



DEPARTMENT OF ENVIRONMENTAL PROTECTION

Isiah Leggett
County Executive

Lisa Feldt
Director

July 7, 2016

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 Spring 2016. This report has been developed based on the approved Groundwater and Surface Water Monitoring Plan (G&SWM) to monitor the water quality 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 September 2015 to March 2016. 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".

For this reporting period revisions and updates have been implemented with respect to sample collection, laboratory analysis, and data interpretations. Revisions in sampling methodology and laboratory analysis primarily relate to the metal concentrations in samples collected from Landfill's groundwater monitoring wells. Changing the sampling methodology was based on MDE's preferred sampling methodology as recommended during a coordination meeting held on March 3, 2015, and the purpose of conducting the laboratory analysis for metals under the lower Practical Quantitation Limit (PQL) was for added precision of the analytical results reported by the laboratory.

The lower PQL was obtained by utilizing a certified laboratory subcontracted to the Washington Suburban Sanitary Commission (WSSC) laboratory. Also, the statistical analyses have been updated and expanded to include additional data interpretations as requested by MDE. The expanded statistical analysis was performed by the County's Consultant (EA Engineering) and the results are included in Appendix F of this report.

The results obtained from the laboratory sample analyses for this reporting period are similar and comparable to the prior monitoring results with respect to the types and concentrations of pollutants. Table 2 in the report gives the historical data, and Appendix C presents a series of graphs depicting both current and historical data. The following sections provide a brief overview of the results obtained from the laboratory and statistical analyses for all the monitoring sites.

In describing the monitoring results for VOC and metals we continue to distinguish data that exceed a selected reference benchmark (Benchmark), and for that purpose we continue to use the USEPA Maximum Contaminant Level (MCL) drinking water standard. However, it is important to note that: (a) the MCL is a drinking water standard and (b) the groundwater monitored is nowhere being used as a source of drinking water.

VOLATILE ORGANIC COMPOUNDS:

The highlights of the results for this reporting period are described below. Please refer to Table 1 of the report for all the VOC results from the current sampling and to Table 2 and Appendix F for historical trend analyses.

- No VOCs were detected above Benchmark in the following monitoring wells and stream locations:
 - **Pre-existing monitoring wells:** OB01, OB02, OB02A, OB06, OB07, OB07A, OB15, OB25, and OB102.
 - **Monitoring wells installed in 2010:** MW1B, MW2A, MW2B, MW3A, MW3B, MW04, MW06, MW07, MW08, MW10, MW11A, and MW11B.
 - **Stream Locations:** No VOCs were detected above the Benchmark in any of the monitored stream locations.
- Twelve (12) VOCs were identified as having increasing statistical trends and sixteen (16) of the monitoring wells had one (1) or more VOCs with increasing statistical trends.
- Thirteen (13) VOCs were identified as having decreasing trends and fourteen (14) of the monitoring wells had one (1) or more VOCs with decreasing statistical trends.
- Nine (9) VOCs (benzene; chlorobenzene; 1,1-dichloroethane; cis-1,2-dichloroethene; 1,2-dichloropropane; methylene chloride; tetrachloroethene; trans-1,2-dichloroethene; vinyl chloride) had both decreasing and increasing trends.

- Three (3) VOCs had only increasing trends: 1,2-dichlorobenzene (OB03, OB11, OB11A); 1,4-dichlorobenzene (OB03, OB03A, OB04, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB105); and 1,2-dichloroethane (OB11, OB12).
- Four (4) VOCs had only decreasing trends: chloroethane (OB03, OB03A, OB12), dichlorodifluoromethane (MW-13A, MW-13B, OB03, OB03A, OB10, OB11A), trichloroethene (OB01, OBO2A, OB08A, OB11A), and trichlorofluoromethane (OB11A).
- A total of 36 VOCs exceeded the Benchmark in the following monitoring wells:
 - **Pre-existing monitoring wells:** OB03 (4 exceedances), OB03A (3 exceedances), OB08A (1 exceedance), OB10 (2 exceedances), OB11 (6 exceedances), OB11A (4 exceedances), OB12 (4 exceedances), and OB125 (1 exceedance).
 - **Monitoring wells installed in 2010:** MW09 (1 exceedance), MW13A (5 exceedances), and MW13B (5 exceedances).

The following include a summary of these 36 VOC concentrations exceeding the Benchmarks:

- 1,2-Dichloropropane concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB11, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 5.41 ug/l in MW13A to 11.6 ug/l in OB12.
- cis-1-2-Dichloroethene concentration exceeded the Benchmark of 70 ug/l in observation wells OB03, OB11, OB11A, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 73.5 ug/l in MW13B to 88.5 ug/l in OB03.
- Dichloromethane concentration exceeded the Benchmark of 5 ug/l in observation well OB11 at 8.71 ug/l.
- Tetrachloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB11, OB11A, OB12, MW09, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 6.78 ug/l in OB11A to 26.2 ug/l in OB12.
- Trichloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 15.6 ug/l in OB10 to 35.2 ug/l at OB03.
- Vinyl Chloride concentration exceeded the Benchmark of 2 ug/l in observation wells OB03, OB03A, OB08A, OB10, OB11, OB11A, OB12, OB25, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 2.6 ug/l in OB08A to 23.5 ug/l in OB10.

METALS AND OTHER PARAMETERS:

Starting with the Spring 2015 sampling event, revisions were made in sampling methodology and samples laboratory analyses for metals. These revisions were recommended by MDE and included changes in the method of collecting samples from “Three Well Volumes” method to “Low Flow” method. The main reason for this change in collection method was to

reduce the samples turbidity level associated with the “Three Well Volumes” method, as turbidity could potentially interfere with the accuracy of metal analyses.

A summary of the metals and other parameters (non-organic contaminants) laboratory results and statistical analysis for this reporting period are included below. Please refer to attached tables in “Appendix D” and statistical analysis in “Appendix F” of this report for additional information on metals and other water quality parameter results.

- Twenty-three (23) metals (total and dissolved) were identified as having increasing statistical trends and twenty (20) of the monitoring wells had one (1) or more metals with increasing statistical trends.
- Twenty-nine (29) metals (total and dissolved) were identified as having decreasing statistical trends, and twenty-nine (29) of the monitoring wells had one (1) or more metals with decreasing statistical trends.
- A total of 5 metals and other non-organic contaminants exceeded the Benchmark in the following monitoring locations:
 - **Pre-existing monitoring wells:** OB11 (1 exceedance) and OB102 (1 exceedance).
 - **Monitoring wells installed in 2010:** MW2A (1 exceedance), MW06 (1 exceedance), and MW13A (1 exceedance).
 - **Stream Locations:** No exceedances.

The following include a summary of these 5 metals and non-organic contaminants exceeding the Benchmarks:

- Arsenic with a Benchmark of 0.01 mg/l was exceeded in samples collected from OB102 at 0.012 mg/l concentration.
- Cadmium with a Benchmark of 0.005 mg/l was exceeded in sample collected from OB11 at 0.011 mg/l concentration.
- Chromium with a Benchmark of 0.1 mg/l was exceeded in samples collected from OB02A at 0.27 mg/l and MW06 at 0.53 mg/l concentrations.
- Mercury with a Benchmark of 0.002 mg/l was exceeded in a sample collected from OB13A with 0.0031 mg/l concentration.

As part of a recent study (Nature and Extend Study) under the guidance of MDE, the County also collected filtered samples to evaluate turbidity and its potential interferences to metals analysis. For this sampling event, only two samples exceeded the Benchmark concentrations in filtered samples. Cadmium with a Benchmark of 0.005 mg/l was exceeded in filtered sample collected from OB11 at 0.011 mg/l concentration. As indicated above, the Cadmium concentrations exceeding the Benchmark are identical for both filtered and unfiltered samples collected from the same monitoring location (OB11). Mercury concentration was not detectable in unfiltered sample collected from MW1B but detected as 0.004 mg/l in filtered sample for the same monitoring location.

Overall, 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 will continue to closely monitor and report on the presence of VOCs and other contaminants in conformance with the approved Monitoring Plan and your recommendations.

Please contact Dr. Ray Liou at (240) 777-6428 with any questions about this report.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Davidson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Bill Davidson, Section Chief
Northern Operations, Emissions, Strategic Planning

cc: Lisa Feldt, 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

SPRING 2016

Prepared by Montgomery County Department of Environmental Protection

Prepared for Maryland Department of Environment, Solid Waste Program

July 7, 2016

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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

In describing the monitoring results for VOC and metals we continue to distinguish data that exceed a selected reference benchmark (Benchmark), and for that purpose we continue to use the USEPA Maximum Contaminant Level (MCL) drinking water standard. However, it is important to note that: (a) the MCL is a drinking water standard and (b) the groundwater monitored is nowhere being used as a source of drinking water.

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 described below. Please refer to Table 1 of the report for all the VOC results from the current sampling and to Table 2 and Appendix F for historical trend analyses.

- No VOCs were detected above the Benchmark in the following monitoring wells and stream locations:
 - **Pre-existing monitoring wells:** OB01, OB02, OB03A, OB04A, OB06, OB07,

OB07A, OB015, OB25, and OB102.

- **Monitoring wells installed in 2010:** MW1B, MW2A, MW2B, MW3A, MW3B, MW04, MW06, MW07, MW08, MW10, MW11A, and MW11B.

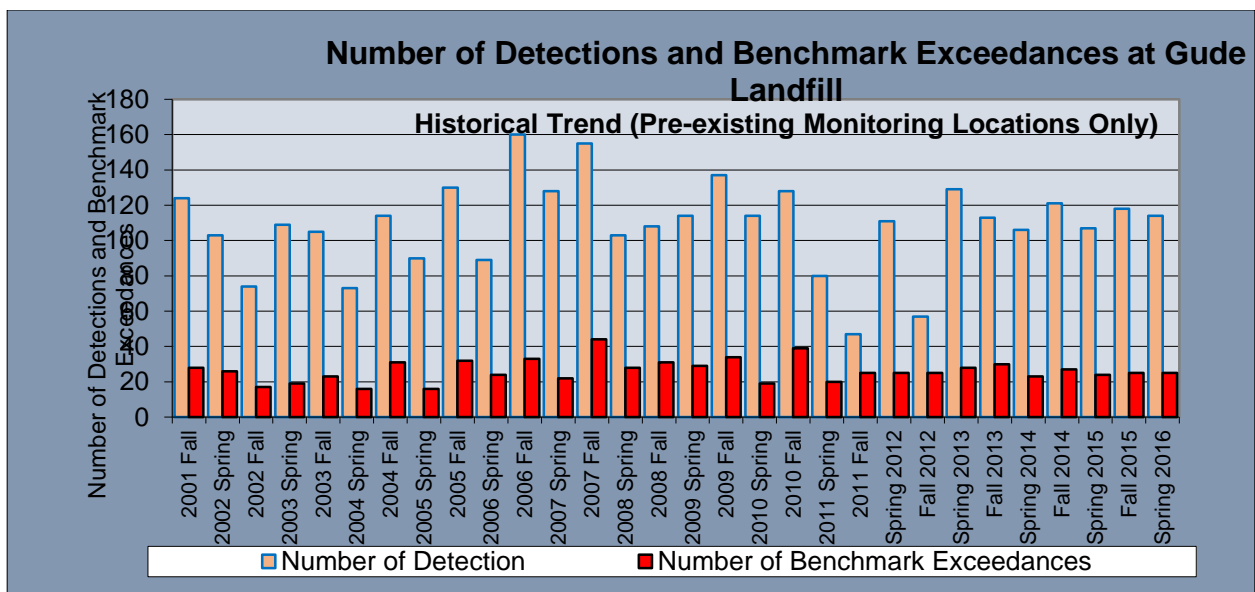
- **Stream Locations:** No VOCs were detected above the Benchmark in any of the monitored stream locations.

- Twelve (12) VOCs were identified as having increasing statistical trends and sixteen (16) of the monitoring wells had one (1) or more VOCs with increasing statistical trends.
- Thirteen (13) VOCs were identified as having decreasing trends and fourteen (14) of the monitoring wells had one (1) or more VOCs with decreasing statistical trends.
- Nine (9) VOCs (benzene; chlorobenzene; 1,1-dichloroethane; cis-1,2-dichloroethene; 1,2-dichloropropane; methylene chloride; tetrachloroethene; trans-1,2-dichloroethene; vinyl chloride) had both decreasing and increasing trends.
- Three (3) VOCs had only increasing trends: 1,2-dichlorobenzene (OB03, OB11, OB11A); 1,4-dichlorobenzene (OB03, OB03A, OB04, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB105); and 1,2-dichloroethane (OB11, OB12).
- Four (4) VOCs had only decreasing trends: chloroethane (OB03, OB03A, OB12), dichlorodifluoromethane (MW-13A, MW-13B, OB03, OB03A, OB10, OB11A), trichloroethene (OB01, OBO2A, OB08A, OB11A), and trichlorofluoromethane (OB11A).
- A total of 36 VOCs exceeded the Benchmark in the following monitoring wells:
 - **Pre-existing monitoring wells:** OB03 (4 exceedances), OB03A (3 exceedances), OB08A (1 exceedance), OB10 (2 exceedances), OB11 (6 exceedances), OB11A (4 exceedances), OB12 (4 exceedances), and OB125 (1 exceedance).
 - **Monitoring wells installed in 2010:** MW09 (1 exceedance), MW13A (5 exceedances), and MW13B (5 exceedances).

The following include a summary of these 36 VOC concentrations exceeding the Benchmarks:

- 1,2-Dichloropropane concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB11, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 5.41 ug/l in MW13A to 11.6 ug/l in OB12.
- cis-1-2-Dichloroethene concentration exceeded the Benchmark of 70 ug/l in observation wells OB03, OB11, OB11A, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 73.5 ug/l in MW13B to 88.5 ug/l in OB03.
- Dichloromethane concentration exceeded the Benchmark of 5 ug/l in

- observation well OB11 at 8.71 ug/l.
- Tetrachloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB11, OB11A, OB12, MW09, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 6.78 ug/l in OB11A to 26.2 ug/l in OB12.
- Trichloroethene concentration exceeded the Benchmark of 5 ug/l in observation wells OB03, OB03A, OB10, OB11, OB11A, OB12, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 15.6 ug/l in OB10 to 35.2 ug/l at OB03.
- Vinyl Chloride concentration exceeded the Benchmark of 2 ug/l in observation wells OB03, OB03A, OB08A, OB10, OB11, OB11A, OB12, OB25, MW13A, and MW13B. Concentrations exceeding the Benchmark for this compound ranged from 2.6 ug/l in OB08A to 23.5 ug/l in OB10.



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

2. Inorganic and Metals Sampling Results:

Starting with the Spring 2015 sampling event, revisions were made in sampling methodology and samples laboratory analyses for metals. These revisions were recommended by MDE and included changes in the method of collecting samples from “Three Well Volumes” method to “Low Flow” method. The main reason for this change in collection method was to reduce the samples turbidity level associated with the “Three Well Volumes” method, as turbidity could potentially interfere with the accuracy of metal analyses.

A summary of the metals and other parameters (non-organic contaminants) laboratory results and statistical analysis for this reporting period are included below. Please refer to attached tables in “Appendix D” and statistical analysis in “Appendix F” of this report for additional information on metals and other water quality parameter results.

- Twenty-three (23) metals (total and dissolved) were identified as having increasing statistical trends and twenty (20) of the monitoring wells had one (1) or more metals with increasing statistical trends.
- Twenty-nine (29) metals (total and dissolved) were identified as having decreasing statistical trends, and twenty-nine (29) of the monitoring wells had one (1) or more metals with decreasing statistical trends.
- A total of 5 metals and other non-organic contaminants exceeded the Benchmark in the following monitoring locations:
 - **Pre-existing monitoring wells:** OB11 (1 exceedance) and OB102 (1 exceedance).
 - **Monitoring wells installed in 2010:** MW2A (1 exceedance), MW06 (1 exceedance), and MW13A (1 exceedance).
 - **Stream Locations:** No exceedances.

The following include a summary of these 5 metals and non-organic contaminants exceeding the Benchmarks:

- Arsenic with a Benchmark of 0.01 mg/l was exceeded in samples collected from OB102 at 0.012 mg/l concentration.
- Cadmium with a Benchmark of 0.005 mg/l was exceeded in sample collected from OB11 at 0.011 mg/l concentration.
- Chromium with a Benchmark of 0.1 mg/l was exceeded in samples collected from OB02A at 0.27 mg/l and MW06 at 0.53 mg/l concentrations.
- Mercury with a Benchmark of 0.002 mg/l was exceeded in a sample collected from OB13A with 0.0031 mg/l concentration.

As part of a recent study (Nature and Extend Study) under the guidance of MDE, the County also collected filtered samples to evaluate turbidity and its potential interferences to metals analysis. For this sampling event, only two samples exceeded the Benchmark concentrations in filtered samples. Cadmium with a Benchmark of 0.005 mg/l was exceeded in filtered sample collected from OB11 at 0.011 mg/l concentration. As indicated above, the Cadmium concentrations exceeding the Benchmark are identical for both filtered and unfiltered samples collected from the same monitoring location (OB11). Mercury concentration was not detectable in unfiltered sample collected from MW1B but detected at 0.004 mg/l in filtered sample for the same monitoring location.

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
Total Dissolved Solids (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 overall average groundwater elevation at Gude Landfill has increased by 1.3 ft. from September 2015 to March 2016. 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:

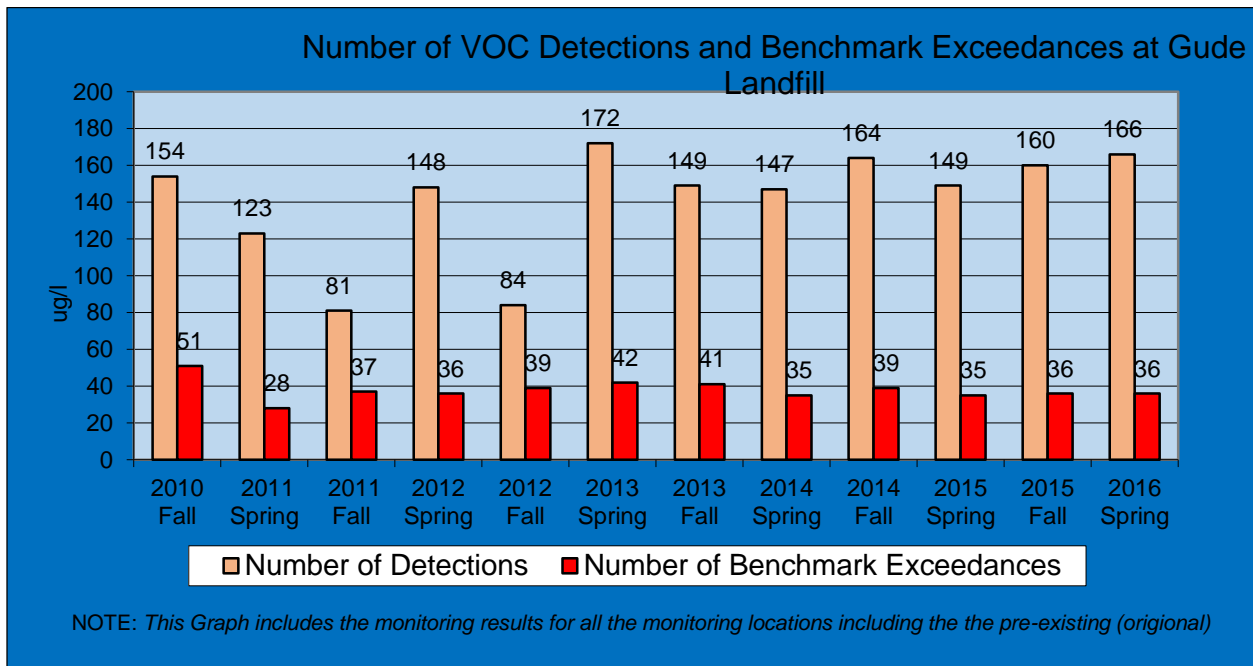
Results obtained from the latest monitoring activities (Spring 2016) are similar and comparable to those collected from prior monitoring results for the past several years. Major findings indicate that:

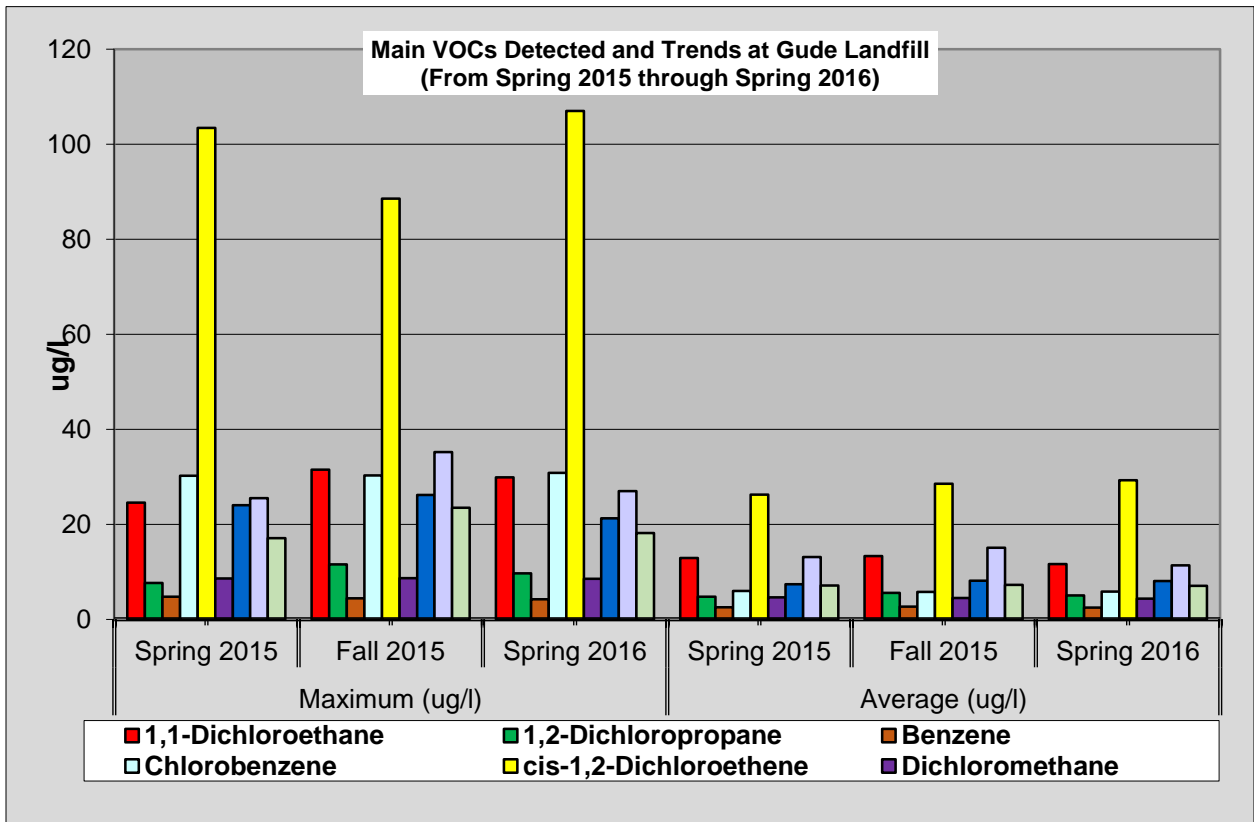
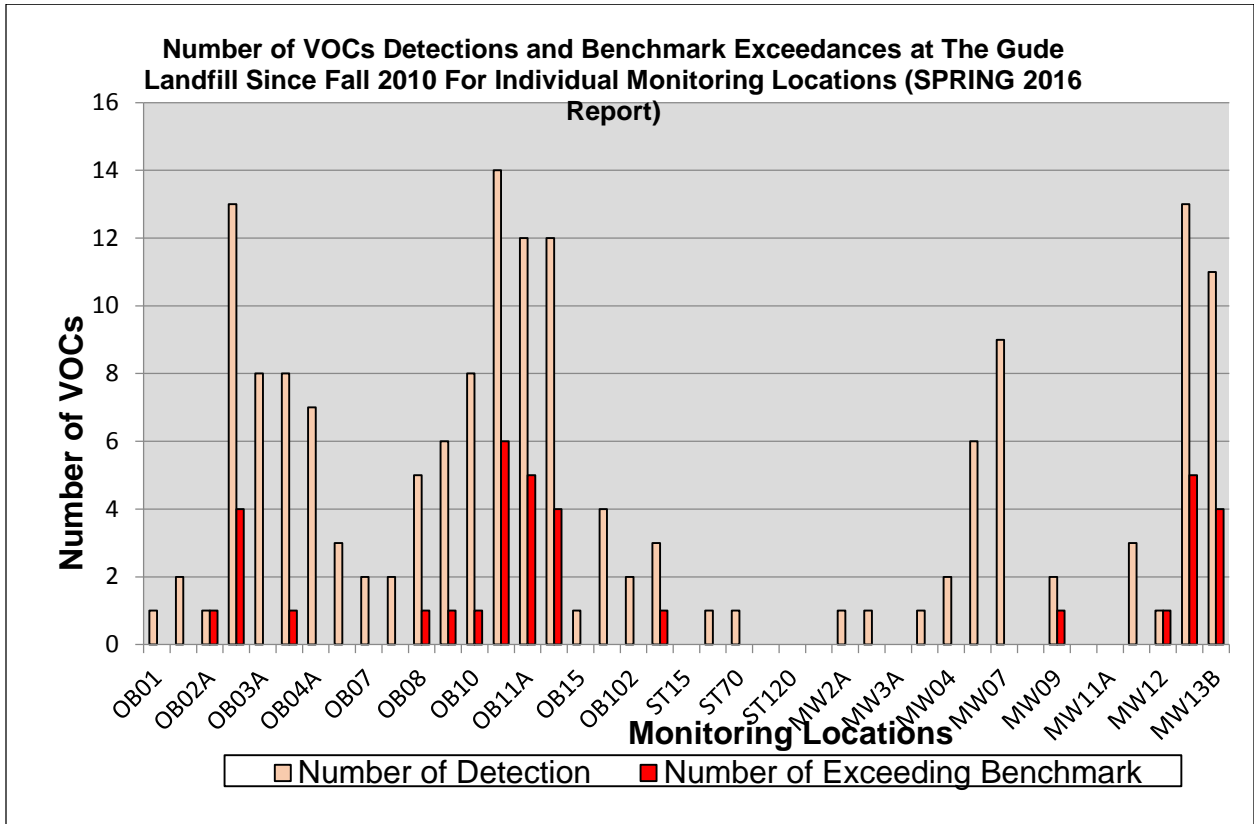
- I. There are indications of some low level groundwater and surface water contamination in the vicinity of Gude Landfill including multiple Benchmark exceedances.
- II. Detected contaminants at Gude Landfill mainly involve chlorinated solvent degradation products including 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride.
- III. Historically most of the contaminants and Benchmark 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.

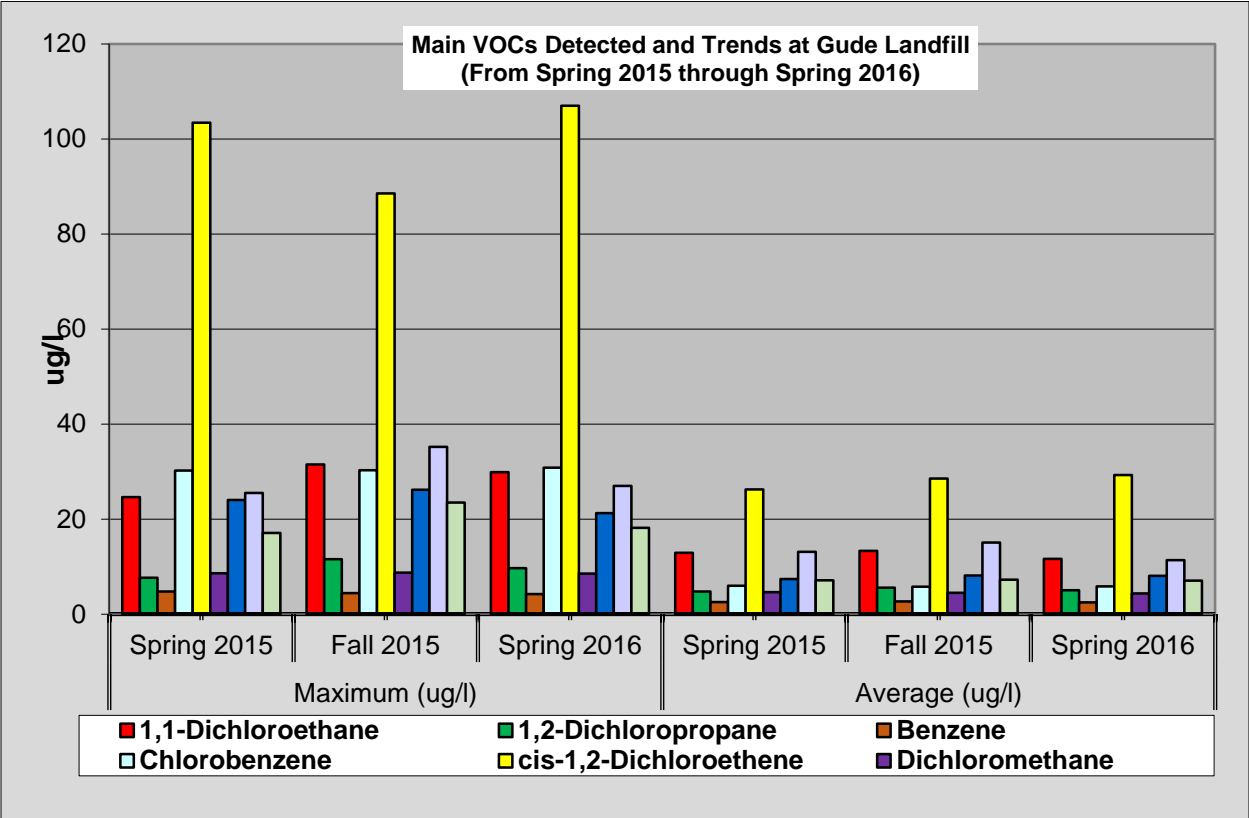
To provide an overall perspective on the quality of groundwater and surface water around the Gude Landfill, a summary of statistical trend analyses and observations are provided below and

are included in Appendix F 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 10-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 Benchmark 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

Appendix B

Tables of Volatile Organic Compounds

Results in ($\mu\text{g/l}$)

TABLE 1 - Volatile Organic Compounds

	Parameter	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	
SPRING 2016	1,1,1,2-Tetrachloroethane	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	
	1,1,2,2-Tetrachloroethane	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	
	1,1-Dichloroethane	ND	ND	ND	29.9	7.19	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	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
	1,2-Dibromo-3-chloropropan	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
	1,2-Dichlorobenzene	ND	ND	ND	1.54	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	3.54	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	8.41	2	ND	ND	ND	ND	ND	ND	1.24
	1,4-Dichlorobenzene	ND	1.37	ND	13.5	4.08	7.55	9.95	1.33	ND	ND	ND	2.7
	2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	2.25	ND	2.12	2.15	ND	ND	ND	ND	ND
	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromodichloromethane	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
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	2.38	ND	1.82	1.41	1.7	1.63	1.61	ND	ND	ND	3.97
	Chloroethane	ND	ND	ND	1.05	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.79	ND	ND	87.8	21	15.3	20.2	1.34	1.83	1.37	10.6	ND
	cis-1,3-Dichloropropene	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
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	2.13	3.85	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND	ND	1.83	1.65	ND	1.07	1.34	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	ND	ND	ND	6	1.46	ND	ND	ND	ND	ND	ND	ND
	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,4-Dichloro-2-buten	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	14.6	3.36	1.57	1.66	ND	ND	ND	ND	ND	
Trichlorofluoromethane	ND	ND	ND	1.77	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	ND	13.2	3.62	1.68	2.4	ND	ND	ND	ND	ND	2.89	
Xylene (Total)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	

ND: Not Detected
NT: Not Tested

TABLE 1 - Volatile Organic Compounds

	OB08A	OB10	OB11	OB11A	OB12	OB15	OB25	OB102	OB105	MW1B	MW2A	MW2B	MW3A	MW3B	MW04	MW06
SPRING 2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	2.68	17.9	16.7	21.2	ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	1
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	3.11	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	3.16	2.66	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2.14	3.31	5.67	5.1	9.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5.87	8.46	18.6	18	9.23	ND	1.49	1.37	3.05	ND	ND	ND	ND	ND	ND	4.43
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.17	ND	11.6
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1.08	2.23	4.13	2.59	4.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8.56	3.18	30.8	25.2	3.4	ND	1.56	2.38	ND	ND	ND	ND	ND	ND	ND	8.02
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	15.1	38.8	107	74.8	31.6	ND	9.22	ND	7.11	ND	ND	ND	ND	ND	1.18	13.4
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	8.56	ND	5.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	21.3	8.6	20.7	ND	ND	ND	ND	ND	2.79	2.51	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	2.43	3.95	3.44	3.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	11.9	22.9	20.9	19.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	ND	1.61	ND	1.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
18.2	ND	15.9	6.39	ND	1.43	ND	ND	14.5	ND	ND	ND	ND	ND	1.41	1.25	
NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
NT: Not Tested

TABLE 1 - Volatile Organic Compounds

	MW07	MW08	MW09	MW10	MW11A	MW11B	MW12	MW13A	MW13B	ST15	ST65	ST70	ST80	ST120
SPRING 2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1.37	ND	ND	ND	ND	ND	ND	15.4	13.3	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	2.19	2.32	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	6.43	6.58	ND	ND	ND	ND	ND
	18.2	ND	ND	ND	ND	ND	ND	5.69	8.87	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	28.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.88	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1.29	ND	ND	ND	ND	ND	ND	2.09	3.11	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4.31	ND	ND	ND	ND	ND	ND	1.58	1.92	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	1.57	ND	ND	ND	1.61	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8.4	ND	ND	ND	ND	1.44	ND	95.8	78.4	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1.79	ND	ND	ND	ND	ND	ND	3.95	4.95	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2.34	ND	9.16	ND	ND	4.58	ND	18.8	16.7	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	3.38	3.18	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2.17	ND	1.04	ND	ND	1.43	ND	27	19.9	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ND	ND	ND	ND	ND	ND	ND	7.67	8.09	ND	ND	ND	ND	ND	
NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ND: Not Detected
 NT: Not Tested

