.037 | 0.0401 | 0.0432 | 0.0405 | 0.0485 | 0.045 | 0.0455 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 91.8 | 55.8 | 72 | 86.5 | 90 | 82.9 | 94.3 | 87.3 | 93.6 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 235 | 74.5 | 205 | 216 | 246 | 244 | 265 | 255 | 268 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | 0.0025 | 0.0027 | ND | ND | ND | 0.0059 | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 17.8 | 6.1 | 9.7 | 16.5 | 10 | 16.9 | 15 | 17.3 | 12.8 |
| | Copper | 0.0138 | 0.0129 | 0.0114 | 0.0051 | 0.0055 | 0.0113 | 0.0092 | 0.0116 | ND | 0.0058 | 0.0128 | 0.0078 | ND | ND | 0.00594 | ND | 0.0116 | 0.0055 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 420 | 205 | 350 | 390 | 424 | 408 | 436 | 420 | 448 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.239 | ND | 0.5 | 0.819 | 0.538 | 0.458 | 0.576 | 0.615 | 0.43 |
| | Lead | ND | ND | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 51.2 | 21.7 | 41.6 | 49.3 | 52.5 | 48.3 | 50.2 | 48.9 | 51.9 |
| | Manganese | 0.0237 | 0.2041 | 0.1168 | 0.0692 | NT | NT | NT | NT | NT | 0.0592 | 0.753 | 0.0954 | 0.07 | 0.0716 | 0.0676 | 0.0891 | 0.0753 | 0.0704 |
| | Mercury | 0.0003 | 0.0005 | ND | 0.0009 | 0.0007 | 0.0005 | 0.0005 | 0.0004 | 0.0009 | 0.001 | 0.00026 | 0.00047 | 0.00075 | 0.00056 | 0.00107 | 0.00116 | 0.00068 | 0.00071 |
| | Nickel | 0.0025 | 0.0037 | 0.0044 | 0.0023 | 0.0039 | 0.0059 | 0.0043 | 0.0041 | ND | 0.006 | 0.0099 | ND | ND | ND | ND | 0.00528 | ND | 0.00656 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.8907 | ND | 0.9 | 0.902 | 0.891 | 0.97 | 0.97 | 1 | 1 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.51 | 5.94 | | | 5.6 | 5.86 | 5.81 | 6.05 | 5.7 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.66 | 7.32 | 2.56 | 2.3 | 2.44 | 2.45 | 2.8 | 3.12 | 2.55 |
| | Selenium | ND | ND | 0.0042 | ND | 0.0034 | 0.0044 | 0.0032 | ND | ND | 0.0083 | ND | 0.0064 | 0.0095 | 0.00935 | 0.00589 | 0.00838 | 0.00869 | 0.00894 |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 30.2 | 23.8 | 26.1 | 25.6 | 26.3 | 28.6 | 24.8 | 27.1 | 24.9 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 706.7 | 565.4 | | | 860.9 | 994.7 | 1082 | 1157 | 1016 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 22.4 | 3.38 | 21.6 | 22.6 | 28 | 24.3 | 24.6 | 27.5 | 31 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 784 | 492 | 1176 | 796 | 872 | 748 | 856 | 718 | 774 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.317 | 6.85 | 1.55 | 0.579 | NT | NT | NS | 0 | 0.75 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0065 | 0.0086 | ND | ND | ND | ND | 0.0136 | 0.0079 | 0.00516 | ND | ND | 0.0057 | ND | 0.0066 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB08 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 229 | 245 | 248 | 230 | 230 | 239 | 223 | 224 | 219 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0102 | 0.0159 | 0.0114 | 0.1281 | 0.1163 | 0.1146 | 0.0822 | 0.0288 | 0.1309 | 0.137 | 0.126 | 0.118 | 0.116 | 0.128 | 0.129 | 0.129 | 0.132 | 0.126 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 63.5 | 71.1 | 65.9 | 62.7 | 67.1 | 70.8 | 68.2 | 66.6 | 65.3 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 34.7 | 31.2 | 32.8 | 34.2 | 46.1 | 42.8 | 47.4 | 45.5 | 47.7 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | 0.0084 | 0.0078 | 0.0069 | 0.0034 | ND | ND | 0.0052 | 0.0064 | 0.0064 | 0.007 | 0.00803 | 0.00789 | 0.00841 | 0.00798 | 0.00648 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 4.9 | ND | ND | ND | 9.9 | ND | ND | ND |
| | Copper | 0.0107 | 0.0172 | 0.0073 | 0.0062 | 0.006 | 0.0061 | 0.0045 | 0.008 | ND | 0.0043 | 0.0073 | 0.006 | 0.006 | ND | ND | ND | ND | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 228 | 250 | 300 | 265 | 144 | 236 | 234 | 232 | 230 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.301 | 0.675 | 0.647 | 0.718 | 0.797 | 0.74 | 0.774 | 0.575 | 0.676 |
| | Lead | ND | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 12.9 | 16.6 | 14.9 | 17 | 16.8 | 17.7 | 17 | 15.9 | 16.5 |
| | Manganese | 0.0716 | 0.4195 | 0.2417 | 8.924 | NT | NT | NT | NT | NT | 6.29 | 7.07 | 7.18 | 6.56 | 7.228 | 6.84 | 7.26 | 6.89 | 6 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | ND | 0.0028 | 0.0021 | 0.0081 | 0.0089 | 0.0082 | 0.0039 | ND | ND | 0.0083 | 0.0081 | 0.0083 | 0.0077 | 0.0085 | 0.00877 | 0.0107 | 0.0111 | 0.00755 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.04 | 5.41 | | | 5.85 | 6.22 | 6.04 | 6.54 | 6.18 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.81 | 2.87 | 2.63 | 2.91 | 2.86 | 2.85 | 2.95 | 2.48 | 2.71 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 27.2 | 31.6 | 28 | 28.7 | 27.4 | 28 | 25.4 | 26.3 | 26.4 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 523.1 | 528.2 | | | 476.3 | 559.9 | 566.8 | 603.6 | 516.5 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.54 | 4.91 | 4.83 | ND | ND | 4.76 | 4.11 | 5.27 | 5.68 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 284 | 340 | 384 | 280 | 344 | 348 | 352 | 270 | 392 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.266 | 0.77 | 0.485 | 0.735 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0057 | 0.0039 | 0.0048 | ND | ND | ND | ND | ND | ND | 0.00765 | 0.00658 | 0.00607 | 0.00624 | 0.00571 | 0.00571 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB08A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 228 | 233 | 226 | 220 | 218 | 221 | 216 | 219 | 214 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.299 | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | 0.0026 | 0.003 | 0.0022 | ND | ND | ND | 0.0023 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0057 | 0.0101 | 0.0087 | 0.0974 | 0.1007 | 0.082 | 0.0894 | ND | 0.0669 | 0.0815 | 0.0919 | 0.0779 | 0.099 | 0.0689 | 0.0735 | 0.068 | 0.0674 | 0.0648 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 59.4 | 52.6 | 52.9 | 58.1 | 54.4 | 53.3 | 54.7 | 54.9 | 52.4 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 67.4 | 39.9 | 58.2 | 45.4 | 63.3 | 55.5 | 65.4 | 63.8 | 68 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | 0.0184 | 0.0171 | 0.0177 | 0.0094 | ND | 0.0167 | 0.0186 | 0.0135 | 0.0175 | 0.0146 | 0.0173 | 0.0171 | 0.0189 | 0.0189 | 0.0161 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 39.2 | 5.3 | 10.2 | ND | 8.6 | ND | ND | ND |
| | Copper | 0.0127 | 0.0104 | 0.0078 | 0.0083 | 0.0059 | 0.0058 | 0.0041 | 0.0061 | ND | 0.0051 | 0.0067 | 0.0061 | 0.006 | ND | 0.00802 | ND | ND | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 570 | 330 | 300 | 370 | 190 | 252 | 240 | 230 | 240 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.85 | 3.33 | 3.35 | 3.69 | 3.05 | 3.44 | 3.93 | 3.38 | 3.94 |
| | Lead | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 23.2 | 19.2 | 19.3 | 20.3 | 22 | 21.8 | 21.8 | 21.8 | 21.6 |
| | Manganese | 0.0218 | 0.1302 | 0.2202 | 9.787 | NT | NT | NT | NT | NT | 8.16 | 7.9 | 8.23 | 8.57 | 7.484 | 7.53 | 8.27 | 8.12 | 7.16 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | ND | 0.0021 | 0.0026 | 0.0106 | 0.0088 | 0.0083 | 0.0054 | 0.0095 | ND | 0.0095 | 0.0068 | 0.0079 | 0.0071 | 0.00745 | 0.00751 | 0.01 | 0.00968 | 0.00718 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.65 | 5.49 | | | 5.96 | 6.07 | 5.87 | 6.39 | 6.01 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.82 | 2.73 | 2.52 | 2.77 | 2.8 | 2.79 | 2.99 | 2.85 | 2.91 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 37 | 34.7 | 31.7 | 30.8 | 31.8 | 32.9 | 30.7 | 30.7 | 30.1 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 579.9 | 541.9 | | | 502.5 | 579.1 | 600.1 | 649.1 | 547.9 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.85 | 3.04 | 5.74 | ND | ND | ND | ND | ND | 4.39 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 352 | 336 | 384 | 340 | 1240 | 364 | 364 | 288 | 388 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.69 | 3.8 | 0.528 | 1.36 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0083 | 0.0051 | 0.0045 | ND | ND | ND | ND | ND | ND | 0.0078 | 0.00676 | 0.0101 | 0.00749 | 0.00596 | 0.00704 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB10 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 110 | 83 | 134 | 116 | 122 | 119 | 133 | 116 | 139 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | 0.004 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0375 | 0.0379 | 0.03 | 0.0778 | 0.0366 | 0.0491 | 0.0321 | 0.0416 | 0.0401 | 0.0468 | 0.049 | 0.0553 | 0.0531 | 0.0534 | 0.0569 | 0.0573 | 0.0562 | 0.0763 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 38.6 | 37.7 | 43.4 | 39.8 | 45.8 | 48.1 | 50.1 | 45 | 55.8 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 82.4 | 53.3 | 83.6 | 89 | 94.1 | 100 | 121 | 120 | 136 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | 0.0026 | 0.0029 | ND | 0.0035 | ND | 0.0041 | 0.0022 | ND | ND | 0.0029 | ND | 0.0059 | ND | ND | 0.00519 | 0.00809 | 0.00674 | 0.00837 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 7.5 | 10.3 | ND | ND | 7.5 | ND | ND | ND |
| | Copper | ND | ND | 0.008 | 0.0083 | 0.0079 | 0.0082 | 0.0041 | 0.0066 | 0.0063 | 0.006 | 0.0179 | 0.0057 | ND | ND | ND | ND | 0.0109 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 160 | 161 | 230 | 230 | 226 | 210 | 244 | 234 | 278 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.598 | 1.9 | 1.28 | 0.783 | 1.12 | 0.975 | 1.63 | 1.14 | 1.75 |
| | Lead | ND | ND | ND | 0.0021 | ND | 0.0031 | ND | ND | ND | ND | 0.0085 | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 19.4 | 18.1 | 24 | 24.9 | 27.8 | 25.8 | 28.1 | 25.1 | 34.4 |
| | Manganese | 1.9194 | 2.04 | ND | 2.376 | NT | NT | NT | NT | NT | 2.63 | 1.31 | 3.47 | 2.68 | 3.03 | 3.15 | 4.31 | 3.66 | 5.2 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0048 | 0.0051 | 0.0056 | 0.008 | 0.0057 | 0.0066 | 0.0049 | 0.0061 | 0.0049 | 0.0079 | 0.0104 | 0.0079 | 0.0063 | 0.00682 | 0.00887 | 0.0115 | 0.0107 | 0.0113 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 0.008 | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.3 | 5.98 | | | 5.8 | 6.05 | 5.49 | 6.2 | 6.12 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.81 | 2.94 | 2.65 | 3.28 | 3 | 3.02 | 3.32 | 3.44 | 2.98 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 19 | 20.3 | 20.3 | 18.4 | 19.6 | 18.2 | 18.3 | 19.8 | 20.8 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 413.6 | 423.9 | | | 446.8 | 544.8 | 623.9 | 654 | 636.8 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 368 | 364 | 552 | 456 | 492 | 480 | 396 | 440 | 434 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.09 | 21.1 | 1.16 | 0.443 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.023 | 0.0198 | 0.0087 | ND | 0.0107 | ND | 0.0226 | 0.00595 | 0.00573 | 0.00698 | 0.00662 | 0.00705 | 0.00562 | 0.00811 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB102 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1140 | 960 | 1100 | 1008 | 1000 | 1056 | 1060 | 1110 | 1080 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 11.2 | 12.4 | 8.98 | 11.1 | 11.1 | 11.6 | 12 | 14 | 13.3 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | 0.0042 | 0.0061 | 0.0057 | **0.0196** | 0.0063 | 0.0061 | ND | 0.0065 | ND | 0.0068 | 0.0061 | 0.00581 | ND | ND | **0.0112** | 0.00523 |
| | Barium | 0.3498 | 0.3393 | 0.3277 | 0.3264 | 0.3338 | 0.7682 | 0.3156 | 0.3331 | 0.4215 | 0.385 | 0.374 | 0.342 | 0.349 | 0.344 | 0.355 | 0.349 | 0.404 | 0.347 |
| | Beryllium | ND | ND | ND | ND | ND | **0.008** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 116 | 113 | 114 | 124 | 119.7 | 115 | 120 | 118 | 116 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 560 | 128 | 577 | 578 | 564 | 602 | 588 | 558 | 543 |
| | Chromium | 0.0024 | 0.0043 | 0.0029 | 0.0026 | 0.0035 | **0.1373** | 0.0033 | 0.0088 | ND | 0.0105 | 0.0102 | ND | ND | ND | ND | 0.00622 | 0.014 | ND |
| | Cobalt | 0.0991 | 0.1041 | 0.0894 | 0.1094 | 0.0873 | 0.2586 | 0.0821 | 0.0876 | 0.085 | 0.0925 | 0.089 | 0.0842 | 0.0764 | 0.0724 | 0.0734 | 0.0729 | 0.0852 | 0.0704 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 262 | 250 | 252 | 235 | 237 | 227 | 242 | 235 | 126 |
| | Copper | 0.0384 | 0.211 | 0.0543 | 0.0437 | 0.0557 | **1.8022** | 0.0638 | 0.088 | 0.1301 | 0.136 | 0.0793 | 0.0908 | 0.0483 | 0.0449 | 0.0505 | 0.0485 | 0.071 | 0.0709 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 810 | 158 | 900 | 775 | 701 | 640 | 700 | 686 | 696 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 8.95 | 9.66 | 3.55 | 1.69 | 0.798 | 0.945 | 1.01 | 1.93 | 2.03 |
| | Lead | ND | 0.0046 | 0.0022 | ND | ND | **0.0806** | ND | 0.0055 | ND | 0.0043 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 94.8 | 98.7 | 94.3 | 102 | 98.4 | 97.4 | 97.4 | 104 | 96.9 |
| | Manganese | 25.835 | 24.56 | ND | NT | NT | NT | NT | NT | NT | 22.2 | 20.7 | 21.8 | 23.5 | 20.9 | 21.2 | 21.7 | 20.2 | 20.1 |
| | Mercury | ND | ND | ND | ND | ND | 0.0006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.09 | 0.0767 | 0.0913 | 0.087 | 0.0942 | 0.2651 | 0.0908 | 0.0871 | 0.1029 | 0.118 | 0.0966 | 0.101 | 0.092 | 0.0909 | 0.0925 | 0.0962 | 0.113 | 0.0907 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.26 | 5.95 | | | 6.42 | 6.64 | 6.29 | 6.86 | 6.41 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 37.2 | 41.7 | 37.8 | 39.8 | 40.4 | 39.9 | 41.4 | 47.4 | 46.7 |
| | Selenium | 0.0092 | 0.0093 | 0.0127 | 0.0185 | 0.0179 | 0.036 | 0.0186 | 0.0152 | 0.0167 | 0.0256 | 0.0134 | 0.0256 | 0.0237 | 0.0224 | 0.017 | 0.0176 | 0.0411 | 0.0188 |
| | Silver | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 613 | 549 | 500 | 561 | 550 | 532 | 586 | 558 | 483 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3522 | 3493 | | | 3010 | 3558 | 3612 | 3298 | 3303 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 71.9 | 71.5 | 57.4 | 74.3 | 74.4 | 55.4 | 55.2 | 48.1 | 44.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2120 | 2172 | 2252 | 2308 | 2244 | 2268 | 2236 | 2146 | 2158 |
| | Thallium | ND | ND | ND | ND | ND | **0.0087** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 191 | 202 | 71.4 | 23.7 | NT | NT | NS | 58.9 | 84.5 |
| | Vanadium | ND | 0.0047 | ND | ND | 0.003 | 0.1443 | ND | 0.0105 | ND | 0.0104 | 0.0124 | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.021 | 1.254 | 0.0248 | 0.0424 | 0.0776 | 0.0464 | 0.0402 | 0.0224 | 0.0135 | 0.0127 | 0.013 | 0.0129 | 0.0206 | 0.0196 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB105 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 810 | 1710 | 600 | 728 | 494 | 51 | 522 | 770 | 50 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 12.4 | 61.8 | 5.02 | 25.1 | 4.4 | 16.3 | 3.48 | 13.1 | 4.61 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | 0.007 | 0.0023 | 0.0058 | 0.0027 | 0.0041 | 0.0057 | 0.0064 | 0.0044 | ND | **0.012** | 0.005 | **0.0109** | ND | ND | **0.0147** | **0.009** | 0.00942 | 0.00577 |
| | Barium | 0.512 | 0.2067 | 0.2254 | 0.208 | 0.2161 | 0.166 | 0.256 | 0.1682 | 0.466 | 0.304 | 0.408 | 0.258 | 0.218 | 0.157 | 0.601 | 0.138 | 0.233 | 0.144 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0026 | ND | ND | ND | ND | **0.0112** | ND | ND | ND |
| | Cadmium | ND | ND | **0.0079** | **0.0125** | NT | NT | NT | NT | NT | 0.0047 | ND | ND | ND | ND | **0.0109** | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 156 | 124 | 165 | 92.2 | 170 | 160 | 167 | 168 | 169 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 328 | 265 | 334 | 219 | 309 | 356 | 337 | 334 | 318 |
| | Chromium | 0.0051 | 0.0027 | 0.0028 | 0.0024 | ND | 0.0057 | 0.0044 | ND | ND | 0.0717 | 0.0075 | 0.0808 | 0.0106 | 0.0184 | **0.166** | **0.0236** | 0.0434 | 0.0235 |
| | Cobalt | 0.0146 | 0.007 | 0.0077 | 0.0054 | 0.0073 | 0.0116 | 0.012 | 0.0077 | 0.0108 | 0.101 | 0.0129 | 0.196 | 0.0202 | 0.0345 | 0.2 | 0.0316 | 0.054 | 0.0306 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 173 | 258 | 207 | 92.4 | 83.4 | 140 | 61.5 | 93.4 | 56.2 |
| | Copper | 0.0156 | 0.0654 | 0.0148 | 0.0103 | 0.0094 | 0.0217 | 0.0184 | 0.012 | 0.0134 | 0.112 | 0.0218 | 0.173 | 0.0277 | 0.0237 | 0.293 | 0.0417 | 0.0906 | 0.0415 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 900 | 870 | 950 | 576 | 866 | 960 | 908 | 924 | 940 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 85.3 | 31.2 | 110 | 17.1 | 19.96 | 253 | 26.7 | 50.7 | 24.7 |
| | Lead | ND | 0.0033 | 0.0033 | ND | ND | 0.0033 | 0.0021 | ND | ND | **0.0268** | ND | **0.0332** | ND | 0.015 | **0.0726** | **0.0155** | **0.0164** | 0.0104 |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 129 | 152 | 132 | 96.5 | 132 | 168 | 116 | 139 | 127 |
| | Manganese | 2.1005 | 2.237 | ND | 1.481 | NT | NT | NT | NT | NT | 3.58 | 1.97 | 3.76 | 1.68 | 2.66 | 6.03 | 3.07 | 4.65 | 3.53 |
| | Mercury | **0.0108** | ND | ND | ND | ND | 0.0004 | ND | ND | ND | **0.0038** | ND | **0.003** | 0.00026 | 0.00101 | **0.00645** | **0.00173** | 0.00084 | 0.00096 |
| | Nickel | 0.0145 | 0.0141 | 0.0111 | 0.0103 | 0.0091 | 0.02 | 0.0142 | 0.0143 | 0.0116 | 0.174 | 0.0164 | 0.228 | 0.0258 | 0.053 | 0.283 | 0.0691 | 0.0994 | 0.0734 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | 0.99 | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.81 | 6.33 | | | 6.18 | 6.55 | 5.75 | 6.61 | 6.34 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 35.7 | 136 | 19.3 | 61.3 | 15 | 58.6 | 12.9 | 33.3 | 15.4 |
| | Selenium | 0.007 | 0.0044 | 0.0135 | 0.004 | 0.0087 | 0.012 | 0.0119 | 0.01 | 0.013 | 0.0193 | 0.0091 | 0.0214 | 0.0102 | 0.00977 | 0.0198 | 0.0225 | 0.0276 | 0.0157 |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 286 | 468 | 174 | 202 | 183.57 | 226 | 167 | 279 | 184 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3384 | 3886 | | | 1963 | 3025 | 2414 | 2960 | 2224 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 346 | 105 | 309 | 139 | 314 | 312 | 289 | 240 | 299 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1736 | 2400 | 1876 | 1320 | 1872 | 1776 | 1628 | 1784 | 1606 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1215 | 338 | 3430 | 240 | NT | NT | NS | 1721 | 728 |
| | Vanadium | 0.006 | 0.0037 | 0.0023 | ND | ND | 0.0077 | 0.0042 | ND | ND | 0.0789 | 0.0096 | 0.136 | 0.0194 | 0.0331 | 0.363 | 0.0492 | 0.0811 | 0.0362 |
| | Zinc | NT | NT | NT | NT | 0.0175 | 0.0799 | 0.1131 | 0.0352 | 0.0501 | 0.556 | 0.031 | 0.765 | 0.153 | 0.15 | 0.975 | 0.252 | 0.263 | 0.157 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB11 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 201 | 165 | 200 | 211 | 215 | 217 | 219 | 221 | 228 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | 0.0055 | ND | ND | ND | 0.0021 | ND | 0.0024 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.1537 | 0.0559 | 0.0535 | 0.0229 | 0.0258 | 0.032 | 0.0267 | 0.0331 | 0.0286 | 0.0272 | 0.0515 | 0.0261 | 0.0301 | 0.0292 | 0.0295 | 0.0282 | 0.0299 | 0.0289 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | 0.0036 | 0.0023 | **0.0056** | **0.0099** | NT | NT | NT | NT | NT | **0.0088** | **0.0058** | **0.009** | **0.01** | **0.0101** | **0.0104** | **0.0104** | **0.011** | **0.0103** |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 126 | 108 | 133 | 134 | 132.3 | 132 | 133 | 132 | 135 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 330 | 393 | 358 | 259 | 371 | 407 | 398 | 397 | 392 |
| | Chromium | ND | ND | ND | 0.0027 | ND | 0.0037 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | 0.0452 | ND | ND | ND | ND | 0.0036 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 27.5 | 28.2 | 29 | 32.5 | 22.4 | 32.8 | 24 | 37.8 | 22.5 |
| | Copper | 0.0164 | 0.0112 | 0.009 | 0.0091 | 0.0083 | 0.0069 | 0.0063 | 0.0062 | ND | 0.0083 | 0.0072 | 0.0112 | 0.0078 | 0.0064 | 0.00894 | 0.00814 | 0.0153 | 0.00834 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 550 | 510 | 600 | 563 | 581 | 596 | 592 | 576 | 606 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.454 | 0.84 | 1.22 | 1.27 | 0.738 | 0.726 | 0.656 | 0.674 | 0.638 |
| | Lead | 0.0028 | 0.0026 | 0.0023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 60.1 | 59.1 | 67.9 | 66.6 | 66.6 | 67.4 | 64.4 | 68.9 | 67 |
| | Manganese | 5.365 | 0.6313 | 0.5976 | 0.8841 | NT | NT | NT | NT | NT | 0.862 | 0.7 | 0.884 | 0.869 | 0.768 | 0.758 | 0.858 | 0.793 | 0.76 |
| | Mercury | 0.0004 | 0.0008 | 0.0019 | **0.003** | **0.0031** | 0.0007 | **0.0022** | 0.0005 | 0.0019 | **0.0022** | 0.00191 | **0.00254** | 0.00165 | 0.00102 | 0.00098 | 0.00118 | 0.00136 | 0.00106 |
| | Nickel | 0.0382 | 0.0176 | 0.0178 | 0.0292 | 0.0279 | 0.0276 | 0.0249 | 0.0207 | 0.0275 | 0.0361 | 0.0216 | 0.0375 | 0.0331 | 0.0333 | 0.0339 | 0.0411 | 0.0354 | 0.033 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.69 | 5.03 | | | 5.35 | 5.41 | 5.31 | 5.81 | 5.41 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 4.56 | 8.25 | 4.9 | 4.82 | 4.7 | 5.13 | 5.19 | 5.45 | 5.17 |
| | Selenium | 0.0034 | ND | ND | ND | 0.0036 | 0.0043 | 0.0029 | ND | ND | 0.0049 | ND | 0.0078 | 0.0061 | 0.00568 | ND | 0.011 | 0.00674 | 0.00545 |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 56.7 | 59.9 | 68.8 | 67.9 | 68.5 | 68 | 68 | 75.8 | 71.3 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1339 | 1340 | | | 1302 | 1559 | 1601 | 1774 | 1539 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 8.96 | 8.47 | 9.53 | 9.48 | 10.2 | 11.2 | 10.3 | 10.5 | 12.2 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1208 | 1152 | 1416 | 1116 | 1036 | 1404 | 1212 | 1018 | 1122 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | Nt | Nt | Nt | Nt | Nt | Nt | Nt | Nt | Nt | 1.16 | 3.65 | 5.75 | 0.733 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0389 | 0.04 | 0.0427 | 0.038 | 0.0508 | 0.0508 | 0.0432 | 0.0309 | 0.0426 | 0.043 | 0.042 | 0.0453 | 0.0462 | 0.0442 | 0.0413 |

