

2018-2020 Monitoring Report Jones Road Landfill Site

Part of Lots 1 and 2 Concession I, and Part of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora

Prepared for: The City of Kenora

Prepared by: Azimuth Environmental Consulting, Inc.

June 2021

AEC 20-020



June 10, 2021 AEC 20-020

City of Kenora Waste Management Department 60 14th Street Kenora, Ontario P9N 4M9

Attention: Mukesh Pokharel, P.Eng.

Environmental Supervisor

Re: 2018 - 2020 Report on the Monitoring Programs at the Jones Road Landfill

Site

Dear Mr. Pokharel:

Azimuth Environmental Consulting, Inc. (Azimuth) is pleased to present our report on the 2018 – 2020 monitoring program conducted at the Jones Road Landfill Site. In general, the monitoring data obtained over this period indicates that the landfill is not causing unacceptable impact on the surrounding environment, although leachate influence is measureable within the downstream surface water. This influence has been dominated by elevated boron concentrations, which had created Trigger Mechanism Program exceedances in 2016. With additional assessment of both the source and pathway, it was determined that it is sourced to leachate and possibly the ash material utilized in the cover material at the Site. The additional monitoring determined the migration pathway to be within the surface water flow within the wetlands of the Contaminant Attenuation Zone (CAZ). Stable conditions over the past few years and declining concentrations with distance from the waste mound have indicated that the current CAZ is adequate for the current Site conditions. The additional boron assessment also indicated that the PWQO value utilized for both surface water compliance and referenced in the creation of the trigger concentration is not the most representative criteria given its interim nature. As such, the Site surface water compliance for boron has been done relative to the Canadian Water Quality Guideline (CWQG) value which indicates that the Site is in compliance for boron. Similarly, a revised trigger concentration has been established for boron, which was originally proposed and submitted to the MECP in 2018. As formal endorsement of the revised Trigger



Mechanism values has yet to be received, it is requested that MECP provide comment on these revised values presented. Once approval or comment has been received, the City can submit an ECA amendment application to formalize the revised trigger program.

Beyond boron, the remaining data has shown general consistency with the historical dataset. Some minor increasing trends are noted in the ground water monitoring wells within the waste area, but given their location and a lack of similar trends noted in the downgradient locations, no leachate plume is migrating beyond the waste footprint area. The proposed monitoring program follows what is listed in the ECA with the inclusion of two additional surface water monitoring locations that have been implemented to refine the spatial distribution of leachate impacts downstream of the waste mound.

We would like to thank you for the opportunity to complete this project. If you have any questions or comments, please contact the undersigned.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

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Attach:

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1.0 INTRODUCTION & BACKGROUND

The following information is provided as a summary of previous investigations to allow the reader to review this report in context. For more complete information, the reader should review the original documentation (see Section 5.0 References).

1.1 Location

The Jones Road landfill Site is located immediately to the north of Highway 671 (Jones Road), and approximately 22 km northeast of the City of Kenora. Specifically, the Site is located upon Part of Lots 1 and 2 of Concession I, and Part of Lots 1 and 2 of Concession II, in the Townships of Pettypiece and Jackman, of the District of Kenora (Figure 1). Construction of the Site began on June 1, 2000, and was essentially complete by the end of the calendar year. The Site is operated by the City of Kenora Solid Waste Department and is licensed by the Ministry of the Environment, Conservation & Parks (MECP) to receive "domestic, commercial, non-hazardous solid industrial and institutional, processed organic sewage sludge, sludge from future municipal or provincial fresh water treatment facilities, non-pathological agricultural and bio-medical, and grit and screenings from street cleaning and sediment basin clean-outs" under Environmental Compliance Approval #A612018 (replaced ECA #A612016 (former MNR landfill)). Subsequent amendments to the ECA have occurred to reflect changes to the monitoring program and operations over the years, which included reductions in monitoring requirements and the addition of composting operations at the Site. These amendments, as well as other correspondence with the MECP have been included in Appendix B.

1.2 Geology

The Jones Road landfill Site is situated within an interconnected bog/wetland complex that is surrounded by various bedrock ridges and knobs. In 1996, the local Quaternary and bedrock geology was characterized by Fenco MacLaren Inc. (Fenco) during an extensive field evaluation of the property. During this evaluation, they observed that the overburden within the bog was stratified, with three predominant layers observed, each of which is discussed in more detail below.

1.2.1 Peat

The surficial material existing within the bog consists of a dark brown to black peat. Field observations of the material indicate that the peat is fibrous at surface, consisting primarily of undecomposed organic material (i.e., rootlets, leaf litter). With increasing depth, the material becomes more hemic (i.e., muckier) as the proportion of decomposed



material increases. The thickness of the peat within the bog was assessed through drilling and seismic monitoring by Fenco, and was found to range from essentially zero at the outer boundary to greater than 3 m at the center of the bog.

Testing of the vertical hydraulic conductivity of the peat was also conducted by Fenco during their evaluation. The results of this testing indicated a rate of $5x10^{-7}$ to $9x10^{-8}$ m/s under natural Site conditions, given a porosity range of 0.81 to 0.95. Simulation of the vertical stress that the waste will potentially have upon the peat was also assessed through consolidation of the material under pressures of up to 800 kPa. In response to compaction, the vertical hydraulic conductivity of the material was observed to decrease by approximately three orders of magnitude to $5x10^{-11}$ m/s. The application of vertical pressure upon the peat also resulted in a decrease in the porosity of the material to about 0.67.

The horizontal hydraulic conductivity of the peat was only estimated during excavation of the peat, and was inferred to be much greater than vertical, in the order of about 10^{-5} m/s.

1.2.2 Clayey Silt

A layer of clayey silt exists beneath the surficial peat. Colouration of this material is variable, and provides an indicator of the degree of weathering the material has undergone. Unweathered material within this layer is generally blue-grey, while the weathered material possessed a green-brown colouration. During drilling by Fenco in 1996, it was determined that the material becomes siltier with depth, and that several thin, discontinuous sand seams were observed within the profile. The thickness of this material was found to range from approximately 2 to 8 m.

As with the overlying peat, vertical hydraulic conductivity testing was conducted in natural conditions as well as under the simulated load of the waste (i.e., pressures of up to 800 kPa). This testing indicated a vertical hydraulic conductivity of $2x10^{-9}$ to $3x10^{-9}$ m/s under natural conditions, while under load, a decrease of approximately three orders of magnitude was observed ($8x10^{-12}$ m/s). The application of 800 kPa of pressure also resulted in a decrease in the void ratio of the material by two-thirds, suggesting that consolidation of the material will be relatively rapid in response to the increased loading pressure of the waste. This consolidation will result in a rapid increase in the tensile strength of the material; however it will also result in a substantial decrease in its permeability to the underlying sediments.



1.2.3 Silty Sand Till

A basal layer of silty sand till exists between the clayey silt layer and the bedrock. The till is locally gravelly, and possesses several discontinuous lenses and layers of sand throughout its profile. The material also appears more lacustrine in nature at sporadic locales throughout the Site. The thickness of this material underlying the bog at the landfill Site, as determined by Fenco, ranges from approximately 2 to 30 m. The hydraulic conductivity of the till was determined through field and laboratory testing to range from 2×10^{-5} to 4×10^{-8} m/s, with a geometric mean of 8×10^{-7} m/s. Average linear ground water velocity in this unit ranges between 1 and 50 m/year based on the results provided.