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
OB01	1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethane	NS	1.02	1.85	0.75	1.33	ND	ND	ND	ND	1.09	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	NS	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NS	ND	NT	1	1.48	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane	NS	ND	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	NS	ND	ND	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	NS	ND	1.94	2.81	3.19	ND	ND	1.9	ND	1.64	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	NS	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NS	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	NS	ND	1.03	1.57	1.43	ND	ND	1.3	ND	1.1	ND	ND	ND	ND	ND	ND
	Chloroethane	NS	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	NS	ND	ND	0.92	0.74	ND	ND	ND	ND	1.38	ND	ND	ND	ND	ND	ND
	Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	NS	ND	11.8	ND	7.71	6.6	ND	6.2	ND	6.68	1.9	2.81	2.39	2.97	1.63	1.79
	cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	NS	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	5.12	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	NS	ND	ND	ND	0.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	NS	ND	ND	0.34	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	NS	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	NS	1.2	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	NS	ND	ND	0.67	0.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	NS	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	NS	ND	ND	2.77	5.09	ND	ND	1.2	ND	1.3	ND	ND	ND	ND	ND	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.38	1.15	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	ND
	Dibromochloromethane	ND	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	ND
	Dichloromethane	ND	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	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	ND	
Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	6.87	9.19	ND	0.65	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	ND
	Dibromochloromethane	ND	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	ND
	Dichloromethane	ND	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	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	ND
	Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	1.39	1.01	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	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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	36.07	48.38	45	13.2	36.40	23	ND	23	34.4	34.3	37.8	18	29.8	24.6	31.5	29.9
	1,1-Dichloroethene	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	ND	ND	ND	1.52	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	1.34	ND	NT	0.83	1.92	ND	ND	1.2	ND	1.47	1.57	NT	1.29	1.06	1.51	1.54
	1,2-Dichloroethane	4.09	4.81	ND	1.24	3.84	ND	6	ND	ND	3.68	2.61	1.87	3.74	2.69	4.29	3.54
	1,2-Dichloropropane	12.33	16.14	15.8	3.6	10.10	4.1	11	6.8	12.8	10.5	15.3	5.49	8.57	6.9	9.63	8.41
	1,4-Dichlorobenzene	ND	ND	13.6	11.7	11.30	ND	ND	9.7	16.6	12.4	18.2	8.08	12.2	8.84	14	13.5
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.12	ND	8.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	3.2	5.53	4.56	1.83	4.24	ND	5.5	1.9	ND	3.44	5.38	1.32	4.18	1.62	4.27	2.25
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	NT	NT	ND	0.12	ND	3.9	ND	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	2.04	2.76	2.98	7.22	2.26	5.7	2.4	3.1	ND	2.04	2.43	1.8	1.79	1.35	1.95	1.82
	Chloroethane	1.19	1.61	1.55	0.79	1.51	ND	ND	ND	ND	1.2	ND	ND	ND	ND	1.1	1.05
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	5.3	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	120.9	164.77	156	31.7	117.00	38	ND	71	94.9	97.1	126	54.7	86	74	88.5	87.8
	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	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	5.57	ND	2.05	ND	1.71	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	4.49	ND	ND	11.00	ND	6.2	ND	ND	2.39	ND	ND	3.19	ND	ND	ND	
Toluene	ND	ND	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	12.43	11.02	9.59	3.11	7.01	6.3	14	4.8	7.24	6.92	3.98	3.72	6.61	4.59	6.41	6	
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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	107.44	130.79	131	17.4	81.60	21	82	47	75.6	57.9	87.4	24.2	45.4	21.9	35.2	14.6	
Trichlorofluoromethane	ND	ND	4.88	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND	ND	1.45	1.77	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	17.61	29.48	30.5	7.84	28.00	11	41	14	17.5	17.4	16.8	8.89	18.2	11.1	12.8	13.2	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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
	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	41.01	46.99	25.3	3.23	32.40	ND	ND	11	30.5	12.5	32.5	7.46	21.2	3.77	19.5	7.19
	1,1-Dichloroethene	ND	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	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	1.65	ND	NT	0.42	0.81	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane	4.4	4.1	ND	ND	3.30	ND	3.7	ND	ND	1.47	2.76	ND	2.66	ND	2.37	ND
	1,2-Dichloropropane	13.07	13.54	9.1	0.92	10.80	ND	8.1	2.9	10.5	3.67	12.8	2.25	6.24	ND	5.64	2
	1,4-Dichlorobenzene	ND	ND	12.6	5.92	9.28	ND	ND	6.3	14.1	5.64	16	3.82	9.01	2.09	8.08	4.08
	2-Butanone	NT	NT	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5.44	4.08	4.19	1.2	4.06	ND	4.7	1.3	ND	1.51	4.53	ND	3.33	ND	2.32	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	NT	NT	ND	0.13	ND	ND	ND	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	2.87	3.73	5.52	5.21	2.78	ND	3.3	3.4	ND	2.46	2.78	1.83	2.1	ND	1.62	1.41
	Chloroethane	1.38	1.69	1.21	0.33	1.31	ND	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	1.54	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	141.19	137.52	84.9	6.23	98.10	11	ND	33	94.6	34.1	94.8	22.9	56.2	11.2	53.2	21
	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	2	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	1.39	1.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	26.21	3.67	7.11	ND	17.80	ND	ND	ND	ND	ND	ND	1.18	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	11.68	9.08	6.06	1.01	5.93	ND	9	2.3	6.13	2.69	5.83	1.46	4.06	ND	3.83	1.46	
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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	101.3	113.09	66.7	2.71	19.30	ND	56	18	64.8	18	64	4.7	27.2	1.87	20.7	3.36	
Trichlorofluoromethane	ND	ND	3.08	ND	2.47	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	22.43	27.36	22.9	1.99	23.50	ND	31	ND	15.8	7.33	12.5	4.26	11.7	2.07	8.16	3.62	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	0.35	ND	22	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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	ND	ND	0.45	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	0.46	ND	ND	ND	ND	ND	1.01	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	0.52	ND	ND	ND	ND	ND	1.15	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	ND	6.06	5.92	2.91	ND	ND	5.9	5.7	14.7	5.2	5.82	5.31	5.97	5.85	7.55	
	2-Butanone	NT	NT	ND	0.41	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.49	11.90	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.21	1.68	1.62	1.6	2.04	2.2	ND	1.6	ND	3.73	1.54	1.61	1.73	1.98	1.86	2.12	
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	ND	1.09	1.18	0.90	ND	ND	1.4	ND	2.85	ND	1.38	1.39	1.56	1.53	1.7	
	Chloroethane	ND	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	ND
	Chloromethane	ND	ND	ND	ND	ND	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	15.43	18.92	17	16.8	8.32	67	ND	14	12.4	27.7	ND	12.4	12.4	13.2	13.3	15.3	
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	1.42	1.93	1.72	1.03	7.7	ND	ND	ND	3.48	1.73	1.65	1.66	2.06	1.8	2.13	
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.34	1.99	1.25	1.69	0.70	13	ND	2	ND	3.93	1.24	1.63	1.39	1.59	1.45	1.83	
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	0.45	ND	5.4	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	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	1.4	1.82	1.66	1.51	1.08	17	ND	1.6	ND	3.42	1.76	1.38	1.35	1.36	1.49	1.57		
Trichlorofluoromethane	ND	ND	ND	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	1.47	1.53	1.26	2.16	ND	ND	ND	ND	3.03	1.71	1.4	1.49	1.57	1.41	1.68		
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	0.47	ND	ND	ND	ND	ND	1.06	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	ND	ND	0.57	0.51	ND	ND	ND	ND	1.33	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	4.46	ND	7.33	6.97	4.66	ND	ND	7.6	6.94	15.9	6.23	7.07	6.83	7.95	7.66	9.95	9.95
	2-Butanone	NT	NT	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	18.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.32	1.65	1.68	1.65	2.45	ND	2.1	1.6	ND	3.5	1.94	1.57	1.7	1.97	1.86	2.15	2.15
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	1.07	1.14	1.14	0.87	ND	ND	1.3	ND	2.56	ND	1.25	1.37	1.34	1.33	1.63	1.63
	Chloroethane	ND	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	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	20.7	24.4	21.8	21.7	8.54	ND	ND	20	16.4	36.8	19.4	16	15.6	17.8	17.3	20.2	20.2
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	2.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	2.98	3.38	3.18	3.39	ND	4.4	ND	ND	6.57	ND	2.88	2.8	2.74	3.43	3.85	3.85
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.34	1.7	1.23	1.52	0.60	ND	1.3	1.9	ND	3.36	ND	1.35	1.14	1.39	1.36	1.65	1.65
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	0.55	ND	ND	2.2	ND	ND	1.22	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	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	1.45	1.87	1.83	1.71	1.07	ND	1.3	1.9	ND	3.39	ND	1.47	1.27	1.47	1.63	1.66	1.66	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	1.39	1.65	2.12	1.83	2.78	ND	ND	ND	ND	4.37	2.26	1.78	2.35	2.06	1.98	2.4	2.4	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	1.43	ND	0.93	ND	ND	7	ND	1.66	1.21	1.42	1.26	1.35	1.12	1.33	
	2-Butanone	NT	NT	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	ND	ND	0.66	0.56	ND	ND	ND	ND	1.4	1.21	1.41	1.05	1.3	1.3	1.61	
	Chloroethane	ND	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	ND
	Chloromethane	ND	ND	ND	ND	0.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	2.39	2.55	2.12	1.82	1.64	ND	ND	1.6	ND	1.65	ND	1.39	1.28	1.21	1.21	1.34	
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	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	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	1.01	ND	ND	0.68	ND	ND	ND	ND	ND	1.16	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	0.36	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	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
 NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
OB07	1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethene	NS	ND	ND	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	NS	ND	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	NS	ND	NT	0.47	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	NS	ND	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	NS	ND	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	NS	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	NS	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	NS	1.45	1.63	1.3	1.48	ND	ND	1.7	ND	1.7	1.66	1.7	1.67	1.53	1.64	1.83	
	cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	NS	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	NS	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	NS	1.3	ND	1.23	1.61	ND	23	ND	ND	1.52	ND	1.19	1.2	ND	1.14	1.07	
	Toluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	NS	ND	ND	0.49	0.72	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	1.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.85	3.51	3	1.66	1.80	ND	ND	ND	ND	2.18	1.58	2.17	1.55	1.74	1.73	1.37	
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	5.8	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	2.12	2.66	1.81	1.94	1.82	2	23	2	ND	2.06	1.99	1.83	1.4	1.2	1.43	1.34	
	Toluene	ND	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	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	0.64	0.88	ND	21	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	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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	1.2	0.46	0.87	ND	ND	ND	ND	ND	1.38	ND	1.49	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	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	ND	ND	0.54	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	NT	0.59	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	1.24	1.16	1.19	0.78	1.2	ND	1.6	ND	ND	1.54	1.65	1.6	1.2	1.02	1.24
	1,4-Dichlorobenzene	ND	ND	2.15	2.92	1.84	ND	ND	4	ND	1.01	1.59	3.66	3.52	2.4	2.39	2.7
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	2.7	0.21	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	0.63	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	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	22.02	1.95	3.13	3.31	6.1	ND	5.7	4.41	1.52	4.26	4.87	6.88	3.75	4.01	3.97
	Chloroethane	ND	ND	ND	0.41	0.55	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	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	3.1	10.93	10.4	10.3	8.39	8.9	ND	17	14.6	8.33	18.4	15.9	20.8	10.6	10.4	10.6
	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	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	NT	NT	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	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	0.87	0.66	ND	ND	ND	ND	ND	ND	ND	1.2	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	0.42	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	0.02	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	2.04	2.35	2.91	3.18	ND	ND	4	3.68	1.78	4.41	3.53	3.83	1.8	1.55	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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	1.47	0.44	0.97	ND	ND	ND	ND	ND	1.54	1.15	ND	ND	ND	ND
	1,1-Dichloroethene	ND	1.07	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	NT	ND	ND	ND	ND	ND	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	NT	0.32	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	ND	2.11	2.02	1.47	1.10	ND	ND	2	ND	1.08	3.09	2.11	1.8	1.86	2.06	2.14
	1,4-Dichlorobenzene	ND	ND	3.97	3.34	2.83	ND	ND	4.7	4.19	1.14	1.91	4.78	4.48	4.19	3.92	5.87
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	1.09	1.03	0.89	0.99	ND	ND	1.1	ND	ND	ND	ND	1.07	1.06	1.03	1.08
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	NT	NT	ND	ND	ND	ND	ND	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	3.43	3.38	3.93	4.22	7.3	ND	6.6	5.04	1.54	5.3	5.81	7.75	7.48	7.05	8.56
	Chloroethane	ND	ND	ND	0.47	0.62	1	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	ND	ND	ND	ND	0.89	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	8.42	22.57	21.2	13.4	14.10	12	ND	21	19.6	9.61	26.2	20.7	12.1	11.1	11.9	15.1
	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	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	1.48	1.37	0.99	0.89	ND	ND	ND	ND	ND	1.98	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	1.52	1.29	0.64	0.51	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	0.01	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	5.16	6.5	4.11	4.76	ND	ND	5.4	4.99	2.31	6.38	4.86	4.99	3.39	2.6	2.89	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
OB10	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	1.51	ND	3.49	ND	5.60	ND	ND	ND	4.06	7.23	4.91	3.33	3.73	2.86	3.45	2.68
	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	NT	ND	ND	ND	ND	ND	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	NT	ND	ND	ND	ND	ND	ND	1.02	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane	ND	ND	ND	ND	0.64	ND	ND	ND	ND	1.43	ND	ND	ND	ND	1.01	ND
	1,2-Dichloropropane	1.84	ND	2.53	1.26	2.65	ND	ND	2.8	ND	5.86	2.36	2.69	3.25	2.86	4.26	3.31
	1,4-Dichlorobenzene	ND	ND	4.84	2.1	5.54	ND	ND	5	7.09	12.9	9.31	7.07	8.74	6.93	10.4	8.46
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	1.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	1.1	ND	1.72	0.82	2.04	ND	2.4	1.6	ND	3.49	2.16	1.76	2.26	1.89	2.43	2.23
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	2.3	ND	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	0.32	0.98	ND	ND	1.2	ND	3.16	1.2	2	2.77	2.25	3.46	3.18
	Chloroethane	ND	ND	ND	0.24	0.68	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	ND	ND	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	9.73	ND	17.9	11.5	24.00	9.6	ND	24	25.6	51.2	33.9	29	36.7	30.8	46.1	38.8
	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	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	1.03	2.86	1.95	ND	2.3	1.8	ND	3.43	ND	1.75	1.88	1.26	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.49	ND	2.39	1.18	3.94	ND	3.9	ND	ND	5.16	2.22	2.61	3.11	2.61	3.05	2.43	
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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	3.73	ND	13.3	5.27	13.40	ND	11	12	14.4	25.4	17.9	12.6	13.1	10	15.6	11.9	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	12.62	ND	6.07	2.39	11.70	ND	17	9	12.5	26.6	14.4	15.2	19.2	17.1	23.5	18.2	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	1.43	ND	ND	1.6	1.12	ND	ND	1.4	ND	ND	1.14	1.27	1.55	1.3	1.62	1.37	
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	<5	
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	1.41	3.43	2.27	1.7	1.51	ND	ND	2.6	ND	ND	2.14	2.14	2.22	2.36	2.74	2.38	
	Chloroethane	ND	ND	ND	0.05	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	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.46	1.54	1.38	1.13	0.65	ND	ND	ND	ND	ND	1.26	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	ND
	Dibromochloromethane	ND	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	ND
	Dichloromethane	ND	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	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	ND
Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
 NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S						
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	ND					
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND					
	1,2-Dibromo-3-chloropropan	ND	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	ND					
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND					
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
	1,2-Dichloropropane	ND	ND	ND	ND		0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
	1,4-Dichlorobenzene		1.46	ND		3.38	0.72	3.32	ND	ND		3.9	4.51		7.03	ND	3.66	4.22	1.78	2.37	3.05		
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	2-Hexanone	NT	NT	ND		0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Acetone	NT	NT		1.27	ND		31.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Benzene	ND	ND	ND	ND		0.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND		
	Bromodichloromethane	ND	ND	ND	ND	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	ND	ND	ND	ND		
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND		
	Chlorobenzene	ND	ND	ND	ND		0.55	ND	ND	ND	ND		1.24	ND	ND	ND	ND	ND	ND	ND	ND		
	Chloroethane	ND	ND	ND	ND		0.89	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	ND	ND	ND	ND		
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	cis-1,2-Dichloroethene		7.14	ND		11.1	0.97	ND	ND	ND		14	15		24.6	ND		11.4	11.6	3.17	5.54	7.11	
	cis-1,3-Dichloropropene	ND	ND	ND	ND	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	ND	ND	ND	ND		
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Dichloromethane	ND	ND	ND	ND		0.77	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	ND	ND	ND	ND		
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	ortho-Xylene	ND	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Styrene	ND	ND	ND	ND	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	ND	ND	ND	ND		
	Toluene	ND	ND	ND	ND	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	ND	ND	ND	ND			
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Trichloroethene	ND	ND		1.25	ND		1.38	ND		2.1		1.4	ND		2.96	ND		1.47		1.46	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND		1.51	ND		3.03	ND	ND	ND	ND		1.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	NT	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	1.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane	23	31.01	33.4	20.4	15.10	ND	ND	21	22.4	22.1	21.2	21.6	19.4	18.8	18.1	17.9	
	1,1-Dichloroethene	ND	0.89	1.03	0.45	0.93	25	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	1.55	ND	NT	1.75	1.51	3.9	ND	3	ND	2.69	1.41	NT	3	2.86	2.89	3.11	
	1,2-Dichloroethane	3.68	4.66	4.72	ND	3.94	2.8	ND	ND	ND	3.66	3.57	3.64	3.78	3.07	3.42	3.16	
	1,2-Dichloropropane	6.31	8.28	8.15	4.9	6.10	5.1	7.2	6.3	ND	6.13	6.5	6.26	6.11	5.57	5.53	5.67	
	1,4-Dichlorobenzene	6.43	ND	14.6	9.13	9.85	ND	ND	17	14.8	14.9	13.7	16.9	17.5	16.8	16.3	18.6	
	2-Butanone	NT	NT	ND	ND	0.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	24.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	6.16	9.56	9.37	4.32	8.29	5.2	12	6.9	ND	6.02	6.17	5.72	4.88	4.78	4.32	4.13	
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	24.60	ND	ND	ND	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	ND
	Chlorobenzene	35.91	52.75	50	28.3	34.30	52	ND	41	34.5	34.6	31	33.4	32.2	30.2	30.3	30.8	
	Chloroethane	ND	ND	ND	ND	0.57	ND	17	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	ND
	Chloromethane	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	137.27	190.55	184	123	73.60	ND	ND	160	94.8	64.16	135.88	131	90.5	103.4	79	107	
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	19.47	28.72	30.6	7.21	24.20	16	18	12	13	12.3	12	10.6	9.6	8.58	8.71	8.56	
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	6.41	2.67	ND	1.65	5.6	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	52.48	67.92	43.9	35.6	19.60	26	44	47	40.1	36.9	32.2	32.3	27.1	24	21.7	21.3	
	Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	8.83	7.15	6.37	3.19	2.78	4.9	3.3	4.6	ND	4.31	4.94	4.41	4	3.58	3.79	3.95		
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	42.66	53.74	51.5	31.2	33.90	28	37	39	34.2	32.6	34.6	29.6	27.6	25.5	26.3	22.9		
Trichlorofluoromethane	2.85	4.58	3.98	1.61	3.78	6.8	ND	3.3	ND	2.47	2.04	2.33	2.09	2	1.6	1.61		
Vinyl Acetate	NT	NT	NT	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	8.73	15.64	20.3	7.43	20.90	14	ND	13	14.1	13.9	14	14.6	15.7	15.4	14.6	14.5		
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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	24.24	23.08	27.8	16.8	16.40	ND	ND	15	15.8	15.2	16.4	13.1	15.3	15.9	15.1	16.7
	1,1-Dichloroethene	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	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	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	2.05	ND	NT	1.67	1.10	2.8	ND	2.1	ND	1.87	2.05	NT	2.21	2.19	2.05	2.7
	1,2-Dichloroethane	4.48	3.6	ND	2.7	1.88	ND	ND	ND	ND	2.48	3.56	2.09	2.41	2.5	2.68	2.66
	1,2-Dichloropropane	7.26	6.44	7.2	4.18	4.06	3.7	ND	4.6	ND	4.08	3.75	3.9	4.39	4.48	4.7	5.1
	1,4-Dichlorobenzene	12.3	ND	15.2	13.4	9.32	ND	ND	15	13.7	13.8	15	13.5	16.3	15.2	12.2	18
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.12	22.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	7.13	6.67	7.51	4.19	3.59	3.5	ND	4.3	ND	3.73	4.13	2.94	3.07	2.93	2.47	2.59
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	NT	NT	ND	0.12	22.80	ND	ND	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	39.6	33.51	36.9	21.3	20.60	29	ND	24	22.3	20.5	21.1	17.6	23	21.4	20.2	25.2
	Chloroethane	ND	ND	ND	0.39	0.89	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	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	173.52	148.44	168	113	81.60	76	ND	100	89	78.6	96.5	68.5	74	75.8	74.2	74.8
	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	1.73	2.72	1.77	2.4	5.45	1.8	ND	5.9	ND	1.11	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	5.76	2.49	ND	2.00	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	53.26	44.75	33.8	26.3	10.70	14	ND	27	22.8	19.1	19.7	12.8	13.2	10.3	6.78	8.6	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	10.82	5.07	5.45	3.07	3.18	ND	ND	3.1	ND	3.02	3.91	2.68	3.14	2.94	2.93	3.44	
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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	45.34	39.05	42.4	26.1	21.60	17	ND	28	24.7	24	28.8	20.1	22	21.5	18.6	20.9	
Trichlorofluoromethane	2.1	2.09	2.14	1.26	2.53	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	12.75	13.43	15.4	10.2	31.60	11	ND	12	13.1	12.9	14.9	11.1	15	14.7	14	15.9	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	12.72	10.97	22.7	10.6	39.20	23	ND	21	18.3	22.6	15.1	21.4	21	20.2	18.6	21.2	
	1,1-Dichloroethene	ND	ND	ND	ND	0.54	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	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	1.08	ND	ND	0.63	1.17	ND	ND	ND	ND	1.07	ND	1.07	1.55	1.07	1.78	1.4	1.4
	1,2-Dichloropropane	5.61	3.62	5.55	2.93	6.29	3.3	ND	5.8	9.71	6.48	8.07	7.09	8.23	7.65	11.6	9.68	9.68
	1,4-Dichlorobenzene	2.82	ND	4.18	2.83	4.51	ND	ND	5.4	6.4	6.13	4.3	7.28	8.46	6.36	10	9.23	9.23
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.59	0.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	2.66	1.82	2.63	1.89	3.46	2.2	ND	3.5	ND	3.61	3.27	3.82	3.95	3.73	4.41	4.23	4.23
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	0.59	0.70	ND	ND	ND	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	ND
	Chlorobenzene	ND	ND	1.21	0.92	1.46	ND	ND	2.1	ND	2.27	1.23	2.69	2.82	2.65	3.38	3.4	3.4
	Chloroethane	2.5	2.61	1.39	0.87	1.64	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	ND
	Chloromethane	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	26.92	26.86	21.4	12.4	26.20	14	ND	23	32.1	22.5	30.6	24.9	31.3	24.5	43.2	31.6	31.6
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane	6.24	4.91	8.27	11.3	8.19	10	ND	ND	5.01	7.93	ND	6.3	4.44	5.34	4.73	5.34	5.34
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	0.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	21.49	7.95	15.4	20	17.10	12	1.8	22	26.5	22.3	14.4	20.8	18.5	15.6	26.2	20.7	20.7	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.52	1.23	1.91	1.62	2.44	1.8	ND	2.5	ND	2.55	2.09	2.81	2.91	2.5	2.65	3.13	3.13	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	18.35	6.22	18.1	11.6	20.30	9.4	ND	17	24.9	16.7	16	16.7	18.3	15	28.9	19.7	19.7	
Trichlorofluoromethane	1.78	ND	2.42	1.8	3.80	4.5	ND	2.2	ND	2.17	1.74	1.87	2.21	1.47	2.47	1.92	1.92	
Vinyl Acetate	NT	NT	NT	0.01	ND	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	3.97	6.99	6.3	7.32	6.22	ND	ND	6.4	ND	6.64	2.95	5.7	5.66	5.76	3.84	6.39	6.39	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
OB15	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	4.03	4.04	4.62	1.08	12.00	2.3	ND	3.1	ND	1.56	3.73	ND	1.59	ND	1	ND	
	1,1-Dichloroethene	ND	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	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane	ND	ND	ND	0.05	0.98	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	ND
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	1.51	1.17	1.51	1.18	1.02	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	ND
	Dibromochloromethane	ND	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	ND
	Dichloromethane	ND	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	0.48	0.54	ND	ND	1.1	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	ND
trans-1,2-Dichloroethene	ND	ND	ND	0.39	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	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	2.31	1.23	1.1	ND	2.2	ND	1.18	2.11	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	9.17	2.78	3.92	3.55	10.20	ND	ND	1.9	ND	ND	1.87	ND	ND	ND	ND	ND	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
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	1.13	0.63	1.11	ND	ND	ND	ND	ND	2.16	ND	1.04	ND	ND	1.42
	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	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	ND	ND	ND	143	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	NT	ND	ND	ND	ND	ND	ND	ND	NT	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	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	ND	ND	3.16	0.71	3.80	ND	ND	3.7	3.3	ND	6.84	ND	3.36	ND	1.15	1.49
	2-Butanone	NT	NT	ND	0.45	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	ND	ND	ND	ND	2.11	ND	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	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	NT	NT	ND	ND	ND	ND	ND	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	1.07	ND	1.93	0.47	4.50	ND	ND	ND	ND	ND	7.75	ND	3.13	ND	2.15	1.56
	Chloroethane	ND	ND	ND	0.17	0.69	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	6.23	4.12	7.5	4.52	6.82	ND	ND	4.9	9.55	ND	19.5	ND	7.38	3.14	7.14	9.22
	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	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	0.86	ND	ND	3.8	ND	1.4	3.92	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	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	1.66	0.81	2.24	ND	ND	2.1	ND	ND	ND	ND	ND	ND	2.07	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	4.29	ND	2.61	0.38	4.04	ND	ND	ND	ND	ND	3.47	ND	2.21	ND	2.78	1.43	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
ST15	1,1,1,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,1-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,2,2-Tetrachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1-Dichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	3.65	ND	ND	ND	ND	NS	ND
	1,1-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2,3-Trichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NS	ND
	1,2-Dibromo-3-chloropropan	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dichlorobenzene	NS	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND
	1,2-Dichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,4-Dichlorobenzene	NS	ND	ND		0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	2-Butanone	NS	NT	ND	ND		0.56	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	2-Hexanone	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	4-Methyl-2-Pentanone	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Acetone	NS	NT	ND		0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Acrylonitrile	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Benzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromochloromethane	NS	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND
	Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Carbon disulfide	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Carbon Tetrachloride	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chlorobenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloroform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	cis-1,2-Dichloroethene	NS	ND	ND		0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dibromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Ethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Methyl Iodide	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Methyl Tertiary Butyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	ortho-Xylene	NS	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	NS	ND
	para-Xylene & meta-Xylene	NS	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	NS	ND
	Styrene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Tetrachloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Toluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
trans-1,4-Dichloro-2-buten	NS	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Trichloroethene	NS		2.2	ND		1.38	ND	ND	ND	ND		1.5	ND	ND	NS	ND	
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Vinyl Acetate	NS	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Vinyl Chloride	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Xylene (Total)	NT	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NS	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND		0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND		0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND		1.8	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND		0.87	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND		1.15	1.54	0.57	1.26	ND	ND	ND	ND		1.3	2.26	ND	1.33	ND	1.13
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	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	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene	ND	ND	ND	ND		1.10	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	ND
trans-1,2-Dichloroethene	ND	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	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND		0.27	0.90	ND	ND	ND	ND	ND		1.01	ND	ND	ND	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
ST65	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1-Dichloroethane	ND	1.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	NS	ND
	1,2-Dibromo-3-chloropropan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND
	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,2-Dichloropropane	ND	1.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Acetone	NT	NT	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.15	NS	5.88
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	NS	ND
	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Bromomethane	ND	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Chloromethane	ND	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	cis-1,2-Dichloroethene	ND	9.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	NS	ND
	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Toluene	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	NS	ND	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Trichloroethene	ND	7.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Vinyl Chloride	ND	1.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	3.6	NT	NT	ND	NT	NT	NT	NS	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.61
	Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	ND	1.17	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	ND
	Dibromochloromethane	ND	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	ND
	Dichloromethane	ND	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	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	7.27	1.19	4.27	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	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	ND	
Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	2.2	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
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	ND
	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan	ND	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	ND
	1,2-Dichlorobenzene	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane	ND	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	ND
	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone	NT	NT	ND	0.69	1.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Bromochloromethane	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane	ND	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	ND
	Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide	NT	NT	ND	ND	ND	ND	ND	ND	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	ND
	Chlorobenzene	ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane	ND	ND	ND	ND	ND	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	ND
	cis-1,3-Dichloropropene	ND	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	ND
	Dibromomethane	ND	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	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	ND	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	ND
	Toluene	ND	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	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	NT	NT	NT	ND	ND	ND	ND	ND	ND	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	ND	
Xylene (Total)	NT	NT	NT	NT	NT	ND	ND	1.6	NT	NT	ND	NT	NT	NT	NT	NT	NT	

NT: Not Tested
 NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW1B	1,1,1,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2,3-Trichloropropane					NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	
	1,2-Dibromo-3-chloropropan					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2-Dibromoethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	
	1,2-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2-Dichloropropane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,4-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Butanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Hexanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4-Methyl-2-Pentanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acetone					NT	ND	ND	ND	ND	ND	ND	ND	ND		10	ND	ND
	Acrylonitrile					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	Bromodichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW2A	1,1,1,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane					NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					NT	ND	ND	ND	ND		40.8	ND	ND	ND	ND	ND	ND
	Acrylonitrile					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					NT		4	2.5	2.2	3.3	ND		2.45	3.84	2.02	1.85	2.02	2.79
Toluene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	1.51	ND	ND	ND	ND	
Trichlorofluoromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW2B	1,1,1,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2,2-Tetrachloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane					NT	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromoethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					NT	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromomethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					NT		1.9	3	3.2	3.27	ND		2.57	3.93	2.32	2.18	2.28	2.51
Toluene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW3A	1,1,1,2-Tetrachloroethane					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	
	1,1,2,2-Tetrachloroethane					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	
	1,1-Dichloroethane					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	
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	
	1,2-Dibromo-3-chloropropan					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	
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	
	1,2-Dichloroethane					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	
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzene					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	
	Bromodichloromethane					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	
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon Tetrachloride					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	
	Chloroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Chloroform					1.46	1.5	1.6	1.8	ND		1.15	1.64	2.5	2.19	1.44	1.28	ND
	Chloromethane					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	
	cis-1,3-Dichloropropene					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	
	Dibromomethane					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	
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	
	Styrene					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	
Toluene					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		
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene					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		
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT		

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW3B	1,1,1,2-Tetrachloroethane					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	
	1,1,2,2-Tetrachloroethane					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	
	1,1-Dichloroethane					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	
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	
	1,2-Dibromo-3-chloropropan					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	
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2-Dichloroethane					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	
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Bromodichloromethane					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	
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon Tetrachloride					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	
	Chloroethane					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	
	Chloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	cis-1,2-Dichloroethene					1.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	ND	ND
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					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
Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					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	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

NT: Not Tested
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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW04	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					ND	9.3	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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					ND	1.1	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane					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
	Chloromethane					ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					ND	13	ND	ND	ND	ND	1.7	ND	ND	1.25	ND	1.18
	cis-1,3-Dichloropropene					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
	Dibromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.07	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					ND	1.7	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	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					ND	5.6	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane					ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW06	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					6.86	ND	ND	3.3	ND	2.79	ND	2.03	1.68	1.24	1.15	1
	1,1-Dichloroethene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					1.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane					2.37	ND	ND	ND	ND	1.15	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene					6.64	ND	ND	ND	6.24	4.53	3.99	4.99	4.42	3.27	3.92	4.43
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.6
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					0.74	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					5.77	7.1	6.1	ND	6.56	5.03	4.03	4.94	6.19	5.17	7.9	8.02
	Chloroethane					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
	Chloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					33.20	ND	ND	23	18.1	15.3	15.6	11.2	11.4	11.2	12.9	13.4
	cis-1,3-Dichloropropene					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
	Dibromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					5.16	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					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	
Toluene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					2.63	ND	2.2	1.2	ND	1.01	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					1.19	ND	ND	ND	ND	ND	1.26	ND	ND	ND	ND	ND	
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	2	ND	1.65	ND	ND	1.62	1.38	1.42	1.41	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S		
MW07	1,1,1,2-Tetrachloroethane					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		
	1,1,2,2-Tetrachloroethane					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		
	1,1-Dichloroethane					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		
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND		
	1,2-Dibromo-3-chloropropan					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		
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND		
	1,2-Dichloroethane					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		
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND		1.69	ND		7.54	10.6	1.22	3.39	18.2
	2-Butanone					0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acetone					4.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.4	
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzene					ND	ND	ND	ND	ND	ND	ND	ND		1.1	ND	ND	1.29	
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	
	Bromodichloromethane					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	
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon disulfide					2.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Chlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND		3.35	ND	ND	4.31	
	Chloroethane					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	
	Chloromethane					0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	cis-1,2-Dichloroethene					ND	ND	ND	ND		5.12	3.38	3.45	6.65	5.18	2.05	1.54	8.4	
	cis-1,3-Dichloropropene					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	
	Dibromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dichloromethane					ND	ND		1.7	ND	ND	ND	ND	ND	ND	ND	ND	1.79	
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene					0.54	ND		3	3.2	3.56	5.26	4.39	4.64	1.97	3.79	2.22	2.34		
Toluene					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		
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene					0.52	ND	11	3	1.3	3.58	2.21	2.62	2.37	ND	1.37	ND	2.17		
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND		1.09	ND	ND	1.25		
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT		

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW08	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND		4.03	1.45	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone						1.41	8.6	ND	ND	ND	ND	ND	ND	ND	10.2	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND		1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene						0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroethane					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
	Chloromethane						1.98	3.7	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
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					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
	Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					ND	ND		2.8	ND	5.37	1.24	ND	ND	ND	ND	ND	
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW09	1,1,1,2-Tetrachloroethane					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	
	1,1,2,2-Tetrachloroethane					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	
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND		22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					ND		1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					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
	Chloroethane					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
	Chloromethane					ND	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
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene						8.72		5	16	14	13.6	16.4	12.9	16.5	16.9	5.1	17.1	9.16
Toluene						ND		3	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	
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene						0.73	ND	ND	ND	ND	1.11	ND	ND	1.78	ND	2.03	1.04	
Trichlorofluoromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)						NT		1.3	ND	ND	NT	NT	ND	NT	NT	NT	NT	

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW10	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND		24	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					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
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					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
	Chloroethane					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
	Chloromethane					ND		5.2	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
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					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
	Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					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	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW11A	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					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
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					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
	Chloroethane					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
	Chloromethane					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
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene					ND	ND	ND	ND	ND	ND	ND	ND	1.36	ND	ND	ND
Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					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	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

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TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW11B	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					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
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					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
	Chloroethane					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
	Chloromethane					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	1.15	1.44
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					0.97	ND	ND	2.1	ND	2.74	2.42	3.01	3.83	3.05	3.33	4.58	
Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	1.43	
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW12	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					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
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
	1,2-Dichloroethane					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
	1,4-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					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
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					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
	Chloroethane					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
	Chloromethane					ND	4.1	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
	cis-1,3-Dichloropropene					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
	Dibromomethane					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
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					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
Toluene					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	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					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	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S	
MW13A	1,1,1,2-Tetrachloroethane					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	
	1,1,2,2-Tetrachloroethane					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	
	1,1-Dichloroethane					17.90	25	ND	16	15.6	19	19.9	15.8	13.7	16.3	13	15.4	
	1,1-Dichloroethene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	
	1,2-Dibromo-3-chloropropan					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	
	1,2-Dichlorobenzene					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	
	1,2-Dichloroethane					1.86	ND	ND	ND	ND	ND	2.35	1.74	2.06	ND	2.23	2.06	2.19
	1,2-Dichloropropane					4.80	6.6	4.4	5.4	5.64	6.94	3.08	6	6.22	6.06	5.41	6.43	
	1,4-Dichlorobenzene					3.54	ND	ND	5.9	5.12	5.77	6.46	6.13	5.2	5.25	3.68	5.69	
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acetone					0.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzene					3.31	4.4	3.7	2.9	ND	3.24	3.57	2.64	2.28	2.27	1.71	2.09	
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	
	Bromodichloromethane					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	
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Chlorobenzene					1.01	ND	ND	ND	ND	1.64	1	1.81	1.66	1.57	1.28	1.58	
	Chloroethane					0.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Chloroform					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	1.57	
	Chloromethane					0.96	6.4	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	cis-1,2-Dichloroethene					76.70	96	ND	97	79.8	105	120	94.2	81.6	95.9	81.5	95.8	
	cis-1,3-Dichloropropene					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	
	Dibromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dichloromethane					8.07	10	9.2	3.2	6.02	6.49	4.04	4.88	3.59	4.36	3.63	3.95	
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Methyl Tertiary Butyl Ether					0.61	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene					22.20	17	25	28	25.7	27.8	24.2	21.7	18	17.2	11.9	18.8		
Toluene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethene					3.26	7.3	6.2	3.5	ND	4	4.76	3.31	3.14	3.63	2.57	3.38		
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethene					26.90	23	28	32	30.2	33.9	37.1	28.3	28.9	25.1	21.8	27		
Trichlorofluoromethane					1.50	3.8	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride					11.10	14	18	8.6	8.58	10.1	9.83	8.14	6.74	7.91	6	7.67		
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT		

New Monitoring Well Installed in 2010

NT: Not Tested
NS: Not Sampled

TABLE 2: Volatile Organic Compounds - Historical Results

Location	Parameter	2008-F	2009-S	2009-F	2010-S	2010-F	2011-S	2011-F	2012-S	2012-F	2013-S	2013-F	2014-S	2014-F	2015-S	2015-F	2016-S
MW13B	1,1,1,2-Tetrachloroethane					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
	1,1,2,2-Tetrachloroethane					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
	1,1-Dichloroethane					17.80	ND	ND	15	13.9	17.2	16.6	13.8	14	12.8	12	13.3
	1,1-Dichloroethene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trichloropropane					ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND
	1,2-Dibromo-3-chloropropan					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
	1,2-Dichlorobenzene					0.54	ND	ND	ND	ND	ND	1.09	NT	ND	ND	ND	ND
	1,2-Dichloroethane					3.11	ND	4.6	ND	ND	2.87	2.52	2.5	2.64	2.35	2.19	2.32
	1,2-Dichloropropane					6.54	ND	7.4	7.5	7.73	8.01	7.87	6.96	5.44	6.23	6.03	6.58
	1,4-Dichlorobenzene					8.86	ND	ND	11	9.67	10.2	11.5	9.56	8.49	8.23	7.91	8.87
	2-Butanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4-Methyl-2-Pentanone					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acetone					0.87	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Acrylonitrile					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene					5.56	ND	6.3	4.6	ND	4.56	4.17	3.61	3.28	3.18	2.96	3.11
	Bromochloromethane					ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND
	Bromodichloromethane					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
	Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene					1.63	ND	ND	ND	ND	2.03	2.29	1.98	1.67	1.81	1.75	1.92
	Chloroethane					1.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloromethane					0.76	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene					101.00	3.9	ND	110	82	102	109	83.5	79.5	79.6	73.5	78.4
	cis-1,3-Dichloropropene					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
	Dibromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloromethane					8.50	ND	11	4.2	5.95	7.2	6.55	5.62	5.53	4.84	4.71	4.95
	Ethylbenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Iodide					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methyl Tertiary Butyl Ether					0.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ortho-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	para-Xylene & meta-Xylene					ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene					22.70	ND	27	30	26.5	27	24.2	21.1	16.8	15.8	15.2	16.7	
Toluene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene					4.45	ND	7.3	4.3	ND	4.22	4.18	3.31	3.6	3.03	2.89	3.18	
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,4-Dichloro-2-buten					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene					32.00	ND	28	32	27.6	29.5	34.5	22.9	20.2	19	20.7	19.9	
Trichlorofluoromethane					1.71	ND	4.7	1.3	ND	1.27	ND	ND	1.09	ND	ND	ND	
Vinyl Acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride					17.20	ND	25	12	9.83	11.4	9.96	8.49	10.8	8.03	7.37	8.09	
Xylene (Total)					NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	

New Monitoring Well Installed in 2010

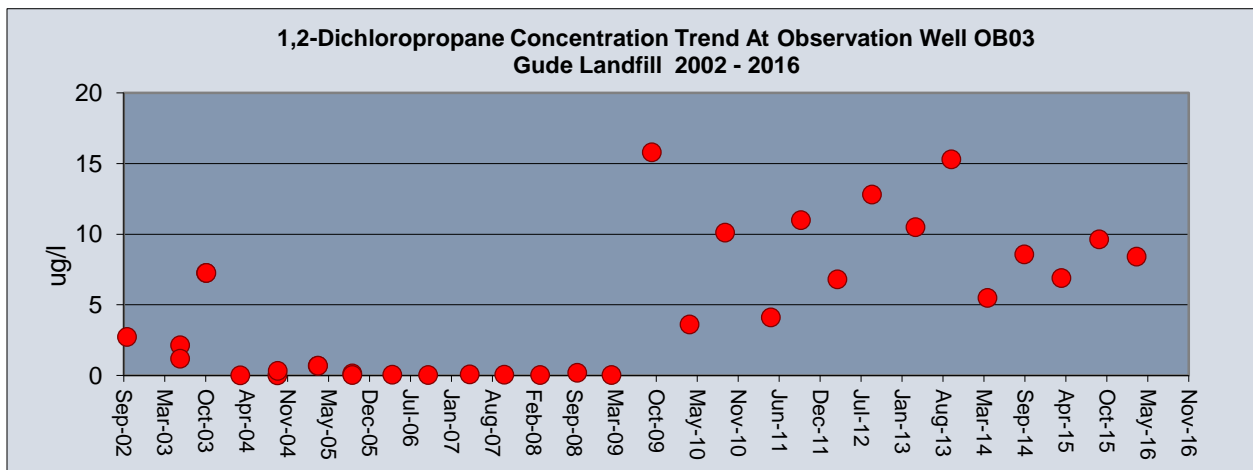
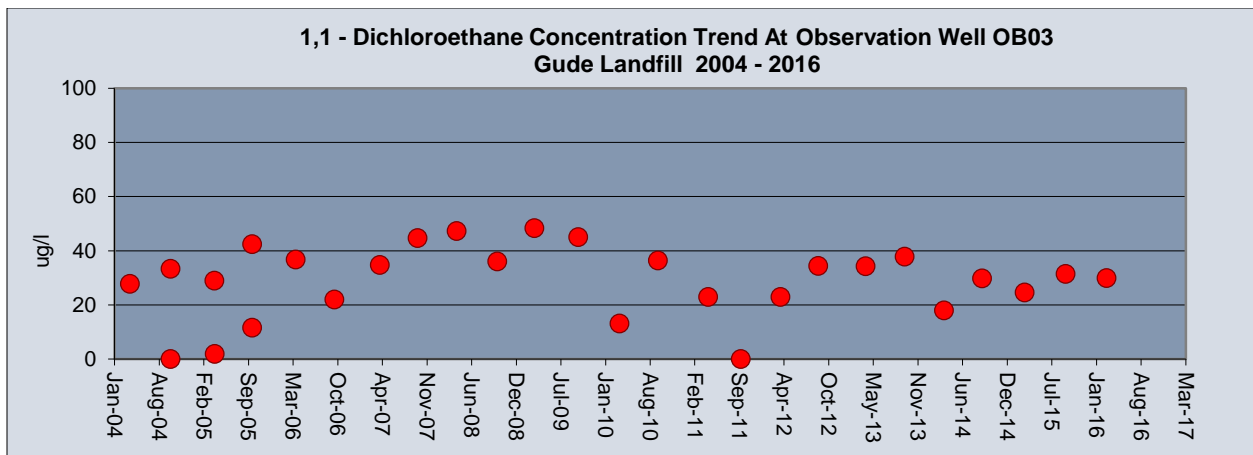
NT: Not Tested
NS: Not Sampled