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| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB11A | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 270 | 282 | 280 | 292 | 285 | 279 | 288 | 298 | 302 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.222 | 0.817 | 1.7 | 2.11 | 1.59 | 1.11 | 1.25 | 1.79 | 1.18 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | 0.0027 | ND | ND | ND | 0.0072 | 0.0031 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0603 | 0.1653 | 0.1678 | 0.1785 | 0.1767 | 0.1365 | 0.1441 | 0.1335 | 0.1616 | 0.151 | 0.174 | 0.182 | 0.957 | 0.166 | 0.183 | 0.165 | 0.191 | 0.165 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0102** | ND | ND | ND | ND | ND |
| | Cadmium | **0.0076** | **0.0051** | 0.005 | ND | NT | NT | NT | NT | NT | 0.0025 | **0.0101** | ND | **0.0059** | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 99 | 92.5 | 89.8 | 84.7 | 93.5 | 93.4 | 91.4 | 85.3 | 99.6 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 310 | 262 | 290 | 211 | 297 | 300 | 312 | 282 | 327 |
| | Chromium | ND | ND | ND | ND | ND | 0.0024 | ND | ND | 0.0102 | ND | ND | ND | 0.0321 | ND | ND | ND | ND | ND |
| | Cobalt | 0.0022 | 0.0437 | 0.0411 | 0.036 | 0.0664 | 0.0239 | 0.0361 | 0.0332 | 0.0204 | 0.036 | 0.0777 | 0.0337 | 0.144 | 0.025 | 0.025 | 0.0271 | 0.024 | 0.0256 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 30.8 | 32.3 | 30 | 33.7 | 21.6 | 30.4 | 17.8 | 26.5 | 23.1 |
| | Copper | 0.016 | 0.0232 | 0.0149 | 0.0076 | 0.0092 | 0.0108 | 0.0088 | 0.0109 | 0.0119 | 0.0103 | 0.0209 | 0.0102 | 0.17 | 0.00569 | 0.00569 | 0.00646 | 0.0143 | 0.00649 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 540 | 500 | 660 | 524 | 598 | 500 | 508 | 466 | 516 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.61 | 4.65 | 1.33 | 48.4 | 1.01 | 1.05 | 1.07 | 1.08 | 1.19 |
| | Lead | 0.0026 | 0.003 | 0.0031 | ND | ND | 0.0079 | ND | ND | ND | ND | 0.0059 | ND | **0.0723** | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 69.2 | 64.2 | 67 | 55 | 68.6 | 69.9 | 64.8 | 65.7 | 70.6 |
| | Manganese | 0.8988 | 5.408 | 6.8885 | 4.922 | NT | NT | NT | NT | NT | 5.23 | 7.39 | 6.38 | 13.1 | 5.83 | 6.29 | 6.14 | 6.82 | 7.21 |
| | Mercury | 0.0019 | 0.0003 | ND | 0.0003 | 0.0005 | 0.0014 | 0.0008 | 0.0005 | 0.0009 | ND | **0.00232** | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0182 | 0.0343 | 0.0382 | 0.0236 | 0.0228 | 0.0306 | 0.0285 | 0.0269 | 0.0376 | 0.0299 | 0.0306 | 0.0232 | 0.0701 | 0.0222 | 0.0192 | 0.0266 | 0.0203 | 0.0236 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.01 | 5.28 | | | 5.49 | 5.59 | 5.36 | 6 | 5.61 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.71 | 7.17 | 6.81 | 13.7 | 6.83 | 6.41 | 6.84 | 7.39 | 6.78 |
| | Selenium | ND | 0.0022 | 0.0022 | ND | 0.0029 | 0.0067 | 0.0022 | ND | ND | 0.0048 | ND | 0.0062 | 0.0185 | ND | ND | 0.00713 | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 107 | 97.5 | 101 | 38.5 | 99.8 | 99.4 | 95.1 | 99.5 | 102 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1444 | 1363 | | | 1227 | 1405 | 1499 | 1552 | 1481 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 12.6 | 14.9 | 18.4 | 17 | 15 | 15.8 | 15.7 | 16.6 | 15.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1192 | 1032 | 1068 | 908 | 304 | 1048 | 904 | 830 | 936 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | Nt | Nt | Nt | Nt | Nt | Nt | Nt | Nt | Nt | 1.97 | 19.4 | 3.31 | 0.83 | NT | NT | NS | 0 | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0919 | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0193 | 0.0229 | 0.0219 | 0.025 | 0.0305 | 0.0305 | 0.0249 | 0.025 | 0.0218 | 0.267 | 0.021 | 0.0211 | 0.0223 | 0.0206 | 0.0192 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB12 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 110 | 100 | 108 | 44 | 106 | 116 | 113 | 119 | 126 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.142 | 0.0989 | 0.0431 | 0.036 | 0.0565 | 0.0146 | 0.0228 | ND | 0.0298 | 0.0186 | 0.0211 | 0.0153 | 0.0211 | 0.0173 | 0.0174 | 0.018 | 0.0194 | 0.0178 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 33.3 | 39 | 32.3 | 34.1 | 33 | 38.3 | 26.5 | 36.7 | 33.8 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 69.9 | 83.9 | 65.8 | 80.1 | 62.7 | 76.9 | 66.4 | 79 | 70.5 |
| | Chromium | 0.0024 | ND | ND | 0.0104 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 12.1 | 7.4 | 6.9 | ND | 8.1 | ND | 21 | ND |
| | Copper | 0.0145 | 0.0215 | 0.0102 | 0.0151 | 0.0048 | 0.009 | 0.0055 | 0.007 | ND | 0.0061 | 0.0062 | 0.0068 | ND | ND | 0.00512 | ND | 0.0102 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 165 | 189 | 162 | 182 | 153 | 194 | 160 | 178 | 178 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.368 | ND | 0.228 | ND | ND | ND | ND | 0.2 | ND |
| | Lead | ND | 0.0032 | 0.0032 | 0.0046 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 19.7 | 23.4 | 19.8 | 27 | 20.6 | 24.5 | 16.1 | 23.4 | 20.2 |
| | Manganese | 1.03 | 0.6074 | 0.2305 | 0.1681 | NT | NT | NT | NT | NT | 0.102 | 0.131 | 0.107 | 0.106 | 0.108 | 0.114 | 0.119 | 0.105 | 0.118 |
| | Mercury | 0.0006 | 0.0004 | 0.0005 | 0.0011 | ND | 0.0015 | 0.0007 | ND | ND | 0.0003 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0058 | 0.0069 | 0.0065 | 0.0156 | 0.0035 | 0.0062 | 0.0064 | 0.0066 | ND | 0.0089 | 0.0101 | 0.0102 | 0.0084 | 0.00652 | 0.00911 | 0.00856 | 0.00787 | 0.00692 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.622 | 2.25 | 1.377 | 1.59 | 1.14 | 1.26 | 0.99 | 1.02 | 0.87 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.84 | 6.14 | | | 5.46 | 5.51 | 5.29 | 5.81 | 5.53 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3 | 3.04 | 2.32 | 3.24 | 2.69 | 3.26 | 2.97 | 3.33 | 2.88 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 24.5 | 27.8 | 25.4 | 27.9 | 22.8 | 30 | 18.2 | 28.4 | 21.2 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 481.7 | 511.8 | | | 421.1 | 497.1 | 417.9 | 545.7 | 436.3 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.14 | 14.9 | 7.13 | 4.78 | 5.57 | 12 | 4.58 | 13.4 | 5.79 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 308 | 400 | 408 | 120 | 296 | 340 | 312 | 236 | 364 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.49 | 5.15 | 0.328 | 0.167 | NT | NT | NS | 0 | 1.26 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.013 | 0.0478 | 0.0222 | 0.0236 | 0.0125 | ND | 0.0134 | 0.00773 | 0.00765 | 0.00631 | 0.00533 | 0.0082 | 0.00511 | 0.00586 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB15 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 242 | 93 | 230 | 74 | 228 | 51 | 226 | 33 | 151 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.646 | 0.228 | 0.29 | ND | 0.307 | ND | 0.274 | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | 0.0031 | ND | ND | **0.0366** | ND | ND | ND | ND | ND | 0.0069 | ND | ND | ND | ND | ND | 0.007 | ND | ND |
| | Barium | 0.3716 | 0.0852 | 0.0991 | 0.3997 | 0.0364 | 0.2282 | 0.0856 | 0.1015 | 0.0881 | 0.119 | 0.0902 | 0.0785 | 0.0857 | 0.0919 | 0.0722 | 0.0923 | 0.0709 | 0.0624 |
| | Beryllium | 0.0039 | ND | ND | **0.0088** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | **0.0099** | NT | NT | NT | NT | NT | 0.0042 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 29.5 | 20.3 | 18 | 14.8 | 21.6 | 16.5 | 18.3 | 12.9 | 16.8 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.16 | 3.48 | 7.73 | 4.61 | 10 | 3.95 | 11.9 | 4.73 | 10.8 |
| | Chromium | **0.1041** | ND | 0.009 | **0.3214** | ND | 0.0521 | ND | ND | ND | 0.019 | ND | ND | 0.0053 | ND | ND | 0.0114 | ND | ND |
| | Cobalt | 0.0583 | 0.0219 | 0.0163 | 0.2322 | ND | 0.0599 | 0.0095 | ND | 0.0134 | 0.0273 | 0.0099 | ND | 0.0072 | 0.00621 | ND | 0.0165 | ND | 0.0116 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 49.3 | 11.1 | 11.2 | ND | 27.3 | ND | 17.8 | ND | ND |
| | Copper | 0.0416 | 0.0153 | 0.0267 | 0.5593 | 0.0061 | 0.1171 | 0.0067 | 0.0059 | ND | 0.0475 | 0.0103 | 0.0083 | 0.0119 | 0.0094 | 0.00664 | 0.0408 | 0.01 | 0.00585 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 600 | 270 | 165 | 114 | 156 | 140 | 120 | 94 | 120 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 54.9 | 16 | 27.3 | 9.24 | 39.4 | 6.6 | 47.8 | 2.85 | 17.3 |
| | Lead | **0.0242** | ND | 0.0088 | **0.1747** | ND | **0.0409** | ND | ND | ND | **0.017** | ND | ND | ND | ND | ND | 0.00794 | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 23.2 | 24.5 | 17.4 | 22 | 21.6 | 21.3 | 17.4 | 16 | 17.3 |
| | Manganese | 6.422 | 4.44 | ND | 9.2235 | NT | NT | NT | NT | NT | 5.73 | 4.5 | 3.87 | 1.78 | 3.27 | 1.28 | 2.5 | 0.163 | 1.1 |
| | Mercury | ND | ND | ND | 0.0003 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.1422 | 0.0197 | 0.0259 | 0.4895 | 0.0086 | 0.112 | 0.0084 | 0.0072 | 0.0157 | 0.0473 | 0.0178 | 0.0098 | 0.0149 | 0.00599 | 0.015 | 0.0235 | 0.0141 | 0.00799 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | 0.008 | ND | ND | ND | ND | 0.292 | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.01 | 6.62 | | | 6.15 | 5.5 | 5.7 | 5.78 | NM |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.15 | 2.3 | 2.18 | 2.29 | 2.46 | 2.12 | 2.32 | 2.04 | 2.07 |
| | Selenium | 0.0134 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 35 | 14.5 | 53.3 | 36.1 | 59.1 | 29.2 | 62.5 | 26.1 | 50.6 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 576.4 | 368.7 | | | 535.4 | 323.1 | 521.8 | 329 | NM |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 78.6 | 78.1 | 56.5 | 78.9 | 49.2 | 93.2 | 37.9 | 92.8 | 63.3 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 328 | 252 | 324 | 420 | 528 | 272 | 308 | 184 | 244 |
| | Thallium | ND | ND | ND | **0.0024** | ND | **0.0024** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 125 | 53.8 | 25.4 | 96.8 | NT | NT | NS | 46.8 | NM |
| | Vanadium | 0.039 | ND | 0.0032 | 0.1477 | ND | 0.0282 | ND | ND | ND | 0.0052 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | 0.0081 | 1.2155 | 0.022 | 0.021 | 0.0955 | 0.0955 | 0.698 | 0.0329 | 0.0212 | 0.0544 | 0.0668 | 0.0966 | 0.397 | 0.136 | 0.0516 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location OB25 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 423 | 416 | 472 | 282 | 267 | 249 | 374 | 268 | 387 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.57 | 0.771 | 3.69 | 0.629 | 1.91 | 0.731 | 2.31 | ND | 2.94 |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | 0.004 | ND | ND | ND | ND | 0.0024 | ND | ND | 0.0037 | **0.012** | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0817 | 0.2081 | 0.0658 | 0.0794 | 0.0832 | 0.1065 | 0.1388 | 0.1179 | 0.1126 | 1.31 | 0.445 | 0.192 | 0.195 | 0.163 | 0.146 | 0.631 | 0.0769 | 0.175 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | **0.0137** | **0.0057** | ND | ND | ND | ND | 0.00617 | ND | ND |
| | Cadmium | ND | 0.0024 | ND | ND | NT | NT | NT | NT | NT | **0.0174** | **0.0072** | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 111 | 89.9 | 90.2 | 92.7 | 65.1 | 73.3 | 89.5 | 56.2 | 91.2 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 156 | 183 | 173 | 62.3 | 86.6 | 73.5 | 158 | 59.5 | 175 |
| | Chromium | ND | 0.0652 | ND | ND | ND | 0.0046 | 0.0089 | ND | ND | **0.105** | **0.141** | 0.0193 | ND | ND | 0.0297 | 0.0174 | 0.00811 | 0.0117 |
| | Cobalt | 0.0166 | 0.0865 | 0.0119 | 0.0157 | 0.0187 | 0.0229 | 0.0329 | 0.027 | 0.0241 | 0.418 | 0.272 | 0.0532 | 0.0244 | 0.0285 | 0.0393 | 0.122 | 0.00673 | 0.0373 |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1080 | 79.4 | 90 | 107 | 19.6 | 18.6 | 23.5 | 21.6 | 17.2 |
| | Copper | 0.0137 | 0.0774 | 0.0085 | 0.0075 | 0.0065 | 0.0083 | 0.0146 | 0.0065 | ND | 0.364 | 0.188 | 0.0302 | 0.0062 | 0.0168 | 0.0374 | 0.143 | 0.0194 | 0.0153 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 740 | 520 | 750 | 450 | 292 | 356 | 500 | 316 | 490 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 239 | 210 | 29.9 | 1.32 | 5.73 | 31.7 | 25.9 | 4.68 | 17 |
| | Lead | ND | **0.026** | 0.0021 | ND | ND | ND | 0.0026 | ND | ND | **0.148** | **0.0358** | ND | ND | 0.0137 | 0.00771 | 0.0269 | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 82.8 | 109 | 71.6 | 70.2 | 44.2 | 57.7 | 62.4 | 41.5 | 69 |
| | Manganese | 11.562 | 15.005 | 10.264 | 9.249 | NT | NT | NT | NT | NT | 55.8 | 33.5 | 24.2 | 6.86 | 10.52 | 7.21 | 20.7 | 0.818 | 18.2 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0003 | ND | ND | 0.00142 | ND | 0.00129 | 0.00052 | ND | 0.00022 |
| | Nickel | 0.0109 | 0.0872 | 0.009 | 0.0097 | 0.0113 | 0.0161 | 0.0215 | 0.0128 | 0.0127 | 0.226 | 0.281 | 0.0506 | 0.0183 | 0.0128 | 0.0467 | 0.062 | 0.0129 | 0.0256 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.6782 | 2.31 | ND | 1.33 | ND | ND | ND | 0.606 | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.19 | 5.51 | | | 8.7 | 7 | 5.98 | 7.16 | 6.12 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 17.6 | 15.9 | 16.6 | 7.24 | 14.3 | 10.7 | 16.8 | 9.22 | 16.4 |
| | Selenium | ND | 0.0053 | ND | ND | ND | 0.0023 | ND | ND | ND | 0.0364 | 0.0172 | 0.0059 | ND | ND | 0.00523 | 0.00877 | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 84 | 76.6 | 88.9 | 100 | 54.3 | 43.9 | 69 | 39 | 83.5 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1301 | 1340 | | | NT | 627.7 | 931.1 | 394.5 | 807.1 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 71.8 | 75.3 | 67 | 32.1 | 39.7 | 44.1 | 61.8 | 39.6 | 65 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 888 | 916 | 916 | 532 | 252 | 568 | 756 | 454 | 838 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10100 | 3870 | 357 | 15050 | NT | NT | NS | 51 | 153 |
| | Vanadium | ND | 0.0629 | ND | ND | ND | ND | 0.0087 | ND | ND | 0.156 | 0.129 | 0.0141 | ND | 0.00768 | 0.0236 | 0.0452 | 0.00766 | 0.00998 |
| | Zinc | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.95 | 1.09 | 0.109 | 0.0216 | 0.0256 | 0.112 | 0.13 | 0.0196 | 0.04 |