1.2.4 Bedrock

The bedrock is granodioritic in composition (Barnett, *et al.*, 1991), and occurs at depths ranging from surficial exposure to greater than 20 m (based upon drilling and seismic monitoring) (Fenco, 1996). The rock quality designation (RQD) of the bedrock was noted by Fenco during coring of the bedrock at three locations throughout the area. RQD ranged from 63% to 100% within the three locations, suggesting that the bedrock is not highly fractured. Hydraulic conductivity testing was conducted by Fenco upon two wells drilled into the bedrock, indicating a range of $4x10^{-7}$ to $9x10^{-8}$ m/s, with a geometric mean of $2x10^{-7}$ m/s.

1.2.5 Hydrogeology

Overburden ground water flow in the vicinity of the property is controlled by the bedrock topography. Active natural ground water flow is restricted primarily to within the till, with the bedrock forming a lower boundary to the overburden aquifer. As discussed above, the mean hydraulic conductivity of the till and bedrock (i.e. bulk hydraulic conductivity, K) units are 8×10^{-7} m/s and 2×10^{-7} m/s, respectively. The landfill is located near the top of a small, unnamed watershed. Ground water flow within this watershed is directed toward the northeast, parallel to the apex of a small bedrock valley (Figure 2). Flow rates range within the till range from 1 to 50 m/year. Leachate flow will be northeasterly with the migration of ground water toward an area of surface water existing immediately to the west of a culvert passing beneath Jones Road, at a distance of about 750 m northeast of the waste cells. Migration time of ground water from the landfill to the surface water within the peat is estimated at approximately 5 to 10 years. During the migration period, leachate contaminants will be attenuated and biodegraded.



1.2.6 Hydrology

As discussed in Section 1.2.5, the Site is near the top of a small, unnamed watershed that is situated between Crystal Bay (Silver Lake) to the north and Morgan Lake to the south. The watershed encompasses a total area of approximately 4 km², and ultimately discharges into Morgan Lake at a lateral distance of approximately 1.9 km southeast of the waste. Runoff from the area of the waste is directed primarily to the northeast through a bog/wetland complex toward a small surface water pond situated immediately upgradient of the Jones Road culvert. Surface water flow then continues northeasterly through a series of channels, bogs, wetlands, and beaver ponds a further 700 m before finally shifting southward toward the eastern end of Morgan Lake (1,600 m). Morgan Lake lies within the larger Nelson River drainage system that encompasses the Lake Winnipeg River system and its tributaries, including the Little Black Sturgeon River, which flows both into and out of Morgan Lake.

To the northeast of the waste cells, a depression is noted in the topography (known as "the saddle") that may allow for a portion of the surface drainage from the Site to migrate into Crystal Bay during spring freshet or in response to large precipitation events. Crystal Bay is located approximately 350 m north of the waste cells.

Along the southern extent of the Site parallel to Jones Road, a portion of the landfill property is situated within a second watershed to the south. Flow within this watershed drains southwesterly and ultimately into the western end of Morgan Lake (~450 m). To note, the boundary of this watershed lies greater than 50 m south of the waste cells.

2.0 SITE DESIGN & OPERATIONS

The Jones Road landfill began accepting construction and demolition wastes on November 27, 2000 to provide a stable footprint for the waste cells. The Site continued to collect these same waste materials through 2001 to 2009. As of November 18, 2009, the haul destination for all solid waste was revised from the Brady Road Landfill Site in Winnipeg, to the Jones Road Landfill. A summary of total annual quantities of waste received on a monthly basis at the Site over the period of 2018 - 2020 can be found in Appendix C.

The landfill has already filled sequence A-J, and is currently filling sequence K (~30% complete). It is noted that this sequence follows that outlined in the SNC-Lavalin monitoring plan (September, 1999) (Figure 3), while the final contours are provided in Appendix L, which is from the Design and Operations Plan (Fenco McLaren. 1997). The fill area is also illustrated spatially on Figure 4.



Based on scale readings from the incoming waste at the Site, the current waste mass as of December 2020 is 297,257 tonnes, or 37% of the total waste capacity (810,600 tonnes). The resulting remaining capacity for the Site based on average waste density and the final contour dimensions of the Site is 513,343 tonnes. Given the average annual waste acceptance rate from 2018 to 2020 of 25,700 tonnes, there is a remaining lifespan for the Site of approximately 20 years. It should be noted that this capacity may fluctuate over time based on the variance in annual acceptance volumes at the Site and future waste diversion programs. Further to the tonnage evaluation, the City undertook a waste mound volume survey in 2019 which represented a topographic survey of the entire waste in comparison to the proposed final grades at closure. Based on that evaluation, it was determined that only 26% of the capacity had been consumed relative the tonnage calculation for 2019 which was ~31% would indicate that the actual volume consumed is smaller than the annual tonnage evaluation would indicate. It is assumed that this is a function of achieving slightly higher waste density from the estimates that the tonnage and final contours are based on. Given the 2019 waste volume assessment indicated a remaining lifespan of 26 years, it is estimated that the expected remaining lifespan for the Site likely falls between 20 and 25 years at the end of 2020.

No complaints concerning the operation of the Jones Road Landfill Site were received by the City of Kenora over the period of 2018 – 2020.

2.1 Operation Changes

The Jones Road Landfill is currently being operated and filled in accordance to the requirements established in the ECA as well as the Design and Operations Plan (Fenco McLaren. 1997). There have been no significant changes in operations, sequencing, equipment, or procedures made or produced at the Jones Road Landfill. No operating difficulties have been encountered over the course of 2018 – 2020. The last change in operations at the Site was to implement composting operations at the Site in 2015, which was facilitated through an ECA amendment (Appendix B). Over the past five years, the City has begun to operate a small composting area within the approved waste footprint, although the operations thus far have been limited. The summary details required under the ECA amendment are to be submitted to the MECP under separate cover by the City, such that they will not be summarized in this report.

2.2 Cover Requirements, Erosion Protection

Over the period of 2018 - 2020, cover material was added as necessary to aid in grading and Site access. The City is currently utilizing a stockpile of soil on-site for cover material requirements, which represents a supply capable of serving the Site needs over



the next two years. Following that, the City has acquired an aggregate pit northwest of the landfill which can be utilized as a source of cover material. Additionally, dewatered sewage sludge is mixed with industrial ash and the above noted soils and the resulting material is used along the waste slopes within the footprint to cover the waste. No erosion was noted in over the period of 2018 - 2020, which is expected given that the landfill is at the midpoint in its lifespan (i.e. approximately half the height of the final design). Cover material and erosion protection material is inspected regularly by landfill staff and to date, there have been no issues.

3.0 SUMMARY OF 2018-2020 MONITORING PROGRAMS

The 2018-2020 monitoring of ground water and surface water was facilitated through the collection of field measurements and water samples for laboratory analysis by City of Kenora staff. Ground water samples were collected in May and August, while surface water samples were collected in May, August and October.

The locations of the sampling stations monitored between 2018 and 2020 are depicted upon Figure 4. In January, 2014 the ECA was amended to reduce the frequency of sediment sampling from 5 to 10 years, and removed thirteen monitoring wells (10/7, 12/4, 6/14, 7/4, 8/22, 9/6, 2/17, 13/6, 13/14, 14/6, 14/21, 15/5, and 15/17) from the sampling program. In addition, volatile organics were removed from the parameter list for all monitoring wells except for well 2/9. The above changes to the sampling program took effect at the start of the 2014 field season and have continued through the current monitoring period.