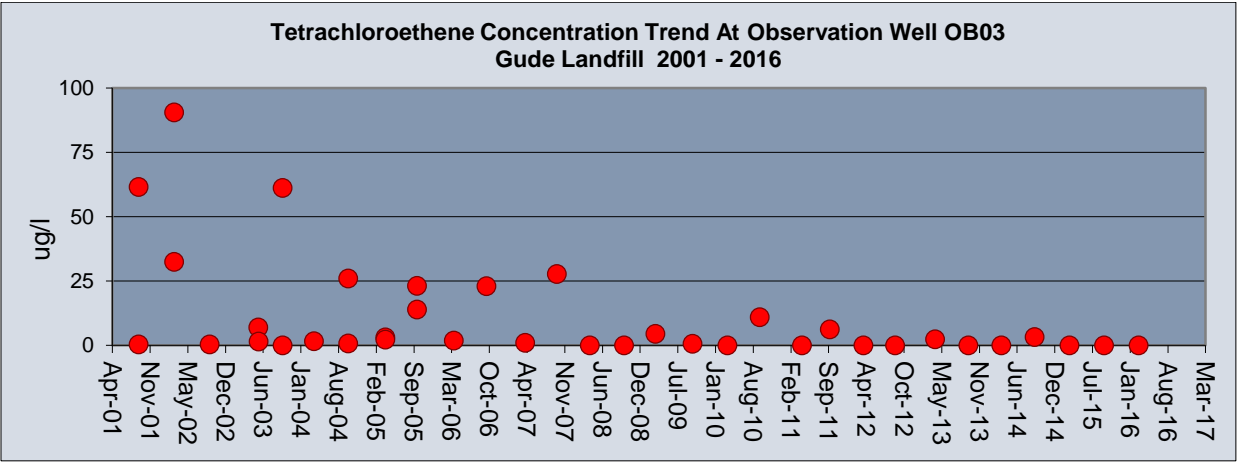
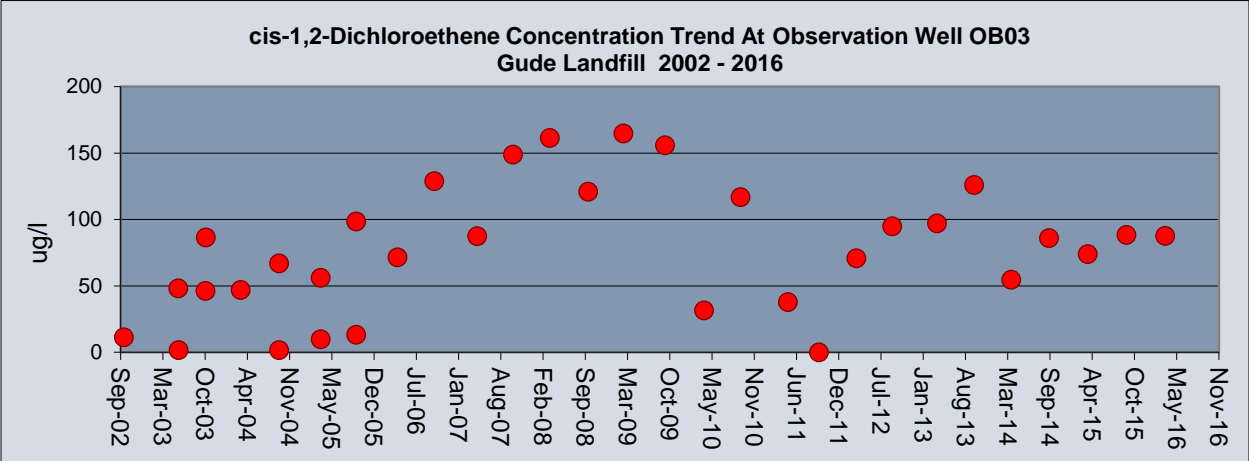
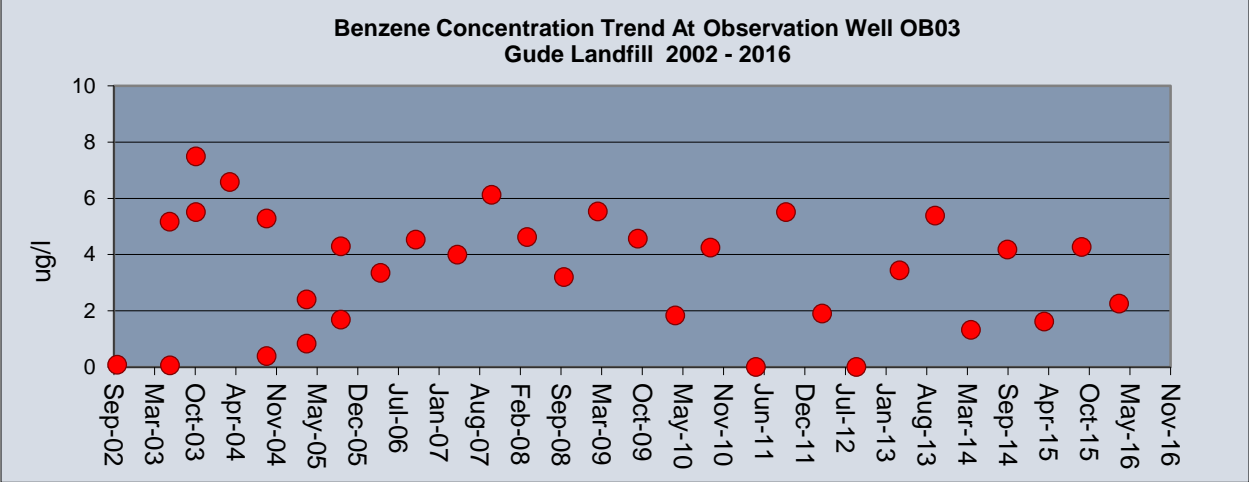
Appendix C

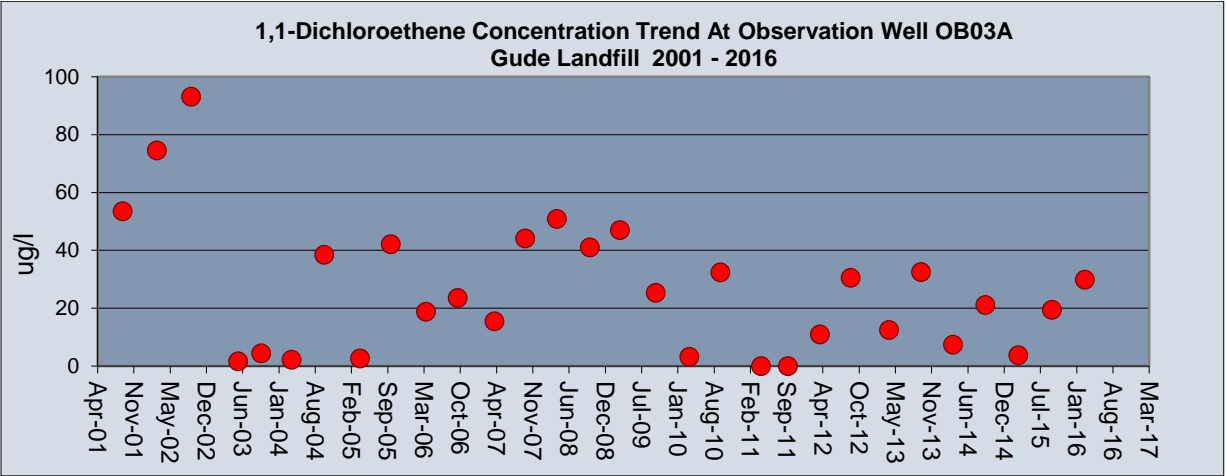
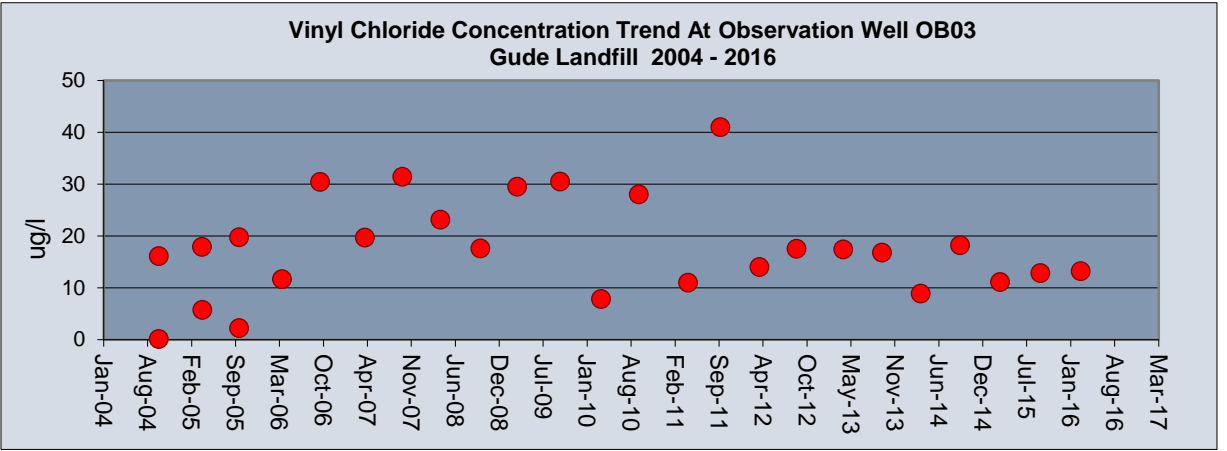
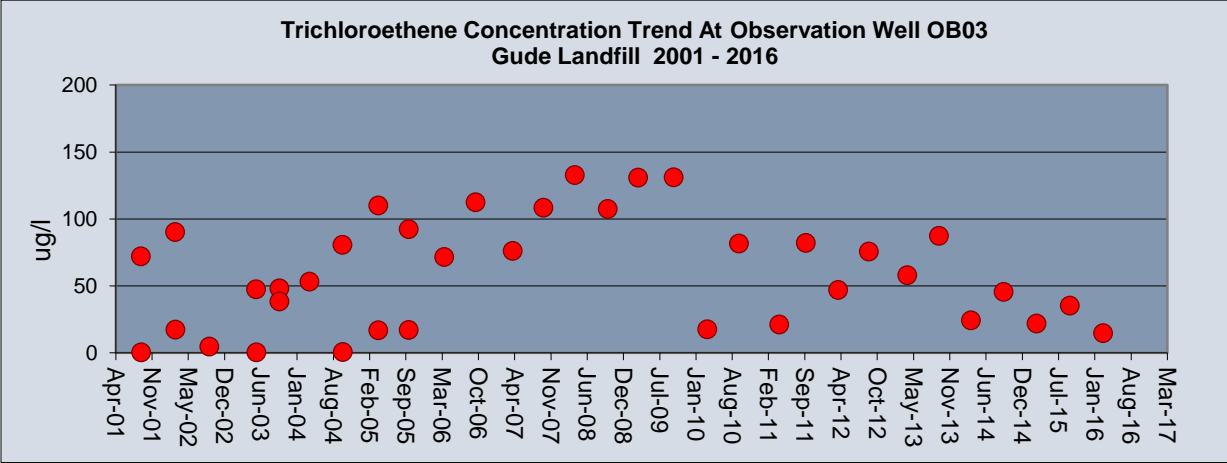
Volatile Organic Compounds

Graphical Depiction of Data

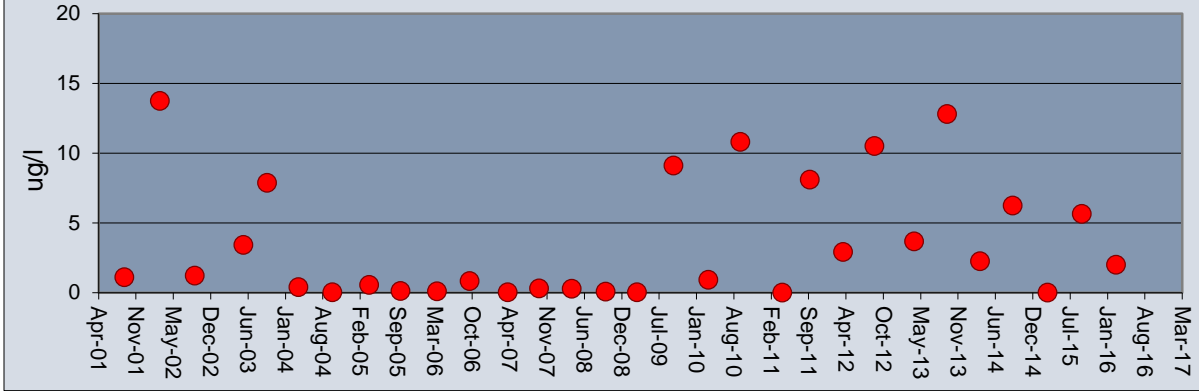
The following graphs provide Historical Trend Analysis for those VOC compounds that are consistently detected at specific monitoring locations. These historical trend analyses do not include the monitoring locations installed in 2010. (Please refer to Tables 1 and 2 for additional information.)



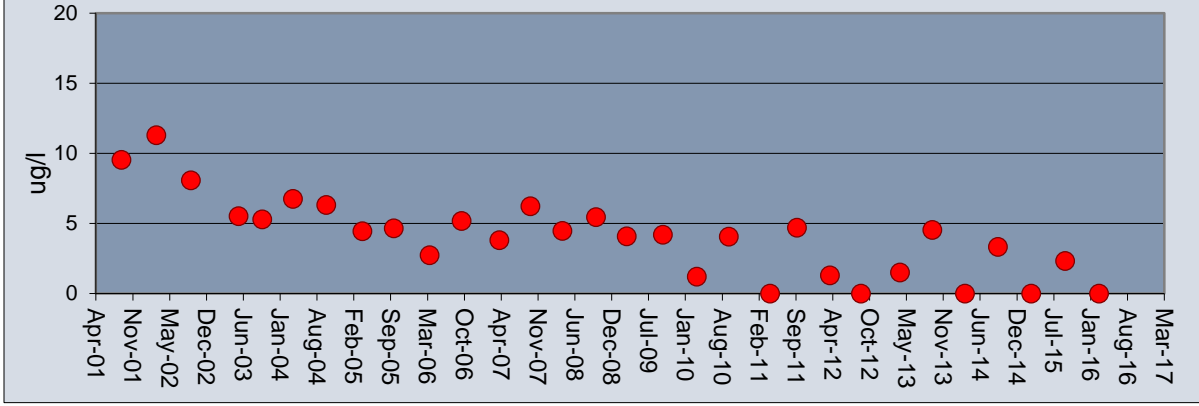




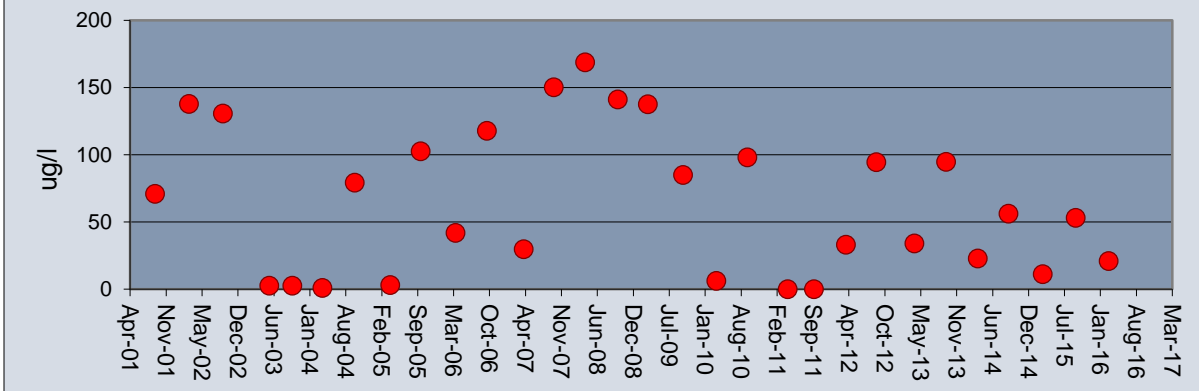
**1,2-Dichloropropane Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2016**

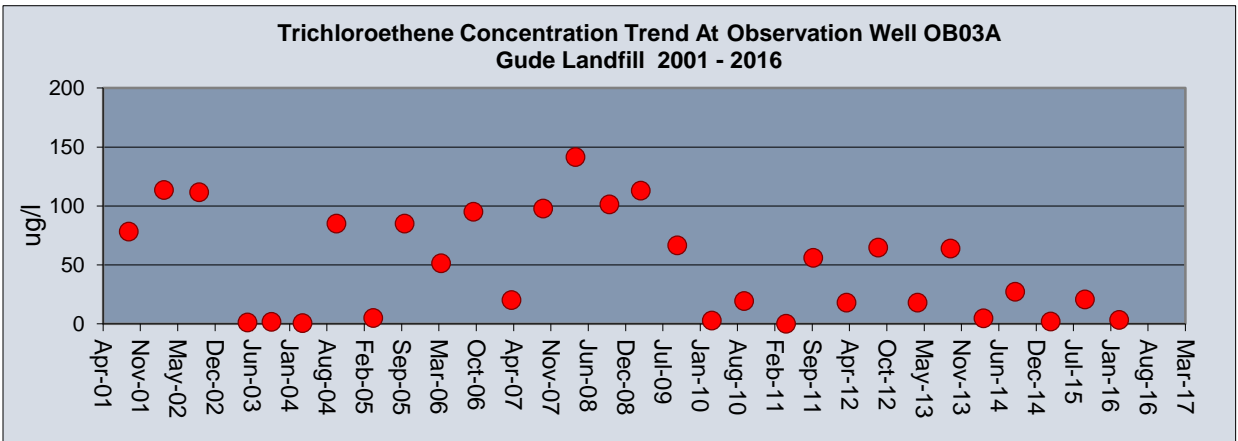
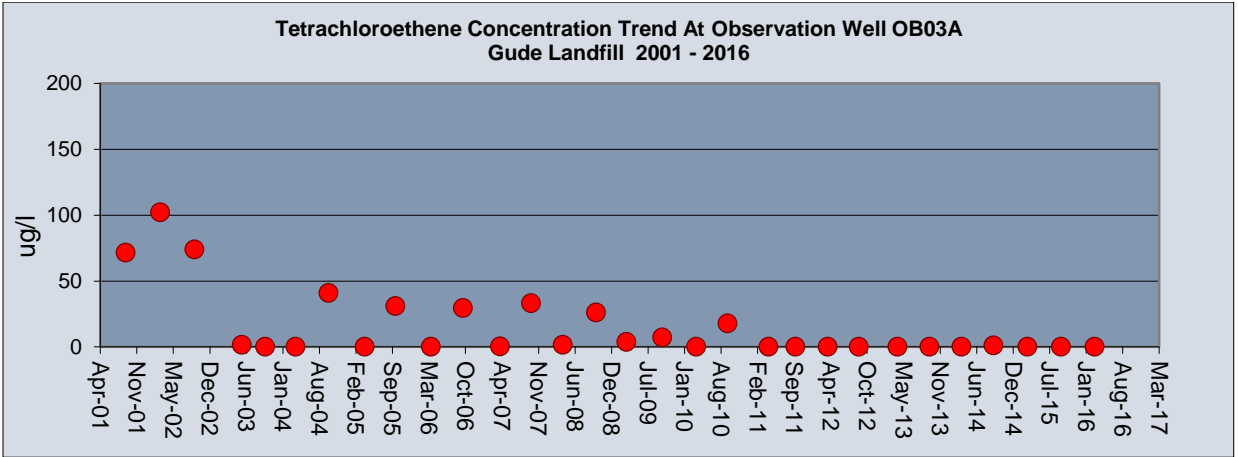


**Benzene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2016**

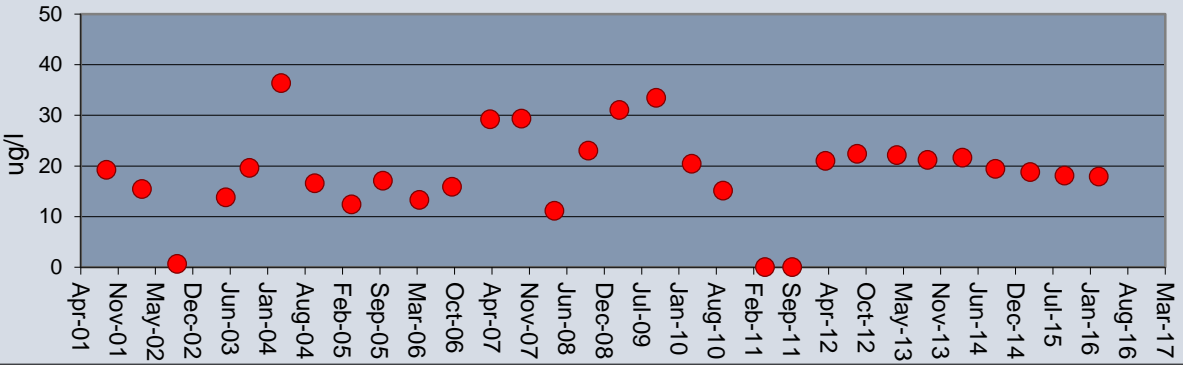


**cis-1,2-Dichloroethene Concentration Trend At Observation Well OB03A
Gude Landfill 2001 - 2016**

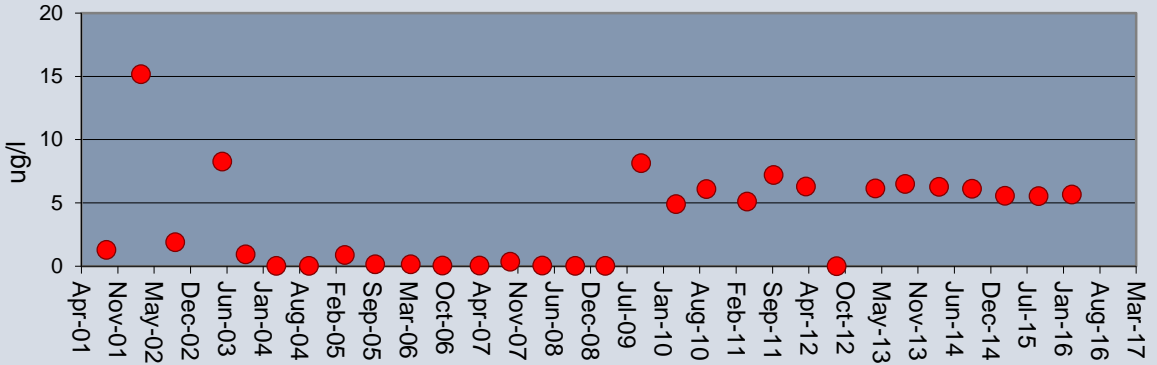




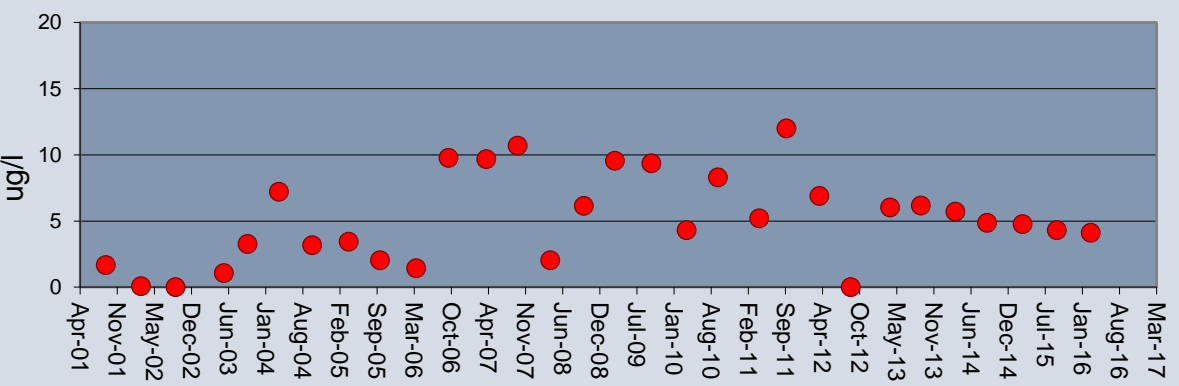
**1,1- Dichloroethane Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2016**

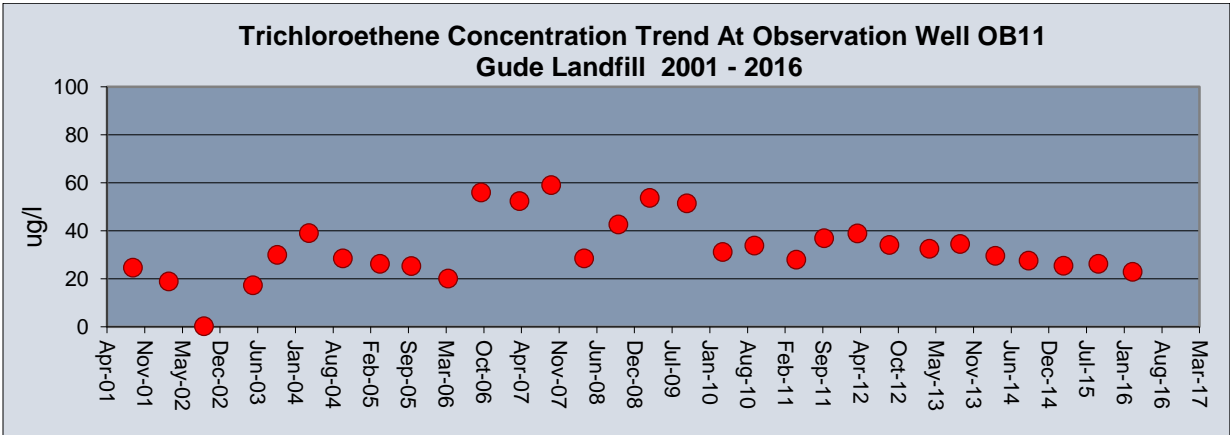
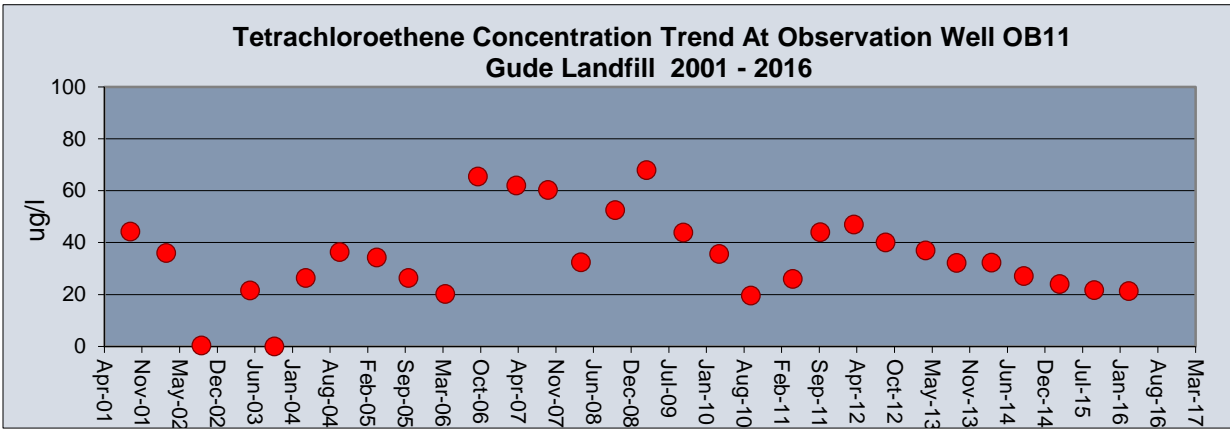
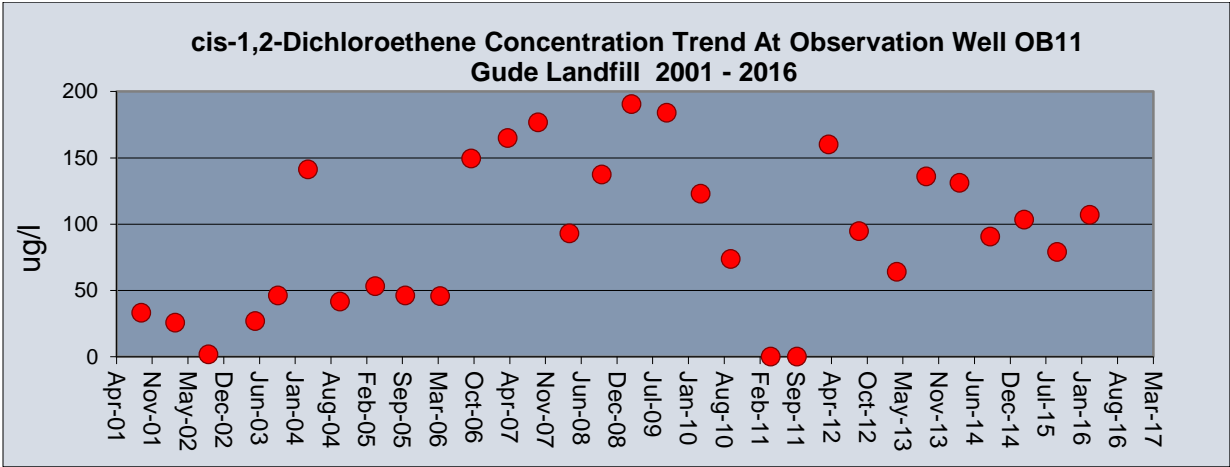


**1,2-Dichloropropane Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2016**

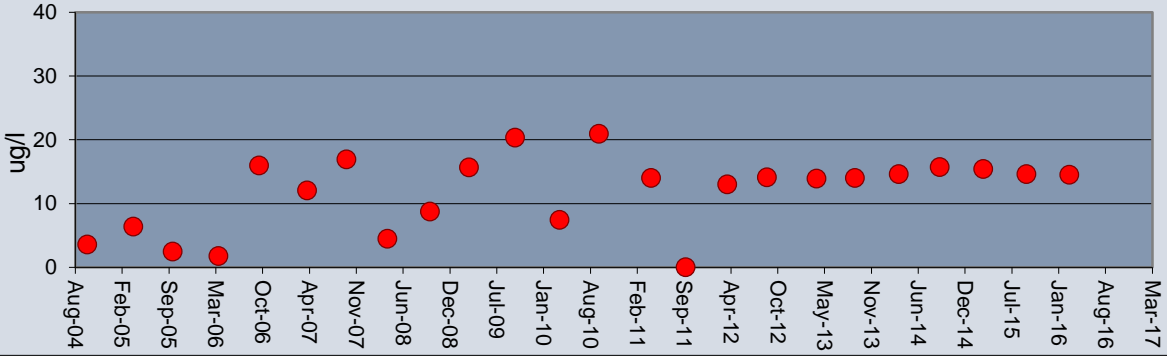


**Benzene Concentration Trend At Observation Well OB11
Gude Landfill 2001 - 2016**

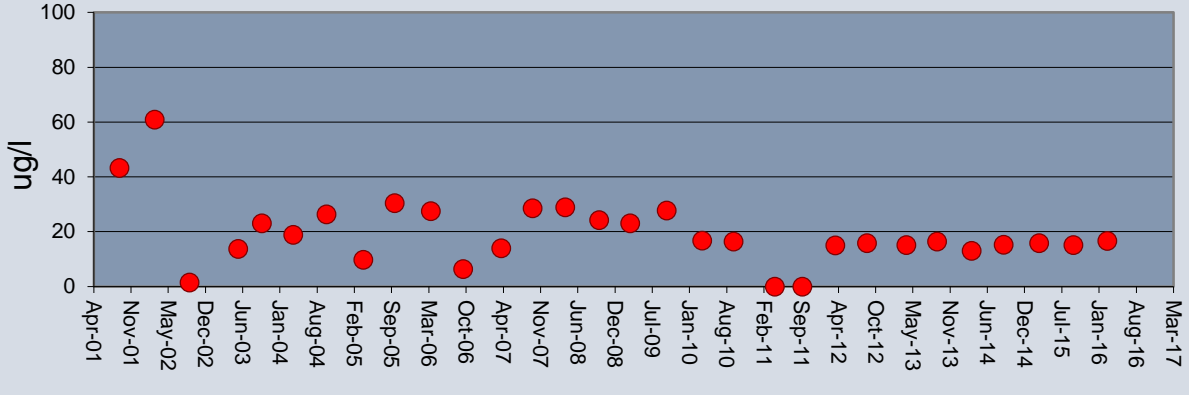




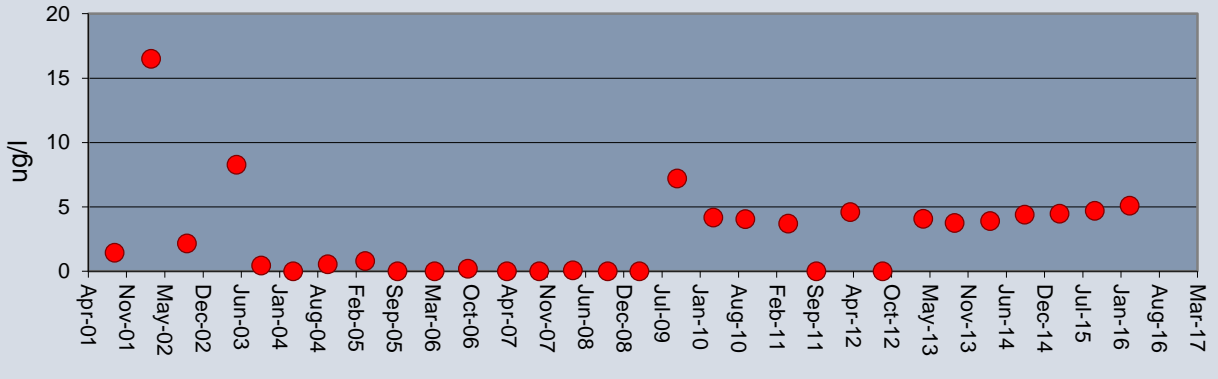
**Vinyl Chloride Concentration Trend At Observation Well OB11
Gude Landfill 2004 - 2016**

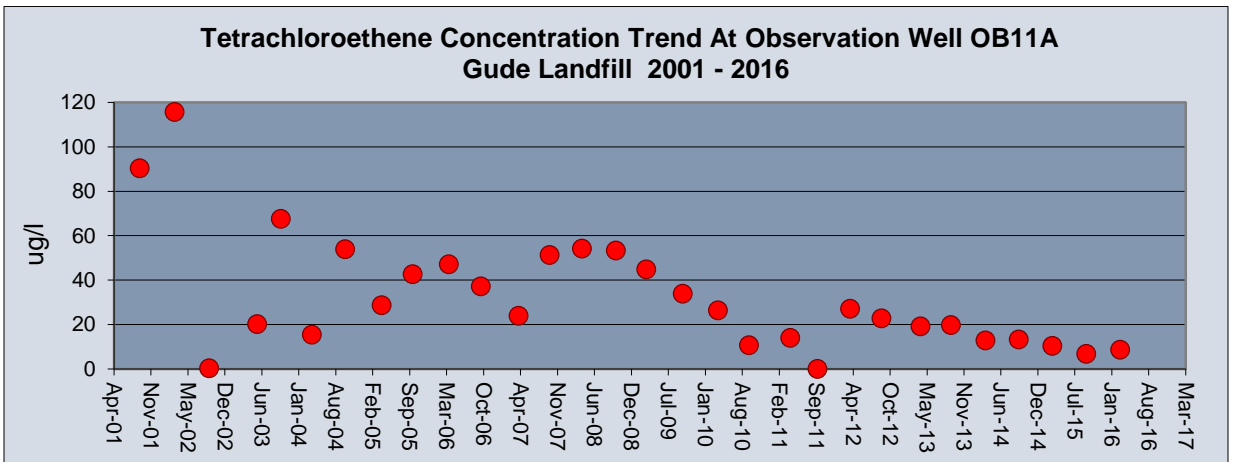
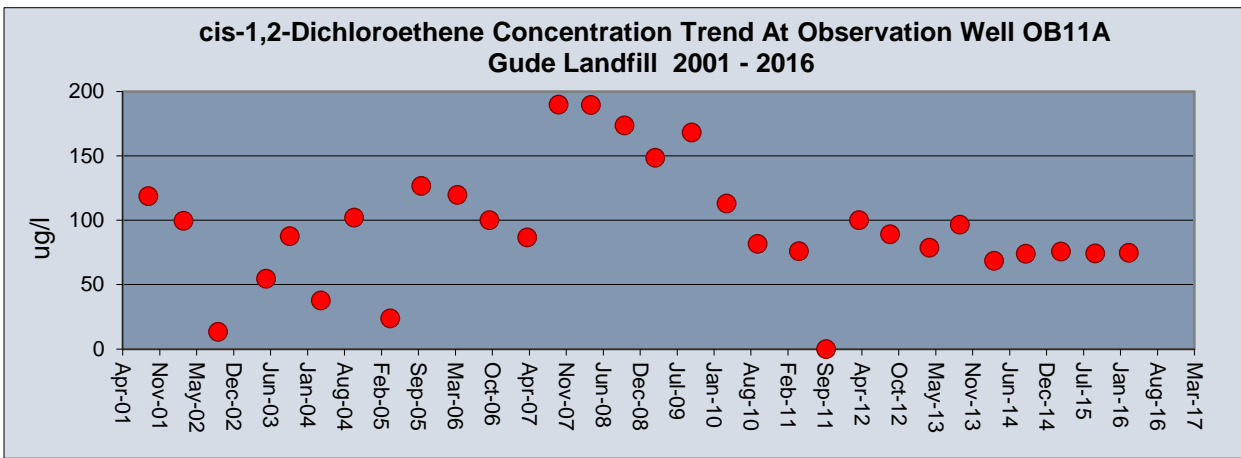
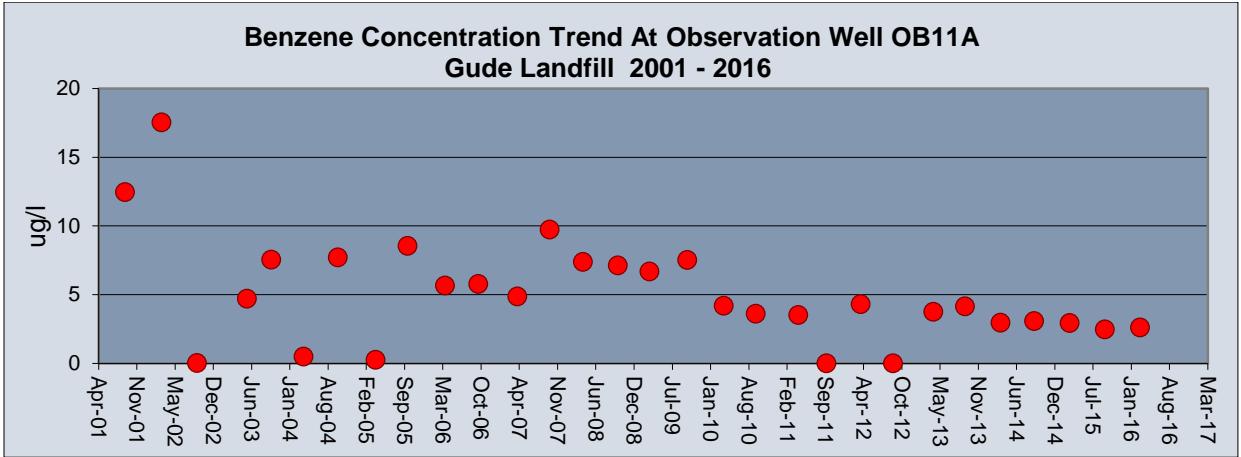