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| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location ST15 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 80 | 115 | 79 | 98 | 31 | 99 | 38 | 68 | 29 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.239 | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0451 | 0.0511 | 0.0468 | 0.0502 | 0.0481 | 0.0545 | 0.0454 | NT | 0.0786 | 0.0588 | 0.0596 | 0.0681 | 0.029 | 0.0197 | 0.0367 | 0.0197 | 0.063 | 0.0165 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 33.4 | 36.7 | 32.5 | 27.4 | 10.3 | 31.2 | 14.4 | 31.1 | 11.4 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 58.2 | 102 | 67.7 | 38.1 | 5.32 | 157 | 13.1 | 75.3 | 10.2 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | NT | 0.0041 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | NT | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 7.2 | 6.7 | 24.8 | 14.1 | 22.8 | 14.5 | ND | ND |
| | Copper | 0.0159 | ND | 0.0074 | 0.0055 | 0.0059 | 0.0076 | 0.005 | NT | 0.0139 | 0.0058 | 0.0085 | 0.0077 | 0.0062 | ND | 0.00811 | ND | 0.00576 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 160 | 180 | 160 | 95 | 29 | 122 | 48 | 124 | 36 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.372 | 0.814 | 0.701 | 0.863 | ND | 0.846 | 0.68 | 0.454 | 0.345 |
| | Lead | ND | ND | ND | ND | ND | ND | ND | NT | 0.0032 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 13.7 | 17.6 | 15 | 8.5 | 2.23 | 12 | 3.73 | 16 | 3.01 |
| | Manganese | 0.1394 | 0.1185 | 0.1826 | 0.1261 | NT | NT | NT | NT | NT | 0.101 | 0.294 | 0.19 | 0.109 | 0.0434 | 0.245 | 0.0766 | 0.155 | 0.0382 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.009 | 0.0047 | 0.0091 | 0.0043 | 0.0087 | 0.0069 | 0.0097 | NT | 0.0172 | 0.0083 | 0.0104 | 0.0078 | 0.0052 | ND | 0.00661 | ND | 0.00894 | ND |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.465 | 1.3279 | 1.3876 | 0.401 | ND | 0.799 | ND | 1.66 | ND |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.39 | 7.19 | | | 7.34 | 7.55 | 6.19 | 6.46 | 6.83 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.59 | 3.08 | 2.58 | 3.48 | 2.15 | 4.16 | 1.48 | 2.11 | 1.14 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 24.5 | 59 | 24.8 | 28 | 4.33 | 108 | 7.36 | 29.1 | 7.17 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 386.7 | 538.8 | | | 82.1 | 703.9 | 118.1 | 526.3 | 93.3 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 20.7 | 15.6 | 25.5 | 7.19 | 4.42 | 8.46 | ND | 12.6 | ND |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 280 | 368 | 404 | 204 | 1276 | 392 | 100 | 222 | 6 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.04 | 5.24 | 6.06 | 25.6 | NT | NT | NS | NS | 6.2 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | NT | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0246 | 0.0187 | 0.0296 | NT | 0.0536 | 0.0202 | 0.0243 | 0.0174 | 0.0131 | 0.0103 | 0.0155 | 0.0065 | 0.0207 | 0.00503 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location ST120 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 64 | 74 | 70 | 60 | 49 | 52 | 72 | 56 | 57 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0321 | 0.0447 | 0.0705 | 0.0582 | 0.0288 | 0.0431 | 0.0433 | 0.0373 | 0.1051 | 0.0392 | 0.0544 | 0.0482 | 0.046 | 0.0357 | 0.0397 | 0.0423 | 0.0559 | 0.044 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 25.7 | 34 | 31.6 | 23.1 | 33.4 | 23.3 | 24.9 | 29.6 | 27.4 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 197 | 93.2 | 102 | 50.1 | 110 | 47 | 335 | 67.8 |
| | Chromium | ND | 0.0021 | 0.0021 | 0.0026 | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 7 | 11.1 | 15.1 | 11.9 | 9.7 | ND | 25.8 | ND |
| | Copper | ND | 0.0116 | 0.0105 | 0.0085 | 0.0104 | 0.0066 | 0.0094 | 0.0089 | 0.0152 | 0.0056 | 0.0105 | 0.0068 | 0.0052 | 0.00623 | 0.00914 | ND | 0.0151 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 340 | 150 | 180 | 113 | 73 | 98 | 100 | 130 | 120 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.525 | 1 | 0.705 | 0.661 | 0.75 | 0.474 | 0.704 | 0.639 | 0.579 |
| | Lead | ND | 0.0031 | 0.0028 | ND | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND | 0.00528 | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 12.3 | 19.1 | 16.3 | 14.2 | 12.6 | 11.5 | 14.2 | 14.8 | 12.9 |
| | Manganese | 0.0937 | 0.2585 | 0.2074 | 0.2912 | NT | NT | NT | NT | NT | 0.0634 | 0.238 | 0.0817 | 0.126 | 0.051 | 0.0853 | 0.117 | 0.0907 | 0.0795 |
| | Mercury | ND | 0.0006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0072 | 0.008 | 0.0104 | 0.0082 | 0.0116 | 0.0077 | 0.0078 | 0.006 | 0.0113 | 0.0066 | 0.0155 | 0.0066 | 0.0098 | 0.00741 | 0.00818 | 0.00593 | 0.00848 | 0.0065 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.029 | 1.2126 | 0.792 | 0.787 | 0.581 | 1.33 | 1.3 | 1.2 | 0.812 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.41 | 5.96 | | | 6.98 | 7.38 | 6.68 | 7.35 | 7.4 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.88 | 3 | 3.02 | 2.51 | 3.08 | 2.25 | 2.2 | 3.01 | 2.67 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 27.5 | 170 | 34 | 53.7 | 34.5 | 65.1 | 15.3 | 181 | 19.8 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 370.8 | 1116 | | | 236.6 | 489.4 | 303.4 | 1297 | 340 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.6 | 17.2 | 13.5 | 7.5 | 6.45 | 7.76 | 5.56 | 7.85 | 8.37 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 244 | 720 | 376 | 372 | 208 | 284 | 228 | 660 | 272 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.12 | 8.2 | 2.4 | 3.86 | NT | NT | NS | 5 | ND |
| | Vanadium | ND | 0.004 | ND | 0.0033 | 0.0028 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.0124 | ND | 0.00891 | 0.00844 | 0.0106 | ND | 0.00746 | 0.00635 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location ST65 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 70 | 235 | 88 | 243 | 203 | 237 | 98 | 253 | 112 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0301 | 0.0351 | 0.0592 | 0.0472 | 0.1 | 0.0404 | 0.038 | 0.0314 | 0.0447 | 0.0912 | 0.0566 | 0.0431 | 0.0556 | 0.079 | 0.0484 | 0.045 | 0.0644 | 0.044 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 18.1 | 40 | 34.3 | 33.9 | 34.2 | 30.6 | 34.3 | 34.6 | 40 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 51.7 | 85.7 | 98.4 | 99.6 | 154 | 136 | 91.5 | 171 | 68.4 |
| | Chromium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | ND | ND | ND | 0.0134 | ND | ND | ND | ND | 0.0137 | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | 34.8 | 34.7 | 7.7 | 35.1 | 39.2 | 32.6 | 10.5 | 60.7 | ND |
| | Copper | 0.0134 | 0.0105 | 0.0137 | 0.0049 | 0.0063 | 0.0069 | 0.0075 | 0.0069 | 0.0058 | 0.008 | 0.0097 | 0.0066 | 0.0067 | 0.00767 | 0.00768 | ND | 0.0168 | ND |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 100 | 222 | 170 | 180 | 174 | 178 | 150 | 196 | 170 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10.1 | 0.529 | 0.286 | 0.657 | 0.613 | 0.507 | 0.548 | 0.39 | 0.294 |
| | Lead | ND | ND | 0.0032 | ND | ND | ND | ND | ND | ND | 0.0036 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 10.6 | 30.7 | 18.4 | 26.9 | 23.7 | 29 | 17.4 | 28.3 | 19 |
| | Manganese | 0.112 | 0.0871 | 0.2699 | 0.0559 | NT | NT | NT | NT | NT | 2.37 | 0.0486 | 0.0179 | 0.143 | 0.25 | 0.0864 | 0.0182 | 0.0287 | 0.0705 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0057 | 0.003 | 0.0083 | 0.0024 | 0.0058 | 0.0037 | 0.0058 | ND | 0.0028 | 0.008 | 0.0102 | ND | 0.0095 | 0.0103 | 0.00895 | ND | 0.00913 | ND |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.7773 | 1.117 | 0.392 | ND | 0.621 | 0.654 | ND | 1.16 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 6.7 | 6.31 | | | 7.07 | 7.56 | 6.96 | 6.42 | 7.48 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 2.92 | 14.3 | 4 | 14.8 | 14.9 | 13.8 | 4.68 | 17 | 4.53 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0082 | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 25.7 | 110 | 37 | 121 | 115 | 136 | 26.3 | 136 | 27.5 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 302.3 | 884.2 | | | 795.9 | 872.7 | 471.5 | 1037 | 466.9 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.32 | 42.1 | 10.8 | 26.6 | 32.8 | 25.4 | 10.4 | 26.3 | 29.2 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 196 | 500 | 500 | 524 | 588 | 532 | 360 | 562 | 352 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 90.3 | 5.03 | 0.696 | 8.26 | NT | NT | NS | NS | 0 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0036 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0185 | 0.0032 | ND | ND | 0.0058 | 0.0165 | 0.0053 | ND | 0.00604 | 0.00665 | 0.00539 | ND | 0.00538 | ND |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location ST70 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 109 | 106 | 115 | 105 | 81 | 128 | 79 | 108 | 92 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.497 | ND | 0.477 | ND | 0.383 | ND | 0.555 | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0475 | 0.0885 | 0.0681 | 0.066 | 0.0509 | 0.0699 | 0.0508 | 0.0549 | 0.1404 | 0.0624 | 0.0596 | 0.0632 | 0.0498 | 0.0488 | 0.0706 | 0.0544 | 0.0732 | 0.0606 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 38.2 | 37.9 | 42.8 | 32.5 | 27.4 | 56.8 | 31.7 | 49.3 | 39.8 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 85.8 | 68.8 | 97.6 | 79.8 | 50.6 | 122 | 49.5 | 145 | 62.6 |
| | Chromium | ND | 0.0167 | 0.0202 | 0.013 | 0.0034 | 0.0194 | 0.0033 | ND | 0.0422 | ND | ND | ND | ND | ND | 0.0234 | ND | 0.0253 | 0.0229 |
| | Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 14.1 | 10 | 18.5 | 15.3 | 17.2 | 19.5 | ND | 22.4 |
| | Copper | 0.0162 | 0.0166 | 0.0109 | 0.0079 | 0.0072 | 0.0109 | 0.007 | 0.0076 | 0.0127 | 0.0067 | 0.009 | 0.0076 | 0.0066 | 0.00714 | 0.00996 | 0.00663 | 0.00699 | 0.00922 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 170 | 150 | 170 | 128 | 110 | 188 | 124 | 180 | 140 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.421 | 0.98 | 0.357 | 1.04 | 0.555 | 1.36 | 0.466 | 0.77 | 0.486 |
| | Lead | ND | ND | 0.0023 | ND | ND | 0.0039 | ND | ND | 0.0027 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 16.3 | 15.9 | 17.8 | 13.6 | 8.98 | 16.5 | 11.7 | 18.9 | 11.8 |
| | Manganese | 0.2356 | 0.1272 | 0.2724 | 0.1056 | NT | NT | NT | NT | NT | 0.154 | 0.274 | 0.147 | 0.185 | 0.0928 | 0.436 | 0.0764 | 0.276 | 0.0973 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0075 | 0.0059 | 0.0086 | 0.0044 | 0.0074 | 0.007 | 0.0085 | 0.0052 | 0.0095 | 0.0086 | 0.0136 | 0.0077 | 0.0086 | 0.00908 | 0.00831 | 0.00762 | 0.00775 | 0.00737 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.8591 | 1.124 | 1.4818 | 0.831 | 0.774 | 1.489 | 0.878 | 2.071 | 0.523 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.54 | 6.61 | | | 7.05 | 8.51 | 6.53 | 6.52 | 7.45 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 4.3 | 4.4 | 6.84 | 4.15 | 4.52 | 13.1 | 5.33 | 14.3 | 13.5 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 34.2 | 69.8 | 40.1 | 45.6 | 20.4 | 77.1 | 22.1 | 70.3 | 25.9 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 520.6 | 625.1 | | | 291.6 | 691 | 315.7 | 739 | 424.7 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 20.8 | 18.4 | 25.2 | 12.8 | 11.6 | 41.4 | 27.4 | 29.7 | 28.7 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 352 | 392 | 524 | 312 | 256 | 448 | 256 | 380 | 308 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.96 | 9.24 | 0.753 | 10.7 | NT | NT | NS | 155 | 0.6 |
| | Vanadium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0167 | 0.0187 | 0.016 | ND | 0.0342 | ND | 0.0166 | 0.00661 | 0.0145 | 0.0121 | 0.0143 | 0.0111 | 0.0136 | 0.0215 |