Additional monitoring was added beginning during the 2017 field season to address the boron trigger criteria exceedances at the Site with new locations RW-1, RW-2, RW-3, RW-4, and RW-5 implemented downstream of the waste mound (Figure 2). This was documented to the MECP in a letter dated April 13th 2018 (Appendix B).

The scope of the current monitoring program was based on the requirements outlined in the ECA (2014) for the Site with the revisions outlined above. The details of the current monitoring program are summarized in Table 1 below.



Table 1: Summary of the Required 2018-2020 Monitoring Programs

Monitor Location	Annual Frequency	Parameters
Ground Water		
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5, 11/4, 16/15, 17/15, 19/16, 23/3, KGS-2 and 24/5	May & August	comprehensive list
2/9	August	VOC's
Surface Water	•	
SW-1, SW-2, SW-3, SW-4, SW-5 (August only) & (RW-1, RW-2, RW-3, RW-4 & RW-5)*	August & October	comprehensive list
SW-1, SW-2, SW-3, SW-4 & (RW-1, RW-2, RW-3, RW-4 & RW-5)*	May	indicator list
SW-2 and SW-3	May, August & October	flow measurement
SW-2	August every 2 years	VOC's
Seep / Spring	Any sampling event observed	indicator list
<u>Sediment</u>	•	
SB-1, SB-2, and SB-R	August every 10 years (next in 2022)	major and minor inorganics
		& grain size

^{* -} additional temporary monitoring locations added in 2018 to address boron trigger exceedances (Section 3.5)

3.1 Monitoring Program Omissions

Over the 2018 – 2020 monitoring period a number of monitoring well samples were not available for analysis. According to the City's field notes, it was indicated that over the period of monitoring, some wells were either out of service (i.e. damaged or requiring repair), or did not contain an adequate supply of water for sample collection on one or more occasion, such that samples were not able to be collected. The following table summarizes these omissions.

Table 2: Summary of Ground Water Sample Omissions

Monitors	Date	Reason Not Sampled
MW11/4	28-May-18	Insufficient water for sample collection
MW11/4	22-Aug-18	Insufficient water for sample collection
MW5/17 & MW11/4	29-May-19	Insufficient water for sample collection
MW11/4	28-Aug-19	Insufficient water for sample collection
MW4/6	28-May-20	Out of Service for Repair
MW4/6	19-Aug-20	Out of Service for Repair

^{** -} Sediment monitoring requirements were revised to every 10 years (no sample during this monitoring period, next samples to be collected in 2022)

^{*** -} all water quality samples collected require field electrical conductivity and pH, while all surface water samples require dissolved oxygen measurements



It is noted that MW5/17 and MW11/4 have been noted to be dry historically. In all instances where dry monitors were encountered, similar conditions were observed historically. It is further noted that both MW5/17 and MW11/4 were noted to have sufficient water during the May and August 2020 monitoring event such that a representative sample was able to be collected. The monitor at MW4/6 was not sampled in 2020 as it was out of service due to it requiring extension given it is located in the active waste area. This well has been extended such that it will be back into service for the 2021 monitoring program.

Table 3: Summary of Surface Water Sample Omissions

Monitors	Date	Reason Not Sampled		
SW-3	22-Aug-18	Insufficient water for sample collection		
SW-5	28-Aug-19	Was missed during that sampling event		

Two surface water samples were unable to be collected: SW-3 in August of 2018 and SW-5 in August of 2019. According to City staff, insufficient water was available for sample collection at SW-3, while RW-5 was collected instead of SW-5 and RW-5. SW-3 has periodically been dry during the August monitoring events for the period of record. Samples have been collected at both locations at successive sampling events since, enabling a representative measurement to be collected.

3.2 Quality Assurance and Quality Control Results

As part of any routine sampling program, duplicate samples should be collected and analyzed for quality assurance purposes. Over the period of monitoring, four quality assurance/quality control (QA/QC) samples were collected during four of the monitoring events (June 2018, August 2018, May 2019, & August 2020). The results were within acceptable limits with only some minor exceptions which are summarized in Table 3 which exceeded a 40% variance.

It should be noted that the results for the remaining parameters for each duplicate sample collected indicated very good correlation. As well, the inconsistencies observed were relatively small, within historical ranges and are notable mainly due to the very minimal and un-impacted concentrations at all duplicate locations. The larger variance is noted for parameters that are analyzed from the nutrients bottle (TKN, COD & total phosphorus) which are acidified such that sediment entrainment can have more of an influence on parameter concentrations between sample bottles. Similarly, filtering for metals was not completed during the May 2019 sampling event such that sediment has influenced the results similar to how the nutrients are as the metals bottle is acidified.



The elevated TSS concentrations in these samples would support this potential. As such, although some inconsistencies are present, the general indication is that the majority of the results are consistent and generally acceptable such that there is confidence in the quality of the laboratory data.

Table 4: Summary of Notable QA/QC Variations

Dawamatan	SW-1	MW24-/5	MW 3/8
Parameter	August 2018	May 2019	August 2020
Copper	0.0008 / 0.0015		0.00055 / 0.00098
BOD	12 / 25		
TSS	125 / 60		152 / 1140
Arsenic		0.0021 / 0.0039	
Boron		0.22 / 0.14	
Cadmium		0.00021 / 0.00011	
Chromium		0.015 / 0.037	
Iron		10 / 24	
Mercury		0.000004 / 0.0000081	
Lead		0.052 / 0.012	
Zinc		0.3 / 0.072	
Manganese			0.00241 / 0.00147
TKN			0.15 / 0.24
Total Phosphorus		0.27 / 1	0.48 / 0.13
Phenols		0.0025 / 0.0091	
COD			61 / 36

^{* -} all concentrations in mg/L

In the future, it is suggested that field staff ensure that the unfiltered bottles of all duplicate samples are "split" to minimize any potential natural variation in water chemistry (i.e. sediment load). As well, it should be ensured that at least a single duplicate sample is collected during each monitoring event.

3.3 Ground Water & Leachate (Schedule "F")

During sampling over the monitoring period, water level measurements were obtained by City staff prior to any disturbance of the piezometric surface within each monitor using an electronic water level meter (accuracy of +/- 0.5 cm) as per Condition 2.4, Schedule F, of the current ECA. Ground water samples were then collected following purging of at least two borehole volumes of water from each monitoring well using dedicated check valve pumps and tubing. All ground water samples for metals analysis were also lab filtered, with the exception of the May 2019 data due to a miscommunication with the laboratory with respect to filtering requirements.



Maxxam Analytics Inc in Mississauga & Winnipeg completed the analytical work for all of the 2018 sampling events in addition to the May 2019 sampling event. ALS Environmental in Thunder Bay completed the analytical work for the August & October 2019 sampling events in addition to all of the 2020 sampling events. Both laboratories provided all sample bottles, which were prepared with preservatives for consistency, as required. Samples were maintained in coolers with freezer packs and were delivered to the required laboratory within 24 to 36 hours of collection. A summary of the current and historic analytical data is included in Appendix D.