**1,1-Dichloroethane Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2016**

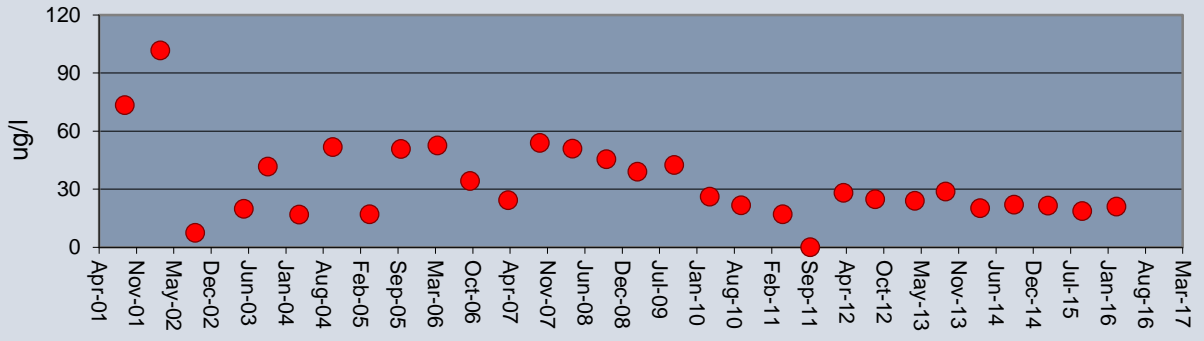


**1,2-Dichloropropane Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2016**

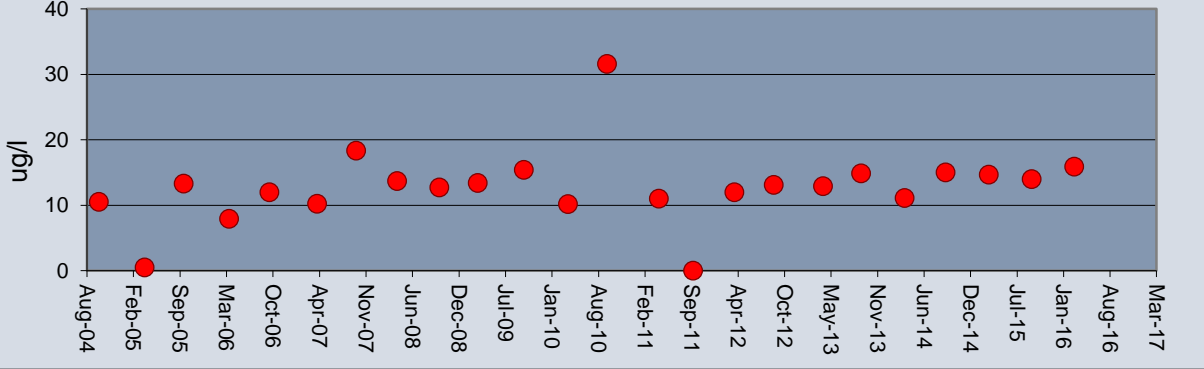




**Trichloroethene Concentration Trend At Observation Well OB11A
Gude Landfill 2001 - 2016**

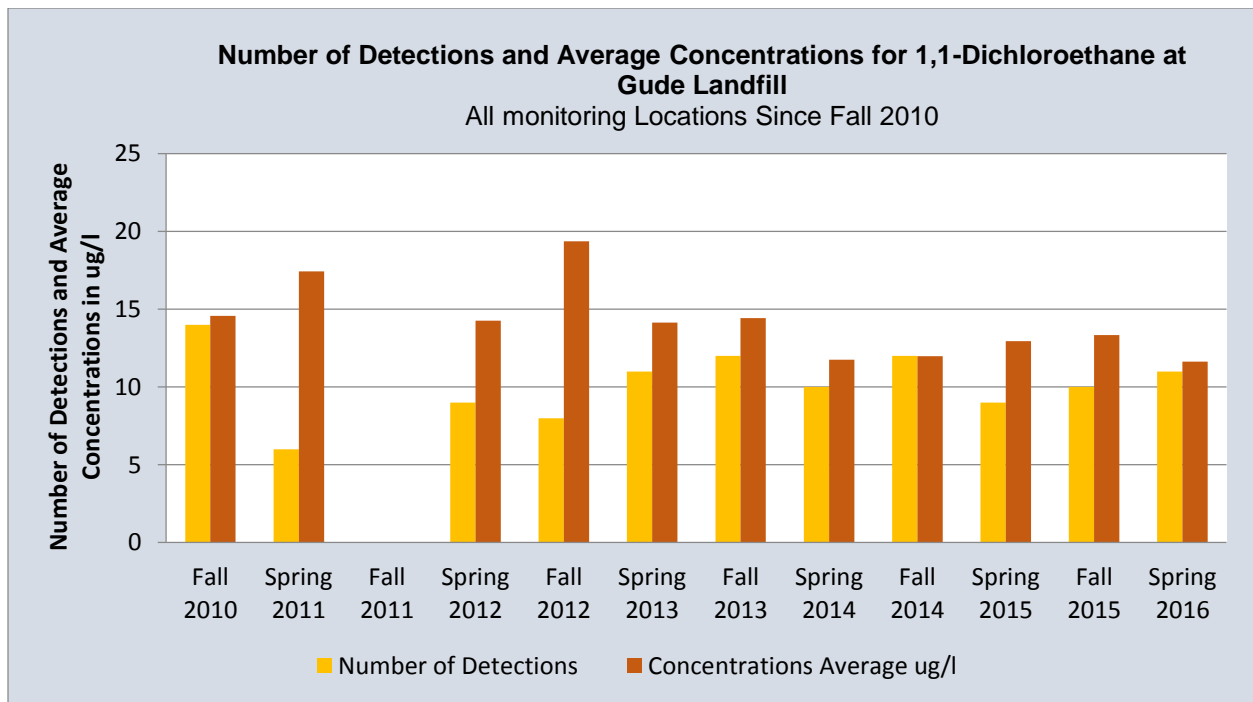


**Vinyl Chloride Concentration Trend At Observation Well OB11A
Gude Landfill 2004 - 2016**



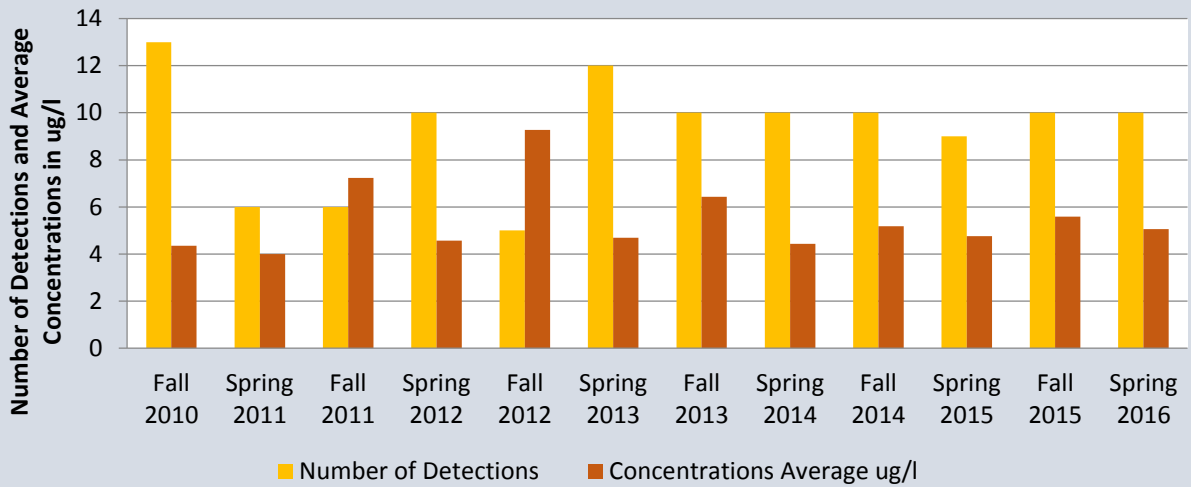
The following graphs provide Historical Trend Analysis for particular VOC compounds that are detected on regular basis at the Landfill since 2010.

(These trend analyses are for all the monitoring wells including those installed in 2010. Please refer to Tables 1 and 2 for additional information.)



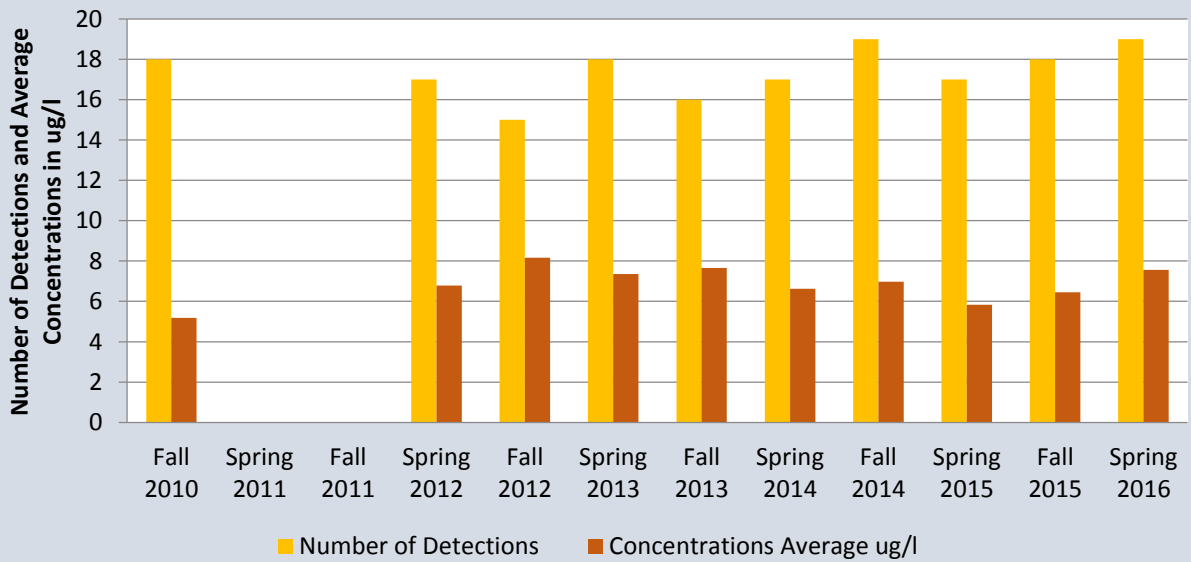
**Number of Detections and Average Concentrations for 1,2-Dichloropropane
at Gude Landfill**

All monitoring Locations Since Fall 2010



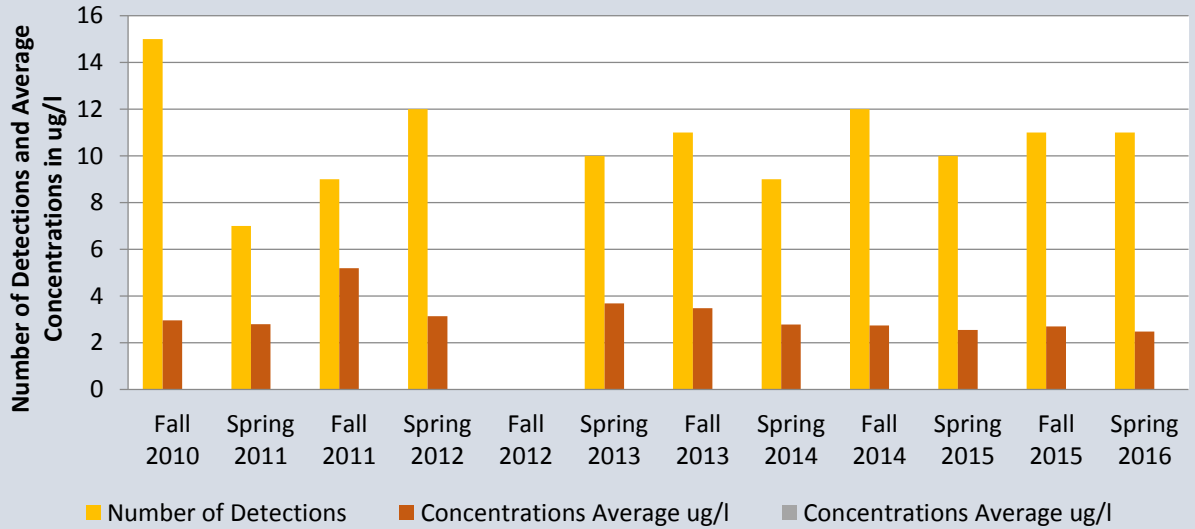
**Number of Detections and Average Concentrations for 1,4-Dichlorobenzene
at Gude Landfill**

All monitoring Locations Since Fall 2010



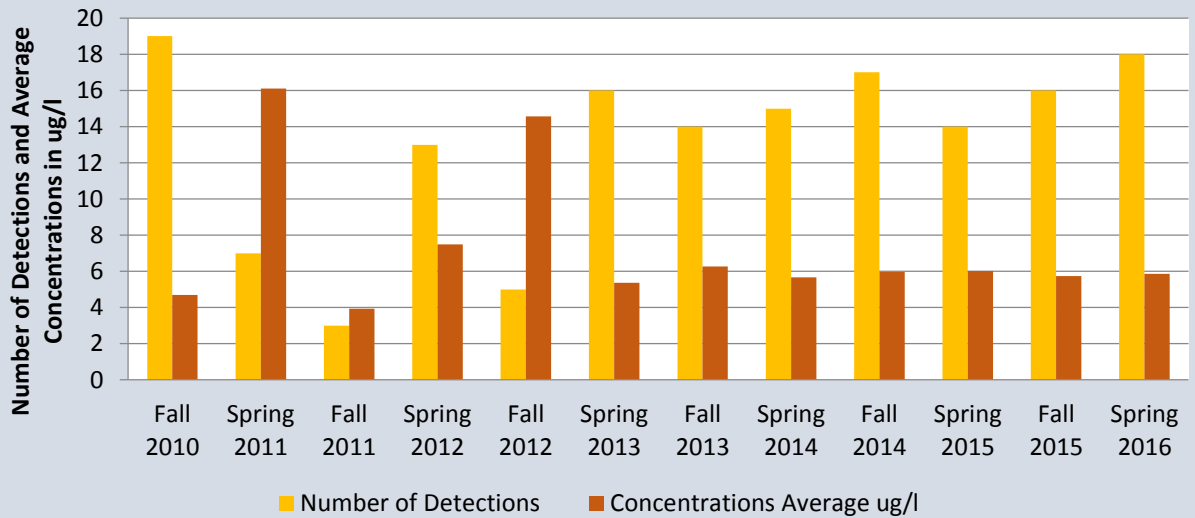
Number of Detections and Average Concentrations for Benzene at Gude Landfill

All monitoring Locations Since Fall 2010



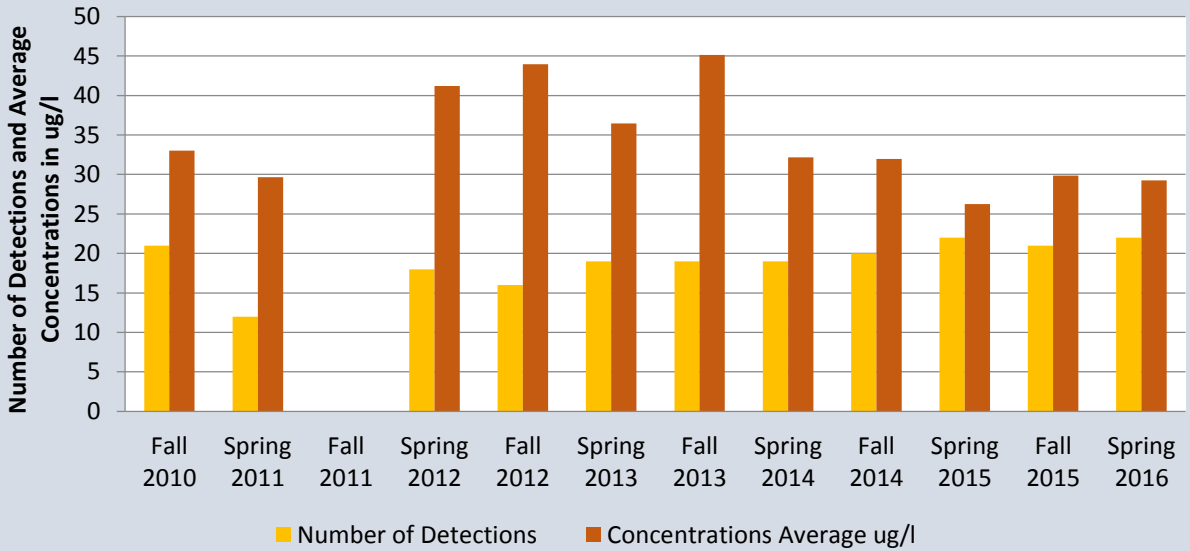
Number of Detections and Average Concentrations for Chlorobenzene at Gude Landfill

All monitoring Locations Since Fall 2010



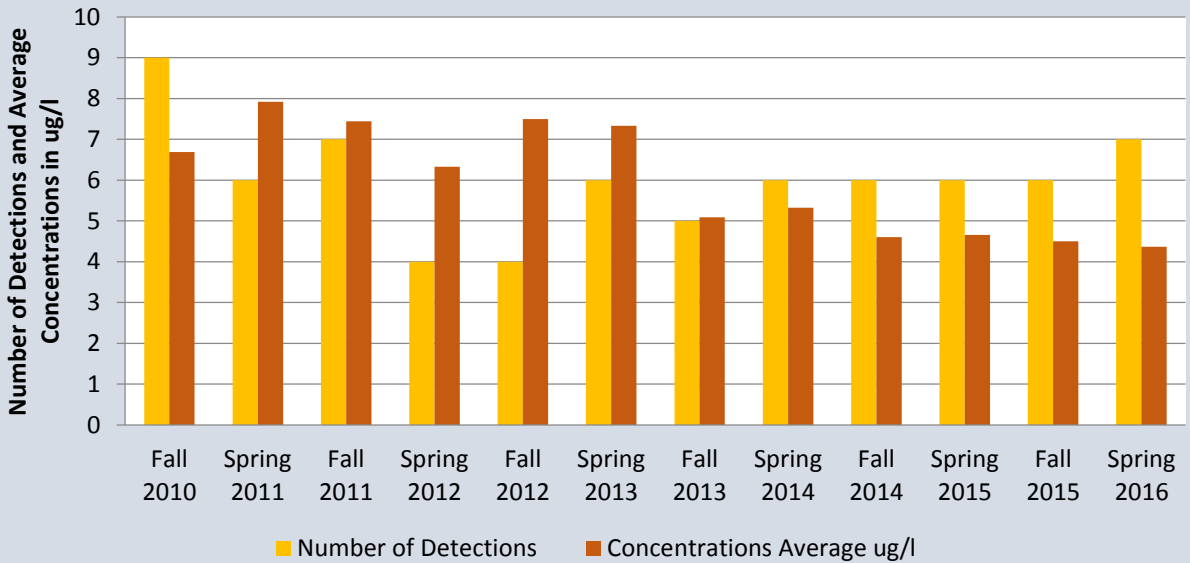
Number of Detections and Average Concentrations for cis-1,2-Dichloroethene at Gude Landfill

All monitoring Locations Since Fall 2010



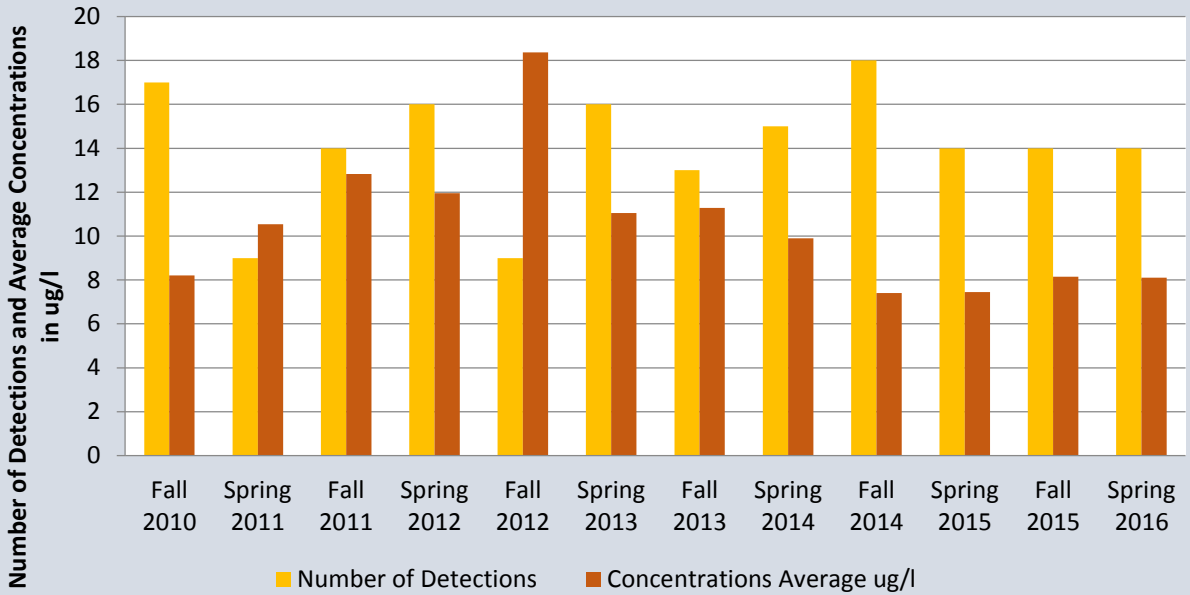
Number of Detections and Average Concentrations for Dichloromethane at Gude Landfill

All monitoring Locations Since Fall 2010



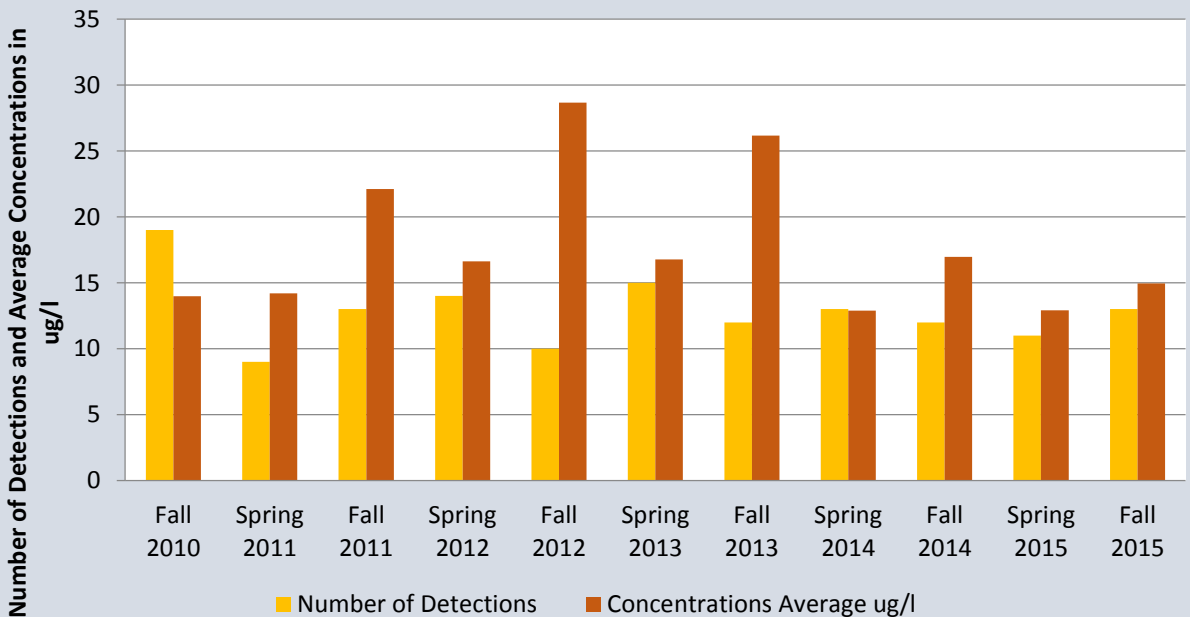
Number of Detections and Average Concentrations for Tetrachloroethane at Gude Landfill

All monitoring Locations Since Fall 2010



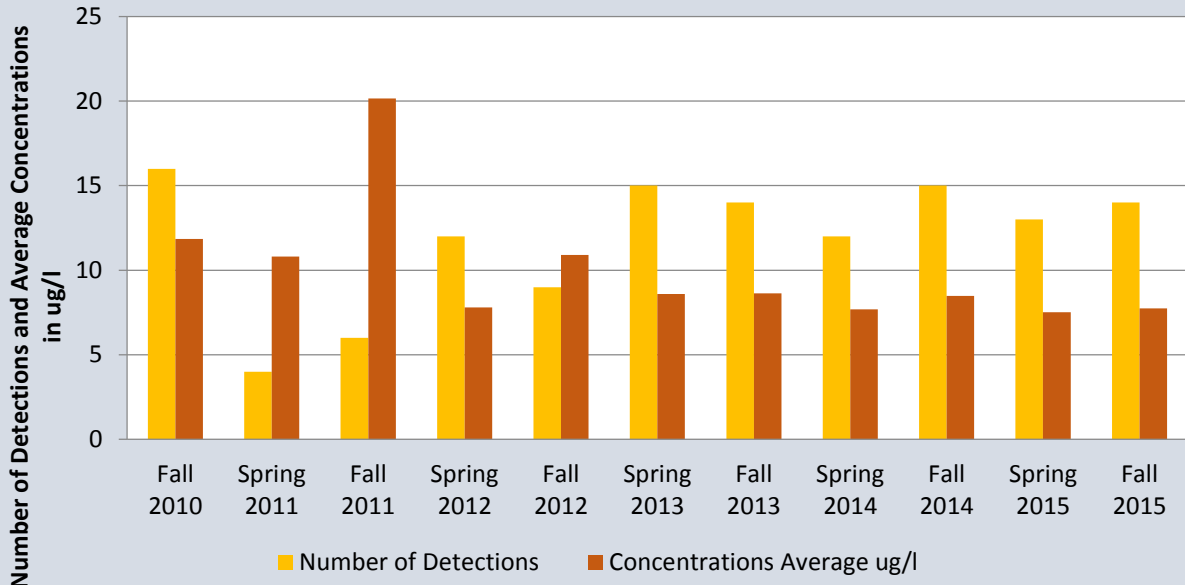
Number of Detections and Average Concentrations for Trichloroethene at Gude Landfill

All monitoring Locations Since Fall 2010



Number of Detections and Average Concentrations for Vinyl Chloride at Gude Landfill

All monitoring Locations Since Fall 2010



Appendix D

Tables of Metals

Results in (mg/l)

Table 3 Metals and Other Water Quality Parameters

Parameter	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB15	OB25	OB102	OB105	ST15
Alkalinity	72	67	35	210	299	249	132	231	198	70	196	210	114	214	316	122	36	307	1160	1040	136
Ammonia	ND	ND	ND	2.04	5.97	0.787	0.327	ND	ND	ND	ND	0.233	ND	ND	0.305	ND	ND	1.81	16.1	29.7	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	0.003	ND	0.004	0.005	0.003	ND	ND	ND	0.003	ND	ND	0.002	ND	ND	ND	ND	ND	ND
Barium	0.287	0.081	0.436	0.5	0.235	0.309	0.069	0.193	0.029	0.04	0.138	0.07	0.059	0.025	0.193	0.015	0.066	0.22	0.407	0.381	0.095
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	0.011	0.002	ND	ND	ND	ND	ND	ND
Calcium	90.6	39	102	69.6	76.5	170	129	90.8	131	50.1	58.4	54.5	59.7	132	110	38.8	13.3	86.1	113	180	60.3
Chloride	456	54.8	391	201	200	496	580	382	236	136	42.4	67.6	179	438	401	84.6	7.14	195	560	340	397
Chromium	ND	ND	ND	0.002	ND	ND	ND	0.003	ND	ND	ND	0.002	ND	0.005	0.004	0.002	ND	0.007	ND	ND	ND
Cobalt	0.007	ND	ND	0.048	0.033	ND	ND	0.005	ND	ND	0.004	0.016	0.005	ND	0.027	ND	ND	0.05	0.074	0.013	ND
COD	ND	ND	ND	19.3	23.4	32	35.5	29.5	ND	ND	ND	ND	ND	30.4	31.8	ND	ND	19.1	210	122	17.6
Copper	0.004	ND	ND	ND	ND	0.036	0.028	0.005	0.003	ND	ND	ND	ND	0.003	0.004	ND	ND	0.012	0.045	0.015	0.006
Hardness	452	120	508	396	392	780	690	576	464	252	206	230	294	650	600	188	92	428	660	890	244
Iron	0.579	0.612	0.703	20.9	21.4	1	0.941	1.04	0.924	0.284	0.45	3.87	0.971	0.992	1.68	0.22	1.69	7.64	0.967	20.9	0.825
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	56.3	16.6	59.6	40.7	58.4	87.4	91.1	56.2	39.6	21.9	12.9	21.2	33.7	72.2	77.6	24.4	19.5	62.6	106	143	26.2
Managanese	5.04	0.8	0.054	26.8	6.37	5.14	1.84	0.568	0.077	0.153	4.89	7.77	4.68	0.829	8.92	0.103	0.085	20.3	17.3	3.54	0.482
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	2E-04	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND
Nickel	0.023	ND	0.011	0.013	0.011	0.014	0.023	0.01	0.002	0.005	0.005	0.006	0.008	0.031	0.024	0.007	0.012	0.033	0.101	0.021	0.013
Nitrate	2.57	ND	0.99	ND	ND	ND	ND	0.41	0.875	0.364	ND	ND	ND	ND	ND	0.588	5.185	0.731	ND	ND	0.524
pH	5.74	7.02	5.58	6.09	6.29	6.21	5.76	6.24	6.86	6.04	6.56	6.25	5.97	5.73	5.97	5.64	5.98	6.42	6.8	6.8	6.83
Potassium	4.38	3.41	4.46	5.72	12.1	6.85	5.74	4.13	3.24	2.76	2.33	2.54	3.42	4.65	4.64	2.45	1.82	14.2	49.5	69.3	4.78
Selenium	0.002	ND	ND	0.003	ND	0.02	0.023	0.012	0.007	0.004	ND	ND	0.004	0.007	0.006	ND	ND	0.005	0.017	0.011	ND
Silver	6E-04	ND	ND	ND	ND	ND	ND	2E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	125	15.6	41.2	42.9	109	69.3	90.3	125	22.2	16	22.2	29.2	20.4	78.2	106	25.2	22	77.9	562	304	233
Spec. Cond.	1537	301.1	1230	970.2	1152	1835	1836	1625	1018	515.1	450.1	545.4	671	1538	1580	471.2	253.7	1075	3339	2888	1331
Sulfate	24.9	6.19	23.5	21.5	72.3	21.6	12.2	99.3	28.8	5.65	9.5	ND	ND	11.4	12.2	13.6	60.6	51.4	51.9	189	19.6
TDS	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	928	263	770	574	321	1150	1070	979	791	422	264	317	399	960	884	316	168	694	2220	1770	823
Turbidity	0	3	4.6	0	14.2	0	0	20.1	14.1	2.5	0	0.3	0	7.2	1.7	0	22.9	45.7	6.5	314.5	3.9
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND
Zinc	0.009	ND	0.005	0.009	0.006	0.006	0.022	0.013	ND	0.005	ND	0.003	0.002	0.036	0.017	ND	0.043	0.042	0.012	0.038	0.01

ND: Not Detected

Note: Benchmark exceedances are indicated in Red

SPRING 2016 Results

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Table 3 Metals and Other Water Quality Parameters

	Parameter	ST65	ST70	ST80	ST120	MW1B	MW2A	MW2B	MW3A	MW3B	MW04	MW06	MW07	MW08	MW09	MW10	MW11A	MW11B	MW12	MW13A	MW13B		
Gude Landfill - SPRING 2016 Results	Alkalinity	68	106	34	62	44	39	42	15.2	86	54	247	254	289	51	50	25	68	23	33	209		
	Ammonia	ND	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	ND	ND
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	0.054	0.068	0.041	0.067	ND	0.011	0.011	ND	0.014	0.041	0.332	0.103	0.086	0.078	0.053	0.04	0.025	0.354	0.193	0.077		
	Beryllium	ND	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	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	33.3	43	16.4	48.3	6.14	6.29	6.78	2.48	24.5	43.8	95.9	98	97.3	8.37	14.9	11	18.6	32.8	24.4	84.9		
	Chloride	192	170	111	217	ND	4.77	ND	ND	2.53	154	407	194	133	63.3	6.26	6.56	9.64	204	90.7	97.9		
	Chromium	ND	ND	ND	ND	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	0.554	0.014	ND	ND	ND	ND	ND	ND	ND	0.008	ND	
	COD	ND	17.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.4	10	ND	ND	ND	ND	ND	ND	ND	ND	
	Copper	0.002	0.004	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.012	0.002	ND	ND	ND	ND	ND	ND	ND	ND	
	Hardness	156	184	80	160	32	100	62	16	78	184	710	440	468	124	104	88	108	140	128	324		
	Iron	0.53	0.758	0.338	0.602	ND	ND	ND	ND	0.255	0.726	27.3	3.83	0.688	0.875	0.329	1.45	0.449	0.367	0.259	0.478		
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	18.6	19.3	9.04	23.5	3.54	2.68	3.38	1.1	3.95	25.3	71.5	53.4	52.6	6.34	7.4	5.24	10.2	16.9	17.7	29.2		
	Managanese	0.139	0.272	0.096	0.126	ND	0.055	0.042	ND	0.012	0.073	58.1	1.83	0.005	0.056	0.015	0.036	0.01	0.039	0.264	0.036		
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Nickel	0.007	0.008	0.003	0.011	ND	0.002	ND	ND	ND	ND	0.051	0.009	0.004	ND	ND	ND	ND	ND	0.008	0.003		
	Nitrate	1.3	1.36	1.56	1.42	ND	ND	ND	ND	ND	0.651	ND	1.04	6.75	1.12	ND	1.99	2.93	3.83	1.63	3.68		
	pH	7.69	7.24	8.03	7.39	6.07	5.43	5.67	6.02	7.42	5.99	6.27	5.95	7.14	5.57	6.08	5.8	6.27	5.36	5.16	6.14		
	Potassium	2.59	3.83	2.04	2.38	0.895	1.21	1.52	0.765	1.67	3.44	3.29	5.69	11.9	1.6	1.02	0.975	1.06	2.6	1.94	3.26		
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.002	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	ND	
	Sodium	83.5	71.6	49.1	99.4	6.74	5.56	6.5	2.93	11.4	33.3	101	56.1	87	41.8	9.87	5.38	11	83.5	13.2	17.6		
	Spec. Cond.	694.3	686.3	393	755.1	44	86.4	84	35	191.6	524.6	1730	979.3	1123	238.1	135.1	97.4	162.1	640.7	348.8	700		
Sulfate	14	18.6	8.65	13.1	ND	ND	ND	ND	10.8	5.32	70.1	21.2	169	ND	11.2	5.79	ND	20.4	ND	12.5			
TDS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Thallium	473	407	236	434	172	215	186	ND	107	320	978	600	742	147	96	86	143	426	238	464			
Turbidity	1	0.2	2.3	1.8	2.2	0.9	0	0	5.2	14.1	2.2	0	0	40.9	16	17.5	24.6	26.3	27.2	0			
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	0.004	0.011	ND	0.009	ND	0.004	0.004	ND	ND	0.006	0.025	0.007	ND	0.017	0.015	0.009	ND	0.021	0.012	ND			

ND: Not Detected

Note: Benchmark exceedances are indicated in Red

SPRING 2016 Results

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Table 4

Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB01	Alkalinity	NT	NT	NT	NT	104	95	103	93	112	100	73	80	66	86	77	81	70	72	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Antimony	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	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	0.231	0.276	0.24	0.26	0.287	
	Beryllium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	64.9	67.6	68.2	76.2	73.8	81.24	69.1	73.3	73.4	86.6	89.2	95	91	90.6	
	Chloride	NT	NT	NT	NT	196	204	241	262	291	322	284	291	303	379	411	430	421	456	
	Chromium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	0.0039	0.0071	NT	ND	0.009	0.0084	0.0101	0.0147	0.0289	0.0219	0.00903	0.0111	0.00681	0.012	0.0148	0.013	0.0073	0.0074	
	COD	NT	NT	NT	NT	ND	ND	5.1	6.9	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	
	Copper	0.0071	0.0072	NT	ND	0.007	0.0096	0.0094	0.0063	0.00645	0.0119	0.00575	0.0148	0.00605	0.00623	0.00868	0.0042	0.0052	0.0039	
	Hardness	NT	NT	NT	NT	330	320	350	364	390	420	342	346	356	440	472	520	504	452	
	Iron	NT	NT	NT	NT	ND	ND	0.469	0.837	0.515	1.6	0.386	0.458	0.541	0.55	0.675	ND	ND	0.579	
	Lead	ND	ND	NT	ND	ND	ND	ND	ND	0.0054	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	36	40.3	38.9	45.3	46.3	48.58	38.6	45	44	52.1	53	61	54	56.3	
	Manganese	NT	NT	NT	NT	2.77	3.17	3.95	5.07	7.98	6.33	3.74	3.8	3.59	4.99	5.72	5.3	4.1	5.04	
	Mercury	ND	ND	NT	ND	ND	ND	ND	ND	ND	0.00036	ND	ND	ND	ND	ND	ND	0.00021	ND	
	Nickel	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	0.0313	0.0387	0.04	0.025	0.0226	
	Nitrate	NT	NT	NT	NT	1.67	1.94	1.907	1.79	1.34	1.56	2.13	2.21	2.28	2.28	2.11	2.47	2.59	2.57	
	pH	NT	NT	NT	NT	5.82	5.08			5.51	5.62	5.14	5.87	5.46	5.67	5.65	5.77	5.7	5.74	
	Potassium	NT	NT	NT	NT	3.52	3.64	3.36	3.81	3.78	4.57	3.85	4.55	3.95	4.35	4.43	5.1	5	4.38	
	Selenium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	
	Silver	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006	
	Sodium	NT	NT	NT	NT	47.4	54.5	51.8	58.2	66.3	77.79	57.2	73.6	63.5	94.1	95.4	120	97	125	
	Spec. Cond.	NT	NT	NT	NT	855.9	920.7			980.9	1218	1060	1223	1052	1293	1379	1391	1454	1537	
	Sulfate	NT	NT	NT	NT	26.4	24.9	26.6	26.8	28.8	26.1	24.2	22.3	25.7	26.5	28	26.5	26.2	24.9	
	TDS	NT	NT	NT	NT	776	912	1176	856	1116	876	856	980	840	758	940	960	870	ND	
	Thallium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	928	
	Turbidity	NT	NT	NT	NT	0.186	0.18	0.98	1.96	NT	NT	NS	1.4	3.6	0	3.1	0	1.21	0	
	Vanadium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0084	0.0161	NT	0.012	ND	0.013	0.0107	0.0116	0.0128	0.0163	0.0112	0.0118	0.012	0.0133	0.0174	0.013	0.011	0.0087		

NT: Not Tested

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Note: Benchmark exceedances are indicated in Red