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location ST80 | Alkalinity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 48 | 110 | 44 | 32 | 42 | 34 | 54 | 34 | 569 |
| | Ammonia | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 0.456 | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 0.0298 | 0.0436 | 0.0294 | 0.0265 | 0.0297 | 0.049 | 0.0305 | 0.0405 | 0.0513 | 0.0365 | 0.0532 | 0.0311 | 0.0387 | 0.0315 | 0.0346 | 0.044 | 0.0408 | 0.0391 |
| | Beryllium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 16.2 | 37.9 | 12.5 | 11.8 | 11.9 | 14.2 | 18.6 | 16.5 | 17.5 |
| | Chloride | NT | NT | NT | NT | NT | NT | NT | NT | NT | 32.6 | 92.3 | 28.6 | 27.1 | 29.4 | 45.8 | 38.1 | 107 | 43 |
| | Chromium | 0.0042 | ND | ND | ND | 0.0026 | 0.0021 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | ND | 0.0023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | COD | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | 12.5 | 17 | 14.6 | 12.5 | 10.3 | 10.8 | ND | 14.4 |
| | Copper | 0.0116 | 0.0117 | 0.0125 | 0.0051 | 0.0072 | 0.007 | 0.0061 | 0.0056 | 0.0064 | 0.0056 | 0.008 | 0.0066 | 0.0068 | 0.005 | 0.00578 | ND | 0.00609 | 0.00841 |
| | Hardness | NT | NT | NT | NT | NT | NT | NT | NT | NT | 70 | 152 | 68 | 46 | 55 | 58 | 86 | 66 | 76 |
| | Iron | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.32 | 0.821 | 0.863 | 1.44 | 0.52 | 0.741 | 1.17 | 0.759 | 0.55 |
| | Lead | ND | 0.0028 | 0.0023 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.41 | 15.4 | 6.23 | 5.73 | 5.47 | 7.92 | 11.2 | 8.71 | 10.5 |
| | Manganese | 0.1439 | 0.7916 | 0.0739 | 0.132 | NT | NT | NT | NT | NT | 0.126 | 0.174 | 0.155 | 0.149 | 0.0565 | 0.0786 | 0.184 | 0.115 | 0.0977 |
| | Mercury | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 0.0055 | 0.0053 | 0.0028 | ND | 0.0056 | 0.0043 | 0.0036 | ND | 0.0035 | 0.0042 | 0.0108 | ND | 0.0055 | ND | ND | ND | ND | 0.00542 |
| | Nitrate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.8957 | 1.1925 | 0.35 | 0.856 | 0.423 | 1.68 | 0.679 | 1.52 | 0.309 |
| | pH | NT | NT | NT | NT | NT | NT | NT | NT | NT | 7.65 | 7.37 | | | 7 | 8.08 | 6.94 | 7.11 | 7.65 |
| | Potassium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3.08 | 4.64 | 2.68 | 2.16 | 3.82 | 2.57 | 3.8 | 2.69 | 3.86 |
| | Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Silver | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | NT | NT | NT | NT | NT | NT | NT | NT | NT | 17.4 | 69 | 14 | 14.6 | 12.1 | 28.2 | 16.4 | 64.6 | 17.2 |
| | Spec. Cond. | NT | NT | NT | NT | NT | NT | NT | NT | NT | 216.2 | 616.7 | | | 162.9 | 234.2 | 255 | 466.6 | 231.3 |
| | Sulfate | NT | NT | NT | NT | NT | NT | NT | NT | NT | 8.16 | 17.3 | 5.53 | 6.57 | 6.04 | 5.77 | 5.55 | 8.53 | 6.35 |
| | TDS | NT | NT | NT | NT | NT | NT | NT | NT | NT | 144 | 380 | 168 | 144 | 160 | 168 | 160 | 246 | 180 |
| | Thallium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | NT | NT | NT | NT | NT | NT | NT | NT | NT | 1.85 | 7.23 | 7.86 | 91.8 | NT | NT | NS | 1000+ | 4 |
| | Vanadium | 0.0045 | 0.003 | ND | ND | 0.0028 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | NT | NT | NT | NT | 0.0091 | 0.0085 | 0.0066 | ND | 0.0078 | ND | 0.0119 | ND | 0.00952 | 0.00561 | 0.00612 | ND | 0.00635 | 0.0128 |