3.3.1 Ground Water & Leachate Flow

Ground water measurements taken over the current monitoring period were compared to background data observed by Fenco during installation of several of the existing monitors in 1996. As detailed in Appendix E, in many locations the maximum ground water elevation value recorded over the 2018 -2020 monitoring period is below the value recorded in 1996, with the exception of MW2/13 and MW3/8, which have both consistently been close to slightly above the historic reference point since 2003. However in general the most recent water level data corresponds well with the available background data, indicating that ground water elevations in both the overburden as well as the shallow bedrock have remained relatively stable. In particular, the water level appears to have stabilized at MW19/6 between 2014 and 2020. Prior to 2014 the water level at this location was inconsistent, and was either dry or contained water at the ground surface. A greater deal of variability is noted in the more elevated locations to the south / southwest (MW5/17 & MW11/4) and lower locations to the north beyond the saddle (MW14/6 & 14/21), while the locations within and immediately surrounding the waste area are the most consistent. This is somewhat expected given the topography in this area.

Active ground water flow occurs within the till and is constrained by the bedrock surface, which forms a physical barrier to further vertical migration of ground water (i.e., like a bathtub). Within the bog, low topographic relief exists, as indicated by a surface elevation change of less than 2 m between the waste and the small pond at SW-1 (a total distance of ~750-800 m). For descriptive purposes, the water table elevations measured at all ground water monitors in August of 2019 have been included upon Figure 5. As can be observed, the slope of the water table corresponds well with the orientation of the local topography, with large lateral hydraulic gradients occurring at watershed boundaries represented by topographic / bedrock highs (i.e., up to 0.24) and lower gradients occurring within the bog (i.e., as low as 0.001).



A watershed divide exists to the northeast of the waste footprint, between monitors 2 and 13 (see Figure 4). This divide is due to a rise in the elevation of the bedrock topography related to the surrounding topographic highs to the east, west, and north that exist beneath the bog. Within this watershed divide, there is an area which is referred to as the "saddle" area. The saddle represents a depression in a bedrock ridge that extends to the northeast. Monitoring wells are located in and around this feature (Figure 4 & 5) to determine ground water flow directions and gradients. With the exception of May 2007, ground water elevations within the saddle have been elevated above those to the south by at least 0.15 m since 2002, and was at least 0.36 m over 2018 - 2020 (Figure 6) indicating there is a limited potential for leachate migration past this feature. It is unclear as to why the gradient reversed during May 2007.

3.3.2 Background Ground Water Quality

Background water quality is measured within MW11/4 (overburden) and MW5/17 (bedrock). The background ground water geochemistry at the Site is characterized by relatively low concentrations of most parameters (Table 4). Natural waters dissolve low quantities of elements through reaction with the soil minerals. Iron is derived through chemical weathering of soil and rock minerals and naturally occurs at levels approaching or greater than the Ontario Drinking Water Quality Standards (ODWQS). During the recent period of monitoring (2018 – 2020) the background overburden monitor MW11/4 was dry during six out of the eight monitoring events. However, for the two 2020 monitoring events, all parameters (with the exception of pH and alkalinity) fell within the historical range. The measured pH value of 6.38 in August of 2020 was slightly below the ODWQS of 6.5 to 8.5 and slightly below the historical range of 6.54 to 7.89. This variation is inferred to represent natural variation in water chemistry and is not interpreted to represent leachate influence.

All parameters at the background bedrock monitor (MW5/17) were below the ODWQS during the recent period of monitoring (2018 - 2020). Some additional parameters (zinc, alkalinity, conductivity, and phenols) were slightly higher than the historical range but this variation is not considered significant given the relatively low concentrations.

Time trend graphs have been included in Appendix F, which illustrate the consistency for the period of record for both these background locations, with the exception of the anomalous data discussed above. The table below provides a summary of the background water quality for the period of record.



Table 5: Background Chemistry

	Ca	Mg	Na	Cl	Alk.	SO4	NH3-N	TKN	Fe	Cond.	TDS
OWDS			20 or 200	250	30-500	500	org N=0.15		0.3		500
Overburden											
# of samples	25	25	25	24	25	24	25	5	25	25	25
Maximum	51	16	11	20	130	60	6	1	30	248	1750
Average	12	4	7	3	45	7	0.3	1	1	98	285
Minimum	6	2	4	1	30	3	0.01	0.18	0.01	57	10
STD	10	3	2	5	19	11	1	0.4	6	33	412
Bedrock											
# of samples	26	26	26	25	26	25	26	18	26	26	26
Maximum	33	48	42	8	106	10	0.12	1	5	216	184
Average	23	6	5	1	83	3	0.05	0.3	0.3	166	124
Minimum	14	3	3	1	53	1	0.01	0.06	0.01	139	92
STD	4	9	8	2	11	2	0.03	0.3	1	17	24

All values are given in mg/L. Overburden data are from monitor 11/4 and bedrock data is from monitor 5/17.

(STD = standard deviation, nd = not detected, n/a = not applicable, nt = not tested)

3.3.3 Leachate Quality

Leachate quality is controlled by the availability of soluble contaminants in the waste pile, the residence time of infiltrating water in the waste, and the physical conditions, such as temperature, redox potential, and pH of the solution. Compared to background waters, leachate that is produced from landfill waste typically possesses elevated concentrations (x10 or more) of magnesium, sodium, potassium, iron, zinc, chloride, alkalinity, ammonia, total kjeldahl nitrogen, conductivity, total dissolved solids and phenols. Since municipal wastes have only been accepted for a short time, and there is no dedicated leachate monitoring well, the ground water data from the monitoring wells in and around the active waste area can be used. With the current waste placement (Figure 4), the most representative leachate ground water monitor locations are MW1/17, MW23/3, MW24/5 & KGS/2, although a variable leachate influence is observed both spatially as well as over time, which is reflective of the active filling area.

Over the current monitoring period (2018 to 2020) some parameters (manganese, iron, DOC, total dissolved solids, and alkalinity) are consistently higher than background water, historical conditions, and the ODWQS. Two of these parameters (total dissolved solids and alkalinity) are considered leachate indicators, while manganese is typically associated with construction and demolition waste. Although still under their respective ODWQS limit, some leachate indicator parameters (boron, calcium, ammonia & chloride), displayed increasing trends at one or more of the representative leachate monitoring wells over the current monitoring period. The increasing trends at MW23/3 and MW24/5 appear to begin around the end of 2014 while the increasing trend at KGS/2 appears to begin at the start of 2020.

Despite the measurable influence, the concentrations are noted to be minimal relative to dedicated leachate monitors at most landfill Sites with ammonia concentrations being



<10 mg/L and chloride being <100 mg/L. The time trend graphs provided in Appendix F indicate variability of leachate impacts, although concentrations are more elevated during the current monitoring period, which is reflective of the expanding waste mound at the Site. The variability likely is reflective of the progression of the waste area such that impacts are more measurable when the active area is closest to the monitoring location. This is evident through the increasing concentrations at MW24/5 and MW23/3 as the southern fill area progresses north east.

3.3.4 Downgradient Ground Water Quality

As in previous years, the 2018 - 2020 analytical data do not indicate that leachate generation from the waste has resulted in impact to ground water quality either immediately downgradient (MW2) of the waste or at any of the other monitors installed within the Contaminant Attenuation Zone (CAZ). Since the landfill commenced operation in the spring of 2001, the concentrations of parameters at all downgradient monitoring locations have remained at or very slightly above background levels, as can be observed in the time series graphs provided in Appendix F. These conditions are somewhat expected given the limited permeability of the overburden and bedrock beneath and downgradient of the waste area.