Table 4

Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB02	Alkalinity	NT	NT	NT	NT	67	57	72	70	72	68	68	67	65	67	66	72	73	67	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Antimony	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	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	0.0575	0.0636	0.12	0.13	0.0814	
	Beryllium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	60.6	73.9	39.1	72.2	28.2	28.37	103	20.9	23.6	23.3	23.6	35	42	39	
	Chloride	NT	NT	NT	NT	212	264	90	47.3	51.1	49.9	404	27.8	32.2	24.3	44.8	101	107	54.8	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0072	0.019	ND
	Cobalt	ND	ND	ND	ND	0.0057	0.0071	ND	0.0587	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	34.6	ND	ND	ND	ND	ND	ND
	Copper	0.0192	0.0052	0.0074	0.0055	0.006	0.0103	0.0069	ND	ND	0.00631	ND	0.0106	ND	0.00863	ND	0.0044	ND	ND	
	Hardness	NT	NT	NT	NT	350	376	169	130	125	116	500	86	98	106	118	170	202	120	
	Iron	NT	NT	NT	NT	2.66	2.59	0.818	25.2	0.768	1.18	0.586	0.725	1.01	3.27	0.922	1.4	1.1	0.612	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	32.2	43.3	17.7	59.3	12.1	11.97	59	9.45	9.94	9.4	10.6	17	20	16.6	
	Manganese	NT	NT	NT	NT	1.21	1.34	1.24	10.1	0.876	0.919	0.0582	0.6	0.623	0.686	0.699	0.84	1.4	0.8	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0062	0.0028	ND	0.0021	0.0082	0.011	ND	0.0168	ND	ND	0.0141	ND	ND	0.00559	ND	ND	0.018	ND	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	0.575	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	8.27	5.35			6.71	6.94	6.6	7.16	6.74	6.85	7.1	6.66	6.77	7.02	
	Potassium	NT	NT	NT	NT	5.91	7.07	4.43	13.7	3.99	3.76	5.69	3.33	3.25	3.48	3.27	4.1	5	3.41	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	22.6	30.6	17.8	111	11	15.64	34.5	14.8	10.2	10	10.3	13	15	15.6	
	Spec. Cond.	NT	NT	NT	NT	665	910.3			318.1	302.2	261.2	252.9	229.3	199	268	388.5	508.5	301.1	
	Sulfate	NT	NT	NT	NT	13.5	14.9	7.38	4.24	5.87	4.51	20.2	5.14	4.79	4.96	5.54	7.29	6.27	6.19	
	TDS	NT	NT	NT	NT	780	1008	388	336	1264	252	1124	152	174	178	166	286	320	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	263
Turbidity	NT	NT	NT	NT	10.3	6.4	2.6	33.3	NT	NT	NS	7.5	35.3	83.2	10.5	23.9	14.9	3		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0176	0.0049	0.0074	0.0091	ND	0.0187	0.00533	0.00773	0.00643	0.00627	0.0086	ND	0.00616	0.0162	0.00818	ND	ND	ND		

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Table 4

Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB02A	Alkalinity	NT	NT	NT	NT	38	36	40	35	36	36	33	33	34	33	37	32	37	35	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Antimony	ND	ND	NT	0.0033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	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	0.399	0.436	0.3	0.46	0.436	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	77.5	76.4	87.1	82.9	96.3	94	24.7	90.3	112	88.9	91.2	80	110	102	
	Chloride	NT	NT	NT	NT	280	286	310	302	350	334	36	335	419	359	383	299	431	391	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0103	0.0045	0.0061	0.0064	0.0054	0.0075	0.0077	0.0053	ND	0.00507	ND	0.0112	ND	ND	ND	ND	0.0035	ND	ND
	Hardness	NT	NT	NT	NT	390	353	420	391	463	414	112	426	520	444	498	432	580	508	
	Iron	NT	NT	NT	NT	0.414	0.6	0.682	ND	0.58	0.396	0.793	0.486	0.521	0.574	0.567	0.62	ND	0.703	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	46.4	44.4	52.3	53.4	59.1	53.1	10.6	52.4	66.7	49.2	54.3	42	64	59.6	
	Manganese	NT	NT	NT	NT	0.0381	0.0382	0.0449	0.0513	0.0465	0.0449	0.718	0.0418	0.0548	0.0469	0.0503	0.031	0.043	0.0544	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0148	0.0125	ND	ND	0.0111	
	Nitrate	NT	NT	NT	NT	0.5894	0.582	0.589	0.543	0.576	0.582	ND	0.623	0.616	0.651	0.614	0.625	0.693	0.99	
	pH	NT	NT	NT	NT	5.75	4.77			5.09	5.41	5.25	5.7	5.34	5.33	5.77	5.49	5.59	5.58	
	Potassium	NT	NT	NT	NT	4.73	4.1	4.69	5.2	5.78	4.82	3.56	5.24	5.51	5.01	4.95	3.5	5.9	4.46	
	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	31.2	32.5	35	31.6	34.9	37.5	10.9	35.9	39.8	30.9	36.8	26	46	41.2	
	Spec. Cond.	NT	NT	NT	NT	636.7	925.5			1263	1120	1386	1286	1327	1125	1249	851.1	1365	1230	
	Sulfate	NT	NT	NT	NT	22.4	16.2	25.4	17.8	21.5	18.4	4.91	19.3	22.2	22.5	22.9	17.5	21.5	23.5	
	TDS	NT	NT	NT	NT	1088	1072	1192	288	68	824	176	796	1072	944	826	644	932	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	770	
Turbidity	NT	NT	NT	NT	3.83	1.16	0.891	0.416	NT	NT	NS	0	0	1.62	1.4	5.4	2.61	4.6		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	0.0156	ND	ND	0.0131	ND	0.00713	0.0081	0.00823	0.00783	0.00652	0.00607	0.00696	0.00883	0.00758	0.00972	0.013	ND	0.0047		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB03	Alkalinity	NT	NT	NT	NT	265	321	242	267	216	187	241	221	233	212	227	213	243	210	
	Ammonia	NT	NT	NT	NT	2.39	6.46	2.9	4.97	2.56	3.48	2.43	2.7	2.29	3.45	3.15	2.77	2.39	2.04	
	Antimony	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0046	0.004	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031	0.0028	0.0026
	Barium	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	0.554	0.536	0.52	0.49	0.5	
	Beryllium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	59.9	80.3	62.3	69	65.3	74.4	64.3	67.4	64.4	65.6	60.2	70	74	69.6	
	Chloride	NT	NT	NT	NT	134	193	155	220	163	222	169	192	157	201	194	202	183	201	
	Chromium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	0.0025	
	Cobalt	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	0.0526	0.0522	0.056	0.061	0.0484	
	COD	NT	NT	NT	NT	13.6	34.9	10.1	28.8	16.8	24.3	18	17.8	13.2	15.6	19.7	18.3	21.2	19.3	
	Copper	0.0113	0.0066	0.0077	0.0978	0.0063	0.0084	0.0124	0.0076	ND	0.0082	ND	0.0113	ND	ND	ND	0.0019	ND	ND	
	Hardness	NT	NT	NT	NT	690	700	400	3600	410	400	360	348	330	420	370	404	620	396	
	Iron	NT	NT	NT	NT	28.8	34.6	25	23.6	22.19	23.68	21.7	21.8	20.6	19	17.6	21	21	20.9	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	33.2	52.8	35.6	47.1	41.1	42.7	37	35.2	38.6	37.4	35.3	40	41	40.7	
	Manganese	NT	NT	NT	NT	18.5	18.8	21.3	18.5	19	19.6	18.8	19.5	19.4	17.3	20.6	19	19	26.8	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00025	ND	ND	0.00047	ND	ND	ND	ND	ND	
	Nickel	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	0.0176	0.0165	ND	0.032	0.0126	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	pH	NT	NT	NT	NT	6.19	4.74		5.97	5.78	5.15	5.93	5.84	5.73	6.01	5.81	5.78	6.09		
	Potassium	NT	NT	NT	NT	10.2	10.9	6.94	10.1	7	7.95	6.77	9.31	5.77	8.52	7.12	7	7.4	5.72	
	Selenium	NT	NT	NT	NT	ND	ND	ND	ND	ND	0.00545	ND	ND	ND	ND	ND	ND	ND	0.0029	
	Silver	ND	ND	ND	0.0154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	ND	ND	NT	ND	35.9	92.8	41.6	74.2	44.2	58.9	35.7	43.8	35.7	53.8	43.6	47	41	42.9	
	Spec. Cond.	NT	NT	NT	NT	902	1405		814.1	1140	960.6	1138	887.2	1025	980.6	824.4	952	970.2		
	Sulfate	NT	NT	NT	NT	8.84	31.4	16.7	41.4	22	28.5	13.1	18.6	16.8	36.2	23.4	32.2	12.6	21.5	
	TDS	NT	NT	NT	NT	564	984	676	784	804	888	604	572	568	602	540	584	516	0.0011	
	Thallium	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0013	574	
	Turbidity	NT	NT	NT	NT	11	24.4	22.9	2.81	NT	NT	NS	0	0	1.18	0	0	9.8	0	
	Vanadium	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0253	0.0208	ND	0.0336	ND	0.0118	0.0165	0.0148	0.0141	0.0175	0.0148	0.0142	0.0154	0.0137	0.0166	0.013	0.015	0.0093		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB03A	Alkalinity	NT	NT	NT	NT	317	461	270	340	226	266	268	338	260	278	257	292	286	299	
	Ammonia	NT	NT	NT	NT	6.47	8.93	4.35	7.91	5.09	6.15	4.51	6.67	4.18	6.76	4.96	4.64	3.65	5.97	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.008	0.0032	0.0106	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035	0.0026	ND
	Barium	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	0.376	0.419	0.25	0.32	0.235	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	69.4	91.6	66	24.8	68.5	76	62.3	70.9	67.2	62.8	58.6	78	80	76.5	
	Chloride	NT	NT	NT	NT	194	164	176	239	193	245	185	229	177	217	213	180	182	200	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	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	0.047	0.0496	0.034	0.044	0.0331	
	COD	NT	NT	NT	NT	19.1	38.5	12.1	35	22.5	31.1	19.5	52.1	17.5	19	21.1	18.4	24.4	23.4	
	Copper	0.0079	0.0056	0.0083	ND	0.0064	0.0084	0.008	0.0108	ND	0.00958	ND	0.011	ND	ND	ND	0.0013	ND	ND	
	Hardness	NT	NT	NT	NT	700	670	360	580	375	420	350	400	360	560	190	440	540	392	
	Iron	NT	NT	NT	NT	39.4	49.3	31	2.71	29.71	29.85	26.5	29.6	25.6	20.7	20.6	13	23	21.4	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	44.4	66.8	41.6	15.8	48.7	52.7	39.3	51.4	43	44.4	37.6	46	44	58.4	
	Manganese	NT	NT	NT	NT	13.3	6.35	16.4	0.982	14.2	13.7	15.4	11.2	16	8.71	15	6.6	15	6.37	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0162	0.015	ND	ND	0.0107	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	0.559	ND
	pH	NT	NT	NT	NT	5.76	4.98			6.03	6.04	5.2	6.29	5.34	6.03	6.16	7.1	6.18	6.29	
	Potassium	NT	NT	NT	NT	12.4	19.2	9.18	4.68	9.64	13.1	9.64	16.6	8.17	15	10	15	11	12.1	
	Selenium	ND	ND	ND	ND	0.0024	ND	ND	ND	ND	0.00586	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	70.3	132	58.5	14.4	70.5	91	52.2	97.8	55.7	83.7	60.1	96	61	109	
	Spec. Cond.	NT	NT	NT	NT	1023	1661			975.1	1379	1082	1517	998.1	1220	1117	1021	1112	1152	
	Sulfate	NT	NT	NT	NT	33.5	75.4	26.9	58.4	31.5	41.8	21.2	36	29.7	59.7	34.3	92.4	29.7	72.3	
	TDS	NT	NT	NT	NT	780	1112	704	980	888	952	632	796	578	724	560	706	590	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	ND	321
Turbidity	NT	NT	NT	NT	39.4	271	13.3	13.6	NT	NT	NS	1.8	3.8	2.86	6.2	10	62.7	14.2		
Vanadium	0.0113	0.0021	0.0036	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	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	0.00736	0.0129	0.0053	0.012	0.0064		

NT: Not Tested

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Note: Benchmark exceedances are indicated in Red

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB04	Alkalinity	NT	NT	NT	NT	221	242	255	238	242	261	248	244	249	248	265	250	270	249	
	Ammonia	NT	NT	NT	NT	0.328	0.542	0.514	0.695	0.673	0.667	0.771	0.733	0.666	0.782	0.939	0.826	1.04	0.787	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	0.0034	ND	0.0055	ND	ND	0.00907	0.00857	0.00926	ND	0.00882	ND	0.0079	0.0054	0.0041	
	Barium	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	0.294	0.291	0.28	0.28	0.309	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	154	160	159	154	157	173	157	151	164	175	169	180	170	170	
	Chloride	NT	NT	NT	NT	412	193	424	433	416	473	448	449	455	453	462	503	482	496	
	Chromium	ND	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	ND
	COD	NT	NT	NT	NT	26.3	25.2	29.8	30.7	29.2	34.1	26.7	31.3	23.7	34.8	38	33.1	35	32	
	Copper	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	0.0382	0.0393	0.036	0.039	0.036	
	Hardness	NT	NT	NT	NT	670	610	680	717	705	714	712	730	740	742	762	764	760	780	
	Iron	NT	NT	NT	NT	0.343	1.13	1.2	ND	0.92	0.804	0.824	0.751	0.729	0.921	0.993	ND	ND	1	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	75.1	83.7	81	88.1	89.1	88.9	76.6	78.1	82	88.3	86.1	89	86	87.4	
	Manganese	NT	NT	NT	NT	1.32	1.81	1.84	1.94	2.03	2.07	2.28	2.55	2.59	2.63	2.95	2.6	3.2	5.14	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0174	0.0149	ND	0.011	0.0136	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	6.71	5.3			5.88	5.65	5.67	6.22	6.12	6.17	6.32	6.07	5.99	6.21	
	Potassium	NT	NT	NT	NT	6.32	6.52	6.45	7.29	7.18	7.03	7.72	8.21	7.21	7.74	7.71	7.4	8.4	6.85	
	Selenium	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	0.0303	0.0208	0.027	0.022	0.0195	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	NT	NT	71	77.6	73.8	74.4	74.3	73.3	63.2	66.6	64.8	71.4	73.1	65	71	69.3	
	Spec. Cond.	NT	NT	NT	NT	1673	1758			1503	1817	1828	2022	1737	1742	1840	1685	1881	1835	
	Sulfate	NT	NT	NT	NT	18.8	21.1	28.4	19.6	22.3	19.5	18.3	16.1	21	22.8	27.9	20.2	17.9	21.6	
	TDS	NT	NT	NT	NT	1348	1772	1760	1428	1736	1632	1432	1600	1304	1256	1168	1112	1142	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1150
	Turbidity	NT	NT	NT	NT	1.07	0.24	0.632	0.421	NT	NT	NS	0	0	1.02	0	0.6	0	0	
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.0058	0.0167	ND	0.0138	ND	0.00761	0.00779	0.00828	0.00744	0.00692	0.00885	0.00793	0.00797	0.00999	0.0109	0.0064	0.006	0.0056		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB04A	Alkalinity	NT	NT	NT	NT	125	142	135	133	127	129	123	129	127	133	144	1250	131	132	
	Ammonia	NT	NT	NT	NT	0.301	0.366	0.281	0.379	0.316	0.218	0.299	0.285	0.229	0.309	0.478	0.368	0.372	0.327	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	ND	ND	ND	ND	0.0036	ND	0.0061	0.0053	ND	0.0105	0.0107	0.0105	0.00555	0.0106	0.00509	0.0082	0.0067	0.0046	
	Barium	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	0.0681	0.0681	0.059	0.061	0.0686	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	109	116	113	117	118	124	118	126	123	142	121	130	130	129	
	Chloride	NT	NT	NT	NT	438	311	468	473	460	531	501	498	501	512	530	544	541	580	
	Chromium	0.0026	ND	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	31.3	26.4	29.5	39.3	27.5	33	33.3	28.8	65.6	27.6	34.6	35.6	39.7	35.5	
	Copper	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	0.0281	0.0291	0.03	0.028	0.028	
	Hardness	NT	NT	NT	NT	570	550	600	592	602	622	598	604	616	640	684	694	680	690	
	Iron	NT	NT	NT	NT	0.998	1.57	1.24	0.636	0.712	1.12	0.615	0.806	0.932	1.05	0.998	0.5	ND	0.941	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	71.9	86.1	80.3	94.8	85.5	88.8	81	89.6	85.5	98.8	85.2	89	89	91.1	
	Manganese	NT	NT	NT	NT	0.969	1.07	1.13	1.12	1.1	1.01	1.12	1.23	1.48	1.32	1.58	1.6	1.7	1.84	
	Mercury	ND	0.0004	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0238	0.0219	ND	0.017	0.0225	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	5.82	4.84			5.43	5.57	5.29	5.85	5.69	5.77	5.92	6.41	5.63	5.76	
	Potassium	NT	NT	NT	NT	4.93	5.25	4.92	5.92	4.99	5.73	5.42	5.96	5.15	5.38	5.51	5.3	5.9	5.74	
	Selenium	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	0.0358	0.0233	0.028	0.026	0.0226	
	Silver	ND	0.0026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	NT	NT	NT	NT	89.1	101	91.9	100	91.1	95	89	100	90.4	106	89.6	94	89	90.3	
	Spec. Cond.	NT	NT	NT	NT	1943	1678			1438	1752	1785	1985	1697	1720	1818	1577	1837	1836	
	Sulfate	NT	NT	NT	NT	12.1	12.9	12.8	11.5	11	11.1	11.5	9	11.7	12	14	11	9.29	12.2	
	TDS	NT	NT	NT	NT	1200	1764	1672	1356	1636	1508	1476	1596	1262	1242	1138	1088	1169	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1070
Turbidity	NT	NT	NT	NT	10.3	16.8	16.3	5.83	NT	NT	NS	12.3	18.2	14.1	7.2	0	0.81	0		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	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	0.0239	0.026	0.024	0.023	0.022		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016		
Monitoring Location OB06	Alkalinity	NT	NT	NT	NT	150	170	220	145	156	175	161	178	188	203	182	197	220	231		
	Ammonia	NT	NT	NT	NT	ND	ND	ND	0.389	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	
	Arsenic	ND	0.0027	ND	ND	0.0032	ND	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	0.0059	0.0027	
	Barium	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	0.205	0.193	0.17	0.17	0.17	0.193	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	148	147	126	145	137.5	142	148	135	136	146	130	140	140	140	90.8	
	Chloride	NT	NT	NT	NT	356	222	360	356	350	383	374	382	376	373	365	372	365	365	382	
	Chromium	0.0768	ND	ND	0.0127	0.0021	0.021	0.127	0.0199	ND	0.0133	0.00631	ND	ND	0.00725	ND	ND	ND	ND	0.0027	
	Cobalt	0.0251	0.0052	0.0052	ND	0.0059	0.0111	0.0326	0.0101	ND	0.00694	0.00655	ND	ND	0.00565	ND	ND	0.005	0.0046		
	COD	NT	NT	NT	NT	68	55.1	31.5	38.9	32.9	44	38.1	43	36.2	44.6	41.5	43.2	48.4	29.5		
	Copper	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	0.0164	0.0106	0.0051	ND	0.005		
	Hardness	NT	NT	NT	NT	580	560	550	553	552	582	566	582	584	632	584	586	572	576		
	Iron	NT	NT	NT	NT	1.7	29.2	111	15.5	1.05	12.2	5.07	1.17	1.4	7.3	2.69	0.64	1.5	1.04		
	Lead	0.0491	ND	ND	ND	ND	0.0126	0.0503	0.0474	ND	0.0081	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	56.6	64.4	78.8	63	55.9	61.3	61.1	55.3	54.7	61.9	55.5	55	58	56.2		
	Manganese	NT	NT	NT	NT	0.482	0.668	1.57	0.862	0.487	0.592	0.589	0.496	0.481	0.557	0.494	0.47	0.57	0.568		
	Mercury	0.0005	0.0003	ND	ND	ND	0.00286	0.00149	0.00852	0.00087	0.00054	0.00041	ND	ND	0.00051	ND	ND	0.00023	ND		
	Nickel	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	0.0151	0.0129	0.014	ND	0.0104		
	Nitrate	NT	NT	NT	NT	0.6869	0.6679	0.87	0.758	0.786	0.708	0.674	0.554	0.559	0.486	0.609	0.59	0.535	0.41		
	pH	NT	NT	NT	NT	5.62	5.69			5.51	5.76	5.42	6.03	5.7	5.96	5.94	6.31	5.87	6.24		
	Potassium	NT	NT	NT	NT	4.82	6.71	28.8	6.2	4.72	7.39	5.52	6.2	4.75	5.57	4.68	4.4	5.1	4.13		
	Selenium	ND	0.0095	0.0088	ND	0.0147	0.008	0.023	0.0201	0.0122	0.0121	0.0151	0.0169	0.0124	0.0117	0.0134	0.014	0.017	0.0121		
	Silver	ND	ND	ND	ND	ND	0.0088	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	
	Sodium	NT	NT	NT	NT	83.3	92	70.4	80.3	81	94.3	88.7	92.2	87.3	105	91	100	110	125		
	Spec. Cond.	NT	NT	NT	NT	1564	1571			1289	1600	1618	1247	1537	1567	1490	313.4	1618	1625		
	Sulfate	NT	NT	NT	NT	82.9	85.1	81.7	85.7	93.7	76.8	89.6	86.5	101	89.8	92.6	89.9	102	99.3		
	TDS	NT	NT	NT	NT	1116	1388	1784	1192	960	1156	1224	1124	1150	982	1034	970	913	ND		
	Thallium	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	979	
Turbidity	NT	NT	NT	NT	21.7	533	3329	3800	NT	NT	NS	44.6	38.5	206	58.9	35.5	36.4	20.1			
Vanadium	0.0724	ND	ND	ND	ND	0.0204	0.133	0.0213	ND	0.0148	ND	ND	ND	0.00736	ND	ND	ND	ND			
Zinc	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	0.0357	0.0283	0.019	0.022	0.0128			

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB07	Alkalinity	NT	NT	NT	NT	163	161	184	175	169	176	172	178	181	191	196	184	200	198	
	Ammonia	NT	NT	NT	NT	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
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0021	0.0029	ND
	Barium	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	0.029	0.0325	0.038	0.024	0.0285	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	99.5	105	102	114	112.5	108	113	115	123	127	124	130	130	131	
	Chloride	NT	NT	NT	NT	150	48.8	171	193	194	199	202	222	223	226	243	206	235	236	
	Chromium	0.0034	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	ND
	COD	NT	NT	NT	NT	ND	13.6	ND	14	5.2	11.7	ND	11.2	ND	14.3	15.9	11.3	13.8	ND	
	Copper	0.0137	0.0033	0.008	ND	0.0062	0.0126	0.0132	ND	ND	0.00909	0.00561	0.0135	ND	ND	ND	0.0052	ND	0.0025	
	Hardness	NT	NT	NT	NT	331	350	360	407	409	412	434	452	494	508	450	488	464		
	Iron	NT	NT	NT	NT	0.262	1.07	2.14	1.08	0.659	0.957	0.837	1.78	0.564	0.699	0.742	0.78	ND	0.924	
	Lead	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND	ND
	Magnesium	NT	NT	NT	NT	26.1	29.7	28.5	35.2	34.8	33.6	33.3	33.9	37.7	40.3	39.9	36	38	39.6	
	Manganese	NT	NT	NT	NT	0.0317	0.281	0.221	0.0338	0.0369	0.113	0.0724	0.0827	0.0415	0.0394	0.039	0.15	0.062	0.077	
	Mercury	ND	ND	ND	ND	ND	ND	0.00028	0.00049	0.00031	0.00029	0.00053	0.00038	0.00039	0.00051	0.00048	0.00029	0.00036	0.0002	
	Nickel	0.0056	0.0022	ND	ND	0.0047	0.0057	ND	ND	ND	ND	ND	ND	0.00568	ND	ND	0.0054	ND	0.002	
	Nitrate	NT	NT	NT	NT	0.5482	0.5966	0.658	0.861	0.819	0.8232	0.8309	0.8996	0.96	0.9667	1	0.846	0.9093	0.8753	
	pH	NT	NT	NT	NT	7.04	5.95		6.34	6.55	6.17	6.74	6.41	6.58	6.65	6.63	6.64	6.86		
	Potassium	NT	NT	NT	NT	3.07	3.23	3.13	3.24	3.42	3.4	3.54	4.66	3.47	3.3	3.45	3.7	3.8	3.24	
	Selenium	0.0054	0.0028	ND	ND	0.0044	ND	0.0058	0.0071	0.00658	0.00506	0.00714	0.00865	0.0064	0.00629	0.00837	0.0085	0.012	0.0074	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	21.4	23.3	21.9	21.3	20.8	24.5	19.5	22.9	20.8	22.1	22.6	21	22	22.2	
	Spec. Cond.	NT	NT	NT	NT	760	828.1		806.2	937.2	973.5	1115	992.5	1025	1057	874	1048	1018		
	Sulfate	NT	NT	NT	NT	13.4	15.2	19.2	20.4	21	20.2	23	24.1	24.6	27.9	32.5	26.9	29.5	28.8	
	TDS	NT	NT	NT	NT	644	764	1068	800	984	708	828	666	724	624	824	636	625	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	791	
Turbidity	NT	NT	NT	NT	0.283	14.3	40.7	0.939	NT	NT	NS	42.5	0	1.23	0.3	24.1	5	14.1		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	ND	ND	ND	ND	ND	0.0126	0.0112	ND	0.00576	0.00575	0.00624	0.00752	0.00539	ND	0.00858	0.0087	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB07A	Alkalinity	NT	NT	NT	NT	124	92	115	112	115	122	119	112	120	118	114	119	120	70	
	Ammonia	NT	NT	NT	NT	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
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	0.0036	ND
	Barium	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	0.0458	0.0463	0.043	0.039	0.0401	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	91.8	55.8	72	86.5	90	82.9	94.3	87.3	93.6	93.5	80.2	87	92	50.1	
	Chloride	NT	NT	NT	NT	235	74.5	205	216	246	244	265	255	268	260	240	254	272	136	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	ND	ND
	Cobalt	0.0025	0.0027	ND	ND	ND	0.0059	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	17.8	6.1	9.7	16.5	10	16.9	15	17.3	12.8	18.2	21.3	16.6	20.2	ND	
	Copper	0.0113	0.0092	0.0116	ND	0.0058	0.0128	0.0078	ND	ND	0.00594	ND	0.0116	0.0055	ND	ND	0.002	ND	ND	
	Hardness	NT	NT	NT	NT	420	205	350	424	408	436	408	448	420	448	450	416	434	436	252
	Iron	NT	NT	NT	NT	0.239	ND	0.5	0.819	0.538	0.458	0.576	0.615	0.43	0.533	0.52	ND	ND	ND	0.284
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	51.2	21.7	41.6	49.3	52.5	48.3	50.2	48.9	51.9	52.9	46	50	53	21.9	
	Manganese	NT	NT	NT	NT	0.0592	0.753	0.0954	0.07	0.0716	0.0676	0.0891	0.0753	0.0704	0.0665	0.0762	0.094	0.054	0.153	
	Mercury	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	0.00085	0.00072	0.001	0.00078	ND	
	Nickel	0.0059	0.0043	0.0041	ND	0.006	0.0099	ND	ND	ND	ND	0.00528	ND	0.00656	ND	ND	0.009	ND	0.0054	
	Nitrate	NT	NT	NT	NT	0.8907	ND	0.9	0.902	0.891	0.97	0.97	1	1	0.97	0.942	1.01	1.03	0.364	
	pH	NT	NT	NT	NT	6.51	5.94		5.6	5.86	5.81	6.05	5.7	5.94	6.05	6.34	5.77	6.04		
	Potassium	NT	NT	NT	NT	2.66	7.32	2.56	2.3	2.44	2.45	2.8	3.12	2.55	2.45	2.25	2.4	2.5	2.76	
	Selenium	0.0044	0.0032	ND	ND	0.0083	ND	0.0064	0.0095	0.00935	0.00589	0.00838	0.00869	0.00894	0.00692	0.00927	0.011	0.013	0.0045	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	30.2	23.8	26.1	25.6	26.3	28.6	24.8	27.1	24.9	26.1	24.2	24	27	16	
	Spec. Cond.	NT	NT	NT	NT	706.7	565.4		860.9	994.7	1082	1157	1016	996.9	909	856.8	1014	515.1		
	Sulfate	NT	NT	NT	NT	22.4	3.38	21.6	22.6	28	24.3	24.6	27.5	31	30.6	28.4	29.7	35.5	5.65	
	TDS	NT	NT	NT	NT	784	492	1176	796	872	748	856	718	774	590	752	606	583	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	422
Turbidity	NT	NT	NT	NT	0.317	6.85	1.55	0.579	NT	NT	NS	0	0.75	0.99	0	0	0	2.5		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	0.0086	ND	ND	ND	ND	0.0136	0.0079	0.00516	ND	ND	0.0057	ND	0.0066	ND	0.00834	ND	ND	0.0052		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB08	Alkalinity	NT	NT	NT	NT	229	245	248	230	230	239	223	224	219	219	227	215	213	196	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.387	ND	
	Antimony	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
	Barium	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	0.125	0.132	0.13	0.13	0.138	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	63.5	71.1	65.9	62.7	67.1	70.8	68.2	66.6	65.3	54.3	57.1	64	64	58.4	
	Chloride	NT	NT	NT	NT	34.7	31.2	32.8	34.2	46.1	42.8	47.4	45.5	47.7	44.7	39.5	37.5	39.7	42.4	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	0.0069	0.0034	ND	ND	0.0052	0.0064	0.0064	0.007	0.00803	0.00789	0.00841	0.00798	0.00648	0.00647	0.00692	ND	ND	0.0041	
	COD	NT	NT	NT	NT	ND	4.9	ND	ND	ND	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0061	0.0045	0.008	ND	0.0043	0.0073	0.006	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Hardness	NT	NT	NT	NT	228	250	300	265	144	236	234	232	230	232	236	220	222	206	
	Iron	NT	NT	NT	NT	0.301	0.675	0.647	0.718	0.797	0.74	0.774	0.575	0.676	0.692	0.739	0.031	0.027	0.45	
	Lead	ND	ND	ND	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	12.9	16.6	14.9	17	16.8	17.7	17	15.9	16.5	17.6	15.1	14	13	12.9	
	Manganese	NT	NT	NT	NT	6.29	7.07	7.18	6.56	7.228	6.84	7.26	6.89	6	5.84	6.26	5.2	4.9	4.89	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0082	0.0039	ND	ND	0.0083	0.0081	0.0083	0.0077	0.0085	0.00877	0.0107	0.0111	0.00755	0.00699	0.00892	0.0075	ND	0.0054	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	7.04	5.41			5.85	6.22	6.04	6.54	6.18	6.18	6.62	7.07	6.49	6.56	
	Potassium	NT	NT	NT	NT	2.81	2.87	2.63	2.91	2.86	2.85	2.95	2.48	2.71	2.61	2.7	2.8	2.7	2.33	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	27.2	31.6	28	28.7	27.4	28	25.4	26.3	26.4	20.1	24	25	24	22.2	
	Spec. Cond.	NT	NT	NT	NT	523.1	528.2			476.3	559.9	566.8	603.6	516.5	499.8	491.3	406.8	506.9	450.1	
	Sulfate	NT	NT	NT	NT	7.54	4.91	4.83	ND	ND	4.76	4.11	5.27	5.68	5.8	4.32	7.65	6.7	9.5	
	TDS	NT	NT	NT	NT	284	340	384	280	344	348	352	270	392	322	322	352	209	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		264
Turbidity	NT	NT	NT	NT	0.266	0.77	0.485	0.735	NT	NT	NS	0	0	1.08	2.1	0	0.1	0		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0048	ND	ND	ND	ND	ND	ND	0.00765	0.00658	0.00607	0.00624	0.00571	0.00571	0.00666	0.0106	0.0059	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB08A	Alkalinity	NT	NT	NT	NT	228	233	226	220	218	221	216	219	214	218	219	221	221	210	
	Ammonia	NT	NT	NT	NT	ND	0.299	ND	ND	ND	ND	ND	ND	ND	0.222	0.247	ND	0.435	0.233	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0022	ND	ND	ND	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0029	0.0026	0.0026
	Barium	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	0.0677	0.077	0.047	0.041	0.0697	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	59.4	52.6	52.9	58.1	54.4	53.3	54.7	54.9	52.4	47.1	47.6	49	53	54.5	
	Chloride	NT	NT	NT	NT	67.4	39.9	58.2	45.4	63.3	55.5	65.4	63.8	68	59.9	50.4	60.8	70	67.6	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047	ND	0.002
	Cobalt	0.0177	0.0094	ND	0.0167	0.0186	0.0135	0.0175	0.0146	0.0173	0.0171	0.0189	0.0189	0.0189	0.0161	0.0153	0.0149	0.017	0.019	0.0157
	COD	NT	NT	NT	NT	ND	39.2	5.3	10.2	ND	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper	0.0058	0.0041	0.0061	ND	0.0051	0.0067	0.0061	0.006	ND	0.00802	ND	ND	ND	ND	ND	ND	0.0017	ND	ND
	Hardness	NT	NT	NT	NT	570	330	300	370	190	252	240	230	240	236	218	264	250	230	
	Iron	NT	NT	NT	NT	3.85	3.33	3.35	3.69	3.05	3.44	3.93	3.38	3.94	3.06	3.31	4.4	5	3.87	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	23.2	19.2	19.3	20.3	22	21.8	21.8	21.8	21.6	17.9	18.7	21	23	21.2	
	Manganese	NT	NT	NT	NT	8.16	7.9	8.23	8.57	7.484	7.53	8.27	8.12	7.16	6.94	7.33	6.8	7.1	7.77	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0066	0.00738	0.011	ND	0.0056	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	6.65	5.49		5.96	6.07	5.87	6.39	6.01	6.11	6.47	6.61	6.07	6.25		
	Potassium	NT	NT	NT	NT	2.82	2.73	2.52	2.77	2.8	2.79	2.99	2.85	2.91	2.72	2.6	2.8	3	2.54	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	37	34.7	31.7	30.8	31.8	32.9	30.7	30.7	30.1	24.7	29.4	32	33	29.2	
	Spec. Cond.	NT	NT	NT	NT	579.9	541.9		502.5	579.1	600.1	649.1	547.9	536.7	503.4	468.1	616.8	545.4		
	Sulfate	NT	NT	NT	NT	3.85	3.04	5.74	ND	ND	ND	ND	4.39	5.07	ND	ND	ND	ND	ND	
	TDS	NT	NT	NT	NT	352	336	384	340	1240	364	364	288	388	316	306	326	291	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	317
Turbidity	NT	NT	NT	NT	1.69	3.8	0.528	1.36	NT	NT	NS	0	0	1.39	0.9	1.5	0	0.3		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0045	ND	ND	ND	ND	ND	ND	0.0078	0.00676	0.0101	0.00749	0.00596	0.00704	0.00625	0.00911	0.0084	0.0077	0.0028		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB10	Alkalinity	NT	NT	NT	NT	110	83	134	116	122	119	133	116	139	116	132	116	136	114	
	Ammonia	NT	NT	NT	NT	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
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	ND
	Barium	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	0.0622	0.0699	0.047	0.064	0.0591	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	38.6	37.7	43.4	39.8	45.8	48.1	50.1	45	55.8	53.3	56.6	62	67	59.7	
	Chloride	NT	NT	NT	NT	82.4	53.3	83.6	89	94.1	100	121	120	136	144	159	147	185	179	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	0.0041	0.0022	ND	ND	0.0029	ND	0.0059	ND	ND	0.00519	0.00809	0.00674	0.00837	0.0062	0.00784	0.0053	0.0091	0.0055	
	COD	NT	NT	NT	NT	ND	7.5	10.3	ND	ND	7.5	ND	ND	ND	ND	10.7	ND	12.2	ND	
	Copper	0.0082	0.0041	0.0066	0.0063	0.006	0.0179	0.0057	ND	ND	ND	ND	0.0109	ND	ND	ND	ND	ND	ND	
	Hardness	NT	NT	NT	NT	160	161	230	230	226	210	244	234	278	256	292	276	332	294	
	Iron	NT	NT	NT	NT	0.598	1.9	1.28	0.783	1.12	0.975	1.63	1.14	1.75	1.14	1.58	0.4	1.3	0.971	
	Lead	0.0031	ND	ND	ND	ND	0.0085	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	19.4	18.1	24	24.9	27.8	25.8	28.1	25.1	34.4	30.3	32.5	34	40	33.7	
	Manganese	NT	NT	NT	NT	2.63	1.31	3.47	2.68	3.03	3.15	4.31	3.66	5.2	3.96	5.01	3.7	5.8	4.68	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Nickel	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	0.00829	0.0101	0.011	ND	0.0082	
	Nitrate	NT	NT	NT	NT	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	pH	NT	NT	NT	NT	6.3	5.98		5.8	6.05	5.49	6.2	6.12	6.03	6.32	6.09	5.85	5.97		
	Potassium	NT	NT	NT	NT	2.81	2.94	2.65	3.28	3	3.02	3.32	3.44	2.98	3.09	3.29	3.4	3.6	3.42	
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	0.004	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	19	20.3	20.3	18.4	19.6	18.2	18.3	19.8	20.8	19.6	21	21	23	20.4	
	Spec. Cond.	NT	NT	NT	NT	413.6	423.9		446.8	544.8	623.9	654	636.8	596.2	663.6	589.7	787.5	671		
	Sulfate	NT	NT	NT	NT	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	TDS	NT	NT	NT	NT	368	364	552	456	492	480	396	440	434	340	466	424	523	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	399	
Turbidity	NT	NT	NT	NT	2.09	21.1	1.16	0.443	NT	NT	NS	0	0	0	0.3	0	0	0		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	0.0198	0.0087	ND	0.0107	ND	0.0226	0.00595	0.00573	0.00698	0.00662	0.00705	0.00562	0.00811	0.00671	0.00864	ND	ND	0.0021		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB102	Alkalinity	NT	NT	NT	NT	1140	960	1100	1008	1000	1056	1060	1110	1080	980	1000	1040	1100	1160	
	Ammonia	NT	NT	NT	NT	11.2	12.4	8.98	11.1	11.1	11.6	12	14	13.3	13.5	12.3	14.6	15.8	16.1	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0196	0.0063	0.0061	ND	0.0065	ND	0.0068	0.0061	0.00581	ND	ND	0.0112	0.00523	ND	0.00502	0.0083	0.012	ND	
	Barium	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	0.367	0.366	0.35	0.35	0.407	
	Beryllium	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00071	ND	ND
	Calcium	NT	NT	NT	NT	116	113	114	124	119.7	115	120	118	116	116	109	120	120	113	
	Chloride	NT	NT	NT	NT	560	128	577	578	564	602	588	558	543	519	520	563	551	560	
	Chromium	0.1373	0.0033	0.0088	ND	0.0105	0.0102	ND	ND	ND	ND	0.00622	0.014	ND	ND	ND	ND	ND	ND	
	Cobalt	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	0.0695	0.0686	0.074	0.073	0.0744	
	COD	NT	NT	NT	NT	262	250	252	235	237	227	242	235	126	176	147	87	120	210	
	Copper	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	0.0616	0.05	0.041	0.038	0.0448	
	Hardness	NT	NT	NT	NT	810	158	900	775	701	640	700	686	696	710	684	724	700	660	
	Iron	NT	NT	NT	NT	8.95	9.66	3.55	1.69	0.798	0.945	1.01	1.93	2.03	3.64	1.99	0.35	0.24	0.967	
	Lead	0.0806	ND	0.0055	ND	0.0043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	94.8	98.7	94.3	102	98.4	97.4	97.4	104	96.9	99.2	89.73	96	100	106	
	Manganese	NT	NT	NT	NT	22.2	20.7	21.8	23.5	20.9	21.2	21.7	20.2	20.1	18.8	18	19	19	17.3	
	Mercury	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Nickel	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	0.0903	0.0884	0.1	0.091	0.101	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	pH	NT	NT	NT	NT	6.26	5.95			6.42	6.64	6.29	6.86	6.41	6.8	6.74	7.07	6.54	6.80	
	Potassium	NT	NT	NT	NT	37.2	41.7	37.8	39.8	40.4	39.9	41.4	47.4	46.7	44.9	43	51	51	49.5	
	Selenium	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	0.0162	0.0197	0.021	0.032	0.0165	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	613	549	500	561	550	532	586	558	483	523	504	490	510	562	
	Spec. Cond.	NT	NT	NT	NT	3522	3493			3010	3558	3612	3298	3303	3270	3129	1902	3390	3339	
	Sulfate	NT	NT	NT	NT	71.9	71.5	57.4	74.3	74.4	55.4	55.2	48.1	44.7	45	69.4	65.3	64.9	51.9	
	TDS	NT	NT	NT	NT	2120	2172	2252	2308	2244	2268	2236	2146	2158	2122	2098	2066	2099	ND	
	Thallium	0.0087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2220	
Turbidity	NT	NT	NT	NT	191	202	71.4	23.7	NT	NT	NS	58.9	84.5	79.5	19.9	15.4	8.5	6.5		
Vanadium	0.1443	ND	0.0105	ND	0.0104	0.0124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	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	0.0231	0.0194	0.011	0.011	0.0119		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB105	Alkalinity	NT	NT	NT	NT	810	1710	600	728	494	51	522	770	50	774	645	1250	1100	1040	
	Ammonia	NT	NT	NT	NT	12.4	61.8	5.02	25.1	4.4	16.3	3.48	13.1	4.61	19.3	6.8	42.5	29.1	29.7	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0057	0.0064	0.0044	ND	0.012	0.005	0.0109	ND	ND	0.0147	0.009	0.00942	0.00577	ND	ND	0.007	0.0061	ND	
	Barium	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	0.277	0.337	0.39	0.28	0.381	
	Beryllium	ND	ND	ND	ND	0.0026	ND	ND	ND	ND	0.0112	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	0.0047	ND	ND	ND	ND	0.0109	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	156	124	165	92.2	170	160	167	168	169	147	166	140	150	180	
	Chloride	NT	NT	NT	NT	328	265	334	219	309	356	337	334	318	307	336	339	320	340	
	Chromium	0.0057	0.0044	ND	ND	0.0717	0.0075	0.0808	0.0106	0.0184	0.166	0.0236	0.0434	0.0235	0.0213	0.0574	0.0087	ND	ND	
	Cobalt	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	0.0214	0.0436	0.019	0.011	0.0129	
	COD	NT	NT	NT	NT	173	258	207	92.4	83.4	140	61.5	93.4	56.2	102	75.3	135	121	122	
	Copper	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	0.0321	0.0958	0.021	ND	0.015	
	Hardness	NT	NT	NT	NT	900	870	950	576	866	960	908	924	940	900	924	424	860	890	
	Iron	NT	NT	NT	NT	85.3	31.2	110	17.1	19.96	253	26.7	50.7	24.7	27.2	75.4	27	14	20.9	
	Lead	0.0033	0.0021	ND	ND	0.0268	ND	0.0332	ND	0.015	0.0726	0.0155	0.0164	0.0104	0.00748	0.028	0.0037	ND	ND	
	Magnesium	NT	NT	NT	NT	129	152	132	96.5	132	168	116	139	127	128	137	150	130	143	
	Manganese	NT	NT	NT	NT	3.58	1.97	3.76	1.68	2.66	6.03	3.07	4.65	3.53	1.91	5.17	3.1	4.4	3.54	
	Mercury	0.0004	ND	ND	ND	0.0038	ND	0.003	0.00026	0.00101	0.00645	0.00173	0.00084	0.00096	0.00061	0.00437	0.00032	ND	ND	
	Nickel	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	0.0508	0.0915	0.0037	0.01	0.0211	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	0.99	ND	ND	ND	ND	ND	ND	ND	ND	0.269	ND	
	pH	NT	NT	NT	NT	6.81	6.33			6.18	6.55	5.75	6.61	6.34	6.69	6.83	7	6.68	6.80	
	Potassium	NT	NT	NT	NT	35.7	136	19.3	61.3	15	58.6	12.9	33.3	15.4	51.5	23.4	89	65	69.3	
	Selenium	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	0.0169	0.0144	0.013	0.016	0.0111	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	286	468	174	202	183.57	226	167	279	184	224		320	300	304	
	Spec. Cond.	NT	NT	NT	NT	3384	3886			1963	3025	2414	2960	2224	2477	2473	2920	2099	2888	
	Sulfate	NT	NT	NT	NT	346	105	309	139	314	312	289	240	299	267	287	137	190	189	
	TDS	NT	NT	NT	NT	1736	2400	1876	1320	1872	1776	1628	1784	1606	1600	1608	1792	1747	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	65	ND	ND	ND	1770	
Turbidity	NT	NT	NT	NT	1215	338	3430	240	NT	NT	NS	1721	728	ND	1070	258.3	39.8	314.5		
Vanadium	0.0077	0.0042	ND	ND	0.0789	0.0096	0.136	0.0194	0.0331	0.363	0.0492	0.0811	0.0362	ND	0.0896	0.016	ND	ND		
Zinc	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	ND	0.391	0.076	0.085	0.0379		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB11	Alkalinity	NT	NT	NT	NT	201	165	200	211	215	217	219	221	228	0.0483	283	202	218	214	
	Ammonia	NT	NT	NT	NT	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
	Arsenic	ND	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.6	ND	0.002	0.0021	ND
	Barium	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	147	0.0323	0.023	0.024	0.0254	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	0.0088	0.0058	0.009	0.01	0.0101	0.0104	0.0104	0.011	0.0103	ND	0.011	0.012	0.011	0.0112	
	Calcium	NT	NT	NT	NT	126	108	133	134	132.3	132	133	132	135	ND	138	130	140	132	
	Chloride	NT	NT	NT	NT	330	393	358	259	371	407	398	397	392	ND	417	394	426	438	
	Chromium	0.0037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206	ND	0.0051	0.0056	0.0048	
	Cobalt	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.92	ND	ND	ND	ND	
	COD	NT	NT	NT	NT	27.5	28.2	29	32.5	22.4	32.8	24	37.8	22.5	ND	37.5	29.3	25.3	30.4	
	Copper	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	25	0.00739	0.0036	ND	0.0031	
	Hardness	NT	NT	NT	NT	550	510	600	563	581	596	592	576	606	0.257	606	650	650	650	
	Iron	NT	NT	NT	NT	0.454	0.84	1.22	1.27	0.738	0.726	0.656	0.674	0.638	ND	0.741	ND	ND	0.992	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	
	Magnesium	NT	NT	NT	NT	60.1	59.1	67.9	66.6	66.6	67.4	64.4	68.9	67	0.463	70.2	76	73	72.2	
	Manganese	NT	NT	NT	NT	0.862	0.7	0.884	0.869	0.768	0.758	0.858	0.793	0.76	6.03	0.858	0.86	0.89	0.829	
	Mercury	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	3.03	0.00141	0.0028	0.0019	0.0011	
	Nickel	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	ND	0.0356	0.04	0.034	0.0308	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	pH	NT	NT	NT	NT	5.69	5.03			5.35	5.41	5.31	5.81	5.41	30.3	5.77	6.16	5.67	5.73	
	Potassium	NT	NT	NT	NT	4.56	8.25	4.9	4.82	4.7	5.13	5.19	5.45	5.17	548.7	4.71	5.3	5.6	4.65	
	Selenium	0.0043	0.0029	ND	ND	0.0049	ND	0.0078	0.0061	0.00568	ND	0.011	0.00674	0.00545	4.73	0.0068	0.0054	0.0082	0.0069	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	56.7	59.9	68.8	67.9	68.5	68	68	75.8	71.3	ND	77.7	77	82	78.2	
	Spec. Cond.	NT	NT	NT	NT	1339	1340			1302	1559	1601	1774	1539	132.6	1627	1352	1611	1538	
	Sulfate	NT	NT	NT	NT	8.96	8.47	9.53	9.48	10.2	11.2	10.3	10.5	12.2	ND	11.7	10.7	9.58	11.4	
	TDS	NT	NT	NT	NT	1208	1152	1416	1116	1036	1404	1212	1018	1122	0.0103	1074	920	983	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	960	
Turbidity	Nt	Nt	Nt	Nt	1.16	3.65	5.75	0.733	NT	NT	NS	0	0	1.51	0.3	0	1.91	7.2		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	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	0.0441	0.0418	0.044	0.042	0.0362		