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW1B | Alkalinity | | | | | | | | | | | | 48 | 49 | 49 | 58 | 52 | 49 | 49 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0057 | 0.0081 | 0.0089 | 0.00843 | 0.0338 | 0.00611 | 0.00851 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 6.83 | 8.18 | 6.92 | 8.77 | 10.4 | 9.07 | 8.27 |
| | Chloride | | | | | | | | | | | | ND | ND | ND | 2.75 | 3.33 | 3.24 | 3.27 |
| | Chromium | | | | | | | | | | | | 0.0055 | ND | 0.00501 | 0.00854 | 0.233 | 0.00515 | 0.00711 |
| | Cobalt | | | | | | | | | | | | ND | ND | ND | ND | 0.0205 | ND | ND |
| | COD | | | | | | | | | | | | ND | 6.5 | ND | ND | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0086 | ND | 0.00799 | 0.0104 | 0.0802 | 0.0159 | 0.00568 |
| | Hardness | | | | | | | | | | | | 30 | 36 | 33 | 60 | 80 | 36 | 40 |
| | Iron | | | | | | | | | | | | 1.22 | 0.651 | 1.56 | 2.22 | 17.6 | 1.34 | 0.623 |
| | Lead | | | | | | | | | | | | ND | ND | 0.00552 | ND | 0.0117 | ND | ND |
| | Magnesium | | | | | | | | | | | | 3.72 | 4.58 | 4.34 | 5.74 | 11.6 | 5.42 | 4.56 |
| | Manganese | | | | | | | | | | | | 0.038 | 0.0495 | 0.0441 | 0.0541 | 0.516 | 0.0436 | 0.0189 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0055 | ND | 0.00538 | 0.00801 | 0.271 | 0.00529 | 0.00698 |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 5.73 | 6.12 | 5.6 | 6.21 | 6.1 |
| | Potassium | | | | | | | | | | | | 1.25 | 1.15 | 1.47 | 1.36 | 3.47 | 1.53 | 1.06 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 10.2 | 8.37 | 6.78 | 8.88 | 8.62 | 12.8 | 7.4 |
| | Spec. Cond. | | | | | | | | | | | | | | 76.3 | 97.9 | 96.9 | 113.1 | 95.5 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 440 | 92 | 80 | 92 | 92 | 136 | 90 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 28.2 | 39.4 | NT | NT | NS | 47.7 | 33.9 |
| | Vanadium | | | | | | | | | | | | ND | ND | ND | ND | 0.022 | ND | ND |
| | Zinc | | | | | | | | | | | | 0.0102 | 0.00685 | 0.0145 | 0.0179 | 0.109 | 0.012 | 0.00722 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW2A | Alkalinity | | | | | | | | | | | | 30 | 40 | 35 | 46 | 54 | NS | 56 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Barium | | | | | | | | | | | | 0.0155 | 0.0299 | 0.0206 | 0.0209 | 0.0181 | NS | 0.0172 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Calcium | | | | | | | | | | | | 4.89 | 7.78 | 8.86 | 10.5 | 11.1 | NS | 13.2 |
| | Chloride | | | | | | | | | | | | ND | 2.74 | 2.69 | 2.65 | 2.63 | NS | 5.76 |
| | Chromium | | | | | | | | | | | | 0.0084 | 0.0085 | ND | 0.0404 | 0.022 | NS | ND |
| | Cobalt | | | | | | | | | | | | ND | ND | ND | 0.014 | ND | NS | 0.00517 |
| | COD | | | | | | | | | | | | ND | 7.5 | ND | ND | ND | NS | ND |
| | Copper | | | | | | | | | | | | 0.008 | 0.0118 | 0.00689 | 0.028 | 0.0163 | NS | 0.0106 |
| | Hardness | | | | | | | | | | | | 19 | 25 | 22 | 32 | 32 | NS | 48 |
| | Iron | | | | | | | | | | | | 1.38 | 3.14 | 0.68 | 1.27 | 0.725 | NS | 1.46 |
| | Lead | | | | | | | | | | | | ND | 0.0055 | ND | ND | ND | NS | ND |
| | Magnesium | | | | | | | | | | | | 2.15 | 3.75 | 3.25 | 3.59 | 4.81 | NS | 5.72 |
| | Manganese | | | | | | | | | | | | 0.12 | 0.173 | 0.204 | 0.148 | 0.151 | NS | 0.602 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | 0.00059 | 0.00076 | NS | 0.00029 |
| | Nickel | | | | | | | | | | | | 0.0102 | 0.0092 | 0.00547 | 0.032 | 0.0301 | NS | 0.0278 |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | pH | | | | | | | | | | | | | | 5.14 | 6.08 | 5.96 | NS | 5.31 |
| | Potassium | | | | | | | | | | | | 1.94 | 2.32 | 1.8 | 2.12 | 2.14 | NS | 2.27 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Sodium | | | | | | | | | | | | 7.15 | 7.07 | 6.09 | 10.4 | 8.38 | NS | 9.54 |
| | Spec. Cond. | | | | | | | | | | | | | | 73.1 | 118.1 | 89.6 | NS | 104.3 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | TDS | | | | | | | | | | | | 465 | 112 | 108 | 84 | 100 | NS | 4 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Turbidity | | | | | | | | | | | | 58.9 | 117.6 | NT | NT | NS | NS | 11.3 |
| | Vanadium | | | | | | | | | | | | ND | ND | ND | ND | ND | NS | ND |
| | Zinc | | | | | | | | | | | | 0.0114 | 0.0229 | 0.0187 | 0.0369 | 0.0247 | NS | 0.0322 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW2B | Alkalinity | | | | | | | | | | | | 29 | 37 | 33 | 40 | 36 | 41 | 34 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0113 | 0.0095 | 0.0123 | 0.00636 | 0.00799 | 0.00706 | 0.00696 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 4.92 | 8.72 | 7.2 | 9.89 | 11.7 | 10.7 | 10.1 |
| | Chloride | | | | | | | | | | | | ND | ND | ND | ND | 2.55 | ND | ND |
| | Chromium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | COD | | | | | | | | | | | | ND | ND | ND | ND | ND | 12.6 | ND |
| | Copper | | | | | | | | | | | | 0.0054 | ND | ND | 0.00608 | ND | ND | ND |
| | Hardness | | | | | | | | | | | | 18 | 24 | 35 | 30 | 34 | 34 | 30 |
| | Iron | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Lead | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | | | | | | | | | | | | 1.94 | 2.84 | 2.85 | 2.44 | 3.04 | 2.58 | 2.56 |
| | Manganese | | | | | | | | | | | | 0.0868 | 0.063 | 0.044 | 0.0393 | 0.0302 | 0.0342 | 0.023 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | 0.00058 | ND | ND |
| | Nickel | | | | | | | | | | | | ND | ND | ND | 0.00523 | 0.00624 | ND | ND |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 5 | 5.39 | 5.49 | 5.61 | 5.13 |
| | Potassium | | | | | | | | | | | | 1.36 | 1.58 | 1.39 | 1.66 | 1.74 | 1.83 | 1.47 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 6.99 | 5.22 | 4.88 | 8.64 | 4.89 | 4.66 | 4.17 |
| | Spec. Cond. | | | | | | | | | | | | | | 54.9 | 76 | 78.6 | 94.8 | 74 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 648 | 56 | 44 | 92 | 84 | 4 | 72 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 2.43 | 1.29 | NT | NT | NS | 0.57 | 0 |
| | Vanadium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | | | | | | | | | | | | 0.00606 | 0.008 | 0.00794 | 0.00753 | 0.00694 | 0.00721 | 0.00981 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW3A | Alkalinity | | | | | | | | | | | | 40 | 24 | 21 | 24 | 21 | 17.2 | 16 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.144 | 0.0519 | 0.111 | 0.223 | 0.113 | 0.0487 | 0.0332 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 6.89 | 6.1 | 11.1 | 17.2 | 10.1 | 7.11 | 5.41 |
| | Chloride | | | | | | | | | | | | ND | 2.94 | 2.89 | 5.28 | 2.76 | 2.6 | ND |
| | Chromium | | | | | | | | | | | | 0.053 | 0.0067 | 0.00753 | 0.0815 | 0.05 | 0.0277 | 0.0133 |
| | Cobalt | | | | | | | | | | | | 0.041 | 0.0108 | 0.0188 | 0.0397 | 0.0267 | 0.00937 | 0.00514 |
| | COD | | | | | | | | | | | | ND | ND | ND | 6.3 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.118 | 0.018 | 0.0273 | 0.122 | 0.0773 | 0.0332 | 0.0196 |
| | Hardness | | | | | | | | | | | | 130 | 14 | 22 | 50 | 44 | 34 | 16 |
| | Iron | | | | | | | | | | | | 61.7 | 5.99 | 6.67 | 86.1 | 44.4 | 17 | 11.7 |
| | Lead | | | | | | | | | | | | **0.0259** | 0.0089 | **0.023** | **0.0435** | **0.02** | 0.0088 | ND |
| | Magnesium | | | | | | | | | | | | 20.9 | 3.68 | 7.04 | 28.1 | 15.6 | 6.68 | 5.37 |
| | Manganese | | | | | | | | | | | | 1.08 | 0.343 | 0.629 | 1.17 | 0.715 | 0.24 | 0.141 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0816 | 0.0067 | 0.00978 | 0.0752 | 0.0544 | 0.0224 | 0.0128 |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 5.55 | 5.85 | 5.86 | 5.99 | 5.49 |
| | Potassium | | | | | | | | | | | | 13 | 1.98 | 2.86 | 15 | 9.8 | 3.99 | 3.03 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 7.66 | 4.12 | 4.19 | 4.33 | 3.88 | 4.1 | 3.81 |
| | Spec. Cond. | | | | | | | | | | | | | | 36.1 | 41.4 | 39 | 43.7 | 37.1 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 100 | 60 | 144 | 112 | 60 | 16 | 126 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 1535 | 151.5 | NT | NT | NS | 982 | 982 |
| | Vanadium | | | | | | | | | | | | 0.0529 | 0.01 | 0.0124 | 0.1 | 0.058 | 0.022 | 0.0134 |
| | Zinc | | | | | | | | | | | | 0.227 | 0.0275 | 0.0459 | 0.235 | 0.159 | 0.06 | 0.0372 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW3B | Alkalinity | | | | | | | | | | | | 160 | 110 | 80 | 111 | 137 | 118 | 123 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0943 | 0.237 | 0.175 | 0.0994 | 0.13 | 0.0643 | 0.12 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 10.7 | 63 | 57.4 | 42.3 | 61.8 | 44.4 | 54.5 |
| | Chloride | | | | | | | | | | | | ND | 4.59 | 2.57 | 3.49 | 3.46 | 2.76 | 3.05 |
| | Chromium | | | | | | | | | | | | 0.0246 | 0.018 | 0.0129 | 0.0409 | 0.184 | 0.0478 | **0.124** |
| | Cobalt | | | | | | | | | | | | ND | 0.027 | 0.00643 | 0.012 | 0.0243 | 0.00927 | 0.0157 |
| | COD | | | | | | | | | | | | ND | 22.4 | 7.6 | 6.7 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0125 | 0.0533 | 0.0184 | 0.0403 | 0.105 | 0.0308 | 0.054 |
| | Hardness | | | | | | | | | | | | 100 | 66 | 45 | 114 | 188 | 132 | 162 |
| | Iron | | | | | | | | | | | | 1.33 | 9.62 | 3.89 | 19.4 | 19.15 | 8.89 | 24.9 |
| | Lead | | | | | | | | | | | | ND | **0.041** | 0.011 | 0.0138 | 0.0163 | 0.00869 | **0.0171** |
| | Magnesium | | | | | | | | | | | | 0.715 | 10.6 | 5.36 | 11.7 | 11.3 | 7.41 | 12 |
| | Manganese | | | | | | | | | | | | 0.0395 | 1.26 | 0.276 | 0.371 | 0.584 | 0.33 | 0.465 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | 0.00031 |
| | Nickel | | | | | | | | | | | | 0.0266 | 0.031 | 0.0103 | 0.0363 | 0.278 | 0.0425 | 0.114 |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 10.2 | 8.47 | 7.33 | 8.03 | 7.59 |
| | Potassium | | | | | | | | | | | | 26 | 9.54 | 9.11 | 7.83 | 7.26 | 4.18 | 6.49 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 56.7 | 107 | 41 | 48.6 | 51.1 | 36 | 30.1 |
| | Spec. Cond. | | | | | | | | | | | | | | 279.6 | 223.9 | 329.1 | 161.1 | 221.9 |
| | Sulfate | | | | | | | | | | | | 13.5 | 165 | 36.9 | 65.7 | 94.4 | 52.6 | 43.2 |
| | TDS | | | | | | | | | | | | 332 | 472 | 188 | 268 | 292 | 158 | 242 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 42 | 2130 | NT | NT | NS | 11.3 | 22.7 |
| | Vanadium | | | | | | | | | | | | 0.0047 | 0.0279 | 0.0098 | 0.022 | 0.0216 | 0.0112 | 0.0233 |
| | Zinc | | | | | | | | | | | | 0.0123 | 0.108 | 0.0359 | 0.0724 | 0.0988 | 0.0429 | 0.0801 |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW04 | Alkalinity | | | | | | | | | | | | 70 | 60 | 52 | 56 | 51 | 55 | 55 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.228 | 0.0431 | 0.0409 | 0.0721 | 0.0383 | 0.0383 | 0.0417 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 34.4 | 35.5 | 34.5 | 40.4 | 33.4 | 39.6 | 35.1 |
| | Chloride | | | | | | | | | | | | 106 | 138 | 120 | 145 | 125 | 141 | 128 |
| | Chromium | | | | | | | | | | | | 0.0261 | ND | ND | 0.00761 | ND | ND | ND |
| | Cobalt | | | | | | | | | | | | 0.0264 | ND | ND | ND | ND | ND | ND |
| | COD | | | | | | | | | | | | ND | ND | ND | 3.1 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.037 | ND | ND | 0.0145 | ND | 0.0133 | ND |
| | Hardness | | | | | | | | | | | | 183 | 200 | 163 | 188 | 162 | 186 | 170 |
| | Iron | | | | | | | | | | | | 37.6 | 1.21 | 1.06 | 7.69 | 0.889 | 0.97 | 0.786 |
| | Lead | | | | | | | | | | | | **0.022** | ND | ND | ND | ND | ND | ND |
| | Magnesium | | | | | | | | | | | | 30.9 | 25.8 | 22.9 | 25.5 | 19.6 | 22.6 | 23.2 |
| | Manganese | | | | | | | | | | | | 2.87 | 0.138 | 0.104 | 0.549 | 0.115 | 0.175 | 0.142 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0758 | 0.0108 | 0.00554 | 0.0157 | 0.00948 | 0.0108 | 0.00928 |
| | Nitrate | | | | | | | | | | | | 0.3756 | 0.378 | 0.406 | 0.47 | 0.444 | 0.465 | 0.489 |
| | pH | | | | | | | | | | | | | | 5.7 | 5.96 | 5.5 | 6.11 | 6.05 |
| | Potassium | | | | | | | | | | | | 12.2 | 3.56 | 2.76 | 4.51 | 3.01 | 3.47 | 2.53 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 29.4 | 30.2 | 29.4 | 29.7 | 24.9 | 30.9 | 29.6 |
| | Spec. Cond. | | | | | | | | | | | | | | 421.5 | 587.4 | 501.7 | 620.9 | 485.6 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | 4.26 | 4.01 |
| | TDS | | | | | | | | | | | | 552 | 552 | 520 | 528 | 428 | 310 | 442 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 880 | 13.2 | NT | NT | NS | 59.7 | 45.2 |
| | Vanadium | | | | | | | | | | | | 0.0213 | ND | ND | ND | ND | ND | ND |
| | Zinc | | | | | | | | | | | | 0.138 | 0.00782 | 0.00755 | 0.0313 | 0.00689 | 0.00903 | 0.00733 |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested
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ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW06 | Alkalinity | | | | | | | | | | | | 260 | 264 | 214 | 238 | 197 | 216 | 183 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.675 | 0.303 | 0.319 | 0.365 | 0.433 | 0.259 | 0.301 |
| | Beryllium | | | | | | | | | | | | **0.007** | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | **0.0082** | ND | **0.00656** | **0.00618** | **0.00888** | ND | ND |
| | Calcium | | | | | | | | | | | | 62.6 | 73.9 | 70.3 | 78.7 | 72.8 | 76.3 | 79.8 |
| | Chloride | | | | | | | | | | | | 222 | 200 | 226 | 243 | 255 | 258 | 304 |
| | Chromium | | | | | | | | | | | | 0.0533 | ND | ND | 0.00728 | 0.0229 | 0.00506 | 0.00639 |
| | Cobalt | | | | | | | | | | | | 0.33 | 0.322 | 0.216 | 0.374 | 0.343 | 0.388 | 0.263 |
| | COD | | | | | | | | | | | | ND | 17.3 | ND | ND | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.143 | 0.0157 | 0.0106 | 0.0243 | 0.0414 | 0.0133 | 0.0149 |
| | Hardness | | | | | | | | | | | | 430 | 1720 | 430 | 470 | 452 | 472 | 500 |
| | Iron | | | | | | | | | | | | 69.4 | 2.9 | 0.897 | 4.76 | 17.9 | 3.47 | 7.65 |
| | Lead | | | | | | | | | | | | **0.0519** | 0.0101 | 0.011 | 0.0137 | 0.00953 | ND | 0.00541 |
| | Magnesium | | | | | | | | | | | | 57.9 | 54.9 | 53.5 | 56.3 | 53.1 | 54.9 | 56.7 |
| | Manganese | | | | | | | | | | | | 38.9 | 54 | 37.63 | 44.4 | 37.6 | 48 | 40 |
| | Mercury | | | | | | | | | | | | ND | 0.00035 | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.154 | 0.0339 | 0.032 | 0.0429 | 0.0634 | 0.0463 | 0.0379 |
| | Nitrate | | | | | | | | | | | | 0.0757 | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 5.58 | 5.86 | 5.44 | 6.17 | 5.62 |
| | Potassium | | | | | | | | | | | | 4.92 | 2.94 | 3.71 | 3.63 | 4.19 | 3.77 | 4 |
| | Selenium | | | | | | | | | | | | 0.0429 | 0.0113 | 0.00983 | 0.00963 | 0.0151 | 0.00839 | 0.0133 |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 56.2 | 63.1 | 61.2 | 70.9 | 59.6 | 65.3 | 66 |
| | Spec. Cond. | | | | | | | | | | | | | | 984.9 | 1228 | 1211 | 1352 | 1248 |
| | Sulfate | | | | | | | | | | | | 54.1 | 58.7 | 45.2 | 43.4 | 47.4 | 48 | 50 |
| | TDS | | | | | | | | | | | | 1080 | 868 | 1036 | 976 | 776 | 644 | 878 |
| | Thallium | | | | | | | | | | | | ND | ND | 0.0001 | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 5300 | 1540 | NT | NT | NS | 270 | 2651 |
| | Vanadium | | | | | | | | | | | | 0.0531 | ND | ND | 0.0054 | 0.0149 | ND | ND |
| | Zinc | | | | | | | | | | | | 0.5 | 0.0516 | 0.0487 | 0.0616 | 0.136 | 0.0515 | 0.0561 |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested
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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW07 | Alkalinity | | | | | | | | | | | | 90 | 42 | 69 | 42 | 31 | 68 | 48 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0666 | 0.0674 | 0.0636 | 0.058 | 0.0631 | 0.0635 | 0.0732 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 46.7 | 46.5 | 55.2 | 41.7 | 44.5 | 48.9 | 45.4 |
| | Chloride | | | | | | | | | | | | 131 | 119 | 117 | 70.3 | 108 | 118 | 117 |
| | Chromium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | | | | | | | | | | | | 0.0066 | ND | ND | 0.0065 | 0.00727 | ND | ND |
| | COD | | | | | | | | | | | | 12.6 | 15 | 15.1 | 14.6 | ND | 21.2 | ND |
| | Copper | | | | | | | | | | | | 0.016 | 0.01 | 0.0084 | 0.0115 | 0.013 | 0.0172 | 0.011 |
| | Hardness | | | | | | | | | | | | 650 | 219 | 241 | 198 | 216 | 238 | 212 |
| | Iron | | | | | | | | | | | | 0.69 | 0.517 | ND | 0.478 | 0.413 | 0.391 | 0.29 |
| | Lead | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | | | | | | | | | | | | 23.2 | 28.1 | 31.5 | 25.7 | 24.7 | 27.6 | 27.7 |
| | Manganese | | | | | | | | | | | | 2.01 | 0.761 | 0.562 | 0.681 | 0.34 | 1.3 | 1.22 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0157 | 0.0064 | 0.00506 | 0.00667 | 0.00779 | 0.00689 | 0.00694 |
| | Nitrate | | | | | | | | | | | | **10.35** | **14.59** | **18.45** | **29.09** | **22.65** | **15.0122** | **15.75** |
| | pH | | | | | | | | | | | | | | 5.55 | 5.62 | 5.04 | 5.79 | 5.57 |
| | Potassium | | | | | | | | | | | | 3.16 | 3.81 | 3.36 | 3.09 | 3.8 | 4.23 | 2.82 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 33.4 | 32.6 | 31.7 | 22.7 | 23.1 | 24.1 | 24.7 |
| | Spec. Cond. | | | | | | | | | | | | | | 568.3 | 601.2 | 614.9 | 693.4 | 580.1 |
| | Sulfate | | | | | | | | | | | | 13.1 | 12.4 | 11.7 | 5.6 | 11 | 5.66 | 7.76 |
| | TDS | | | | | | | | | | | | 648 | 552 | 788 | 528 | 560 | 420 | 524 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 11.1 | 6.06 | NT | NT | NS | 0.8 | 3.7 |
| | Vanadium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | | | | | | | | | | | | 0.0246 | 0.0119 | 0.0106 | 0.0148 | 0.014 | 0.00977 | 0.00991 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW08 | Alkalinity | | | | | | | | | | | | 190 | 480 | 209 | 166 | 178 | 175 | 89 |
| | Ammonia | | | | | | | | | | | | 0.726 | 1.94 | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.273 | 0.177 | 0.109 | 0.12 | 0.419 | 0.12 | 0.156 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 59 | 114 | 76.2 | 70.1 | 67.4 | 67.5 | 46.9 |
| | Chloride | | | | | | | | | | | | 190 | 207 | 210 | 198 | 223 | 172 | 197 |
| | Chromium | | | | | | | | | | | | 0.0215 | ND | ND | ND | 0.0654 | ND | 0.0221 |
| | Cobalt | | | | | | | | | | | | 0.0816 | ND | ND | ND | 0.0838 | ND | ND |
| | COD | | | | | | | | | | | | ND | 26.3 | 6.2 | 11.5 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.054 | 0.0145 | 0.0067 | 0.00811 | 0.131 | 0.0134 | 0.0107 |
| | Hardness | | | | | | | | | | | | 270 | 600 | 99 | 332 | 344 | 302 | 218 |
| | Iron | | | | | | | | | | | | 15.1 | 1.69 | 0.69 | 1.15 | 46.3 | 0.498 | 1.64 |
| | Lead | | | | | | | | | | | | 0.01 | ND | ND | ND | 0.027 | ND | ND |
| | Magnesium | | | | | | | | | | | | 36.9 | 90.9 | 50.2 | 40.5 | 39.6 | 33.9 | 27.1 |
| | Manganese | | | | | | | | | | | | 3.46 | 0.144 | 0.0902 | 0.0101 | 2.36 | 0.0338 | 0.182 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0534 | 0.0082 | 0.00713 | 0.0065 | 0.0821 | ND | 0.0241 |
| | Nitrate | | | | | | | | | | | | 7.63 | **13.85** | 5.65 | **14.79** | **9.61** | 4.75 | 5.21 |
| | pH | | | | | | | | | | | | | | 6.65 | 6.59 | 5.76 | 6.57 | 6.39 |
| | Potassium | | | | | | | | | | | | 10.4 | 19.1 | 14 | 11.8 | 12.9 | 13.6 | 8 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | 0.0076 | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 104 | 139 | 124 | 106 | 102 | 95.7 | 100 |
| | Spec. Cond. | | | | | | | | | | | | | | 1040 | 1154 | 1199 | 1157 | 907.6 |
| | Sulfate | | | | | | | | | | | | 55 | 68.5 | 72.6 | 67.4 | 69 | 95.1 | 57.6 |
| | TDS | | | | | | | | | | | | 696 | 1136 | 1016 | 776 | 712 | 642 | 520 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 1227 | 22.7 | NT | NT | NS | 8.7 | NM |
| | Vanadium | | | | | | | | | | | | 0.0366 | ND | ND | ND | 0.0874 | ND | ND |
| | Zinc | | | | | | | | | | | | 0.16 | 0.0143 | 0.0109 | 0.0104 | 0.22 | 0.00708 | 0.0311 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW09 | Alkalinity | | | | | | | | | | | | 64 | 110 | 44 | 34 | 37 | 33 | 28 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.334 | 0.156 | 0.172 | 0.0682 | 1.33 | 0.0722 | 0.115 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 15.8 | 14.9 | 12.4 | 10.48 | 17.5 | 12 | 11 |
| | Chloride | | | | | | | | | | | | 11.9 | 10.9 | 12.3 | 12.1 | 13.6 | 12.9 | 13.9 |
| | Chromium | | | | | | | | | | | | 0.0588 | 0.032 | ND | 0.00903 | 0.0384 | 0.027 | 0.0263 |
| | Cobalt | | | | | | | | | | | | 0.0341 | 0.016 | ND | ND | 0.0603 | 0.00569 | 0.00872 |
| | COD | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0339 | 0.0174 | ND | 0.0083 | 0.0369 | 0.0196 | 0.017 |
| | Hardness | | | | | | | | | | | | 80 | 48 | 140 | 50 | 84 | 46 | 48 |
| | Iron | | | | | | | | | | | | 48.6 | 16.7 | ND | 3.05 | 26.2 | 6.41 | 14.7 |
| | Lead | | | | | | | | | | | | **0.0373** | 0.0132 | 0.0124 | ND | 0.0544 | ND | 0.0109 |
| | Magnesium | | | | | | | | | | | | 24.4 | 13.2 | 6.9 | 7.22 | 15.9 | 8.44 | 11.8 |
| | Manganese | | | | | | | | | | | | 1.8 | 0.689 | 0.196 | 0.242 | 3.19 | 0.273 | 0.415 |
| | Mercury | | | | | | | | | | | | ND | ND | 0.00035 | ND | 0.00045 | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0553 | 0.0274 | ND | 0.00936 | 0.034 | 0.0217 | 0.0249 |
| | Nitrate | | | | | | | | | | | | 1.25 | 1.25 | 1.14 | 1.47 | 1.18 | 1.45 | 1.49 |
| | pH | | | | | | | | | | | | | | 5.25 | 5.08 | 5.23 | 5.42 | 5.05 |
| | Potassium | | | | | | | | | | | | 17.8 | 7.41 | 1.54 | 2.09 | 9.63 | 3.45 | 5.4 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | 0.00879 | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 7.23 | 3.75 | 3.91 | 4.26 | 3.77 | 7.95 | 4.13 |
| | Spec. Cond. | | | | | | | | | | | | | | 105.3 | 105.1 | 122.5 | 120.2 | 70.2 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 168 | 172 | 116 | 80 | 112 | 196 | 96 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 1160 | 398 | NT | NT | NS | 446 | 1235 |
| | Vanadium | | | | | | | | | | | | 0.0541 | 0.0285 | ND | ND | 0.0306 | 0.00762 | 0.0167 |
| | Zinc | | | | | | | | | | | | 0.189 | 0.0777 | 0.0166 | 0.0242 | 0.157 | 0.0363 | 0.0871 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW10 | Alkalinity | | | | | | | | | | | | 100 | 75 | 78 | 65 | 79 | 59 | 86 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 1.49 | 0.124 | 0.414 | 0.116 | 0.157 | 0.0878 | 0.448 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 29.1 | 14.2 | 21.2 | 16.1 | 21.1 | 17.2 | 23.3 |
| | Chloride | | | | | | | | | | | | 6.75 | 19.4 | 8.02 | 8.31 | 9.6 | 6.76 | 7.95 |
| | Chromium | | | | | | | | | | | | **0.125** | ND | 0.00566 | 0.0102 | 0.0174 | 0.00814 | 0.0677 |
| | Cobalt | | | | | | | | | | | | 0.0659 | ND | 0.0103 | 0.00519 | 0.00667 | ND | 0.0308 |
| | COD | | | | | | | | | | | | ND | 36.6 | ND | 4.4 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.197 | 0.0123 | 0.0292 | 0.027 | 0.0283 | 0.0254 | 0.108 |
| | Hardness | | | | | | | | | | | | 110 | 70 | 72 | 68 | 82 | 60 | 90 |
| | Iron | | | | | | | | | | | | 201 | ND | 5.7 | 9 | 12.6 | 5.5 | 55.7 |
| | Lead | | | | | | | | | | | | **0.0611** | ND | **0.0153** | ND | 0.00502 | ND | **0.0181** |
| | Magnesium | | | | | | | | | | | | 78.3 | 9.1112 | 10.7 | 9.78 | 11.2 | 8.42 | 26.4 |
| | Manganese | | | | | | | | | | | | 3.59 | 0.044 | 0.38 | 0.158 | 0.212 | 0.0983 | 0.931 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.111 | ND | 0.013 | 0.0112 | 0.0172 | 0.00985 | 0.0607 |
| | Nitrate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | pH | | | | | | | | | | | | | | 5.35 | 5.8 | 5.53 | 5.95 | 5.9 |
| | Potassium | | | | | | | | | | | | 43.5 | 1.26 | 2.12 | 2.78 | 3.27 | 2.29 | 11.3 |
| | Selenium | | | | | | | | | | | | 0.0085 | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 12.4 | 10.1 | 8.3 | 8.54 | 9.1 | 12.4 | 9.52 |
| | Spec. Cond. | | | | | | | | | | | | | | 132.5 | 144.6 | 184 | 164.9 | 183 |
| | Sulfate | | | | | | | | | | | | 7.56 | 8.3 | 7.83 | 8.02 | 7.4 | 8.41 | 6.47 |
| | TDS | | | | | | | | | | | | 148 | 140 | 140 | 116 | 160 | 162 | 142 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 4340 | 3140 | NT | NT | NS | 203 | 1583 |
| | Vanadium | | | | | | | | | | | | 0.189 | ND | 0.00943 | 0.0242 | 0.0319 | 0.0143 | 0.124 |
| | Zinc | | | | | | | | | | | | 0.337 | 0.132 | 0.0575 | 0.0335 | 0.0444 | 0.0272 | 0.19 |