It should be noted that the ODWQS are met at all downgradient locations with the exception of some metal parameters (i.e. iron & manganese). Although these parameters are also elevated in the leachate wells located with the waste footprint, no other more definable leachate indicator parameters (i.e., alkalinity, chloride, boron, ammonia) are observed to be elevated such that their source is considered natural. This is further supported by the fact these are both natural earth elements with exceedances noted in the background locations on occasion.

A suite of volatile organic compounds (VOC's) was analyzed at MW2/9 and SW-2 annually (August) during the current monitoring period (2018 – 2020). A single trace detection of toluene (0.0018 mg/L) was noted at SW-2 in 2018, however below the ODWQS limit of 0.024 mg/L and PWQO limit of 0.008 mg/L. Given subsequent monitoring events did not indicate detection for any VOC parameter, the 2018 value is likely anomolous. All other VOC parameters for the monitoring period were below the laboratory detection limits. A summary of detected VOCs between 2001 and 2020 can be found in Appendix G.

3.4 Surface Water (Schedule "C")

City staff collected surface water samples in May, August and October during 2018 to 2020, with the analytical data have been summarized and are included in Appendix H.



3.4.1 Surface Water Flow

Surface water from the area of the waste flows in a northeasterly direction through a large bog/wetland complex before eventually discharging into a pond at the west side of the Jones Road Culvert (SW-1) that serves as the headwaters of an unnamed creek. Discharge into the pond from the bog includes both surface flow and interflow within the peat.

From the pond, the creek flows beneath the roadway and in a northeasterly direction for approximately 700 m, before turning southward and eventually discharging into a further bog/wetland complex south of a logging road about 800 m upgradient of Morgan Lake (SW-2). Along its route, the creek is discontinuous as it passes through various bogs, wetlands, and beaver ponds. Periodic discharge from the Lunch Lake sub-watershed commingles with flow in the creek, providing additional flow at SW-2.

Approximately 150 m northwest of the waste footprint, a depression is noted in the landscape, known locally as the "saddle". This area allows a portion of surface drainage to migrate into Crystal Bay during spring freshet or in response to large precipitation events. Crystal Bay is located approximately 350 m north of the waste cells. Figure 2 shows the Site's hydrologic features.

Estimates of stream velocity were made by City Staff at SW-1, SW-2, SW-3, and SW-4 during the May and October sampling periods and at SW-1, SW-2, SW-3, SW-4 and SW-5 during August, as per Condition 2.4, Schedule C of the current ECA. Flow velocity measurements are summarized in the following table. As in previous years, flows are shown to be low and intermittent.

Table 6: Surface Water Flow Velocity Data

	Velocity (m/sec)										
Location		2018		2019			2020				
	May	Aug	Oct	May	Aug	Oct	May	Aug	Oct		
SW-1	0.09	0	0.15	0.37	0.21	0.18	0.18	0.15	0.18		
SW-2	0.12	0	0.09	0.09	0.12	0.12	0.15	0.12	0		
SW-3	0	0	0.11	0	0	0	0	0	0		
SW-4	0	0	0	0	0	0	0	0	0		
SW-5	-	0	-	-	0	0	-	0	-		



3.4.2 Surface Water Quality

Surface water quality data obtained over 2018 -2020 were compared to the background quality data obtained at SW-1 and SW-2 prior to the construction of the Site in 2000, as well as to the Provincial Water Quality Objectives (PWQO). In general, the surface water quality has shown to become leachate influenced over the past several years with elevations in a number of leachate indicator parameters, including boron, alkalinity, ammonia and chloride. These trends, as illustrated in the time-trend graphs (Appendix I) have been gradual but consistent over the past ten years, with the exception of boron, which has shown a sharper increasing trend between ~2011 and 2016 at SW-1 and SW-2. Similar boron trends have not been observed at any of the other surface water locations during this period including SW-5 which represents the furthest downstream monitoring location where water from the wetland complex discharges into Morgan Lake. Elevated concentrations have been noted at SW-3 during 2020, along with other leachate parameter concentrations similar to that at SW-2. However, the City's field notes indicate that beaver dams near SW-2 and SW-3 prevented flow into the Morgan Lake wetland area from Lunch Lake, and that the sample is more reflective of the Morgan Lake wetland and associated leachate influence than water quality contributions from Lunch Lake as is historically characterized at SW-3. As such, these conditions should continue to be documented during sample collection and the SW-3 sample should target surface water upstream of beaver dam so it is reflective of the contributions from Lunch Lake.

With the exception of boron, the remaining water quality parameters indicate a reduced but measurable influence downstream of the landfill with elevated alkalinity, ammonia, chloride, sulphate and TDS; however the concentrations are shown to be reduced with distance from the landfill indicating attenuative processes are active with declining concentrations between SW-1 and SW-2 further downstream within the wetland complex. The concentrations at SW-5 do not indicate leachate influence within the receiving water body Morgan Lake, such that the CAZ is adequate for attenuation of leachate impacts at the Site.

Aside from the boron exceedances of PWQO, iron, total phosphorus, phenols, pH, zinc, lead and unionized ammonia have exceeded PWQO during the current monitoring period. However, with the exception of unionized ammonia, which only exceeded at a single occasion (May 2020) at SW-1 (0.03 mg/L), the parameters are naturally sourced as elevated and exceeded concentrations have been found both historically at SW-1 and SW-2 prior to landfilling was initiated and in background locations SW-3 & SW-4. Elevations of these parameters are expected in wetland conditions with shallow, stagnant water conditions, which routinely result in elevated suspended solids being collected in



the bottles, which can artificially elevated parameter concentrations for total phosphorus and metals (iron & zinc), while also provide a natural phosphorus source though decay of organic material.

Despite these elevations, caution should be exercised when evaluating boron compliance with PWQO. Given the interim nature of the PWQO criteria for boron MECP Standards Branch was contacted to discuss the supporting information with respect to this parameter given its interim designation. It was communicated that given the limited toxicology dataset that was utilized during development of the PWQO criteria that the Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life (CCME, 2003) value would be more appropriate to use as it utilized a more robust toxicological dataset and was developed by the MECP. The CWQG is based on impacts to Bluegill (*Lepomus macrochirus*) and rainbow trout (*Oncorhynchus mykiss*), which are reported in Rainy River District. The CWQG value for boron for long term exposure is 1.5 mg/L and includes conservative factors to be protective of aquatic species.

Given the elevated boron concentrations in the downstream surface water and associated historical trigger exceedances noted in Section 3.5, additional analysis of boron was completed including assessment of the source and pathway between the landfill and downstream water quality. It is noted that this was documented in previous correspondence with the MECP (Appendix B).