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Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB11A	Alkalinity	NT	NT	NT	NT	270	282	280	292	285	279	288	298	302	295	49	285	333	316	
	Ammonia	NT	NT	NT	NT	0.222	0.817	1.7	2.11	1.59	1.11	1.25	1.79	1.18	1.99	1	0.356	0.423	0.305	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0072	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022	0.0035	0.0022
	Barium	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	0.206	0.185	0.18	0.15	0.193	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	0.0102	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	0.0025	0.0101	ND	0.0059	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	0.002	0.002
	Calcium	NT	NT	NT	NT	99	92.5	89.8	84.7	93.5	93.4	91.4	85.3	99.6	79.6	97.3	100	120	110	
	Chloride	NT	NT	NT	NT	310	262	290	211	297	300	312	282	327	266	329	325	425	401	
	Chromium	0.0024	ND	ND	0.0102	ND	ND	ND	0.0321	ND	ND	ND	ND	ND	ND	ND	ND	0.021	ND	0.0044
	Cobalt	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	0.0235	0.0246	0.025	0.032	0.0271	
	COD	NT	NT	NT	NT	30.8	32.3	30	33.7	21.6	30.4	17.8	26.5	23.1	20.6	29.4	31.3	35.1	31.8	
	Copper	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	0.00578	0.00671	0.0048	ND	0.0037	
	Hardness	NT	NT	NT	NT	540	500	660	524	598	500	508	466	516	456	544	300	660	600	
	Iron	NT	NT	NT	NT	1.61	4.65	1.33	48.4	1.01	1.05	1.07	1.08	1.19	0.929	1.13	0.91	0.82	1.68	
	Lead	0.0079	ND	ND	ND	ND	0.0059	ND	0.0723	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	69.2	64.2	67	55	68.6	69.9	64.8	65.7	70.6	57.4	69.1	76	84	77.6	
	Manganese	NT	NT	NT	NT	5.23	7.39	6.38	13.1	5.83	6.29	6.14	6.82	7.21	6.8	7.37	7.8	8.6	8.92	
	Mercury	0.0014	0.0008	0.0005	0.0009	ND	0.00232	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00028	ND	ND
	Nickel	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	0.0179	0.0225	0.04	0.026	0.024	
	Nitrate	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH	NT	NT	NT	NT	6.01	5.28			5.49	5.59	5.36	6	5.61	5.71	5.94	6.42	5.83	5.97	
	Potassium	NT	NT	NT	NT	5.71	7.17	6.81	13.7	6.83	6.41	6.84	7.39	6.78	6.79	5.83	5.9	6.4	4.64	
	Selenium	0.0067	0.0022	ND	ND	0.0048	ND	0.0062	0.0185	ND	ND	0.00713	ND	ND	ND	0.00542	ND	0.0094	0.0062	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium	NT	NT	NT	NT	107	97.5	101	38.5	99.8	99.4	95.1	99.5	102	83	99.7	95	120	106	
	Spec. Cond.	NT	NT	NT	NT	1444	1363			1227	1405	1499	1552	1481	1274	1510	1276	1873	1580	
	Sulfate	NT	NT	NT	NT	12.6	14.9	18.4	17	15	15.8	15.7	16.6	15.7	20	15.4	12.5	8.49	12.2	
	TDS	NT	NT	NT	NT	1192	1032	1068	908	304	1048	904	830	936	1016	854	908	969	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	884	
Turbidity	Nt	Nt	Nt	Nt	1.97	19.4	3.31	0.83	NT	NT	NS	0	0	4.13	0	0	0	1.7		
Vanadium	ND	ND	ND	ND	ND	ND	ND	0.0919	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	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	0.0222	0.0189	0.022	0.019	0.0169		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB12	Alkalinity	NT	NT	NT	NT	110	100	108	44	106	116	113	119	126	123	138	125	132	122	
	Ammonia	NT	NT	NT	NT	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
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	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	0.0206	0.0215	0.014	0.014	0.0152	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	33.3	39	32.3	34.1	33	38.3	26.5	36.7	33.8	35	36.5	39	39	38.8	
	Chloride	NT	NT	NT	NT	69.9	83.9	65.8	80.1	62.7	76.9	66.4	79	70.5	77.9	77.4	80.7	80	84.6	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	ND	12.1	7.4	6.9	ND	8.1	ND	21	ND	ND	ND	ND	ND	10.8	ND
	Copper	0.009	0.0055	0.007	ND	0.0061	0.0062	0.0068	ND	ND	0.00512	ND	0.0102	ND	ND	ND	ND	ND	ND	ND
	Hardness	NT	NT	NT	NT	165	189	162	182	153	194	160	178	178	200	208	202	182	188	
	Iron	NT	NT	NT	NT	0.368	ND	0.228	ND	ND	ND	ND	0.2	ND	0.208	0.234	ND	ND	0.22	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	19.7	23.4	19.8	27	20.6	24.5	16.1	23.4	20.2	21.4	22.5	25	23	24.4	
	Manganese	NT	NT	NT	NT	0.102	0.131	0.107	0.106	0.108	0.114	0.119	0.105	0.118	0.115	0.129	0.1	0.14	0.103	
	Mercury	0.0015	0.0007	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.00761	0.00919	0.0088	ND	0.0073	
	Nitrate	NT	NT	NT	NT	1.622	2.25	1.377	1.59	1.14	1.26	0.99	1.02	0.87	0.83	0.695	0.74	0.803	0.588	
	pH	NT	NT	NT	NT	5.84	6.14		5.46	5.51	5.29	5.81	5.53	5.56	5.92	5.81	5.8	5.64		
	Potassium	NT	NT	NT	NT	3	3.04	2.32	3.24	2.69	3.26	2.97	3.33	2.88	2.89	2.51	3.1	2.6	2.45	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	24.5	27.8	25.4	27.9	22.8	30	18.2	28.4	21.2	22	25.1	27	25	25.2	
	Spec. Cond.	NT	NT	NT	NT	481.7	511.8		421.1	497.1	417.9	545.7	436.3	469.9	481.6	444.7	484	471.2		
	Sulfate	NT	NT	NT	NT	7.14	14.9	7.13	4.78	5.57	12	4.58	13.4	5.79	14.4	11.6	16	5.91	13.6	
	TDS	NT	NT	NT	NT	308	400	408	120	296	340	312	236	364	308	292	338	229	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	316
Turbidity	NT	NT	NT	NT	2.49	5.15	0.328	0.167	NT	NT	NS	0	1.26	1.36	0.9	0	0.23	0		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	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	0.00842	0.00958	ND	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location OB15	Alkalinity	NT	NT	NT	NT	242	93	230	74	228	51	226	33	151	29	91	33	88	36	
	Ammonia	NT	NT	NT	NT	0.646	0.228	0.29	ND	0.307	ND	0.274	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
	Arsenic	ND	ND	ND	ND	0.0069	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.0011	ND
	Barium	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	0.0635	0.0944	0.051	0.063	0.0656	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND
	Cadmium	NT	NT	NT	NT	0.0042	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	29.5	20.3	18	14.8	21.6	16.5	18.3	12.9	16.8	12	11.6	9.5	10	13.3	
	Chloride	NT	NT	NT	NT	3.16	3.48	7.73	4.61	10	3.95	11.9	4.73	10.8	4.04	10.3	5.96	9.01	7.14	
	Chromium	0.0521	ND	ND	ND	0.019	ND	ND	0.0053	ND	ND	0.0114	ND	ND	ND	0.00956	ND	ND	ND	
	Cobalt	0.0599	0.0095	ND	0.0134	0.0273	0.0099	ND	0.0072	0.00621	ND	0.0165	ND	0.0116	ND	0.0174	ND	0.0092	ND	
	COD	NT	NT	NT	NT	49.3	11.1	11.2	ND	27.3	ND	17.8	ND	ND	ND	11.4	ND	ND	ND	
	Copper	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	0.00693	0.0281	0.0018	ND	ND	
	Hardness	NT	NT	NT	NT	600	270	165	114	156	140	120	94	120	96	102	112	320	92	
	Iron	NT	NT	NT	NT	54.9	16	27.3	9.24	39.4	6.6	47.8	2.85	17.3	1.98	52.5	1.9	24	1.69	
	Lead	0.0409	ND	ND	ND	0.017	ND	ND	ND	ND	ND	0.00794	ND	ND	ND	0.00818	ND	0.0015	ND	
	Magnesium	NT	NT	NT	NT	23.2	24.5	17.4	22	21.6	21.3	17.4	16	17.3	14.5	14.5	15	14	19.5	
	Manganese	NT	NT	NT	NT	5.73	4.5	3.87	1.78	3.27	1.28	2.5	0.163	1.1	0.13	0.639	0.028	0.49	0.0851	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Nickel	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	0.0115	0.0214	0.0061	ND	0.0119	
	Nitrate	NT	NT	NT	NT	ND	ND	0.008	ND	ND	ND	ND	0.292	ND	0.678	ND	1.78	ND	5.185	
	pH	NT	NT	NT	NT	6.01	6.62			6.15	5.5	5.7	5.78	NM	5.4	6.03	6.26	6.04	5.98	
	Potassium	NT	NT	NT	NT	3.15	2.3	2.18	2.29	2.46	2.12	2.32	2.04	2.07	1.84	1.8	1.7	1.9	1.82	
	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	35	14.5	53.3	36.1	59.1	29.2	62.5	26.1	50.6	17.3	30.6	20	34	22	
	Spec. Cond.	NT	NT	NT	NT	576.4	368.7			535.4	323.1	521.8	329	NM	236.8	248.6	202.3	324.7	253.7	
	Sulfate	NT	NT	NT	NT	78.6	78.1	56.5	78.9	49.2	93.2	37.9	92.8	63.3	91.8	69.1	79	64.2	60.6	
	TDS	NT	NT	NT	NT	328	252	324	420	528	272	308	184	244	164	198	192	133	ND	
	Thallium	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	168	
	Turbidity	NT	NT	NT	NT	125	53.8	25.4	96.8	NT	NT	NS	46.8	NM	33	48.1	22.1	31.6	22.9	
	Vanadium	0.0282	ND	ND	ND	0.0052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	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	0.0723	0.183	0.034	0.083	0.0434		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location OB25	Alkalinity	NT	NT	NT	NT	423	416	472	282	267	249	374	268	387	194	287	316	323	307
	Ammonia	NT	NT	NT	NT	1.57	0.771	3.69	0.629	1.91	0.731	2.31	ND	2.94	ND	0.95	ND	0.539	1.81
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0212	ND	ND	ND
	Arsenic	ND	0.0024	ND	ND	0.0037	0.012	ND	ND	ND	ND	ND	ND	ND	ND	0.0263	ND	ND	ND
	Barium	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	0.0539	0.624	0.071	0.07	0.22
	Beryllium	ND	ND	ND	ND	0.0137	0.0057	ND	ND	ND	ND	0.00617	ND	ND	ND	0.116	ND	ND	ND
	Cadmium	NT	NT	NT	NT	0.0174	0.0072	ND	ND	ND	ND	ND	ND	ND	ND	0.115	ND	ND	ND
	Calcium	NT	NT	NT	NT	111	89.9	90.2	92.7	65.1	73.3	89.5	56.2	91.2	39.6	61.9	81	83	86.1
	Chloride	NT	NT	NT	NT	156	183	173	62.3	86.6	73.5	158	59.5	175	34.8	80.2	147	168	195
	Chromium	0.0046	0.0089	ND	ND	0.105	0.141	0.0193	ND	ND	0.0297	0.0174	0.00811	0.0117	0.00604	0.305	0.0082	ND	0.0071
	Cobalt	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	ND	0.336	0.009	0.009	0.0501
	COD	NT	NT	NT	NT	1080	79.4	90	107	19.6	18.6	23.5	21.6	17.2	ND	28.6	20	17.8	19.1
	Copper	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	0.00796	0.337	0.0042	ND	0.0122
	Hardness	NT	NT	NT	NT	740	520	750	450	292	356	500	316	490	238	354	440	460	428
	Iron	NT	NT	NT	NT	239	210	29.9	1.32	5.73	31.7	25.9	4.68	17	3.1	163	0.79	0.5	7.64
	Lead	ND	0.0026	ND	ND	0.148	0.0358	ND	ND	0.0137	0.00771	0.0269	ND	ND	ND	0.122	ND	ND	ND
	Magnesium	NT	NT	NT	NT	82.8	109	71.6	70.2	44.2	57.7	62.4	41.5	69	27	90.3	59	58	62.6
	Manganese	NT	NT	NT	NT	55.8	33.5	24.2	6.86	10.52	7.21	20.7	0.818	18.2	0.21	12.8	14	16	20.3
	Mercury	ND	ND	ND	ND	0.0003	ND	ND	0.00142	ND	0.00129	0.00052	ND	0.00022	ND	0.00023	ND	ND	ND
	Nickel	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	0.00887	0.4	0.022	0.015	0.0334
	Nitrate	NT	NT	NT	NT	0.6782	2.31	ND	1.33	ND	ND	ND	0.606	ND	2.13	0.756	2.22	1.93	0.731
	pH	NT	NT	NT	NT	6.19	5.51			8.7	7	5.98	7.16	6.12	6.86	6.89	6.83	6.23	6.42
	Potassium	NT	NT	NT	NT	17.6	15.9	16.6	7.24	14.3	10.7	16.8	9.22	16.4	6.49	13.2	14	14	14.2
	Selenium	0.0023	ND	ND	ND	0.0364	0.0172	0.0059	ND	ND	0.00523	0.00877	ND	ND	ND	0.0411	ND	ND	0.0054
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0991	ND	ND	ND
	Sodium	NT	NT	NT	NT	84	76.6	88.9	100	54.3	43.9	69	39	83.5	20.4	38.4	66	70	77.9
	Spec. Cond.	NT	NT	NT	NT	1301	1340		NT	627.7	931.1	394.5	807.1	491.2	544	959.8	356.3	1075	
	Sulfate	NT	NT	NT	NT	71.8	75.3	67	32.1	39.7	44.1	61.8	39.6	65	32.6	37.2	47.5	47.2	51.4
	TDS	NT	NT	NT	NT	888	916	916	532	252	568	756	454	838	324	516	666	593	ND
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0778	ND	ND	694
Turbidity	NT	NT	NT	NT	10100	3870	357	15050	NT	NT	NS		51	153	65	37.6	14.4	14	45.7
Vanadium	ND	0.0087	ND	ND	0.156	0.129	0.0141	ND	0.00768	0.0236	0.0452	0.00766	0.00998	ND	0.261	ND	ND	0.0051	
Zinc	NT	NT	NT	NT	3.95	1.09	0.109	0.0216	0.0256	0.112	0.13	0.0196	0.04	0.015	0.962	0.0085	0.0096	0.0415	

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Metals and Other Water Quality Parameters - Long Term Summary

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location ST15	Alkalinity	NT	NT	NT	NT	80	115	79	98	31	99	38	68	29	180	52	154	NT	136	
	Ammonia	NT	NT	NT	NT	ND	0.239	ND	ND	ND	ND	ND	ND	ND	0.895	ND	0.233	NT	ND	
	Antimony	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Arsenic	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Barium	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	0.0888	0.0288	0.063	NT	0.0948	
	Beryllium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Calcium	NT	NT	NT	NT	33.4	36.7	32.5	27.4	10.3	31.2	14.4	31.1	11.4	61.7	20.1	70	NT	60.3	
	Chloride	NT	NT	NT	NT	58.2	102	67.7	38.1	5.32	157	13.1	75.3	10.2	1090	30.7	806	NT	397	
	Chromium	ND	ND	NT	0.0041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Cobalt	ND	ND	NT	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	COD	NT	NT	NT	NT	ND	7.2	6.7	24.8	14.1	22.8	14.5	ND	ND	36.2	ND	35.5	NT	17.6	
	Copper	0.0076	0.005	NT	0.0139	0.0058	0.0085	0.0077	0.0062	ND	0.00811	ND	0.00576	ND	0.00886	ND	0.0062	NT	0.0056	
	Hardness	NT	NT	NT	NT	160	180	160	95	29	122	48	124	36	252	74	246	NT	244	
	Iron	NT	NT	NT	NT	0.372	0.814	0.701	0.863	ND	0.846	0.68	0.454	0.345	ND	0.62	0.44	NT	0.825	
	Lead	ND	ND	NT	0.0032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Magnesium	NT	NT	NT	NT	13.7	17.6	15	8.5	2.23	12	3.73	16	3.01	20.3	5.93	19	NT	26.2	
	Manganese	NT	NT	NT	NT	0.101	0.294	0.19	0.109	0.0434	0.245	0.0766	0.155	0.0382	0.329	0.201	0.25	NT	0.482	
	Mercury	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Nickel	0.0069	0.0097	NT	0.0172	0.0083	0.0104	0.0078	0.0052	ND	0.00661	ND	0.00894	ND	0.0119	ND	0.013	NT	0.0129	
	Nitrate	NT	NT	NT	NT	1.465	1.3279	1.3876	0.401	ND	0.799	ND	1.66	ND	1.6949	ND	1.14	NT	0.5244	
	pH	NT	NT	NT	NT	7.39	7.19		7.34	7.55	6.19	6.46	6.83	6.64	6.61	8.01	NT	6.83		
	Potassium	NT	NT	NT	NT	2.59	3.08	2.58	3.48	2.15	4.16	1.48	2.11	1.14	6.83	1.63	7.7	NT	4.78	
	Selenium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Silver	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	Sodium	NT	NT	NT	NT	24.5	59	24.8	28	4.33	108	7.36	29.1	7.17	607	12.3	450	NT	233	
	Spec. Cond.	NT	NT	NT	NT	386.7	538.8		82.1	703.9	118.1	526.3	93.3	3441	200	2406	NT	1331		
	Sulfate	NT	NT	NT	NT	20.7	15.6	25.5	7.19	4.42	8.46	ND	12.6	ND	25.3	4.59	20.9	NT	19.6	
	TDS	NT	NT	NT	NT	280	368	404	204	1276	392	100	222	6	2028	134	1468	NT	ND	
	Thallium	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	823
	Turbidity	NT	NT	NT	NT	3.04	5.24	6.06	25.6	NT	NT	NS	NS	6.2	16.4	NT	15.9	NT	3.9	
Vanadium	ND	ND	NT	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
Zinc	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	0.0167	0.00583	0.019	NT	0.0104		

NT: Not Tested

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Note: Benchmark exceedances are indicated in Red

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location ST120	Alkalinity	NT	NT	NT	NT	64	74	70	60	49	52	72	56	57	64	60	56	68	62	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.244	ND	
	Antimony	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
	Barium	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	0.0927	0.0514	0.047	0.053	0.0667	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	25.7	34	31.6	23.1	33.4	23.3	24.9	29.6	27.4	46.1	27.6	28	39	48.3	
	Chloride	NT	NT	NT	NT	197	93.2	102	50.1	110	47	335	67.8	928	77.4	332	117	217		
	Chromium	ND	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	ND
	COD	NT	NT	NT	NT	7	11.1	15.1	11.9	9.7	ND	25.8	ND	14.3	22.8	ND	ND	ND	ND	ND
	Copper	0.0066	0.0094	0.0089	0.0152	0.0056	0.0105	0.0068	0.0052	0.00623	0.00914	ND	0.0151	ND	0.00839	ND	0.0031	ND	ND	
	Hardness	NT	NT	NT	NT	340	150	180	113	73	98	100	130	120	208	130	138	174	160	
	Iron	NT	NT	NT	NT	0.525	1	0.705	0.661	0.75	0.474	0.704	0.639	0.579	0.876	1.03	0.47	0.32	0.602	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	0.00528	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	12.3	19.1	16.3	14.2	12.6	11.5	14.2	14.8	12.9	22.5	13.2	13	21	23.5	
	Manganese	NT	NT	NT	NT	0.0634	0.238	0.0817	0.126	0.051	0.0853	0.117	0.0907	0.0795	0.128	0.155	0.14	0.13	0.126	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0146	0.00553	ND	ND	0.0108	
	Nitrate	NT	NT	NT	NT	1.029	1.2126	0.792	0.787	0.581	1.33	1.3	1.2	0.812	1.38	0.539	1.61	1.2	1.42	
	pH	NT	NT	NT	NT	7.41	5.96		6.98	7.38	6.68	7.35	7.4	7.34	6.62	7.64	6.8	7.39		
	Potassium	NT	NT	NT	NT	1.88	3	3.02	2.51	3.08	2.25	2.2	3.01	2.67	6.08	2.77	2.8	3	2.38	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	27.5	170	34	53.7	34.5	65.1	15.3	181	19.8	561	24.5	210	34	99.4	
	Spec. Cond.	NT	NT	NT	NT	370.8	1116		236.6	489.4	303.4	1297	340	2780	377.9	1092	519.6	755.1		
	Sulfate	NT	NT	NT	NT	7.6	17.2	13.5	7.5	6.45	7.76	5.56	7.85	8.37	24.8	8.87	14	10.2	13.1	
	TDS	NT	NT	NT	NT	244	720	376	372	208	284	228	660	272	1676	268	740	307	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	434
Turbidity	NT	NT	NT	NT	2.12	8.2	2.4	3.86	NT	NT	NS	5	9.8	NT	5.8	NT	1.8			
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	NT	NT	NT	NT	ND	0.0124	ND	0.00891	0.00844	0.0106	ND	0.00746	0.00635	0.0157	0.00582	0.0084	ND	0.0086		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location ST65	Alkalinity	NT	NT	NT	NT	70	235	88	243	203	237	98	253	112	74	174	65	NT	68	
	Ammonia	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Barium	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	0.0685	0.227	0.039	NT	0.0541	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Calcium	NT	NT	NT	NT	18.1	40	34.3	33.9	34.2	30.6	34.3	34.6	40	37.6	23.5	23	NT	33.3	
	Chloride	NT	NT	NT	NT	51.7	85.7	98.4	99.6	154	136	91.5	171	68.4	586	89.2	273	NT	192	
	Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0226	ND	NT	ND	
	Cobalt	ND	ND	ND	ND	0.0137	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0387	ND	NT	ND	
	COD	NT	NT	NT	NT	34.8	34.7	7.7	35.1	39.2	32.6	10.5	60.7	ND	18.6	110	10	NT	ND	
	Copper	0.0069	0.0075	0.0069	0.0058	0.008	0.0097	0.0066	0.0067	0.00767	0.00768	ND	0.0168	ND	0.00551	0.0267	0.0035	NT	0.0023	
	Hardness	NT	NT	NT	NT	100	222	170	180	174	178	150	196	170	158	120	NT	156		
	Iron	NT	NT	NT	NT	10.1	0.529	0.286	0.657	0.613	0.507	0.548	0.39	0.294	0.491	17.8	0.57	NT	0.53	
	Lead	ND	ND	ND	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0244	ND	NT	ND
	Magnesium	NT	NT	NT	NT	10.6	30.7	18.4	26.9	23.7	29	17.4	28.3	19	20.1	19.5	12	NT	18.6	
	Manganese	NT	NT	NT	NT	2.37	0.0486	0.0179	0.143	0.25	0.0864	0.0182	0.0287	0.0705	0.154	5.11	0.12	NT	0.139	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Nickel	0.0037	0.0058	ND	0.0028	0.008	0.0102	ND	0.0095	0.0103	0.00895	ND	0.00913	ND	0.00902	0.0307	0.0085	NT	0.0069	
	Nitrate	NT	NT	NT	NT	ND	0.7773	1.117	0.392	ND	0.621	0.654	ND	1.16	1.37	1.0775	1.15	NT	1.3	
	pH	NT	NT	NT	NT	6.7	6.31			7.07	7.56	6.96	6.42	7.48	7.88	8.07	7.53	NT	7.69	
	Potassium	NT	NT	NT	NT	2.92	14.3	4	14.8	14.9	13.8	4.68	17	4.53	5.1	15.2	3.3	NT	2.59	
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	0.0082	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	
	Sodium	NT	NT	NT	NT	25.7	110	37	121	115	136	26.3	136	27.5	345	75.9	150	NT	83.5	
	Spec. Cond.	NT	NT	NT	NT	302.3	884.2			795.9	872.7	471.5	1037	466.9	1916	563	813.1	NT	694.3	
	Sulfate	NT	NT	NT	NT	5.32	42.1	10.8	26.6	32.8	25.4	10.4	26.3	29.2	19.8	10.7	13.5	NT	14	
	TDS	NT	NT	NT	NT	196	500	500	524	588	532	360	562	352	1038	370	470	NT	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	473	
Turbidity	NT	NT	NT	NT	90.3	5.03	0.696	8.26	NT	NT	NS	NS	0	NR	NT	7.5	NT	1		
Vanadium	ND	ND	ND	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0281	ND	NT	ND		
Zinc	0.0032	ND	ND	0.0058	0.0165	0.0053	ND	0.00604	0.00665	0.00539	ND	0.00538	ND	0.00897	0.0863	0.0098	NT	0.0042		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location ST70	Alkalinity	NT	NT	NT	NT	109	106	115	105	81	128	79	108	92	105	82	121	120	106	
	Ammonia	NT	NT	NT	NT	ND	0.497	ND	0.477	ND	0.383	ND	0.555	ND	0.612	ND	0.393	ND	ND	
	Antimony	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	0.0011	ND
	Barium	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	0.0934	0.082	0.061	0.064	0.0681	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	38.2	37.9	42.8	32.5	27.4	56.8	31.7	49.3	39.8	44.1	37.7	46	54	43	
	Chloride	NT	NT	NT	NT	85.8	68.8	97.6	79.8	50.6	122	49.5	145	62.6	674	76	229	148	170	
	Chromium	0.0194	0.0033	ND	0.0422	ND	ND	ND	ND	ND	ND	0.0234	ND	0.0253	0.0229	ND	0.0113	ND	ND	ND
	Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD	NT	NT	NT	NT	ND	14.1	10	18.5	15.3	17.2	19.5	ND	22.4	15.3	14.5	ND	ND	17.4	
	Copper	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	0.00726	0.00569	0.0033	ND	0.0035	
	Hardness	NT	NT	NT	NT	170	150	170	128	110	188	124	180	140	192	148	200	224	184	
	Iron	NT	NT	NT	NT	0.421	0.98	0.357	1.04	0.555	1.36	0.466	0.77	0.486	0.706	0.498	0.39	0.093	0.758	
	Lead	0.0039	ND	ND	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	16.3	15.9	17.8	13.6	8.98	16.5	11.7	18.9	11.8	19	10.9	21	24	19.3	
	Manganese	NT	NT	NT	NT	0.154	0.274	0.147	0.185	0.0928	0.436	0.0764	0.276	0.0973	0.344	0.0795	0.32	0.15	0.272	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	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	0.0103	ND	0.011	ND	0.0079	
	Nitrate	NT	NT	NT	NT	1.8591	1.124	1.4818	0.831	0.774	1.489	0.878	2.071	0.523	1.481	0.869	1.35	1.17	1.36	
	pH	NT	NT	NT	NT	7.54	6.61		7.05	8.51	6.53	6.52	7.45	7.41	9.41	7.72	7.46	7.24		
	Potassium	NT	NT	NT	NT	4.3	4.4	6.84	4.15	4.52	13.1	5.33	14.3	13.5	14.3	12.3	5.5	5.2	3.83	
	Selenium	ND	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	ND
	Sodium	NT	NT	NT	NT	34.2	69.8	40.1	45.6	20.4	77.1	22.1	70.3	25.9	384	30.7	130	50	71.6	
	Spec. Cond.	NT	NT	NT	NT	520.6	625.1		291.6	691	315.7	739	424.7	2485	447.1	862.9	692.1	686.3		
	Sulfate	NT	NT	NT	NT	20.8	18.4	25.2	12.8	11.6	41.4	27.4	29.7	28.7	24.1	28.1	20.4	22.7	18.6	
	TDS	NT	NT	NT	NT	352	392	524	312	256	448	256	380	308	1286	276	574	397	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	407
Turbidity	NT	NT	NT	NT	1.96	9.24	0.753	10.7	NT	NT	NS	155	0.6	3	1.8	NT	0.2			
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0187	0.016	ND	0.0342	ND	0.0166	0.00661	0.0145	0.0121	0.0143	0.0111	0.0136	0.0215	0.0257	0.0101	0.014	0.0054	0.0107		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location ST80	Alkalinity	NT	NT	NT	NT	48	110	44	32	42	34	54	34	569	31	41	33	60	34	
	Ammonia	NT	NT	NT	NT	ND	0.456	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
	Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	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	0.0505	0.037	0.043	0.04	0.0407	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	NT	NT	NT	NT	16.2	37.9	12.5	11.8	11.9	14.2	18.6	16.5	17.5	16.4	15.8	14	24	16.4	
	Chloride	NT	NT	NT	NT	32.6	92.3	28.6	27.1	29.4	45.8	38.1	107	43	207	40.9	177	70.6	111	
	Chromium	0.0021	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	ND
	COD	NT	NT	NT	NT	ND	12.5	17	14.6	12.5	10.3	10.8	ND	14.4	ND	20.5	12.9	ND	ND	
	Copper	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	ND	ND	0.0026	ND	ND	
	Hardness	NT	NT	NT	NT	70	152	68	46	55	58	86	66	76	84	76	82	106	80	
	Iron	NT	NT	NT	NT	0.32	0.821	0.863	1.44	0.52	0.741	1.17	0.759	0.55	0.464	0.852	1	0.39	0.338	
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	NT	NT	NT	NT	7.41	15.4	6.23	5.73	5.47	7.92	11.2	8.71	10.5	9.32	7.83	7.3	13	9.04	
	Manganese	NT	NT	NT	NT	0.126	0.174	0.155	0.149	0.0565	0.0786	0.184	0.115	0.0977	0.107	0.149	0.13	0.17	0.0959	
	Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0043	0.0036	ND	0.0035	0.0042	0.0108	ND	0.0055	ND	ND	ND	ND	0.00542	0.00506	ND	0.0058	ND	0.0025	
	Nitrate	NT	NT	NT	NT	0.8957	1.1925	0.35	0.856	0.423	1.68	0.679	1.52	0.309	1.79	0.534	1.27	0.796	1.56	
	pH	NT	NT	NT	NT	7.65	7.37			7	8.08	6.94	7.11	7.65	7.64	7.6	7.62	6.93	8.03	
	Potassium	NT	NT	NT	NT	3.08	4.64	2.68	2.16	3.82	2.57	3.8	2.69	3.86	2.53	2.6	3	3.2	2.04	
	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	17.4	69	14	14.6	12.1	28.2	16.4	64.6	17.2	110	14.9	92	24	49.1	
	Spec. Cond.	NT	NT	NT	NT	216.2	616.7			162.9	234.2	255	466.6	231.3	685.1	211.2	541.2	333.5	393	
	Sulfate	NT	NT	NT	NT	8.16	17.3	5.53	6.57	6.04	5.77	5.55	8.53	6.35	10	5.89	8.62	7.55	8.65	
	TDS	NT	NT	NT	NT	144	380	168	144	160	168	160	246	180	396	168	362	172	ND	
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	236
	Turbidity	NT	NT	NT	NT	1.85	7.23	7.86	91.8	NT	NT	NS	1000+	4	8.8	NT	24	NT	2.3	
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	0.0085	0.0066	ND	0.0078	ND	0.0119	ND	0.00952	0.00561	0.00612	ND	0.00635	0.0128	0.00834	0.00786	0.0073	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location MW1B	Alkalinity							48	49	49	58	52	49	49	47	43	45	46	44	
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.0057	0.0081	0.0089	0.00843	0.0338	0.00611	0.00851	0.00701	0.00849	ND	ND	ND	ND
	Beryllium							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
	Calcium							6.83	8.18	6.92	8.77	10.4	9.07	8.27	7.81	7.68	6	5.9	6.14	
	Chloride							ND	ND	ND	2.75	3.33	3.24	3.27	3.96	2.6	3.66	ND	ND	
	Chromium							0.0055	ND	0.00501	0.00854	0.233	0.00515	0.00711	ND	ND	ND	ND	ND	
	Cobalt							ND	ND	ND	ND	0.0205	ND	ND	ND	ND	ND	ND	ND	ND
	COD							ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0086	ND	0.00799	0.0104	0.0802	0.0159	0.00568	ND	0.00531	0.0025	ND	ND	
	Hardness							30	36	33	60	80	36	40	50	42	40	42	32	
	Iron							1.22	0.651	1.56	2.22	17.6	1.34	0.623	0.289	0.992	0.85	0.42	ND	
	Lead							ND	ND	0.00552	ND	0.0117	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							3.72	4.58	4.34	5.74	11.6	5.42	4.56	4.63	4.36	4.1	3.7	3.54	
	Manganese							0.038	0.0495	0.0441	0.0541	0.516	0.0436	0.0189	0.0186	0.0279	0.022	0.0081	ND	
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0055	ND	0.00538	0.00801	0.271	0.00529	0.00698	ND	0.00505	ND	ND	ND	ND
	Nitrate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH									5.73	6.12	5.6	6.21	6.1	6.12	6.35	6.52	5.96	6.07	
	Potassium							1.25	1.15	1.47	1.36	3.47	1.53	1.06	1.06	1.14	1	1.1	0.895	
	Selenium							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
	Sodium							10.2	8.37	6.78	8.88	8.62	12.8	7.4	8.04	7.31	7.2	7.5	6.74	
	Spec. Cond.									76.3	97.9	96.9	113.1	95.5	86	78.3	70.9	80.3	44	
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TDS							440	92	80	92	92	136	90	67	70	98	ND	ND		
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	172	
Turbidity							28.2	39.4	NT	NT	NS	47.7	33.9	12.3	37.5	1.2	2.9	2.2		
Vanadium							ND	ND	ND	ND	0.022	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							0.0102	0.00685	0.0145	0.0179	0.109	0.012	0.00722	0.00628	0.0143	0.0068	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW2A	Alkalinity							30	40	35	46	54	NS	56	49	28	30	<u>34</u>	39
	Ammonia							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Antimony							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Arsenic							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>0.0014</u>	ND
	Barium							0.0155	0.0299	0.0206	0.0209	0.0181	NS	0.0172	0.0247	0.142	0.012	<u>0.027</u>	0.0112
	Beryllium							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Cadmium							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Calcium							4.89	7.78	8.86	10.5	11.1	NS	13.2	10.2	6.29	4.6	<u>5.7</u>	6.29
	Chloride							ND	2.74	2.69	2.65	2.63	NS	5.76	3.39	3.73	2.69	<u>3.46</u>	4.77
	Chromium							0.0084	0.0085	ND	0.0404	0.022	NS	ND	0.0184	0.0355	ND	<u>0.27</u>	ND
	Cobalt							ND	ND	ND	0.014	ND	NS	0.00517	ND	0.0174	ND	<u>0.016</u>	ND
	COD							ND	7.5	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Copper							0.008	0.0118	0.00689	0.028	0.0163	NS	0.0106	0.0543	0.0411	ND	<u>0.037</u>	ND
	Hardness							19	25	22	32	32	NS	48	46	30	34	<u>130</u>	100
	Iron							1.38	3.14	0.68	1.27	0.725	NS	1.46	2.2	17.3	0.059	<u>6.2</u>	ND
	Lead							ND	0.0055	ND	ND	ND	NS	ND	ND	0.0221	ND	<u>0.0053</u>	ND
	Magnesium							2.15	3.75	3.25	3.59	4.81	NS	5.72	4.58	6.91	2.8	<u>3.7</u>	2.68
	Manganese							0.12	0.173	0.204	0.148	0.151	NS	0.602	0.42	0.595	0.17	<u>0.3</u>	0.0553
	Mercury							ND	ND	ND	0.00059	0.00076	NS	0.00029	0.001	0.00072	ND	<u>0.00043</u>	ND
	Nickel							0.0102	0.0092	0.00547	0.032	0.0301	NS	0.0278	0.0165	0.0244	ND	<u>0.22</u>	0.0021
	Nitrate							ND	ND	ND	ND	ND	NS	ND	ND	0.2	ND	<u>ND</u>	ND
	pH									5.14	6.08	5.96	NS	5.31	NT	6.56	5.72	<u>5.17</u>	5.43
	Potassium							1.94	2.32	1.8	2.12	2.14	NS	2.27	2.12	5.83	1.4	<u>2.6</u>	1.21
	Selenium							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
	Silver							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>0.0023</u>	ND
	Sodium							7.15	7.07	6.09	10.4	8.38	NS	9.54	7.47	5.02	4.2	<u>4.8</u>	5.56
	Spec. Cond.									73.1	118.1	89.6	NS	104.3	NT	55.7	54.2	<u>62.5</u>	86.4
	Sulfate							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	ND
TDS							465	112	108	84	100	NS	4	70	84	72	<u>ND</u>	ND	
Thallium							ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	<u>ND</u>	215	
Turbidity							58.9	117.6	NT	NT	NS	NS	11.3	NT		2.7	<u>65.5</u>	0.9	
Vanadium							ND	ND	ND	ND	ND	NS	ND	ND	0.0192	ND	<u>0.0052</u>	ND	
Zinc							0.0114	0.0229	0.0187	0.0369	0.0247	NS	0.0322	NT	0.0856	ND	<u>0.036</u>	0.0045	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW2B	Alkalinity							29	37	33	40	36	41	34	37	23	31	28	42
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.0113	0.0095	0.0123	0.00636	0.00799	0.00706	0.00696	0.00712	0.0192	0.012	0.013	0.0112
	Beryllium							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
	Calcium							4.92	8.72	7.2	9.89	11.7	10.7	10.1	11	5.48	5.7	4.9	6.78
	Chloride							ND	ND	ND	ND	2.55	ND	ND	2.58	4.06	3.18	ND	ND
	Chromium							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
	COD							ND	ND	ND	ND	ND	12.6	ND	ND	ND	ND	ND	ND
	Copper							0.0054	ND	ND	0.00608	ND	ND	ND	ND	ND	ND	ND	ND
	Hardness							18	24	35	30	34	34	30	56	28	34	30	62
	Iron							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	0.064	ND
	Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							1.94	2.84	2.85	2.44	3.04	2.58	2.56	2.74	3.14	3	2.7	3.38
	Manganese							0.0868	0.063	0.044	0.0393	0.0302	0.0342	0.023	0.0211	0.0629	0.052	0.03	0.0418
	Mercury							ND	ND	ND	ND	0.00058	ND	ND	ND	ND	ND	ND	ND
	Nickel							ND	ND	ND	0.00523	0.00624	ND	ND	ND	ND	ND	ND	ND
	Nitrate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH									5	5.39	5.49	5.61	5.13	5.31	5.22	5.7	5.22	5.67
	Potassium							1.36	1.58	1.39	1.66	1.74	1.83	1.47	1.59	1.47	1.4	1.5	1.52
	Selenium							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
	Sodium							6.99	5.22	4.88	8.64	4.89	4.66	4.17	4.62	4.25	4.8	4.3	6.5
	Spec. Cond.									54.9	76	78.6	94.8	74	78.2	55.1	29.4	64.1	84
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TDS							648	56	44	92	84	4	72	66	1164	80	21	ND
	Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity							2.43	1.29	NT	NT	NS	0.57	0	0.9	0.7	0.4	0.69	0	
Vanadium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							0.00606	0.008	0.00794	0.00753	0.00694	0.00721	0.00981	0.00716	0.0113	ND	ND	0.0037	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW3A	Alkalinity							40	24	21	24	21	17.2	16	17	13.5	17	18	15.2
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.144	0.0519	0.111	0.223	0.113	0.0487	0.0332	0.0367	0.058	ND	0.01	ND
	Beryllium							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
	Calcium							6.89	6.1	11.1	17.2	10.1	7.11	5.41	4.52	5.5	3.1	3	2.48
	Chloride							ND	2.94	2.89	5.28	2.76	2.6	ND	2.91	3.1	ND	ND	ND
	Chromium							0.053	0.0067	0.00753	0.0815	0.05	0.0277	0.0133	0.0121	0.0206	ND	ND	ND
	Cobalt							0.041	0.0108	0.0188	0.0397	0.0267	0.00937	0.00514	0.00563	0.0108	ND	ND	ND
	COD							ND	ND	ND	6.3	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.118	0.018	0.0273	0.122	0.0773	0.0332	0.0196	0.0288	0.028	0.0028	ND	ND
	Hardness							130	14	22	50	44	34	16	78	38	30	20	16
	Iron							61.7	5.99	6.67	86.1	44.4	17	11.7	10.1	15.8	2.2	2.3	ND
	Lead							0.0259	0.0089	0.023	0.0435	0.02	0.0088	ND	0.0052	0.00963	ND	0.001	ND
	Magnesium							20.9	3.68	7.04	28.1	15.6	6.68	5.37	5.74	6.12	1.8	1.9	1.1
	Manganese							1.08	0.343	0.629	1.17	0.715	0.24	0.141	0.172	0.416	0.059	0.079	ND
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0816	0.0067	0.00978	0.0752	0.0544	0.0224	0.0128	0.0126	0.0202	ND	ND	ND
	Nitrate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH								5.55	5.85	5.86	5.99	5.49	5.4	6.13	5.98	5.51	6.02	
	Potassium							13	1.98	2.86	15	9.8	3.99	3.03	2.77	3.56	1.3	1.4	0.765
	Selenium							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
	Sodium							7.66	4.12	4.19	4.33	3.88	4.1	3.81	4.24	3.28	3.3	3.4	2.93
	Spec. Cond.								36.1	41.4	39	43.7	37.1	30.3	33.1	33.4	36	35	
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TDS							100	60	144	112	60	16	126	10	74	74	ND	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Turbidity							1535	151.5	NT	NT	NS	982	982	1000+	1.8	38	11.1	0	
Vanadium							0.0529	0.01	0.0124	0.1	0.058	0.022	0.0134	0.0132	0.0212	ND	ND	ND	
Zinc							0.227	0.0275	0.0459	0.235	0.159	0.06	0.0372	0.041	0.0639	0.0078	0.0084	ND	