NEW MONITORING WELL Sampling Started in Fall 2010

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW11A | Alkalinity | | | | | | | | | | | | 50 | 27 | 40 | 33 | 37 | 29 | 33 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.749 | 0.274 | 0.148 | 0.138 | 0.183 | 0.111 | 0.185 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 23.4 | 14.8 | 15.1 | 11.4 | 15.8 | 12.5 | 17.3 |
| | Chloride | | | | | | | | | | | | 4.22 | 10.9 | 4.52 | 4.17 | 5.1 | 4.99 | 5.14 |
| | Chromium | | | | | | | | | | | | **0.144** | 0.0273 | 0.00963 | 0.0354 | 0.0514 | 0.032 | 0.0518 |
| | Cobalt | | | | | | | | | | | | 0.0695 | 0.0181 | 0.0103 | 0.014 | 0.0213 | 0.0119 | 0.0212 |
| | COD | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0825 | 0.026 | 0.0135 | 0.0452 | 0.0409 | 0.0321 | 0.046 |
| | Hardness | | | | | | | | | | | | 90 | 36 | 54 | 52 | 80 | 46 | 60 |
| | Iron | | | | | | | | | | | | 149 | 12.1 | 7.54 | 22.56 | 30.8 | 18.4 | 30.7 |
| | Lead | | | | | | | | | | | | **0.0499** | **0.0156** | 0.0122 | 0.00689 | 0.0136 | 0.00611 | 0.0117 |
| | Magnesium | | | | | | | | | | | | 66.6 | 11.2 | 8.63 | 11.7 | 13.9 | 9.74 | 16.4 |
| | Manganese | | | | | | | | | | | | 3.47 | 0.738 | 0.319 | 0.451 | 0.693 | 0.326 | 0.633 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.145 | 0.0277 | 0.0171 | 0.0312 | 0.0486 | 0.0297 | 0.0489 |
| | Nitrate | | | | | | | | | | | | 1.4774 | 1.1 | 1.94 | 1.29 | 2.25 | 1.87 | 2.57 |
| | pH | | | | | | | | | | | | | | 5.14 | 5.51 | 5.49 | 5.78 | 5.72 |
| | Potassium | | | | | | | | | | | | 27.7 | 1.87 | 1.3 | 4.85 | 4.82 | 3.64 | 6.81 |
| | Selenium | | | | | | | | | | | | 0.0056 | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 8.49 | 4.21 | 5.15 | 4.66 | 4.57 | 8.24 | 5.31 |
| | Spec. Cond. | | | | | | | | | | | | | | 92 | 93.3 | 114.8 | 111.2 | 111.7 |
| | Sulfate | | | | | | | | | | | | 7.07 | 6.28 | 5.94 | 5.83 | 5.76 | 6.22 | 5.93 |
| | TDS | | | | | | | | | | | | 108 | 72 | 96 | 64 | 108 | 176 | 116 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 4880 | 1600 | NT | NT | NS | 766 | 1272 |
| | Vanadium | | | | | | | | | | | | 0.124 | 0.0093 | 0.00545 | 0.0425 | 0.057 | 0.0328 | 0.0555 |
| | Zinc | | | | | | | | | | | | 0.334 | 0.0938 | 0.0493 | 0.0788 | 0.109 | 0.069 | 0.124 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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ND: Not Detected
Note: MCL exceedances are indicated in Red

# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW11B | Alkalinity | | | | | | | | | | | | 100 | 69 | 65 | 68 | 61 | 61 | 62 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0744 | 0.0194 | 0.0188 | 0.0252 | 0.021 | 0.021 | 0.0261 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 34.4 | 15.4 | 14.9 | 14.3 | 15.9 | 15.9 | 16.9 |
| | Chloride | | | | | | | | | | | | 4.18 | 4.79 | 4.38 | 4.9 | 5.06 | 5.06 | 6.57 |
| | Chromium | | | | | | | | | | | | 0.0082 | ND | ND | ND | ND | ND | ND |
| | Cobalt | | | | | | | | | | | | 0.005 | ND | ND | ND | ND | ND | ND |
| | COD | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0131 | ND | ND | 0.00742 | ND | ND | 0.00552 |
| | Hardness | | | | | | | | | | | | 94 | 66 | 58 | 62 | 62 | 62 | 62 |
| | Iron | | | | | | | | | | | | 6.97 | ND | ND | 1.37 | 0.567 | 0.567 | 0.948 |
| | Lead | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | | | | | | | | | | | | 8.36 | 6.63 | 6.3 | 7.72 | 6.62 | 6.62 | 8.18 |
| | Manganese | | | | | | | | | | | | 0.167 | 0.012 | 0.0107 | 0.0345 | 0.0178 | 0.0178 | 0.021 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.009 | ND | ND | ND | ND | ND | ND |
| | Nitrate | | | | | | | | | | | | 2.307 | 2.33 | 2.19 | 2.56 | 2.37 | 2.37 | 2.38 |
| | pH | | | | | | | | | | | | | | 6.13 | 6.36 | 6.17 | 6.17 | 6.46 |
| | Potassium | | | | | | | | | | | | 2.5 | 0.888 | 0.93 | 1.12 | 0.941 | 0.941 | 1.17 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 12.6 | 9.1 | 8.49 | 9.38 | 8.14 | 8.14 | 9.42 |
| | Spec. Cond. | | | | | | | | | | | | | | 123 | 156 | 147.8 | 147.8 | 144.9 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 156 | 132 | 116 | 132 | 136 | 136 | 134 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 72.4 | 4.99 | NT | NT | NS | NS | 15.8 |
| | Vanadium | | | | | | | | | | | | 0.0229 | ND | ND | 0.00615 | ND | ND | 0.0058 |
| | Zinc | | | | | | | | | | | | 0.0209 | ND | ND | 0.0106 | 0.00657 | 0.00657 | 0.00743 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW12 | Alkalinity | | | | | | | | | | | | 15 | 16 | 22 | 12 | 10 | 7 | 7.9 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 1.32 | 0.749 | 0.615 | 0.635 | 0.472 | 0.473 | 0.392 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 82 | 78.8 | 65.6 | 65.2 | 47.4 | 44.5 | 45.5 |
| | Chloride | | | | | | | | | | | | 374 | 371 | 286 | 348 | 211 | 246 | 197 |
| | Chromium | | | | | | | | | | | | 0.1 | ND | ND | 0.0181 | 0.0261 | ND | 0.0115 |
| | Cobalt | | | | | | | | | | | | 0.0492 | ND | ND | ND | 0.012 | ND | ND |
| | COD | | | | | | | | | | | | ND | ND | ND | 6.1 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.109 | 0.0111 | 0.00629 | 0.0168 | 0.0339 | 0.0159 | 0.0167 |
| | Hardness | | | | | | | | | | | | 360 | 356 | 280 | 276 | 188 | 196 | 170 |
| | Iron | | | | | | | | | | | | 100 | 2.59 | 1.22 | 4.09 | 17 | 1.27 | 7.12 |
| | Lead | | | | | | | | | | | | **0.0616** | ND | 0.0106 | ND | 0.0168 | ND | 0.00655 |
| | Magnesium | | | | | | | | | | | | 69.5 | 43.1 | 29.1 | 32.7 | 23 | 21.1 | 21.6 |
| | Manganese | | | | | | | | | | | | 3.02 | 0.138 | 0.103 | 0.155 | 0.532 | 0.0835 | 0.177 |
| | Mercury | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | | | | | | | | | | | | 0.0938 | 0.0113 | 0.00795 | 0.0205 | 0.0257 | 0.00961 | 0.0136 |
| | Nitrate | | | | | | | | | | | | 5.0188 | 4.38 | 4.87 | 4.43 | 4.9 | 4.49 | 5.02 |
| | pH | | | | | | | | | | | | | | 4.66 | 4.8 | 5.01 | 5.19 | 4.82 |
| | Potassium | | | | | | | | | | | | 23.1 | 5.14 | 4.12 | 4.49 | 5.42 | 4.06 | 4.3 |
| | Selenium | | | | | | | | | | | | 0.0062 | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 81.5 | 104 | 73.7 | 96.2 | 57.8 | 76.9 | 61.4 |
| | Spec. Cond. | | | | | | | | | | | | | | 836.7 | 1142 | 757 | 976.6 | 668 |
| | Sulfate | | | | | | | | | | | | 14.7 | 14.3 | 15.5 | 13.9 | 15.7 | 15 | 17.3 |
| | TDS | | | | | | | | | | | | 1520 | 1184 | 1020 | 1012 | 720 | 600 | 646 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 3920 | 57.4 | NT | NT | NS | 84.3 | 160 |
| | Vanadium | | | | | | | | | | | | 0.085 | ND | ND | ND | 0.0246 | ND | 0.00879 |
| | Zinc | | | | | | | | | | | | 0.269 | 0.0352 | 0.0306 | 0.039 | 0.0754 | 0.0238 | 0.0443 |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested
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ND: Not Detected
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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW13A | Alkalinity | | | | | | | | | | | | 50 | 224 | 34 | 227 | 32 | 34 | 32 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.332 | 0.199 | 0.273 | 0.687 | 0.249 | 0.213 | 0.397 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 26.5 | 23.8 | 24.5 | 29.1 | 26.3 | 25 | 26.9 |
| | Chloride | | | | | | | | | | | | 84.3 | 83.5 | 85.1 | 86.1 | 90.7 | 88.2 | 87.9 |
| | Chromium | | | | | | | | | | | | 0.024 | ND | ND | 0.0853 | 0.0224 | 0.00838 | 0.0409 |
| | Cobalt | | | | | | | | | | | | 0.029 | 0.0079 | 0.0114 | 0.0683 | 0.017 | 0.0109 | 0.0351 |
| | COD | | | | | | | | | | | | 34.6 | ND | ND | 10.1 | ND | 17.2 | ND |
| | Copper | | | | | | | | | | | | 0.071 | 0.0121 | 0.0137 | 0.197 | 0.0421 | 0.0271 | 0.09 |
| | Hardness | | | | | | | | | | | | 160 | 128 | 125 | 164 | 148 | 132 | 136 |
| | Iron | | | | | | | | | | | | 28.3 | 3.32 | 2.96 | 108 | 17.3 | 10.3 | 45.7 |
| | Lead | | | | | | | | | | | | 0.0112 | ND | 0.00686 | **0.0327** | **0.0069** | ND | 0.0146 |
| | Magnesium | | | | | | | | | | | | 23.5 | 20.7 | 19.7 | 47 | 19.7 | 18.2 | 30.5 |
| | Manganese | | | | | | | | | | | | 0.876 | 0.302 | 0.376 | 1.88 | 0.54 | 0.333 | 1.03 |
| | Mercury | | | | | | | | | | | | 0.00032 | 0.00026 | 0.00062 | **0.00257** | **0.00039** | 0.00033 | 0.00075 |
| | Nickel | | | | | | | | | | | | 0.0345 | 0.01 | 0.00966 | 0.0773 | 0.0249 | 0.0135 | 0.0427 |
| | Nitrate | | | | | | | | | | | | 2.48 | 2.29 | 2.17 | 1.97 | 2.08 | 1.88 | 1.67 |
| | pH | | | | | | | | | | | | | | 4.79 | 4.93 | 4.91 | 5.32 | 5.12 |
| | Potassium | | | | | | | | | | | | 8.65 | 3.03 | 2.72 | 22.6 | 6.15 | 4.75 | 11.3 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 17.6 | 16.1 | 15.5 | 15.1 | 14.9 | 16.5 | 12.5 |
| | Spec. Cond. | | | | | | | | | | | | | | 303 | 362.1 | 362.5 | 406.3 | 290.5 |
| | Sulfate | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | TDS | | | | | | | | | | | | 380 | 324 | 456 | 392 | 336 | 174 | 348 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 1048 | 56.8 | NT | NT | NS | 1082 | 1220 |
| | Vanadium | | | | | | | | | | | | 0.0626 | 0.0099 | 0.00944 | 0.238 | 0.0461 | 0.0197 | 0.113 |
| | Zinc | | | | | | | | | | | | 0.0902 | 0.0194 | 0.0224 | 0.231 | 0.0585 | 0.033 | 0.126 |

NEW MONITORING WELL
Sampling Started in Fall 2010

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# Table 4
# Metals and Other Water Quality Parameters - Long Term Summary

| Sample Site | Parameter | Spring 2005 | Fall 2005 | Spring 2006 | Fall 2006 | Spring 2007 | Fall 2007 | Spring 2008 | Fall 2008 | Spring 2009 | Fall 2009 | Spring 2010 | Fall 2010 | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2013 | Fall 2013 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Location MW13B | Alkalinity | | | | | | | | | | | | 230 | 720 | 226 | 742 | 226 | 224 | 221 |
| | Ammonia | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Antimony | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Arsenic | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Barium | | | | | | | | | | | | 0.0676 | 0.073 | 0.0706 | 0.0746 | 0.0676 | 0.0748 | 0.0754 |
| | Beryllium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cadmium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Calcium | | | | | | | | | | | | 82.7 | 80.5 | 83.4 | 91.2 | 81.4 | 83 | 86.2 |
| | Chloride | | | | | | | | | | | | 84.6 | 84.7 | 85.5 | 89.5 | 86.4 | 91 | 89.4 |
| | Chromium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Cobalt | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | COD | | | | | | | | | | | | 6.2 | 9.6 | 3.4 | 12.1 | ND | ND | ND |
| | Copper | | | | | | | | | | | | 0.0063 | ND | ND | ND | ND | 0.01 | ND |
| | Hardness | | | | | | | | | | | | 360 | 313 | 67 | 334 | 316 | 314 | 328 |
| | Iron | | | | | | | | | | | | 0.571 | ND | ND | 0.498 | 0.447 | 0.537 | 0.411 |
| | Lead | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Magnesium | | | | | | | | | | | | 27.6 | 31.4 | 31.2 | 32.2 | 26.9 | 28.1 | 30.4 |
| | Manganese | | | | | | | | | | | | 0.0306 | 0.0323 | 0.0324 | 0.0382 | 0.0403 | 0.0331 | 0.0371 |
| | Mercury | | | | | | | | | | | | 0.0002 | ND | ND | ND | 0.00029 | 0.0002 | 0.00027 |
| | Nickel | | | | | | | | | | | | ND | ND | ND | 0.00581 | 0.00683 | ND | 0.00565 |
| | Nitrate | | | | | | | | | | | | 1.467 | 1.62 | 1.6 | 1.88 | 2.08 | 2.27 | 2.44 |
| | pH | | | | | | | | | | | | | | 5.85 | 5.88 | 5.64 | 6.2 | 6.07 |
| | Potassium | | | | | | | | | | | | 3.3 | 4.07 | 3.53 | 3.5 | 3.67 | 4.71 | 3.35 |
| | Selenium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Silver | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | | | | | | | | | | | | 19.9 | 18.2 | 17.9 | 18.9 | 15.9 | 19.9 | 16.4 |
| | Spec. Cond. | | | | | | | | | | | | | | 586.8 | 713.4 | 706.1 | 781 | 673.7 |
| | Sulfate | | | | | | | | | | | | 6.18 | ND | 6.71 | 7.55 | 7.58 | 7.33 | 8.33 |
| | TDS | | | | | | | | | | | | 540 | 572 | 640 | 560 | 480 | 474 | 502 |
| | Thallium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Turbidity | | | | | | | | | | | | 0.232 | 0.364 | NT | NT | NS | 0 | 0 |
| | Vanadium | | | | | | | | | | | | ND | ND | ND | ND | ND | ND | ND |
| | Zinc | | | | | | | | | | | | ND | ND | ND | 0.00501 | 0.00618 | ND | 0.00659 |

NEW MONITORING WELL
Sampling Started in Fall 2010

NT: Not Tested
NS: Not Sampled
ND: Not Detected
Note: MCL exceedances are indicated in Red

# TABLE A - Filtered and Unfiltered Sampling Results for Metals

| Parameter | | Monitoring Well | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OB01 | OB02 | OB02A | OB03 | OB03A | OB04 | OB04A | OB06 | OB07 | OB07A |
| Antimony | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | Unfiltered | ND | ND | ND | ND | ND | ND | 0.00555 | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | Unfiltered | 0.184 | 0.0524 | 0.439 | 0.598 | 0.543 | 0.265 | 0.0612 | 0.18 | 0.0287 | 0.0455 |
| | Filtered | 0.186 | 0.0494 | 0.444 | 0.581 | 0.528 | 0.26 | 0.0595 | 0.18 | 0.0285 | 0.0451 |
| Beryllium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | Unfiltered | 73.4 | 23.6 | 112 | 64.4 | 67.2 | 164 | 123 | 136 | 123 | 93.6 |
| | Filtered | 74.4 | 23.4 | 112 | 69.5 | 63.2 | 169 | 122 | 144 | 120 | 93 |
| Chromium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | Unfiltered | 0.00681 | ND | ND | 0.0566 | 0.0561 | ND | ND | ND | ND | ND |
| | Filtered | 0.00681 | ND | ND | 0.063 | 0.0596 | ND | ND | ND | ND | ND |
| Copper | Unfiltered | 0.00605 | ND | ND | ND | ND | 0.0354 | 0.0284 | 0.00908 | ND | 0.0055 |
| | Filtered | 0.00606 | ND | ND | ND | 0.00533 | 0.0336 | 0.0238 | 0.00655 | ND | ND |
| Iron | Unfiltered | 0.541 | 1.01 | 0.521 | 20.6 | 25.6 | 0.729 | 0.932 | 1.4 | 0.564 | 0.43 |
| | Filtered | 0.371 | 0.285 | 0.49 | 22.3 | 24.2 | 0.722 | 0.535 | 0.642 | 0.537 | 0.41 |
| Lead | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | Unfiltered | 44 | 9.94 | 66.7 | 38.6 | 43 | 82 | 85.5 | 54.7 | 37.7 | 51.9 |
| | Filtered | 45 | 9.69 | 67.6 | 41.4 | 40.7 | 83.2 | 84.4 | 57.8 | 37.5 | 53.2 |
| Manganese | Unfiltered | 3.59 | 0.623 | 0.0548 | 19.4 | 16 | 2.59 | 1.48 | 0.481 | 0.0415 | 0.0704 |
| | Filtered | 3.54 | 0.619 | 0.0539 | 19.5 | 15.8 | 2.73 | 1.33 | 0.489 | 0.0392 | 0.0586 |
| Mercury | Unfiltered | ND | ND | ND | 0.00047 | ND | ND | ND | ND | 0.00039 | 0.00071 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | 0.00037 | 0.0006 |
| Nickel | Unfiltered | 0.0258 | ND | 0.0129 | 0.0188 | 0.0181 | 0.0139 | 0.021 | 0.0114 | 0.00568 | 0.00656 |
| | Filtered | 0.0265 | ND | 0.0131 | 0.0205 | 0.0189 | 0.0128 | 0.0186 | 0.0112 | 0.00685 | 0.0102 |
| Potassium | Unfiltered | 3.95 | 3.25 | 5.51 | 5.77 | 8.17 | 7.21 | 5.15 | 4.75 | 3.47 | 2.55 |
| | Filtered | 3.93 | 3.13 | 5.51 | 6.02 | 8.18 | 7.38 | 5.15 | 4.65 | 3.24 | 2.43 |
| Selenium | Unfiltered | ND | ND | ND | ND | ND | 0.0212 | 0.0239 | 0.0124 | 0.0064 | 0.00894 |
| | Filtered | ND | ND | ND | ND | ND | 0.0195 | 0.0217 | 0.0133 | 0.00767 | 0.00967 |
| Silver | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | Unfiltered | 63.5 | 10.2 | 39.8 | 35.7 | 55.7 | 64.8 | 90.4 | 87.3 | 20.8 | 24.9 |
| | Filtered | 65.2 | 10.2 | 39.8 | 37.8 | 52.6 | 65.7 | 89.6 | 93.4 | 20.6 | 25.2 |
| Thallium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | Unfiltered | 0.012 | 0.00616 | 0.00883 | 0.0154 | 0.0117 | 0.00797 | 0.0227 | 0.0208 | 0.00539 | 0.0066 |
| | Filtered | 0.0125 | 0.0052 | 0.00754 | 0.017 | 0.0117 | 0.00769 | 0.0198 | 0.018 | ND | ND |

ND: Not Detected
NS: Not Sampled

# TABLE A - Filtered and Unfiltered Sampling Results for Metals

| Parameter | | Monitoring Well | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OB08 | OB08A | OB10 | OB102 | OB105 | OB11 | OB11A | OB12 | OB15 | OB25 |
| Antimony | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | Unfiltered | ND | ND | ND | 0.00523 | 0.00577 | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | 0.00518 | ND | ND | ND | ND | ND | ND |
| Barium | Unfiltered | 0.126 | 0.0648 | 0.0763 | 0.347 | 0.144 | 0.0289 | 0.165 | 0.0178 | 0.0624 | 0.175 |
| | Filtered | 0.124 | 0.0645 | 0.0751 | 0.37 | 0.122 | 0.029 | 0.163 | 0.0185 | 0.0645 | 0.11 |
| Beryllium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | Unfiltered | ND | ND | ND | ND | ND | **0.0103** | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | **0.0104** | ND | ND | ND | ND |
| Calcium | Unfiltered | 65.3 | 52.4 | 55.8 | 116 | 169 | 135 | 99.6 | 33.8 | 16.8 | 91.2 |
| | Filtered | 66.7 | 57.6 | 54.7 | 121 | 173.1 | 142 | 96.6 | 34.9 | 16.1 | 73.3 |
| Chromium | Unfiltered | ND | ND | ND | ND | 0.0235 | ND | ND | ND | ND | 0.0117 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | Unfiltered | 0.00648 | 0.0161 | 0.00837 | 0.0704 | 0.0306 | ND | 0.0256 | ND | 0.0116 | 0.0373 |
| | Filtered | 0.00652 | 0.0162 | 0.00899 | 0.0721 | ND | ND | 0.0256 | ND | 0.0108 | 0.0172 |
| Copper | Unfiltered | ND | ND | ND | 0.0709 | 0.0415 | 0.00834 | 0.00649 | ND | 0.00585 | 0.0153 |
| | Filtered | ND | ND | ND | 0.0405 | ND | 0.00766 | 0.0055 | ND | ND | ND |
| Iron | Unfiltered | 0.676 | 3.94 | 1.75 | 2.03 | 24.7 | 0.638 | 1.19 | ND | 17.3 | 17 |
| | Filtered | 0.679 | 3.5 | 1.79 | 0.728 | 5.63 | 0.594 | 1.09 | 0.214 | 15.2 | 2.17 |
| Lead | Unfiltered | ND | ND | ND | ND | 0.0104 | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | Unfiltered | 16.5 | 21.6 | 34.4 | 96.9 | 127 | 67 | 70.6 | 20.2 | 17.3 | 69 |
| | Filtered | 16.9 | 24 | 33.7 | 100 | 125.64 | 69.7 | 67.5 | 21.3 | 16.9 | 51.1 |
| Manganese | Unfiltered | 6 | 7.16 | 5.2 | 20.1 | 3.53 | 0.76 | 7.21 | 0.118 | 1.1 | 18.2 |
| | Filtered | 6.11 | 7.2 | 4.76 | 20.5 | 3.38 | 0.787 | 7.13 | 0.12 | 1.1 | 10.1 |
| Mercury | Unfiltered | ND | ND | ND | ND | 0.00096 | 0.00106 | ND | ND | ND | 0.00022 |
| | Filtered | ND | ND | ND | ND | ND | 0.00066 | ND | ND | ND | ND |
| Nickel | Unfiltered | 0.00755 | 0.00718 | 0.0113 | 0.0907 | 0.0734 | 0.033 | 0.0236 | 0.00692 | 0.00799 | 0.0256 |
| | Filtered | 0.00765 | 0.00714 | 0.0119 | 0.0963 | 0.0306 | 0.0349 | 0.0239 | 0.00689 | 0.00873 | 0.011 |
| Potassium | Unfiltered | 2.71 | 2.91 | 2.98 | 46.7 | 15.4 | 5.17 | 6.78 | 2.88 | 2.07 | 16.4 |
| | Filtered | 2.83 | 2.82 | 3.07 | 48.3 | 12.7 | 4.91 | 6.67 | 2.77 | 2.08 | 13.4 |
| Selenium | Unfiltered | ND | ND | ND | 0.0188 | 0.0157 | 0.00545 | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | 0.0195 | 0.0172 | 0.00609 | 0.00518 | ND | ND | ND |
| Silver | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | Unfiltered | 26.4 | 30.1 | 20.8 | 483 | 184 | 71.3 | 102 | 21.2 | 50.6 | 83.5 |
| | Filtered | 27.2 | 33 | 20.1 | 499 | 190 | 72.6 | 97.8 | 22.2 | 51.7 | 56.2 |
| Thallium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | Unfiltered | ND | ND | ND | ND | 0.0362 | ND | ND | ND | ND | 0.00998 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | Unfiltered | 0.00571 | 0.00704 | 0.00811 | 0.0196 | 0.157 | 0.0413 | 0.0192 | 0.00586 | 0.0516 | 0.04 |
| | Filtered | ND | 0.00545 | 0.00832 | 0.0113 | 0.0172 | 0.0429 | 0.0188 | ND | 0.0584 | 0.00668 |