It is understood that boron is potentially contained in a number of construction and demolition (C & D) wastes as both a fire retardant (wallboard) and preservative (treated wood), but the amounts and leaching potential for these materials is not well understood. As such, some common C & D wastes were assessed at the Site in 2018 for leachable boron content. The City isolated these wastes (pressure treated wood, wallboard and particle board) in separate plastic tote containers on site such that they were exposed to local conditions and that these containers collected the leached rainfall from these materials between spring melt and midsummer. Subsequent water samples were collected and analyzed for boron. The results, which are summarized in the following table indicate that the primary source is treated wood products, which is helpful from an operations perspective. In the event the boron concentrations continue to increase, these materials could be isolated from the remaining waste stream such that they are covered to reduce leaching or situated in an area where runoff can be more readily contained such that it is not allowed to discharge into the adjacent wetland area. Despite these potential operational changes, no formal recommendations are being made at this time as the data collected thus far the surface water locations would indicate that conditions have



stabilized, while the proposed revisions to the compliance criteria would indicate that the current boron concentrations are not unacceptable at this time.

Table 7: Boron Source Concentrations

Material Source	Concentration (mg/L)
Particle Board	0.53
Wall Board / Dry Wall	0.85
Pressure Treated Wood	9.1

Further to the above noted source material, the landfill cover material was also analyzed to assess potential boron contributions as ash material received from the Weyerhaeuser Timberstrand Facility. The ash material has been utilized at the Site for cover material with mixing with other soils prior to application both in the active area for daily cover and interim cover at various locations across the waste mound. The ash material itself indicated boron concentrations of 145 to 779 $\mu g/g$, while the soil analysis from the cover / capping material across the waste mound indicated a range of 1.5 to 280 $\mu g/g$ which is reflective of the variance in mixing of the ash and soil that is utilized across the Site. Given the background concentration documented in O.Reg. 153/04 (Table 1 - Background) is 36 $\mu g/g$ for boron, the ash could represent a meaningful source for boron entering the downstream surface water.

In addition to the boron source assessment, additional monitoring locations were implemented to determine the boron migration pathway. Given the lack of leachate seeps at the waste mound and flow channels present between the landfill and SW-1, a total of three locations were initially targeted in 2017 at various distances from the waste mound. As illustrated on Figure 2, RW-1 is located adjacent the MW-20, RW-2 is located adjacent to MW-2/13 and RW-3 was located between MW-20 and MW-21. It is noted that these locations were targeted by City staff based on sufficient depth to facilitate a representative sample. There are no defined flow channels in this area and surface water migration is assumed to be braided based on local subtle topographic variation.

In addition to the surface water monitoring, ground water samples were also collected from MW-7/4 and MW-21/7 in October 2017 to assess the potential for migration of the boron impacts within the shallow ground water. This was proposed as the closest monitoring wells downgradient of the waste (MW-2 nest) are relatively deep wells (9 & 13 m), while MW-7/4 and MW-21/7 had been removed from the monitoring program in 2012 due to a lack of observable leachate influence within the ground water within the waste area.



The results from these two locations have been included in Appendix D. It is noted that the water quality has remained consistent with that collected historically with no observable leachate influence and boron concentrations were below or near detection limits (<0.02 mg/L at MW7/4 & 0.021 mg/L at MW21/7).

The results of the 2017 surface water sampling indicated boron concentrations were elevated at all three of the new surface water sampling locations (RW-1, RW-2, and RW-3). To further delineate the source area, two additional surface water locations (RW-4 & RW-5) were added to the 2018 monitoring program. RW-4 is located between MW2 and the bedrock ridge to the south, and RW-5 is located at the outlet of the wetland tributary at Morgan Lake. The purpose of RW-4 was to refine the surface water migration pathway in close proximity to the waste mound, while the purpose of RW-5 was to refine the water quality of Morgan Lake near the outlet of surface water from the Site CAZ.

Nineteen (19) samples have been collected at the additional surface water locations (RW-1 to RW-5) since 2017. The results have been included in Appendix H. The PWQO was exceeded regularly at all locations for boron, iron, total phosphorus, unionized ammonia, and phenols, and on one occasion for lead, zinc, and copper at RW-4 in August of 2020.

The results indicate that the most significant elevations are found at RW-2 immediately adjacent to the waste mound. At this location, boron ranged between 1.36 -6.40 mg/L, chloride ranged between 62 – 237 mg/L, and unionized ammonia ranged between 0.37 – 2.50 mg/L. The boron concentration at RW-2 was above the limit described in the Canadian Water Quality Objective (CWQO; 1.5 mg/L for long term exposure) for six sampling events. Significant concentrations of boron, chlorine, and unionized ammonia were also noted at RW-4 for the single event sampled at this location (August 2020) indicating that impacts are also migrating from the waste mound south of RW-2.

Overall the concentrations at these locations indicate a decline with distance from RW-2, to RW-1 to RW-3 to RW-5, which relates to a similar decline noted at the permanent locations from SW-1 to SW-2 to SW-5. These trends and overall water quality would indicate that leachate impacts are present in the surface water of the CAZ, although attenuative processes are active, which help reduce the concentrations before exiting the CAZ. The elevated boron concentrations are likely sourced to leachate and potentially the ash material used in the cover material, although it is difficult to refine the relative source given the overall leachate impacts within the surface water. The other item of note is the stability in concentrations for boron at these new locations over the past five years. Although some slight upward trends are evident for some indicator parameters, the boron concentrations would appear to have reached a steady state, possibly reflective



of the solubility within the waste and / or ash material. During the current monitoring period, the Site is considered in compliance for surface water as the PWQO exceedances at the downstream locations (SW-2) are determined to be naturally sourced, while the boron concentrations are found to meet the CWQG criteria.

Despite this, mitigative strategies have been employed by the City to help address the elevated boron concentrations which include decreasing of the active the working area, shifting the active area further back from the downgradient toe in a new cell area, increasing the amount of cover material at the downgradient end of the waste mound and limiting the use of the ash material in areas of the waste mound which runoff would be directed into the wetland. This would generally limit the use of this material to the active working. Continued monitoring will help to assess the effectiveness with these operational changes.

3.5 Trigger Mechanism Assessment

The Trigger Mechanism and Contingency Plan for the Site was revised and submitted and approved by the MECP in 2014. However, with the trigger exceedances documented in 2016 for boron within the surface water and further assessment of the source and migration pathway, a revised trigger program had been proposed to the MECP in the in 2018 Trigger Mechanism Exceedance Monitoring Summary (Azimuth, 2018 – Appendix B). The revision was mainly to reflect a new reference concentration for boron. The previous trigger concentration was based on the PWQO value of 0.2 mg/L; however, as noted in Section 3.4, the CWQG value of 1.5 mg/L is the more applicable criteria, which is endorsed by the MECP Standards branch. With the exception of boron in surface water, all other trigger criteria has been maintained from the approved 2014 trigger program as summarized below.

The targeted parameters and associated trigger concentrations for ground water are summarized in the following table.

Table 8 Trigger Limits – MW3/8

Parameter	ODWQS	Background*	Trigger Limit at MW3/8	Maximum Concentration at MW3/8 (2018-2020)
Chloride	250	1	126	1.6
TDS	500	83	324	174
Alkalinity	500	124	284	89

^{* -} average concentration from Table 5

It is noted that all concentrations at MW3/8 for these parameters have been less than the associated criteria for the reporting period (2018-2020). Although not identified



originally as a trigger location, it is noted that the other downgradient monitoring well to the east (MW6/5) has shown similar compliance.

The trigger limits were also created for surface water at SW-2, as well as action criteria at SW-1, which is in place to provide additional review of the geochemical data to assess any potential trends prior to trigger limits being exceeded at SW-2. The criteria established are summarized in the following table.