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Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW3B	Alkalinity							160	110	80	111	137	118	123	112	105	94	81	86
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.0943	0.237	0.175	0.0994	0.13	0.0643	0.12	0.0491	0.0808	ND	0.03	0.0135
	Beryllium							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
	Calcium							10.7	63	57.4	42.3	61.8	44.4	54.5	34.3	33.3	26	23	24.5
	Chloride							ND	4.59	2.57	3.49	3.46	2.76	3.05	2.63	ND	ND	2.58	2.53
	Chromium							0.0246	0.018	0.0129	0.0409	0.184	0.0478	0.124	0.053	0.0655	ND	ND	ND
	Cobalt							ND	0.027	0.00643	0.012	0.0243	0.00927	0.0157	0.00581	0.0113	ND	ND	ND
	COD							ND	22.4	7.6	6.7	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0125	0.0533	0.0184	0.0403	0.105	0.0308	0.054	0.0258	0.0467	ND	ND	ND
	Hardness							100	66	45	114	188	132	162	130	118	100	66	78
	Iron							1.33	9.62	3.89	19.4	19.15	8.89	24.9	5.68	11.4	0.24	0.13	0.255
	Lead							ND	0.041	0.011	0.0138	0.0163	0.00869	0.0171	0.00773	0.0134	ND	ND	ND
	Magnesium							0.715	10.6	5.36	11.7	11.3	7.41	12	6.81	7.09	3.6	2.8	3.95
	Manganese							0.0395	1.26	0.276	0.371	0.584	0.33	0.465	0.221	0.385	0.011	0.015	0.0115
	Mercury							ND	ND	ND	ND	ND	ND	0.00031	ND	ND	ND	ND	ND
	Nickel							0.0266	0.031	0.0103	0.0363	0.278	0.0425	0.114	0.0605	0.0648	ND	ND	ND
	Nitrate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH									10.2	8.47	7.33	8.03	7.59	7.11	7.32	7.49	7	7.42
	Potassium							26	9.54	9.11	7.83	7.26	4.18	6.49	3.19	3.55	1.5	1.3	1.67
	Selenium							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
	Sodium							56.7	107	41	48.6	51.1	36	30.1	19.4	17	12	9.1	11.4
	Spec. Cond.									279.6	223.9	329.1	161.1	221.9	214	146.9	184.6	184	191.6
	Sulfate							13.5	165	36.9	65.7	94.4	52.6	43.2	29.4	23.6	11.6	5.74	10.8
TDS							332	472	188	268	292	158	242	228	256	142	63	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Turbidity							42	2130	NT	NT	NS	11.3	22.7	30.1	4.4	3.44	5.2		
Vanadium							0.0047	0.0279	0.0098	0.022	0.0216	0.0112	0.0233	0.00683	0.0136	ND	ND	ND	
Zinc							0.0123	0.108	0.0359	0.0724	0.0988	0.0429	0.0801	0.03	0.0612	ND	ND	ND	

**New Monitoring Wells Installed In
2010**

NT: Not Tested

NS: Not Sampled

ND: Not Detected

Note: Benchmark exceedances are indicated in Red

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW04	Alkalinity							70	60	52	56	51	55	55	55	51	50	60	54
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.228	0.0431	0.0409	0.0721	0.0383	0.0383	0.0417	0.0417	0.042	0.034	0.032	0.041
	Beryllium							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
	Calcium							34.4	35.5	34.5	40.4	33.4	39.6	35.1	35.1	35	40	39	43.8
	Chloride							106	138	120	145	125	141	128	128	139	143	152	154
	Chromium							0.0261	ND	ND	0.00761	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt							0.0264	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD							ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.037	ND	ND	0.0145	ND	0.0133	ND	ND	ND	ND	ND	ND
	Hardness							183	200	163	188	162	186	170	170	194	212	194	184
	Iron							37.6	1.21	1.06	7.69	0.889	0.97	0.786	0.786	1.02	0.7	0.22	0.726
	Lead							0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							30.9	25.8	22.9	25.5	19.6	22.6	23.2	23.2	21.1	25	25	25.3
	Manganese							2.87	0.138	0.104	0.549	0.115	0.175	0.142	0.142	0.123	0.091	0.18	0.0726
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0758	0.0108	0.00554	0.0157	0.00948	0.0108	0.00928	0.00928	0.00764	ND	ND	ND
	Nitrate							0.3756	0.378	0.406	0.47	0.444	0.465	0.489	0.489	0.566	0.621	0.507	0.651
	pH								5.7	5.96	5.5	6.11	6.05	6.05	6.05	6.24	5.96	5.92	5.99
	Potassium							12.2	3.56	2.76	4.51	3.01	3.47	2.53	2.53	2.79	3	2.9	3.44
	Selenium							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
	Sodium							29.4	30.2	29.4	29.7	24.9	30.9	29.6	29.6	28.3	30	35	33.3
	Spec. Cond.									421.5	587.4	501.7	620.9	485.6	485.6	498.8	487.3	574.2	524.6
	Sulfate							ND	ND	ND	ND	ND	4.26	4.01	4.01	4.73	5.37	5.12	5.32
TDS							552	552	520	528	428	310	442	442	370	442	320	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Turbidity							880	13.2	NT	NT	NS	59.7	45.2	45.2	87	13.3	0	14.1	
Vanadium							0.0213	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							0.138	0.00782	0.00755	0.0313	0.00689	0.00903	0.00733	0.00733	0.0108	0.0056	ND	0.0065	

NT: Not Tested

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Note: Benchmark exceedances are indicated in Red

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW06	Alkalinity							260	264	214	238	197	216	183	208	201	201	197	247
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND
	Barium							0.675	0.303	0.319	0.365	0.433	0.259	0.301	0.3	0.393	0.31	0.32	0.332
	Beryllium							0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium							0.0082	ND	0.00656	0.00618	0.00888	ND	ND	ND	ND	ND	ND	0.0023
	Calcium							62.6	73.9	70.3	78.7	72.8	76.3	79.8	80.1	90.2	83	84	95.9
	Chloride							222	200	226	243	255	258	304	282	411	372	409	407
	Chromium							0.0533	ND	ND	0.00728	0.0229	0.00506	0.00639	0.0118	ND	0.57	0.53	ND
	Cobalt							0.33	0.322	0.216	0.374	0.343	0.388	0.263	0.281	0.466	0.59	0.46	0.554
	COD							ND	17.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.143	0.0157	0.0106	0.0243	0.0414	0.0133	0.0149	0.0157	0.00913	0.017	0.011	0.0033
	Hardness							430	1720	430	470	452	472	500	500	632	104	800	710
	Iron							69.4	2.9	0.897	4.76	17.9	3.47	7.65	8.65	2.39	8.3	3.3	27.3
	Lead							0.0519	0.0101	0.011	0.0137	0.00953	ND	0.00541	0.00552	ND	ND	ND	ND
	Magnesium							57.9	54.9	53.5	56.3	53.1	54.9	56.7	56.3	65	60	59	71.5
	Manganese							38.9	54	37.63	44.4	37.6	48	40	44.7	54.3	48	50	58.1
	Mercury							ND	0.00035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.154	0.0339	0.032	0.0429	0.0634	0.0463	0.0379	0.0409	0.0532	0.57	0.56	0.0511
	Nitrate							0.0757	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pH									5.58	5.86	5.44	6.17	5.62	6.09	5.85	6.55	6.01	6.27
	Potassium							4.92	2.94	3.71	3.63	4.19	3.77	4	3.35	3.97	3.5	3.9	3.29
	Selenium							0.0429	0.0113	0.00983	0.00963	0.0151	0.00839	0.0133	0.00843	0.00837	ND	ND	0.0057
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium							56.2	63.1	61.2	70.9	59.6	65.3	66	64.3	89.8	76	95	101
	Spec. Cond.									984.9	1228	1211	1352	1248	1214	1557	1320	1004	1730
	Sulfate							54.1	58.7	45.2	43.4	47.4	48	50	62.1	70.6	77.2	70.7	70.1
TDS							1080	868	1036	976	776	644	878	718	96	926	1022	ND	
Thallium							ND	ND	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	978	
Turbidity							5300	1540	NT	NT	NS	270	2651	589	129.6	11.2	6.4	2.2	
Vanadium							0.0531	ND	ND	0.0054	0.0149	ND	ND	0.00508	ND	ND	ND	ND	
Zinc							0.5	0.0516	0.0487	0.0616	0.136	0.0515	0.0561	0.0627	0.0456	0.048	0.045	0.0253	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location MW07	Alkalinity							90	42	69	42	31	68	48	139	259	62	128	254	
	Ammonia							ND	ND	ND	ND	ND	ND	ND	0.265	0.377	ND	ND	ND	
	Antimony							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
	Barium							0.0666	0.0674	0.0636	0.058	0.0631	0.0635	0.0732	0.0659	0.102	0.058	0.069	0.103	
	Beryllium							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
	Calcium							46.7	46.5	55.2	41.7	44.5	48.9	45.4	55.6	81.6	40	57	98	
	Chloride							131	119	117	70.3	108	118	117	123	166	124	128	194	
	Chromium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt							0.0066	ND	ND	0.0065	0.00727	ND	ND	0.01	0.0103	ND	0.0094	0.0136	
	COD							12.6	15	15.1	14.6	ND	21.2	ND	23.7	35.8	ND	25.2	34.4	
	Copper							0.016	0.01	0.0084	0.0115	0.013	0.0172	0.011	0.0111	0.0148	0.0068	0.0096	0.0121	
	Hardness							650	219	241	198	216	238	212	294	418	210	266	440	
	Iron							0.69	0.517	ND	0.478	0.413	0.391	0.29	3.31	2.23	ND	0.13	3.83	
	Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							23.2	28.1	31.5	25.7	24.7	27.6	27.7	28.7	44.1	23	29	53.4	
	Manganese							2.01	0.761	0.562	0.681	0.34	1.3	1.22	1.88	5.81	0.95	2.8	1.83	
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0157	0.0064	0.00506	0.00667	0.00779	0.00689	0.00694	0.00771	0.00894	ND	ND	0.0086	
	Nitrate							10.35	14.59	18.45	29.09	22.65	15.0122	15.75	6.206	2.17	4.2	5.38	1.04	
	pH									5.55	5.62	5.04	5.79	5.57	5.55	6.27	5.81	5.93	5.95	
	Potassium							3.16	3.81	3.36	3.09	3.8	4.23	2.82	3.81	4.17	2.8	3.8	5.69	
	Selenium							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
	Sodium							33.4	32.6	31.7	22.7	23.1	24.1	24.7	25.7	48.2	28	43	56.1	
	Spec. Cond.									568.3	601.2	614.9	693.4	580.1	667.6	1005	174.4	640.3	979.3	
	Sulfate							13.1	12.4	11.7	5.6	11	5.66	7.76	10.5	21	21.4	26.8	21.2	
	TDS							648	552	788	528	560	420	524	442	650	398	392	ND	
	Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Turbidity							11.1	6.06	NT	NT	NS	0.8	3.7	6.09	10.1	0	0	0		
Vanadium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							0.0246	0.0119	0.0106	0.0148	0.014	0.00977	0.00991	0.00955	0.0118	ND	0.011	0.0071		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location MW08	Alkalinity							190	480	209	166	178	175	89	233	187	266	144	289	
	Ammonia							0.726	1.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Antimony							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
	Barium							0.273	0.177	0.109	0.12	0.419	0.12	0.156	0.111	0.12	0.089	0.094	0.0856	
	Beryllium							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
	Calcium							59	114	76.2	70.1	67.4	67.5	46.9	87.3	64	88	56	97.3	
	Chloride							190	207	210	198	223	172	197	142	160	134	151	133	
	Chromium							0.0215	ND	ND	ND	0.0654	ND	0.0221	ND	ND	0.014	ND	ND	
	Cobalt							0.0816	ND	ND	ND	0.0838	ND	ND	ND	ND	ND	ND	ND	ND
	COD							ND	26.3	6.2	11.5	ND	ND	ND	16	11.8	12.5	10.2	10	
	Copper							0.054	0.0145	0.0067	0.00811	0.131	0.0134	0.0107	0.00694	0.0061	0.0029	ND	0.0023	
	Hardness							270	600	99	332	344	302	218	412	316	444	276	468	
	Iron							15.1	1.69	0.69	1.15	46.3	0.498	1.64	1.25	0.485	ND	ND	ND	0.688
	Lead							0.01	ND	ND	ND	0.027	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							36.9	90.9	50.2	40.5	39.6	33.9	27.1	46	37.7	48	32	52.6	
	Manganese							3.46	0.144	0.0902	0.0101	2.36	0.0338	0.182	0.0111	0.0108	ND	ND	0.0048	
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0534	0.0082	0.00713	0.0065	0.0821	ND	0.0241	0.00754	ND	ND	ND	0.0036	
	Nitrate							7.63	13.85	5.65	14.79	9.61	4.75	5.21	14.55	9.43	11.59	9.53	6.75	
	pH									6.65	6.59	5.76	6.57	6.39	6.61	6.81	7.83	6.55	7.14	
	Potassium							10.4	19.1	14	11.8	12.9	13.6	8	12.7	10.8	11	9.7	11.9	
	Selenium							ND	ND	ND	ND	0.0076	ND	ND	ND	ND	ND	ND	0.0023	
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sodium							104	139	124	106	102	95.7	100	78.8	91.5	71	85	87	
	Spec. Cond.									1040	1154	1199	1157	907.6	1121	964.7	951.2	879	1123	
	Sulfate							55	68.5	72.6	67.4	69	95.1	57.6	136	92.7	120	69.3	169	
TDS							696	1136	1016	776	712	642	520	740	624	656	483	ND		
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	742	
Turbidity							1227	22.7	NT	NT	NS	8.7	NM	35.2	11.6	7.5	2.87	0		
Vanadium							0.0366	ND	ND	ND	0.0874	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							0.16	0.0143	0.0109	0.0104	0.22	0.00708	0.0311	0.00846	0.00925	ND	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW09	Alkalinity							64	110	44	34	37	33	28	35	30	28	28	51
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.334	0.156	0.172	0.0682	1.33	0.0722	0.115	0.338	0.688	0.069	0.069	0.0777
	Beryllium							ND	ND	ND	ND	ND	ND	ND	ND	0.00551	ND	ND	ND
	Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium							15.8	14.9	12.4	10.48	17.5	12	11	14.8	10.1	4.6	4.6	8.37
	Chloride							11.9	10.9	12.3	12.1	13.6	12.9	13.9	152	15.7	70.3	70.3	63.3
	Chromium							0.0588	0.032	ND	0.00903	0.0384	0.027	0.0263	0.0363	0.128	0.0044	0.0044	ND
	Cobalt							0.0341	0.016	ND	ND	0.0603	0.00569	0.00872	0.0138	0.0684	ND	ND	ND
	COD							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0339	0.0174	ND	0.0083	0.0369	0.0196	0.017	0.0177	0.0508	0.0043	0.0043	ND
	Hardness							80	48	140	50	84	46	48	68	46	36	36	124
	Iron							48.6	16.7	ND	3.05	26.2	6.41	14.7	22.2	86.7	3	3	0.875
	Lead							0.0373	0.0132	0.0124	ND	0.0544	ND	0.0109	0.0137	0.0648	0.0018	0.0018	ND
	Magnesium							24.4	13.2	6.9	7.22	15.9	8.44	11.8	15.7	38.2	4.5	4.5	6.34
	Manganese							1.8	0.689	0.196	0.242	3.19	0.273	0.415	0.626	2.56	0.088	0.088	0.0563
	Mercury							ND	ND	0.00035	ND	0.00045	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0553	0.0274	ND	0.00936	0.034	0.0217	0.0249	0.0318	0.109	0.0052	0.0052	ND
	Nitrate							1.25	1.25	1.14	1.47	1.18	1.45	1.49	1.36	1.26	0.839	0.839	1.12
	pH									5.25	5.08	5.23	5.42	5.05	5.07	5.5	5.7	5.7	5.57
	Potassium							17.8	7.41	1.54	2.09	9.63	3.45	5.4	8.61	30.3	1.8	1.8	1.6
	Selenium							ND	ND	ND	ND	0.00879	ND	ND	ND	0.00778	ND	ND	ND
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium							7.23	3.75	3.91	4.26	3.77	7.95	4.13	87.1	9.44	50	50	41.8
	Spec. Cond.									105.3	105.1	122.5	120.2	70.2	579.6	108.1	269.8	269.8	238.1
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TDS							168	172	116	80	112	196	96	370	72	188	188	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	147	
Turbidity							1160	398	NT	NT	NS	446	1235	644	500	154.3	154.3	40.9	
Vanadium							0.0541	0.0285	ND	ND	0.0306	0.00762	0.0167	0.0258	0.117	ND	ND	ND	
Zinc							0.189	0.0777	0.0166	0.0242	0.157	0.0363	0.0871	0.0867	0.398	0.022	0.022	0.0171	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW10	Alkalinity							100	75	78	65	79	59	86	68	4.6	61	62	50
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							1.49	0.124	0.414	0.116	0.157	0.0878	0.448	0.104	0.682	0.064	0.071	0.0526
	Beryllium							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
	Calcium							29.1	14.2	21.2	16.1	21.1	17.2	23.3	18.3	50.6	15	16	14.9
	Chloride							6.75	19.4	8.02	8.31	9.6	6.76	7.95	6.97	283	6.22	8.68	6.26
	Chromium							0.125	ND	0.00566	0.0102	0.0174	0.00814	0.0677	ND	0.0251	0.0036	ND	ND
	Cobalt							0.0659	ND	0.0103	0.00519	0.00667	ND	0.0308	ND	0.0139	ND	ND	ND
	COD							ND	36.6	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.197	0.0123	0.0292	0.027	0.0283	0.0254	0.108	0.0139	0.0313	0.0051	ND	ND
	Hardness							110	70	72	68	82	60	90	82	236	76	70	104
	Iron							201	ND	5.7	9	12.6	5.5	55.7	4.31	22.1	2	1.2	0.329
	Lead							0.0611	ND	0.0153	ND	0.00502	ND	0.0181	ND	0.0185	ND	ND	ND
	Magnesium							78.3	9.1112	10.7	9.78	11.2	8.42	26.4	9.06	30.6	7.1	6.9	7.4
	Manganese							3.59	0.044	0.38	0.158	0.212	0.0983	0.931	0.0692	0.58	0.036	0.016	0.0149
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.111	ND	0.013	0.0112	0.0172	0.00985	0.0607	0.00743	0.0254	0.0062	ND	ND
	Nitrate							ND	ND	ND	ND	ND	ND	ND	ND	3.91	ND	ND	ND
	pH									5.35	5.8	5.53	5.95	5.9	5.62	5.16	5.95	5.73	6.08
	Potassium							43.5	1.26	2.12	2.78	3.27	2.29	11.3	1.81	6.43	1.3	1.3	1.02
	Selenium							0.0085	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium							12.4	10.1	8.3	8.54	9.1	12.4	9.52	9.11	90.2	8.8	8.8	9.87
	Spec. Cond.									132.5	144.6	184	164.9	183	148.4	983.8	132.3	163.1	135.1
	Sulfate							7.56	8.3	7.83	8.02	7.4	8.41	6.47	8.64	18.8	11.3	11.6	11.2
TDS							148	140	140	116	160	162	142	144	680	68	73	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Turbidity							4340	3140	NT	NT	NS	203	1583	114	401	115.5	37.8	16	
Vanadium							0.189	ND	0.00943	0.0242	0.0319	0.0143	0.124	0.0107	0.0273	0.0055	ND	ND	
Zinc							0.337	0.132	0.0575	0.0335	0.0444	0.0272	0.19	0.0606	0.0898	0.035	0.0073	0.0149	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW11A	Alkalinity							50	27	40	33	37	29	33	16.2	31	23	37	25
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.749	0.274	0.148	0.138	0.183	0.111	0.185	0.158	0.083	0.032	0.047	0.0396
	Beryllium							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
	Calcium							23.4	14.8	15.1	11.4	15.8	12.5	17.3	10.9	12.9	7.7	13	11
	Chloride							4.22	10.9	4.52	4.17	5.1	4.99	5.14	4.21	4.97	4.87	7.02	6.56
	Chromium							0.144	0.0273	0.00963	0.0354	0.0514	0.032	0.0518	0.0384	0.0143	0.0095	ND	ND
	Cobalt							0.0695	0.0181	0.0103	0.014	0.0213	0.0119	0.0212	0.0155	0.00554	ND	ND	ND
	COD							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0825	0.026	0.0135	0.0452	0.0409	0.0321	0.046	0.0413	0.0156	0.0051	ND	ND
	Hardness							90	36	54	52	80	46	60	200	58	44	54	88
	Iron							149	12.1	7.54	22.56	30.8	18.4	30.7	27.8	9.84	4.7	3	1.45
	Lead							0.0499	0.0156	0.0122	0.00689	0.0136	0.00611	0.0117	0.00791	ND	0.0015	ND	ND
	Magnesium							66.6	11.2	8.63	11.7	13.9	9.74	16.4	12.7	7.8	3.6	5.7	5.24
	Manganese							3.47	0.738	0.319	0.451	0.693	0.326	0.633	0.464	0.169	0.057	0.027	0.0364
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.145	0.0277	0.0171	0.0312	0.0486	0.0297	0.0489	0.036	0.0134	0.0099	ND	ND
	Nitrate							1.4774	1.1	1.94	1.29	2.25	1.87	2.57	1.09	2.34	1.22	3.57	1.99
	pH									5.14	5.51	5.49	5.78	5.72	5.54	5.76	5.7	5.53	5.80
	Potassium							27.7	1.87	1.3	4.85	4.82	3.64	6.81	5.26	2.34	1.1	1.2	0.975
	Selenium							0.0056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium							8.49	4.21	5.15	4.66	4.57	8.24	5.31	3.89	4.7	3.7	5.3	5.38
	Spec. Cond.									92	93.3	114.8	111.2	111.7	76.9	101	57.4	125.8	97.4
	Sulfate							7.07	6.28	5.94	5.83	5.76	6.22	5.93	6.78	6.37	6.75	5.37	5.79
TDS							108	72	96	64	108	176	116	87	78	50	10	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86	
Turbidity							4880	1600	NT	NT	NS	766	1272	607	630	46	86.3	17.5	
Vanadium							0.124	0.0093	0.00545	0.0425	0.057	0.0328	0.0555	0.0424	0.0171	0.0091	0.0052	ND	
Zinc							0.334	0.0938	0.0493	0.0788	0.109	0.069	0.124	0.0925	0.034	0.011	0.011	0.0095	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	
Monitoring Location MW11B	Alkalinity							100	69	65	68	61	61	62	68	73	72	68	68	
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.0744	0.0194	0.0188	0.0252	0.021	0.021	0.0261	0.0348	0.0256	0.021	0.021	0.0246	
	Beryllium							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
	Calcium							34.4	15.4	14.9	14.3	15.9	15.9	16.9	17.5	17.6	16	16	18.6	
	Chloride							4.18	4.79	4.38	4.9	5.06	5.06	6.57	6.14	6.38	6.77	7.07	9.64	
	Chromium							0.0082	ND	ND	ND	ND	ND	ND	0.00518	ND	ND	ND	ND	
	Cobalt							0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	COD							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0131	ND	ND	0.00742	ND	ND	0.00552	0.00699	ND	0.0021	ND	ND	
	Hardness							94	66	58	62	62	62	62	72	86	86	72	108	
	Iron							6.97	ND	ND	1.37	0.567	0.567	0.948	2.73	0.705	1.8	1.6	0.449	
	Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							8.36	6.63	6.3	7.72	6.62	6.62	8.18	9.36	8.63	8.8	8	10.2	
	Manganese							0.167	0.012	0.0107	0.0345	0.0178	0.0178	0.021	0.0516	0.0142	0.031	0.019	0.0101	
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.009	ND	ND	ND	ND	ND	ND	0.00535	ND	ND	ND	ND	
	Nitrate							2.307	2.33	2.19	2.56	2.37	2.37	2.38	2.74	2.82	3.02	3	2.93	
	pH									6.13	6.36	6.17	6.17	6.46	6.19	6.56	6.77	6.27	6.27	
	Potassium							2.5	0.888	0.93	1.12	0.941	0.941	1.17	1.46	0.946	1.1	1.1	1.06	
	Selenium							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
	Sodium							12.6	9.1	8.49	9.38	8.14	8.14	9.42	9.7	9.22	9.6	9	11	
	Spec. Cond.									123	156	147.8	147.8	144.9	160	171.5	74.1	170.2	162.1	
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TDS							156	132	116	132	136	136	134	156	108	106	43	ND		
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	143	
Turbidity							72.4	4.99	NT	NT	NS	NS	15.8	40.5	7.4	34.2	36.9	24.6		
Vanadium							0.0229	ND	ND	0.00615	ND	ND	0.0058	0.0088	ND	0.007	0.0062	ND		
Zinc							0.0209	ND	ND	0.0106	0.00657	0.00657	0.00743	0.0122	ND	0.0053	ND	ND		

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW12	Alkalinity							15	16	22	12	10	7	7.9	6	75	7.5	10	23
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							1.32	0.749	0.615	0.635	0.472	0.473	0.392	0.471	0.354	0.44	0.31	0.354
	Beryllium							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
	Calcium							82	78.8	65.6	65.2	47.4	44.5	45.5	46.4	19.7	47	32	32.8
	Chloride							374	371	286	348	211	246	197	251	7.3	267	176	204
	Chromium							0.1	ND	ND	0.0181	0.0261	ND	0.0115	ND	0.0436	0.01	ND	ND
	Cobalt							0.0492	ND	ND	ND	0.012	ND	ND	ND	0.0213	ND	ND	ND
	COD							ND	ND	ND	6.1	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.109	0.0111	0.00629	0.0168	0.0339	0.0159	0.0167	0.00787	0.078	0.011	ND	ND
	Hardness							360	356	280	276	188	196	170	206	88	204	136	140
	Iron							100	2.59	1.22	4.09	17	1.27	7.12	1.17	36.8	3.8	2.1	0.367
	Lead							0.0616	ND	0.0106	ND	0.0168	ND	0.00655	ND	0.0112	0.0022	0.0014	ND
	Magnesium							69.5	43.1	29.1	32.7	23	21.1	21.6	22.9	19.5	24	15	16.9
	Manganese							3.02	0.138	0.103	0.155	0.532	0.0835	0.177	0.0658	0.596	0.11	0.055	0.0391
	Mercury							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nickel							0.0938	0.0113	0.00795	0.0205	0.0257	0.00961	0.0136	0.00786	0.0388	0.014	ND	ND
	Nitrate							5.0188	4.38	4.87	4.43	4.9	4.49	5.02	4.33	ND	3.94	4.88	3.83
	pH								4.66	4.8	5.01	5.19	4.82	4.85	5.96	5.2	5.05	5.36	
	Potassium							23.1	5.14	4.12	4.49	5.42	4.06	4.3	3.27	8.02	4.1	3.2	2.6
	Selenium							0.0062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Silver							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium							81.5	104	73.7	96.2	57.8	76.9	61.4	88.4	8.05	88	64	83.5
	Spec. Cond.								836.7	1142	757	976.6	668	835.9	159.4	783.6	641.4	640.7	
	Sulfate							14.7	14.3	15.5	13.9	15.7	15	17.3	18.2	8.23	18.8	20.7	20.4
TDS							1520	1184	1020	1012	720	600	646	624	134	620	337	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	426	
Turbidity							3920	57.4	NT	NT	NS	84.3	160	50.1	358.3	94.3	6.9	26.3	
Vanadium							0.085	ND	ND	ND	0.0246	ND	0.00879	ND	0.0893	ND	ND	ND	
Zinc							0.269	0.0352	0.0306	0.039	0.0754	0.0238	0.0443	0.0241	0.132	0.041	0.022	0.021	