ND: Not Detected
NS: Not Sampled

# TABLE A - Filtered and Unfiltered Sampling Results for Metals

| Parameter | | Monitoring Well | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW1B | MW2A | MW2B | MW3A | MW3B | MW04 | MW06 | MW07 | MW08 | MW09 |
| Antimony | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | Unfiltered | 0.00851 | 0.0172 | 0.00696 | 0.0332 | 0.12 | 0.0383 | 0.259 | 0.0635 | 0.12 | 0.115 |
| | Filtered | 0.00721 | 0.0158 | 0.0071 | 0.00681 | 0.0136 | 0.0478 | 0.249 | 0.0623 | 0.118 | 0.0511 |
| Beryllium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | Unfiltered | 8.27 | 13.2 | 10.1 | 5.41 | 54.5 | 39.6 | 76.3 | 48.9 | 67.5 | 11 |
| | Filtered | 8.42 | 10.5 | 10.3 | 4.31 | 31 | 8.67 | 75.7 | 47.1 | 64.7 | 10.8 |
| Chromium | Unfiltered | 0.00711 | ND | ND | 0.0133 | **0.124** | ND | 0.00506 | ND | ND | 0.0263 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | Unfiltered | ND | 0.00517 | ND | 0.00514 | 0.0157 | ND | 0.388 | ND | ND | 0.00872 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0.319 | ND | ND | ND |
| Copper | Unfiltered | 0.00568 | 0.0106 | ND | 0.0196 | 0.054 | 0.0133 | 0.0133 | 0.0172 | 0.0134 | 0.017 |
| | Filtered | ND | 0.00563 | ND | ND | ND | 0.0119 | 0.00624 | 0.0172 | 0.0125 | 0.00556 |
| Iron | Unfiltered | 0.623 | 1.46 | ND | 11.7 | 24.9 | 0.97 | 3.47 | 0.391 | 0.498 | 14.7 |
| | Filtered | ND | 0.515 | ND | ND | ND | ND | 1.04 | 0.379 | 0.476 | ND |
| Lead | Unfiltered | ND | ND | ND | ND | **0.0171** | ND | ND | ND | ND | 0.0109 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | Unfiltered | 4.56 | 5.72 | 2.56 | 5.37 | 12 | 22.6 | 54.9 | 27.6 | 33.9 | 11.8 |
| | Filtered | 4.55 | 4.43 | 2.36 | 1.74 | 4.38 | 5.92 | 54.7 | 26.5 | 31.4 | 6.66 |
| Manganese | Unfiltered | 0.0189 | 0.602 | 0.023 | 0.141 | 0.465 | 0.175 | 48 | 1.3 | 0.0338 | 0.415 |
| | Filtered | 0.00527 | 0.234 | 0.0235 | ND | 0.0255 | 0.189 | 46.5 | 1.28 | 0.0322 | 0.123 |
| Mercury | Unfiltered | ND | 0.00029 | ND | ND | 0.00031 | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | Unfiltered | 0.00698 | 0.0278 | ND | 0.0128 | 0.114 | 0.0108 | 0.0463 | 0.00689 | ND | 0.0249 |
| | Filtered | ND | 0.0083 | ND | ND | 0.00605 | 0.00593 | 0.0344 | 0.00687 | ND | 0.00581 |
| Potassium | Unfiltered | 1.06 | 2.27 | 1.47 | 3.03 | 6.49 | 3.47 | 3.77 | 4.23 | 13.6 | 5.4 |
| | Filtered | 1.05 | 1.99 | 1.42 | 0.954 | 2.61 | 1.32 | 3.39 | 4.09 | 13.7 | 1.01 |
| Selenium | Unfiltered | ND | ND | ND | ND | ND | ND | 0.00839 | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | 0.00701 | ND | ND | ND |
| Silver | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | Unfiltered | 7.4 | 9.54 | 4.17 | 3.81 | 30.1 | 30.9 | 65.3 | 24.1 | 95.7 | 4.13 |
| | Filtered | 7.79 | 7.46 | 3.91 | 3.89 | 30.9 | 7.48 | 64.3 | 22.8 | 88.8 | 4.16 |
| Thallium | Unfiltered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | Unfiltered | ND | ND | ND | 0.0134 | 0.0233 | ND | ND | ND | ND | 0.0167 |
| | Filtered | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | Unfiltered | 0.00722 | 0.0322 | 0.00981 | 0.0372 | 0.0801 | 0.00903 | 0.0515 | 0.00977 | 0.00708 | 0.0871 |
| | Filtered | 0.00545 | 0.0311 | 0.00664 | ND | ND | 0.0114 | 0.0366 | 0.0107 | 0.00672 | 0.0234 |

ND: Not Detected
NS: Not Sampled

# TABLE A - Filtered and Unfiltered Sampling Results for Metals

| Parameter | | Monitoring Well | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MW10 | MW11A | MW11B | MW12 | MW13A | MW13B | Minimum | Maximum | Average |
| Antimony | Unfiltered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Arsenic | Unfiltered | ND | ND | ND | ND | ND | ND | 0.00523 | 0.00577 | 0.0055167 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0.00518 | 0.00518 | 0.00518 |
| Barium | Unfiltered | 0.448 | 0.185 | 0.0261 | 0.392 | 0.397 | 0.0754 | 0.00696 | 0.598 | 0.1641436 |
| | Filtered | 0.0841 | 0.0344 | 0.0192 | 0.335 | 0.172 | 0.076 | 0.00681 | 0.581 | 0.1333756 |
| Beryllium | Unfiltered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Cadmium | Unfiltered | ND | ND | ND | ND | ND | ND | 0.0103 | 0.0103 | 0.0103 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0.0104 | 0.0104 | 0.0104 |
| Calcium | Unfiltered | 23.3 | 17.3 | 16.9 | 45.5 | 26.9 | 86.2 | 5.41 | 169 | 65.721667 |
| | Filtered | 19.6 | 13.8 | 15.6 | 41.8 | 25.6 | 83.4 | 4.31 | 173.1 | 63.827778 |
| Chromium | Unfiltered | 0.0677 | 0.0518 | ND | 0.0115 | 0.0409 | ND | 0.00506 | 0.124 | 0.0348064 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Cobalt | Unfiltered | 0.0308 | 0.0212 | ND | ND | 0.0351 | ND | 0.00514 | 0.388 | 0.0439889 |
| | Filtered | ND | ND | ND | ND | 0.00972 | ND | 0.00652 | 0.319 | 0.051295 |
| Copper | Unfiltered | 0.108 | 0.046 | 0.00552 | 0.0167 | 0.09 | ND | 0.0055 | 0.108 | 0.0265244 |
| | Filtered | 0.00701 | ND | ND | 0.00578 | ND | ND | 0.00533 | 0.0405 | 0.0125513 |
| Iron | Unfiltered | 55.7 | 30.7 | 0.948 | 7.12 | 45.7 | 0.411 | 0.391 | 55.7 | 9.4365294 |
| | Filtered | ND | ND | ND | 0.229 | 0.43 | 0.417 | 0.214 | 24.2 | 3.1693704 |
| Lead | Unfiltered | 0.0181 | 0.0117 | ND | 0.00655 | 0.0146 | ND | 0.00655 | 0.0181 | 0.0127643 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Magnesium | Unfiltered | 26.4 | 16.4 | 8.18 | 21.6 | 30.5 | 30.4 | 2.56 | 127 | 38.028611 |
| | Filtered | 10.3 | 5.43 | 7.4 | 17.5 | 17.6 | 28.9 | 1.74 | 125.64 | 35.472222 |
| Manganese | Unfiltered | 0.931 | 0.633 | 0.021 | 0.177 | 1.03 | 0.0371 | 0.0189 | 48 | 4.6586528 |
| | Filtered | 0.0271 | 0.0175 | ND | 0.0419 | 0.346 | 0.0333 | 0.00527 | 46.5 | 4.5360285 |
| Mercury | Unfiltered | ND | ND | ND | ND | 0.00075 | 0.00027 | 0.000218 | 0.001061 | 0.0005416 |
| | Filtered | ND | ND | ND | ND | ND | 0.00024 | 0.000241 | 0.000657 | 0.0004678 |
| Nickel | Unfiltered | 0.0607 | 0.0489 | ND | 0.0136 | 0.0427 | 0.00565 | 0.00565 | 0.114 | 0.0263563 |
| | Filtered | 0.00662 | ND | ND | 0.00566 | 0.00825 | ND | 0.00566 | 0.0963 | 0.0166268 |
| Potassium | Unfiltered | 11.3 | 6.81 | 1.17 | 4.3 | 11.3 | 3.35 | 1.06 | 46.7 | 6.5777778 |
| | Filtered | 1.65 | 0.975 | 1.01 | 3.18 | 2.39 | 3.68 | 0.954 | 48.3 | 5.3774722 |
| Selenium | Unfiltered | ND | ND | ND | ND | ND | ND | 0.00545 | 0.0239 | 0.0134644 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0.00518 | 0.0217 | 0.012682 |
| Silver | Unfiltered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Sodium | Unfiltered | 9.52 | 5.31 | 9.42 | 61.4 | 12.5 | 16.4 | 3.81 | 483 | 54.325 |
| | Filtered | 12 | 6.29 | 9.06 | 57 | 15.7 | 16.3 | 3.89 | 499 | 53.548333 |
| Thallium | Unfiltered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Vanadium | Unfiltered | 0.124 | 0.0555 | 0.0058 | 0.00879 | 0.113 | ND | 0.0058 | 0.124 | 0.040667 |
| | Filtered | ND | ND | ND | ND | ND | ND | 0 | 0 | 0 |
| Zinc | Unfiltered | 0.19 | 0.124 | 0.00743 | 0.0443 | 0.126 | 0.00659 | 0.00539 | 0.19 | 0.036175 |
| | Filtered | 0.0158 | 0.00713 | ND | 0.0179 | 0.0128 | 0.0068 | 0.0052 | 0.0584 | 0.0158938 |

ND: Not Detected
NS: Not Sampled

# Appendix E

# Table of Groundwater Elevations and Groundwater Elevation Contour Map

**Results in (ft. AMSL)**

# TABLE 5 - Water Table Elevations
# Gude Landfill

| Monitoring Well | Well Elevation (ft) | Spring 2012 Water Elevation (ft) | Fall 2012 Water Elevation (ft) | Spring 2013 Water Elevation (ft) | Fall 2013 Water Elevation (ft) | Elevation Change From Spring 2013 | Fall 2013 Measured Water Elevation From Ground Level (ft) |
|---|---|---|---|---|---|---|---|
| OB01 | 415.90 | 401.32 | 398.82 | 401.06 | 398.94 | -2.1 | 16.96 |
| OB02 | 418.48 | 402.93 | 399.66 | 402.67 | 399.56 | -3.1 | 18.92 |
| OB02A | 418.61 | 403.16 | 399.55 | 402.78 | 399.35 | -3.4 | 19.26 |
| OB03 | 409.86 | 388.39 | 382.35 | 386.55 | 382.37 | -4.2 | 27.49 |
| OB03A | 410.06 | 388.45 | 382.34 | 386.60 | 382.81 | -3.8 | 27.25 |
| OB04 | 364.21 | 359.53 | 358.25 | 359.36 | 358.47 | -0.9 | 5.74 |
| OB04A | 365.37 | 360.16 | 358.81 | 360.01 | 359.04 | -1.0 | 6.33 |
| OB06 | 339.78 | 331.60 | 327.47 | 330.72 | 328.04 | -2.7 | 11.74 |
| OB07 | 329.49 | 323.33 | 318.40 | 322.56 | 318.98 | -3.6 | 10.51 |
| OB7A | 328.44 | 323.05 | 317.94 | 322.00 | 318.43 | -3.6 | 10.01 |
| OB08 | 325.11 | 318.74 | 317.25 | 318.16 | 317.17 | -1.0 | 7.94 |
| OB08A | 325.31 | 318.09 | 316.89 | 317.82 | 316.79 | -1.0 | 8.52 |
| OB10 | 325.77 | 318.99 | 318.45 | 319.06 | 318.38 | -0.7 | 7.39 |
| OB102 | 363.17 | 351.83 | 349.74 | 351.42 | 349.88 | -1.5 | 13.29 |
| OB105 | 363.45 | 360.90 | 359.25 | 360.35 | 359.80 | -0.5 | 3.65 |
| OB11 | 362.56 | 354.41 | 352.90 | 354.21 | 352.55 | -1.7 | 10.01 |
| OB11A | 361.90 | 353.67 | 352.65 | 353.84 | 352.33 | -1.5 | 9.57 |
| OB12 | 405.01 | 388.82 | 385.34 | 388.66 | 385.24 | -3.4 | 19.77 |
| OB015 | 410.01 | 390.22 | 386.04 | 390.43 | 386.16 | -4.3 | 23.85 |
| OB025 | 361.89 | 354.17 | 352.40 | 355.15 | 352.02 | -3.1 | 9.87 |
| MW1B | 434.00 | 384.34 | 383.41 | 382.12 | 382.43 | 0.3 | 51.57 |
| MW2A | 445.53 | 372.58 | 374.72 | 370.74 | 374.71 | 4.0 | 70.82 |
| MW2B | 444.45 | 372.58 | 374.87 | 370.53 | 375.09 | 4.6 | 69.36 |
| MW3A | 324.54 | 315.30 | 314.15 | 315.29 | 314.30 | -1.0 | 10.24 |
| MW3B | 324.73 | 316.57 | 314.81 | 316.74 | 314.96 | -1.8 | 9.77 |
| MW04 | 324.75 | 318.29 | 318.10 | 318.47 | 318.13 | -0.3 | 6.62 |
| MW06 | 417.29 | 402.20 | 399.74 | 401.98 | 399.83 | -2.1 | 17.46 |
| MW07 | 433.81 | 389.27 | 385.87 | 388.64 | 385.68 | -3.0 | 48.13 |
| MW08 | 412.66 | 392.46 | 385.36 | 390.52 | 385.51 | -5.0 | 27.15 |
| MW09 | 417.69 | 400.11 | 396.19 | 399.45 | 396.43 | -3.0 | 21.26 |
| MW10 | 394.03 | 387.79 | 382.60 | 386.36 | 382.78 | -3.6 | 11.25 |
| MW11A | 393.45 | 379.52 | 374.51 | 379.74 | 374.34 | -5.4 | 19.11 |
| MW11B | 393.40 | 378.34 | 374.12 | 377.54 | 374.26 | -3.3 | 19.14 |
| MW12 | 397.55 | 384.14 | 380.20 | 383.74 | 380.20 | -3.5 | 17.35 |
| MW13A | 373.37 | 367.55 | 365.71 | 367.53 | 366.02 | -1.5 | 7.35 |
| MW13B | 373.35 | 368.37 | 366.66 | 368.29 | 366.94 | -1.4 | 6.41 |
| AVERAGE | | | | | | **-2.0** | |

NOTES:
- Elevations are from Sea Level

**FALL 2013**

# General Groundwater Flow Direction at Gude Landfall - FALL 2013