Table 9: Surface Water Trigger Limits

Parameter	Background (SW-3)*	Action Level at SW-1	Maximum Concentration at SW-1 (2018-2020)	Trigger Limit at SW-2	Maximum Concentration at SW-2 (2018-2020)
Chloride	1.9	158	49	187	25
Boron	0.02	3.0**	1.2	1.5***	0.42
Ammonia (unionized)	0.0005	0.8	0.0398	0.02	0.013

^{* -} historical average

Although the historical trigger exceedance concentrations for boron were exceeded during this monitoring period, the revised values indicate compliance along with unionized ammonia and chloride. As formal endorsement of the revised values has yet to be received, it is requested that MECP provide comment on these revised values presented here and in the January, 2018 correspondence (Appendix B). Once approval or comment has been received, The City can submit an ECA amendment application to formalize the revised trigger program.

Beyond the water quality trigger criteria outlined above, there are also triggers established for ground water elevations at the Site in the "saddle" area (MW11/4, MW16/15 & MW19/16) and along Jones Road (MW5/17). These triggers are identified in Appendix E and reflect elevations where if exceeded, ground water flow patterns might flow north and south respectively. As identified in the data presented in Appendix E, all ground water elevations for the current monitoring period are well below the trigger elevations such that the Site is currently in compliance with respect ground water elevations.

^{** -} former (2014) value 0.8 mg/L

^{*** -} former (2014) value 0.2 mg/L



3.6 Sediment (Schedule "D")

In May of 2013, the ECA was amended to reduce the frequency of sediment sampling from 5 to 10 years. The last sediment samples were collected in 2012, while the next scheduled sediment sampling event is not until 2022. As such no sampling data is included in this monitoring period.

3.7 Biological Effects (Schedule "E")

Benthic invertebrate monitoring was conducted from 2000 to 2003. The need for continued or additional benthic monitoring is not necessary, since the minimum of three (3) years of sampling, as stated in the ECA, has been fulfilled. As requested during the 2013 MECP inspection, the data from these previous studies has been included as an appendix for completeness (Appendix K).

3.8 Landfill Gas (Schedule "G")

Landfill gas was previously required according to the ECA Schedule "G" on a bimonthly basis during frozen ground conditions and quarterly during all other periods at the two proposed landfill gas monitors outlined in the SNC-Lavalin monitoring plan (September, 1999). Landfill gas was removed from the monitoring program as documented in the MECP document dated April 23, 2013, however, as required in the letter, the monitoring locations were maintained for future use.

Although the potential for methane generation has increased with the commencement of domestic waste deposition at the Site in 2009, the limited size of the waste mound and relative small waste acceptance rate would still limit the methane generation at the Site. As well, the geochemical signature of the landfill leachate, which is most notable at MW1/17 (downgradient edge of waste) and MW23/3 and KGS-2 (middle of waste) still have a relatively low leachate signature with chloride concentrations less than 150 mg/L. Given these conditions, significant methane production has not likely yet developed at this point. However, some leachate signature parameters are noted to be increasing within the waste footprint. This trend will be assessed as part of the next monitoring report, which is to be submitted in 2024. This time frame is deemed to be appropriate given the remoteness of the Site limits the potential for risk to the nearest residents. However, if a significant increasing trend in leachate concentrations develops in the interim, the City will conduct a round of methane measurements to document landfill gas concentrations such that an assessment regarding re-instatement of measurements as part of the monitoring program is necessary.



3.9 Geotechnical Monitoring (Schedule "H")

As required in Schedule "H" of the ECA, shear testing is required to be completed by a geotechnical engineer prior to filling in areas of Cell A. The last testing was completed in 2020 and 2021. The purpose of the testing was to determine the in-situ shear strengths and pore water pressures along the east side of the landfill in order to confirm any changes from previous geotechnical information obtained in 2014 with the filling of this area being completed over the past six years. Eng-Tech drilled two (2) boreholes, while previously installed piezometers were monitored at eight (8) locations.

According to the Eng-Tech reports, the in-situ shear strength values obtained in 2020 ranged from 24 to 56 kPa and are above the minimum recommended 5.5 kPa value by R. Kerry Rowe Inc. in their report *Kenora Landfill* dated February 21, 1997. As such, Eng-Tech concluded that based on the soil stratigraphy and the shear strength values obtained on site, the 2020 results are in compliance with the values as stated in the previous Reports. Eng-Tech also supports the loading as recommended in the R. Kerry Rowe Inc (1997). Similarly, it was stated in 2021 that the ground water levels have not significantly changed for all of the piezometers over the history of loading of the landfill, such that the shear strength values that were measured are unchanged.

The complete Eng-Tech reports can be found in Appendix N.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Operation of the City of Kenora Jones Road Landfill Site is in compliance with the ECA and is performed as designed. The Site is generating leachate which is observed in the downstream surface water of the CAZ, although all applicable criteria are met within the receiving water body Morgan Lake. The Trigger Mechanism Program was exceeded in 2016 for boron within the surface which led to additional assessment of both the source and pathway for this parameter. With this assessment and additional monitoring completed over the current monitoring period, it was determined that the boron source is likely associated with leachate and / or the ash material utilized in the cover material for the waste mound. However, review of the compliance criteria for boron indicated that the CWQG value is more appropriate than the interim PWQO value. As such, review of the boron concentrations relative to the CWQG would indicate that the Site is in compliance with respect to boron within the current CAZ, while the Trigger Mechanism Program values for boron have been revised to reflect the CWQG reference. When incorporating these values, the Trigger Program is met. As well, the boron concentrations over the current monitoring period have shown to be stable indicating that the boron concentrations would appear to have reached a steady state, possibly reflective of the solubility within the waste and / or ash material. The City has undertaken some



mitigation measures to help to reduce leachate / boron contributions to the downstream surface water, including decreasing of the active the working area, shifting the active area further back from the downgradient toe in a new cell area, increasing the amount of cover material at the downgradient end of the waste mound and limiting the use of the ash material in areas of the waste mound which runoff would be directed into the wetland. This would generally limit the use of this ash material to the active working. Continued monitoring will help to assess the effectiveness with these operational changes. However, given these conditions and revised compliance criteria no additional mitigation measures are being proposed. As formal endorsement of the revised Trigger Mechanism values has yet to be received, it is requested that MECP provide comment on these revised values presented here and in the January, 2018 correspondence (Appendix B). Once approval or comment has been received, The City can submit an ECA amendment application to formalize the revised trigger program.

The boron trends and elevated concentrations in the downstream surface water quality do illustrate the primary leachate migration pathway is currently within the surface water of the wetland feature downgradient of the Site. Despite this, attenuative processes are active such that leachate indicator parameters show a meaningful decline in concentrations with distance from the landfill, while concentrations within the downstream receptor (SW-5 – Morgan Lake) are similar to background indicating no observable leachate influence is present.

Finally, limited impacts to the ground water regime continue to be observed and are shown to be increasing only within either the landfill footprint or at monitors situated immediately downgradient of the waste cells such that the current CAZ is considered adequate given the current ground water conditions. These results support the primary leachate migration pathway as being through surface flow within the downstream wetland.