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

Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW13A	Alkalinity							50	224	34	227	32	34	32	34	36	32	40	33
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0015	ND
	Barium							0.332	0.199	0.273	0.687	0.249	0.213	0.397	0.44	0.476	0.18	0.34	0.193
	Beryllium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0017	ND
	Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium							26.5	23.8	24.5	29.1	26.3	25	26.9	29	26.8	23	28	24.4
	Chloride							84.3	83.5	85.1	86.1	90.7	88.2	87.9	86.8	85.8	90.8	93.8	90.7
	Chromium							0.024	ND	ND	0.0853	0.0224	0.00838	0.0409	0.0436	0.0342	0.005	0.041	ND
	Cobalt							0.029	0.0079	0.0114	0.0683	0.017	0.0109	0.0351	0.0378	0.0335	0.0085	0.022	0.0076
	COD							34.6	ND	ND	10.1	ND	17.2	ND	10.9	18.6	ND	11.7	ND
	Copper							0.071	0.0121	0.0137	0.197	0.0421	0.0271	0.09	0.095	0.0753	0.005	0.048	ND
	Hardness							160	128	125	164	148	132	136	270	148	220	152	128
	Iron							28.3	3.32	2.96	108	17.3	10.3	45.7	45.9	44	2	29	0.259
	Lead							0.0112	ND	0.00686	0.0327	0.0069	ND	0.0146	0.0172	0.0215	ND	0.01	ND
	Magnesium							23.5	20.7	19.7	47	19.7	18.2	30.5	31.9	28.6	17	26	17.7
	Manganese							0.876	0.302	0.376	1.88	0.54	0.333	1.03	0.954	1.3	0.27	0.42	0.264
	Mercury							0.00032	0.00026	0.00062	0.00257	0.00039	0.00033	0.00075	0.00142	0.00198	ND	0.0031	ND
	Nickel							0.0345	0.01	0.00966	0.0773	0.0249	0.0135	0.0427	0.0462	0.0359	ND	0.011	0.0076
	Nitrate							2.48	2.29	2.17	1.97	2.08	1.88	1.67	1.52	1.2861	1.55	1.55	1.63
	pH									4.79	4.93	4.91	5.32	5.12	5.31	5.34	5.12	5.07	5.16
	Potassium							8.65	3.03	2.72	22.6	6.15	4.75	11.3	12.2	11.6	2.3	8.7	1.94
	Selenium							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
	Sodium							17.6	16.1	15.5	15.1	14.9	16.5	12.5	14.3	13.3	13	14	13.2
	Spec. Cond.									303	362.1	362.5	406.3	290.5	214.5	83.3	319.4	378.9	348.8
	Sulfate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TDS							380	324	456	392	336	174	348	312	288	228	142	ND	
Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	238	
Turbidity							1048	56.8	NT	NT	NS	1082	1220	934	1349	42.7	73.2	27.2	
Vanadium							0.0626	0.0099	0.00944	0.238	0.0461	0.0197	0.113	0.0979	0.0903	0.005	0.078	ND	
Zinc							0.0902	0.0194	0.0224	0.231	0.0585	0.033	0.126	0.134	0.108	0.017	0.089	0.0122	

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Sample Site	Parameter	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	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
Monitoring Location MW13B	Alkalinity							230	720	226	742	226	224	221	218	221	212	216	209
	Ammonia							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
	Arsenic							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Barium							0.0676	0.073	0.0706	0.0746	0.0676	0.0748	0.0754	0.0794	0.0814	0.07	0.073	0.077
	Beryllium							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
	Calcium							82.7	80.5	83.4	91.2	81.4	83	86.2	90	85.2	86	89	84.9
	Chloride							84.6	84.7	85.5	89.5	86.4	91	89.4	92.4	97.1	99.8	99.2	97.9
	Chromium							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
	COD							6.2	9.6	3.4	12.1	ND	ND	ND	ND	ND	ND	ND	ND
	Copper							0.0063	ND	ND	ND	ND	0.01	ND	ND	ND	0.0012	ND	ND
	Hardness							360	313	67	334	316	314	328	340	342	368	344	324
	Iron							0.571	ND	ND	0.498	0.447	0.537	0.411	0.458	0.498	ND	ND	0.478
	Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium							27.6	31.4	31.2	32.2	26.9	28.1	30.4	30.2	28.7	29	29	29.2
	Manganese							0.0306	0.0323	0.0324	0.0382	0.0403	0.0331	0.0371	0.0342	0.0361	0.026	0.032	0.036
	Mercury							0.0002	ND	ND	ND	0.00029	0.0002	0.00027	0.00022	0.00024	0.00021	ND	ND
	Nickel							ND	ND	ND	0.00581	0.00683	ND	0.00565	0.00514	ND	ND	ND	0.0028
	Nitrate							1.467	1.62	1.6	1.88	2.08	2.27	2.44	2.7	2.91	3.31	3.46	3.68
	pH									5.85	5.88	5.64	6.2	6.07	6.15	6.28	6.7	6.1	6.14
	Potassium							3.3	4.07	3.53	3.5	3.67	4.71	3.35	3.66	3.45	3.4	3.8	3.26
	Selenium							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
	Sodium							19.9	18.2	17.9	18.9	15.9	19.9	16.4	17.7	17.7	17	19	17.6
	Spec. Cond.									586.8	713.4	706.1	781	673.7	676.3	716.8	615.2	710	700
	Sulfate							6.18	ND	6.71	7.55	7.58	7.33	8.33	9.35	10.5	11.4	10.2	12.5
	TDS							540	572	640	560	480	474	502	458	454	472	412	ND
	Thallium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	464
Turbidity							0.232	0.364	NT	NT	NS	0	0	0.69	0	0.7	0.47	0	
Vanadium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc							ND	ND	ND	0.00501	0.00618	ND	0.00659	0.00636	0.00537	ND	ND	ND	

NT: Not Tested

NS: Not Sampled

ND: Not Detected

Note: Benchmark exceedances are indicated in Red

TABLE A - Filtered and Unfiltered Sampling Results for Metals

		Monitoring Well											
		OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	
Parameter	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.0026	ND	0.0041	0.0046	0.0027	ND	ND	ND
		Barium	0.287	0.0814	0.436	0.5	0.235	0.309	0.0686	0.193	0.0285	0.0401	0.138
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Calcium	90.6	39	102	69.6	76.5	170	129	90.8	131	50.1	58.4
		Chromium	ND	ND	ND	0.0025	ND	ND	ND	0.0027	ND	ND	ND
		Cobalt	0.0074	ND	ND	0.0484	0.0331	ND	ND	0.0046	ND	ND	0.0041
		Copper	0.0039	ND	ND	ND	ND	0.036	0.028	0.005	0.0025	ND	ND
		Iron	0.579	0.612	0.703	20.9	21.4	1	0.941	1.04	0.924	0.284	0.45
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	56.3	16.6	59.6	40.7	58.4	87.4	91.1	56.2	39.6	21.9	12.9
		Manganese	5.04	0.8	0.0544	26.8	6.37	5.14	1.84	0.568	0.077	0.153	4.89
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	ND	ND
		Nickel	0.0226	ND	0.0111	0.0126	0.0107	0.0136	0.0225	0.0104	0.002	0.0054	0.0054
		Potassium	4.38	3.41	4.46	5.72	12.1	6.85	5.74	4.13	3.24	2.76	2.33
		Selenium	0.0023	ND	ND	0.0029	ND	0.0195	0.0226	0.0121	0.0074	0.0045	ND
		Silver	0.0006	ND	ND	ND	ND	ND	ND	0.0002	ND	ND	ND
	Sodium	125	15.6	41.2	42.9	109	69.3	90.3	125	22.2	16	22.2	
	Thallium	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND	
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Zinc	0.0087	ND	0.0047	0.0093	0.0064	0.0056	0.022	0.0128	ND	0.0052	ND	
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.0027	0.0038	0.0038	0.0045	0.0026	ND	ND	ND
		Barium	0.285	0.0752	0.435	0.49	0.211	0.304	0.065	0.192	0.0282	0.0399	0.139
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Calcium		90.1	28	102	70.4	69.5	167	128	140	127	56.6	57.9	
Chromium		ND	ND	ND	0.0033	0.0024	ND	ND	ND	ND	ND	ND	
Cobalt		0.0074	ND	ND	0.0485	0.0311	ND	ND	0.0046	ND	ND	0.0041	
Copper		0.0038	ND	ND	ND	ND	0.0347	0.0258	0.0047	0.0021	ND	ND	
Iron		0.562	0.211	0.609	22.1	19.3	1.02	1.09	0.886	0.789	0.287	0.402	
Lead		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Magnesium		55.9	11.8	59.3	40.2	49.4	87	90.6	58.4	38.9	26.9	12.9	
Manganese		3.82	0.7	0.0526	18.3	6.8	3.44	1.85	0.56	0.0755	0.119	4.84	
Mercury		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Nickel		0.023	ND	0.0108	0.0128	0.0096	0.0133	0.0216	0.0102	0.0021	0.0053	0.005	
Potassium		4.33	3.64	4.53	6.17	12.4	6.96	6.77	4.18	3.21	2.67	2.3	
Selenium		0.0024	ND	ND	0.003	0.0026	0.0181	0.0215	0.012	0.0074	0.0052	ND	
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	125	11.2	40.8	42.4	89	68.3	89	114	21.7	17.3	22.3		
Thallium	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND		
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	0.0086	ND	0.0043	0.0091	0.003	0.0056	0.0209	0.0127	ND	0.0044	ND		

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

		Monitoring Well											
		OB08A	OB10	OB102	OB105	OB11	OB11A	OB12	OB15	OB25	MW1B	MW2A	
Parameter	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.0026	ND	ND	ND	ND	0.0022	ND	ND	ND	ND	ND	ND
	Barium	0.0697	0.0591	0.407	0.381	0.0254	0.193	0.0152	0.0656	0.22	ND	0.0112	0.0112
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	ND	ND	ND	ND	0.0112	0.002	ND	ND	ND	ND	ND	ND
	Calcium	54.5	59.7	113	180	132	110	38.8	13.3	86.1	6.14	6.29	6.29
	Chromium	0.002	ND	ND	ND	0.0048	0.0044	0.0022	ND	0.0071	ND	ND	ND
	Cobalt	0.0157	0.0055	0.0744	0.0129	ND	0.0271	ND	ND	0.0501	ND	ND	ND
	Copper	ND	ND	0.0448	0.015	0.0031	0.0037	ND	ND	0.0122	ND	ND	ND
	Iron	3.87	0.971	0.967	20.9	0.992	1.68	0.22	1.69	7.64	ND	ND	ND
	Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Magnesium	21.2	33.7	106	143	72.2	77.6	24.4	19.5	62.6	3.54	2.68	2.68
	Manganese	7.77	4.68	17.3	3.54	0.829	8.92	0.103	0.0851	20.3	ND	0.0553	0.0553
	Mercury	ND	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND
	Nickel	0.0056	0.0082	0.101	0.0211	0.0308	0.024	0.0073	0.0119	0.0334	ND	0.0021	0.0021
	Potassium	2.54	3.42	49.5	69.3	4.65	4.64	2.45	1.82	14.2	0.895	1.21	1.21
	Selenium	ND	0.004	0.0165	0.0111	0.0069	0.0062	ND	ND	0.0054	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sodium	29.2	20.4	562	304	78.2	106	25.2	22	77.9	6.74	5.56	5.56
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	0.0051	ND	ND	ND
	Zinc	0.0028	0.0021	0.0119	0.0379	0.0362	0.0169	ND	0.0434	0.0415	ND	0.0045	0.0045
FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	0.0026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Barium	0.0682	0.0586	0.412	0.362	0.0245	0.199	0.0154	0.0557	0.109	ND	0.0103	0.0103	
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	ND	ND	ND	ND	0.0111	ND	ND	ND	ND	ND	ND	ND	
Calcium	54.7	61	121	150	133	108	38.7	10.6	72.5	6.09	6.52	6.52	
Chromium	ND	ND	ND	ND	0.0051	0.0048	0.003	ND	0.0033	ND	ND	ND	
Cobalt	0.0153	0.0056	0.0752	0.0119	ND	0.0267	ND	ND	0.024	ND	ND	ND	
Copper	ND	ND	0.0408	0.0068	0.0029	0.0022	ND	ND	ND	ND	ND	ND	
Iron	3.72	0.906	1	15.8	0.91	1.42	0.227	ND	4.06	ND	ND	ND	
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Magnesium	21.4	34.1	105	142	71.9	76.8	24.3	15.8	52.1	3.48	3.3	3.3	
Manganese	7.57	4.73	17.7	3.6	0.849	8.87	0.109	0.0736	4.05	ND	0.0407	0.0407	
Mercury	ND	ND	ND	ND	0.0009	ND	ND	ND	ND	0.0044	ND	ND	
Nickel	0.0055	0.0084	0.102	0.0191	0.0304	0.0236	0.0073	0.0102	0.0134	ND	ND	ND	
Potassium	2.46	3.13	64	58.3	4.64	5.25	3.58	1.42	13	0.887	1.47	1.47	
Selenium	ND	0.004	0.0171	0.0108	0.0065	0.006	ND	ND	0.003	ND	ND	ND	
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	29.6	20.7	558	298	79.4	106	25.8	17.1	66.4	6.71	6.24	6.24	
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	ND	0.002	0.0118	0.0198	0.0362	0.0173	0.002	0.0346	0.0047	ND	0.003	0.003	

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

		Monitoring Well											
		MW2B	MW3A	MW3B	MW04	MW06	MW07	MW08	MW09	MW10	MW11A	MW11B	
Parameter	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Barium	0.0112	ND	0.0135	0.041	0.332	0.103	0.0856	0.0777	0.0526	0.0396	0.0246
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	0.0023	ND	ND	ND	ND	ND	ND
		Calcium	6.78	2.48	24.5	43.8	95.9	98	97.3	8.37	14.9	11	18.6
		Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cobalt	ND	ND	ND	ND	0.554	0.0136	ND	ND	ND	ND	ND
		Copper	ND	ND	ND	ND	0.0033	0.0121	0.0023	ND	ND	ND	ND
		Iron	ND	ND	0.255	0.726	27.3	3.83	0.688	0.875	0.329	1.45	0.449
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	3.38	1.1	3.95	25.3	71.5	53.4	52.6	6.34	7.4	5.24	10.2
		Manganese	0.0418	ND	0.0115	0.0726	58.1	1.83	0.0048	0.0563	0.0149	0.0364	0.0101
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	ND	ND	ND	ND	0.0511	0.0086	0.0036	ND	ND	ND	ND
		Potassium	1.52	0.765	1.67	3.44	3.29	5.69	11.9	1.6	1.02	0.975	1.06
		Selenium	ND	ND	ND	ND	0.0057	ND	0.0023	ND	ND	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	6.5	2.93	11.4	33.3	101	56.1	87	41.8	9.87	5.38	11
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.0037	ND	ND	0.0065	0.0253	0.0071	ND	0.0171	0.0149	0.0095	ND		
Parameter	FILTERED	Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
		Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
		Barium	0.011	ND	0.0149	0.0324	0.315	0.0907	0.0843	0.0704	0.0492	0.0226	0.0164
		Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	ND	0.0023	ND	ND	ND	ND	ND	ND
		Calcium	8.14	3.5	22.9	37.7	97.1	90.1	98.5	5.41	15.1	7.91	16.1
		Chromium	ND	ND	ND	ND	ND	0.0034	ND	ND	ND	ND	ND
		Cobalt	ND	ND	ND	ND	0.581	0.01	ND	ND	ND	ND	ND
		Copper	ND	ND	ND	ND	ND	0.0032	ND	ND	ND	ND	ND
		Iron	ND	ND	ND	0.228	34.3	3.1	0.705	ND	ND	ND	ND
		Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Magnesium	3.49	1.57	3.4	22	72.8	46.4	53.4	4.22	6.5	2.8	7.47
		Manganese	0.0471	ND	ND	0.0548	59.4	1.8	0.0036	0.0297	0.0078	0.0079	ND
		Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Nickel	ND	ND	ND	ND	0.0535	0.0067	0.0038	0.0027	0.0026	ND	ND
		Potassium	1.57	1.09	1.36	2.58	3.2	3.89	12	1.08	0.967	0.476	0.719
		Selenium	ND	ND	ND	ND	0.0051	0.0078	0.0025	ND	ND	ND	ND
		Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Sodium	5.33	4.14	10.4	28.8	102	48	86.3	39.9	8.83	3.44	8.12
		Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
Zinc	0.0037	ND	ND	0.0024	0.023	0.0034	ND	0.0094	0.0122	ND	ND		

ND: Not Detected

TABLE A - Filtered and Unfiltered Sampling Results for Metals

		Monitoring Well						
		MW12	MW13A	MW13B	Minimum	Maximum	Average	
Parameter	UNFILTERED	Antimony	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.0022	0.0046	0.0031
		Barium	0.354	0.193	0.077	0.0112	0.5000	0.1520
		Beryllium	ND	ND	ND	ND	ND	ND
		Cadmium	ND	ND	ND	0.0020	0.0112	0.0052
		Calcium	32.8	24.4	84.9	2.4800	180.0000	65.8489
		Chromium	ND	ND	ND	0.0020	0.0071	0.0037
		Cobalt	ND	0.0076	ND	0.0041	0.5540	0.0613
		Copper	ND	ND	ND	0.0023	0.0448	0.0132
		Iron	0.367	0.259	0.478	0.2200	27.3000	3.8990
		Lead	ND	ND	ND	ND	ND	ND
		Magnesium	16.9	17.7	29.2	1.1000	143.0000	39.2036
		Manganese	0.0391	0.264	0.036	0.0048	58.1000	5.1715
		Mercury	ND	ND	ND	0.0002	0.0011	0.0007
		Nickel	ND	0.0076	0.0028	0.0020	0.1010	0.0174
		Potassium	2.6	1.94	3.26	0.7650	69.3000	6.9576
		Selenium	ND	ND	ND	0.0023	0.0226	0.0086
		Silver	ND	ND	ND	0.0002	0.0006	0.0004
	Sodium	83.5	13.2	17.6	2.9300	562.0000	66.5689	
	Thallium	ND	ND	ND	0.0011	0.0011	0.0011	
	Vanadium	ND	ND	ND	ND	ND	ND	
	Zinc	0.021	0.0122	ND	0.0021	0.0434	0.0150	
	FILTERED	Antimony	ND	ND	ND	ND	ND	ND
		Arsenic	ND	ND	ND	0.0026	0.0045	0.0033
		Barium	0.323	0.182	0.077	0.0103	0.4900	0.1432
		Beryllium	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	0.0023	0.0111	0.0067	
Calcium		30.1	24.1	84.4	3.5000	167.0000	64.9908	
Chromium		ND	ND	ND	0.0024	0.0051	0.0036	
Cobalt		ND	0.0075	ND	0.0041	0.5810	0.0609	
Copper		ND	ND	ND	0.0021	0.0408	0.0127	
Iron		ND	ND	0.488	0.2110	34.3000	4.7550	
Lead		ND	ND	ND	ND	ND	ND	
Magnesium		14.8	17.4	29.2	1.5700	142.0000	37.9703	
Manganese		0.0251	0.262	0.0357	0.0036	59.4000	4.6820	
Mercury		ND	ND	ND	0.0009	0.0044	0.0027	
Nickel		0.0033	0.0075	0.0027	0.0021	0.1020	0.0154	
Potassium		2.13	1.89	3.31	0.4760	64.0000	6.9878	
Selenium		ND	ND	ND	0.0024	0.0215	0.0079	
Silver		ND	ND	ND	ND	ND	ND	
Sodium	71.8	13.1	17.5	3.4400	558.0000	63.9614		
Thallium	ND	ND	ND	0.0011	0.0011	0.0011		
Vanadium	ND	ND	ND	0.0030	0.0030	0.0030		
Zinc	0.0139	0.0115	ND	0.0020	0.0362	0.0112		

ND: Not Detected

Appendix E

Table of Groundwater Elevations and Groundwater Elevation Contour Map

Results in (ft. AMSL)

TABLE 5 - Water Table Elevations Gude Landfill

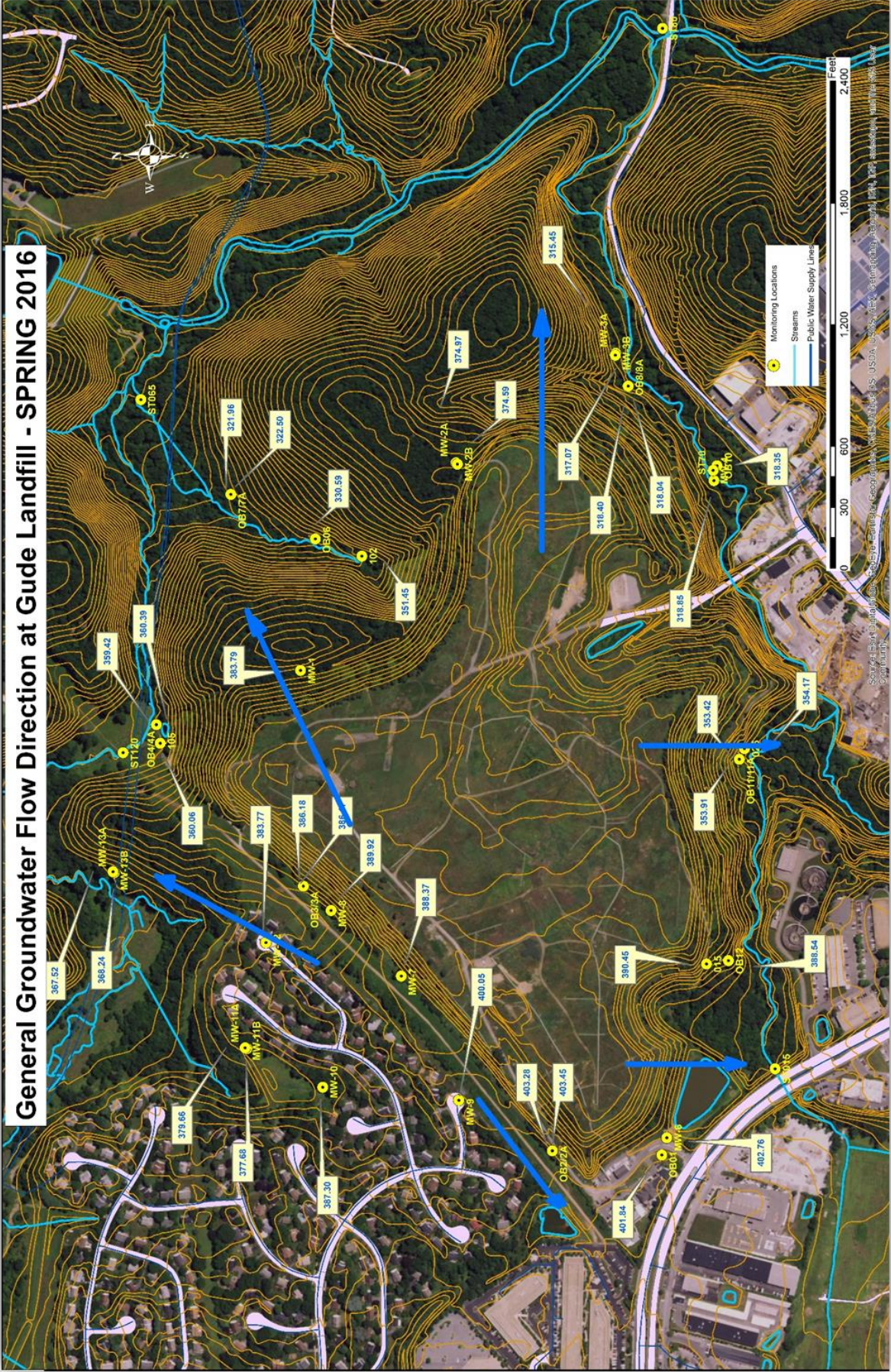
Monitoring Well	Well Elevation (ft)	Fall 2014 Water Elevation (ft)	Spring 2015 Water Elevation (ft)	Fall 2015 Water Elevation (ft)	Spring 2016 Water Elevation (ft)	Elevation Change From Fall 2015 (ft)	FALL 2015 Measured Water Elevation From Ground Level (ft)
OB01	415.90	400.82	402.59	399.40	402.14	2.7	13.76
OB02	418.48	401.91	404.14	400.31	403.70	3.4	14.78
OB02A	418.61	401.95	404.52	400.22	403.93	3.7	14.68
OB03	409.86	386.24	389.42	384.25	388.63	4.4	21.23
OB03A	410.06	386.23	388.46	384.24	388.68	4.4	21.38
OB04	364.21	359.37	359.95	358.57	359.70	1.1	4.51
OB04A	365.37	359.94	360.63	359.19	360.72	1.5	4.65
OB06	339.78	330.94	332.99	328.63	331.55	2.9	8.23
OB07	329.49	322.70	324.22	319.60	323.25	3.6	6.24
OB7A	328.44	321.97	323.50	319.00	322.65	3.6	5.79
OB08	325.11	319.06	319.23	318.00	318.41	0.4	6.70
OB08A	325.31	318.73	318.91	317.65	318.06	0.4	7.25
OB10	325.77	318.68	319.18	318.27	319.06	0.8	6.71
OB102	363.17	352.51	352.86	350.96	354.98	4.0	8.19
OB105	363.45	360.32	361.13	359.66	355.26	-4.4	8.19
OB11	362.56	353.58	354.71	352.79	346.75	-6.0	15.81
OB11A	361.90	352.99	353.91	352.44	343.15	-9.3	18.75
OB12	405.01	386.75	389.49	385.26	398.59	13.3	6.42
OB015	410.01	387.69	391.47	386.07	398.76	12.7	11.25
OB025	361.89	352.94	354.67	352.10	359.62	7.5	2.27
MW1B	434.00	391.76	387.14	387.58	383.62	-4.0	50.38
MW2A	445.53	388.79	378.42	381.99	372.39	-9.6	73.14
MW2B	444.45	388.74	378.42	382.01	372.77	-9.2	71.68
MW3A	324.54	317.61	316.13	314.89	315.57	0.7	8.97
MW3B	324.73	316.15	318.24	315.28	317.51	2.2	7.22
MW04	324.75	318.17	318.59	317.93	318.58	0.6	6.17
MW06	417.29	401.58	403.40	400.31	402.88	2.6	14.41
MW07	433.81	389.88	391.09	387.91	390.50	2.6	43.31
MW08	412.66	389.40	394.17	387.40	393.18	5.8	19.48
MW09	417.69	399.12	400.95	397.09	400.36	3.3	17.33
MW10	394.03	379.96	390.48	383.56	388.17	4.6	5.86
MW11A	393.45	376.37	381.79	374.79	380.31	5.5	13.14
MW11B	393.40	376.06	378.93	374.22	378.10	3.9	15.30
MW12	397.55	390.12	384.58	380.85	384.11	3.3	13.44
MW13A	373.37	364.93	368.00	365.60	367.75	2.1	5.62
MW13B	373.35	367.77	368.72	366.49	368.49	2.0	4.86
AVERAGE						1.9	

NOTES:

- Elevations are from Sea Level

SPRING 2016

General Groundwater Flow Direction at Gude Landfill - SPRING 2016



Appendix F

Statistical Analysis

Topic: Statistical Analysis Summary: Spring 2016 Semi-Annual Water Sampling
Gude Landfill, Montgomery County

Date: 30 June 2016

INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) performed statistical analysis for Gude Landfill as a supplement to the Spring 2016 Semi-Annual Groundwater Monitoring Report. The purpose of this Technical Memorandum is to present the statistical trends in concentrations observed following the March 2016 sampling event. Statistical analysis was performed for all wells within the Gude Landfill groundwater monitoring network using data collected from 2001 through March 2016, when available. Groundwater monitoring wells OB01, OB02, OB02A, OB03, OB03A, OB04, OB04A, OB06, OB07, OB07A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB015, OB025, OB102, and OB105 were installed between 1984 and 1988. The statistical trend analysis for these wells used monitoring data since 2001. Groundwater monitoring wells MW-1B, MW-2A, MW-2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A, and MW-13B were installed in 2010 and first sampled in July 2010. All available data were used in the statistical analysis for these wells.

Groundwater monitoring wells MW-14A, MW-14B, and MW-15 were installed in 2011 and only sampled once, in September 2011. Statistical analysis was not performed on these wells due to insufficient data for the analysis.

Low-flow groundwater sampling methods were employed beginning with the Spring 2015 event and will continue to be utilized by Montgomery County (the County) during future monitoring events. Previously, three (3) volume well purge methods, which use higher flow rates, had been used. Higher flow rates can be associated with higher turbidity and can impact concentrations of constituents in groundwater samples. As a result, this change in methodologies may require further evaluation and potential modification of the statistical methods used as part of the semi-annual groundwater evaluation.

Intrawell statistical analysis was performed. Interwell statistical analysis was not performed due to insufficient data from an offsite/background well. If interwell analysis is required in the future, background data will need to be collected from an offsite/background well, such as MW-14A/B.

The methodologies and results of the statistical analysis are provided below.

STATISTICAL ANALYSIS METHODOLOGY

Gude Landfill ceased accepting waste in 1982 and is therefore only governed by the state of Maryland under the Code of Maryland Regulations (COMAR) and as directed by the Maryland Department of the Environment. Since 1982, the County has voluntarily, or through regulatory mandates, implemented and maintained Best Management

Practices (BMPs) for pre-regulatory era landfills to ensure compliance with COMAR requirements, including routine monitoring of groundwater and surface water. Part of routine water monitoring includes statistical analysis of groundwater data.

Interwell statistical analysis, if performed, would measure the statistical difference between constituent concentrations in off-site/background monitoring well(s) and down-gradient monitoring wells, whereas intrawell statistical analysis measures the statistical change in constituent concentrations in each individual well over time. Due to the lack of data for an off-site/background well, the intrawell Mann-Kendall test for trend, which is consistent with the United States Environmental Protection Agency (EPA) Unified Guidance (EPA 2009), was used to evaluate potential trends in the data.

The Mann-Kendall test for monotonic trend (Gilbert 1987) was used to identify constituents with concentrations that display an increasing or decreasing trend over time, at the ninety-five (95) percent significance level. The basic principle of the Mann-Kendall test is to examine the sign of all pairwise differences of observed values. The test does not have any distributional assumptions, i.e., it does not require the data to be normally distributed or follow any other distribution, and the test also can handle non-detects and irregular sampling intervals. The data are ordered by sampling date for each well/parameter pair and each concentration is compared to previous/historical concentrations. The test statistics are calculated based on the number of increases and decreases from one sampling event to another. The significance probability of an increasing or decreasing trend is then calculated from the test statistic and the number of sampling events for each well/parameter pair. Concentrations reported below the detection were treated as zero (0). Exact two-sided probabilities for the null distribution of the Mann-Kendall test were obtained from Hollander and Wolfe (1973). The null hypothesis of no trend was evaluated against the two-sided alternative hypothesis. Rejection of the null hypothesis at the ninety-five (95) percent significance level (i.e., two-sided $p < 0.05$) led to the conclusion that the monitoring data contain a statistically significant trend. Statistically significant trends were characterized as increasing ($S > 0$) or decreasing ($S < 0$).

The statistical test does not evaluate the magnitude of the increase or decrease associated with the results of the analysis.

A trend analysis was performed for each chemical constituent at every monitoring well if:

1. The monitoring well had been sampled on at least four (4) independent time periods.
2. At least four (4) sample results were above the analytical detection limit.

Statistical analysis was not performed for groundwater monitoring wells MW-14A, MW-14B, and MW-15 since they have only been sampled once.

GROUNDWATER TREND RESULTS

Trend analysis results for volatile organic compounds (VOCs), metals, and general indicator parameters in groundwater are discussed in this section. Table 1 identifies parameters with statistically increasing trends, and Table 2 identifies parameters with statistically decreasing trends.

Volatile Organic Compounds

Twelve (12) VOCs were identified as having increasing statistical trends, and sixteen (16) of the monitoring wells had one (1) or more VOCs with increasing statistical trends (Table 1). Thirteen (13) VOCs were identified as having decreasing trends, and fourteen (14) of the monitoring wells had one (1) or more VOCs with decreasing statistical trends (Table 2). Nine (9) VOCs (benzene; chlorobenzene; 1,1-dichloroethane; cis-1,2-dichloroethene; 1,2-dichloropropane; methylene chloride; tetrachloroethene; trans-1,2-dichloroethene; vinyl chloride) had both decreasing and increasing trends. Three (3) VOCs had only increasing trends: 1,2-dichlorobenzene (OB03, OB11, OB11A); 1,4-dichlorobenzene (OB03, OB03A, OB04, OB04A, OB08, OB08A, OB10, OB11, OB11A, OB12, OB105); and 1,2-dichloroethane (OB11, OB12). Four (4) VOCs had only decreasing trends: chloroethane (OB03, OB03A, OB12), dichlorodifluoromethane (MW-13A, MW-13B, OB03, OB03A, OB10, OB11A), trichloroethene (OB01, OBO2A, OB08A, OB11A), and trichlorofluoromethane (OB11A).

Metals

Twenty-three (23) metals (total and dissolved) were identified as having increasing statistical trends, and twenty (20) of the monitoring wells had one (1) or more metals with increasing statistical trends (Table 1). Twenty-nine (29) metals (total and dissolved) were identified as having decreasing statistical trends, and twenty-nine (29) of the monitoring wells had one (1) or more metals with decreasing statistical trends (Table 2). The trend analysis does not indicate an overall trend of improvement or degradation in the groundwater quality with respect to metals concentrations. Beginning with the Spring 2015 sampling event, low-flow groundwater sampling methods were employed due to issues with high metal concentrations potentially related to high turbidity. Future data will be assessed to determine whether the reported concentrations of metals in samples collected using low-flow sampling methods are consistently lower than the concentrations reported using the old methodology. If such a difference is observed, the changed sampling methodology could result in artificial decreasing trends in total metals, which do not reflect changes in groundwater chemistry. If needed, the statistical methods used as part of the semi-annual groundwater evaluation could be modified to address such artificial trends. In order to conduct meaningful comparisons, it is recommended that a minimum of four (4) years of low-flow sampling (8 events) be collected before conducting hypothesis testing to compare the low-flow methodology to those obtained using three (3) well volume purge methods.

General Indicator Parameters

Twenty-five (25) monitoring well locations were determined to have statistically increasing trends for one (1) or more general indicator parameters (Table 1), and twenty-seven (27) monitoring well locations were determined to

have statistically decreasing trends for general indicator parameters (Table 2). Wells that did not exhibit statistically increasing general indicator parameters include MW-1B, MW-2B, MW-3A, MW-3B, MW-7, MW-11A, OB02, OB08A, OB015, OB025, and OB105.

REFERENCES

Gilbert, R.O. 1987. *Statistical methods for environmental pollution monitoring*. Van Nostrand Reinhold, New York.

Hollander, M. and D. A. Wolfe. 1973. *Nonparametric Statistical Methods*. Wiley, New York.

United States Environmental Protection Agency (EPA). 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance*. EPA/530/R-09-007. March.

Attachments:

Tables

Tables

Table 1
Chemical Constituents with Statistically Significant Increasing Trends
(2001 through March 2016)

GROUNDWATER MONITORING WELL LOCATIONS																														
Parameter	MW-2A	MW-4	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11B	MW-12	MW-13A	MW-13B	OB01	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB025	OB102	OB105	
1,1 Dichloroethane																													X	
1,2-Dichlorobenzene														X										X	X					
1,2-Dichloroethane																								X		X				
1,2-Dichloropropane																								X		X				
1,4-Dichlorobenzene														X	X	X	X					X	X	X	X	X	X		X	
Benzene																X	X					X	X	X		X	X		X	
Chlorobenzene																X	X	X				X	X	X			X		X	
cis-1,2-Dichloroethene																				X		X					X	X	X	
Methylene Chloride															X															
Tetrachloroethene								X																						
trans-1,2-Dichloroethene																											X			
Vinyl Chloride																								X		X				
Arsenic, total																	X													
Barium, dissolved			X											X																
Barium, total												X	X			X	X					X		X				X	X	
Cadmium, dissolved																									X					
Cadmium, total																									X					
Calcium, dissolved			X										X							X			X		X	X				
Calcium, total			X									X				X	X			X			X			X				
Cobalt, dissolved									X																		X			
Cobalt, total			X									X										X	X	X					X	
Copper, total																X														
Iron, dissolved			X																											
Magnesium, dissolved			X										X										X	X	X					
Magnesium, total			X									X											X	X	X					
Manganese, dissolved				X												X	X	X					X		X					
Manganese, total			X									X	X	X		X	X	X	X				X	X	X				X	
Mercury, total																				X				X					X	
Nickel, dissolved			X																											
Nickel, total			X									X	X			X	X						X	X				X	X	
Potassium, dissolved												X																	X	
Potassium, total												X											X						X	
Selenium, total																X	X	X	X	X				X					X	X
Sodium, dissolved			X									X								X				X						
Sodium, total			X				X					X								X				X	X					
Alkalinity																X		X	X								X			
Ammonia Nitrogen																X													X	
Chloride		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X			
Hardness	X											X	X			X	X						X	X	X					
Nitrate		X					X		X	X	X									X										
Nitrate+Nitrite		X					X		X	X	X									X										
Specific Conductivity, Field												X							X											
Sulfate, total		X	X		X		X		X		X								X	X	X	X		X						
Turbidity, Field															X															

- Notes:
- Monitoring wells MW-1B, MW-2B, MW-3A, MW-3B, MW-11A, OB02, and OB015 had no parameters with increasing trends
 - Existing monitoring wells MW-1B, MW-2A, MW- 2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A and MW-13B were first sampled in 2010.

Table 2
Chemical Constituents with Statistically Significant Decreasing Trends
(2001 through March 2016)

GROUNDWATER MONITORING WELL LOCATIONS																																				
Parameter	MW-1B	MW-3A	MW-3B	MW-4	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11A	MW-11B	MW-12	MW-13A	MW-13B	OB01	OB02	OB02A	OB03	OB03A	OB04	OB04A	OB06	OB07	OB07A	OB08	OB08A	OB10	OB11	OB11A	OB12	OB015	OB025	OB102	OB105		
1,1-Dichloroethane															X																					
1,2-Dichloropropane															X																					
Benzene													X					X	X												X					
Chlorobenzene																	X	X												X						
Chloroethane																	X	X												X						
cis-1,2-Dichloroethene															X	X	X						X													
Dichlorodifluoromethane													X	X				X	X									X		X						
Methylene Chloride													X																X		X					
Tetrachloroethene													X	X				X	X											X						
trans-1,2-Dichloroethene					X																															
Trichloroethene															X		X										X		X							
Trichlorofluoromethane																											X		X							
Vinyl Chloride													X	X	X																	X				
Arsenic, total																		X	X																	
Barium, dissolved		X					X					X						X	X													X				
Barium, total		X	X				X		X	X		X					X	X						X							X					
Cadmium, total																								X					X							
Calcium, dissolved	X	X						X				X																					X			
Calcium, total		X	X					X				X																					X			
Chromium, total		X								X																										
Cobalt, dissolved																				X																
Cobalt, total		X	X							X									X																	
Copper, dissolved												X														X	X	X	X	X					X	
Copper, total		X					X		X	X					X	X	X	X	X						X	X	X	X	X							
Iron, dissolved												X																							X	
Iron, total	X	X		X			X			X								X	X																	
Lead, total		X	X		X					X																								X		
Magnesium, dissolved	X											X																								
Magnesium, total		X								X		X																						X		
Manganese, dissolved			X					X	X																	X							X		X	
Manganese, total	X	X					X		X	X															X								X			
Mercury, total																																	X			
Nickel, dissolved																										X	X									
Nickel, total				X			X											X						X									X			
Potassium, dissolved			X									X																								
Potassium, total	X	X	X									X											X										X			
Selenium, total				X																																
Sodium, dissolved	X		X				X						X														X									
Sodium, total	X	X	X				X						X													X	X									
Vanadium, total			X							X																										
Zinc, dissolved																					X		X						X							
Zinc, total	X	X	X		X	X	X			X								X			X		X						X	X					X	
Alkalinity	X	X						X	X					X	X											X							X			
Chemical Oxygen Demand														X																				X	X	
Chloride							X																													
Hardness												X																					X			
Nitrate						X							X										X								X					
Nitrate+Nitrite												X											X								X					
ORP, Field									X		X														X									X		
Specific Conductivity, Field	X																																			
Sulfate, total			X																																X	
Total Dissolved Solids (TDS)			X	X								X	X	X					X	X	X	X		X				X					X	X		
Turbidity, Field					X					X										X	X	X	X	X				X						X		

Notes:
 1. Monitoring wells MW-2A and MW-2B had no parameters with decreasing trends
 2. Existing monitoring wells MW-1B, MW-2A, MW- 2B, MW-3A, MW-3B, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11A, MW-11B, MW-12, MW-13A and MW-13B were first sampled in 2010.