4.1 Proposed 2021 -2023 Monitoring Program

It is recommended that the 2021 – 2023 monitoring program for the City of Kenora Jones Road Landfill Site remains the same as the current program, which will follow the current ECA No A612018. The additional surface water locations added in 2017 (RW-1, RW-2, & RW-3) and 2019 (RW-4 & RW-5) were implemented to assess the leachate / boron migration pathway. Based on the results collected and the fact the trends correlate to the historical locations SW-1 and SW-2, it is proposed that only two are of these locations are maintained. RW-2 is proposed to be maintained as it is located immediately adjacent to the waste mound such that it would be the best location to indicate any changes to leachate / boron contributions to the downstream surface water quality. This



location has also shown to have the most consistent water level to facilitate routine sample collection. RW-5 will be maintained as it will allow of a better indication of the water quality at the downstream end of the CAZ such that potential impacts to Morgan Lake can be assessed. The proposed monitoring program is summarized in the table below.

Table 10: Summary of the Required 2021-2023 Monitoring Programs

Monitor Location	Annual Frequency	Parameters
Ground Water		
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5, 11/4, 16/15, 17/15, 19/16, 23/3, KGS-2 and 24/5	May & August	comprehensive list
2/9	August	VOC's
Surface Water		
SW-1, SW-2, SW-3, SW-4, SW-5 (August only), RW-2* & RW-5*	August & October	comprehensive list
SW-1, SW-2, SW-3, SW-4, RW-2* & RW-5*	May	indicator list
SW-2 and SW-3	May, August & October	flow measurement
SW-2	August every 2 years	VOC's
Seep / Spring	Any sampling event observed	indicator list
<u>Sediment</u>		
SB-1, SB-2, and SB-R	August every 10 years (next in 2022)	major and minor inorganics
		& grain size

^{* -} additional temporary monitoring locations added in 2018 to address boron trigger exceedances (Section 3.5)

As per the current ECA (Appendix B), sediment sampling has been maintained in the monitoring program, however the frequency of sample collection is every 10 years with the next sample being required in 2022. However, it is also stated that if annual surface water samples in Morgan Lake or Crystal Bay show a significant increase in metal concentrations then the sediment sampling should be repeated and thereafter every five years. Based on the information outlined in Section 3.4.2, there does not appear to be a significant increase in metal concentrations at those locations, so it is therefore recommended that sediment sampling continue with the current sampling frequency of once in every ten years.

^{** -} Sediment monitoring requirements were revised to every 10 years (no sample during this monitoring period, next samples to be collected in 2022)

^{*** -} all water quality samples collected require field electrical conductivity and pH, while all surface water samples require dissolved oxygen measurements



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APPENDICES

Appendix A: Figures

Appendix B: MECP Correspondence and Certificates of Approval

Appendix C: Annual Waste Quantities

Appendix D: Ground Water Quality Data

Appendix E: Ground Water Levels

Appendix F: Ground Water Chemistry Over Time Graphs

Appendix G: Detected Volatile Organic Compounds

Appendix H: Surface Water Quality Data

Appendix I: Surface Water Quality Over Time Graphs
Appendix J: MECP Landfill Reporting Submission Forms

Appendix K: Benthic Invertebrate Monitoring Data

Appendix L: Final Contour Design Drawing

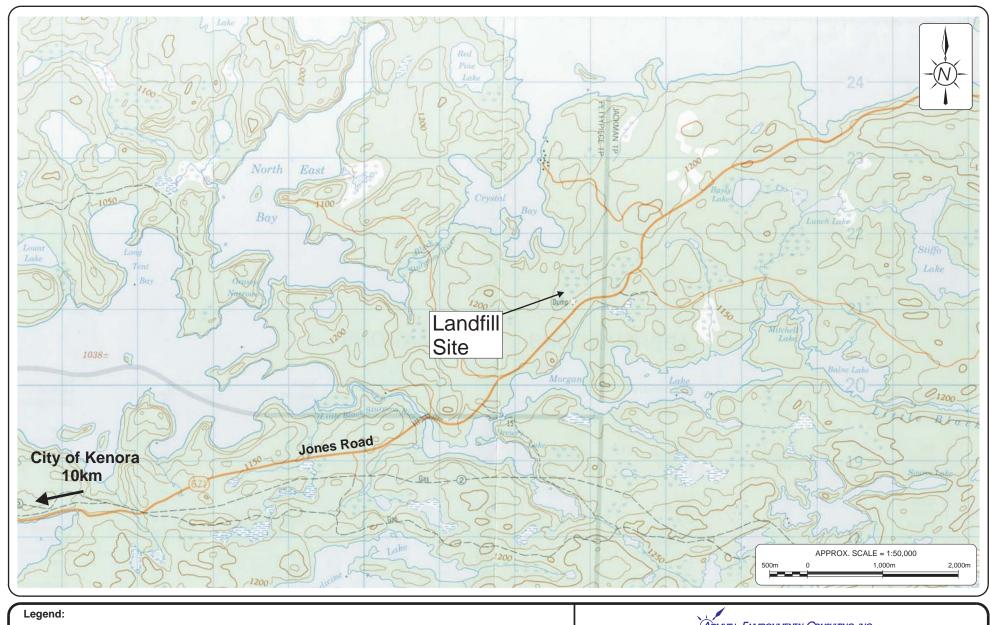
Appendix M: Borehole Logs

Appendix N: Geotechnical Reports

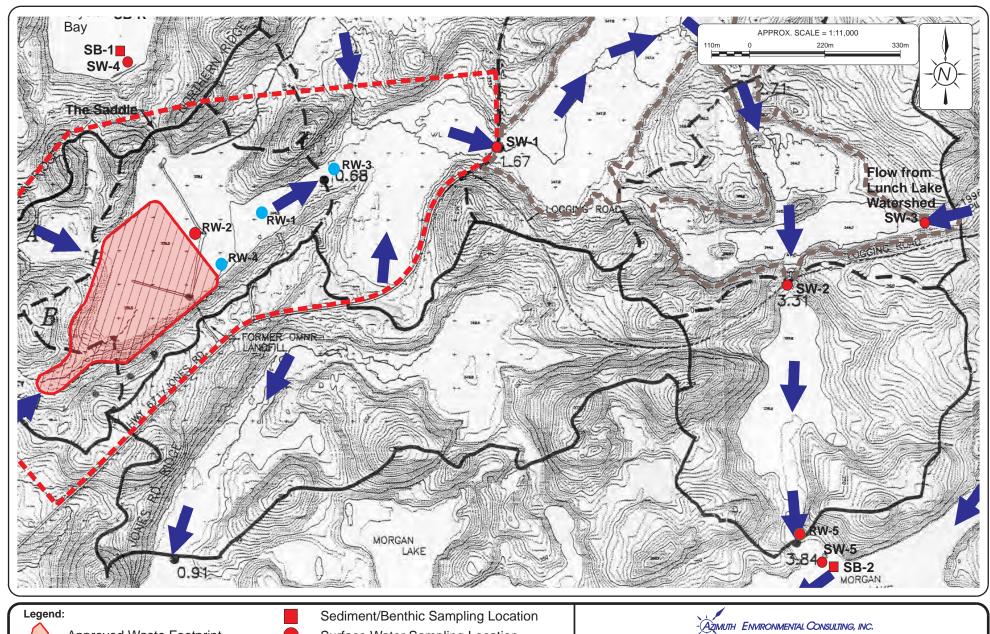


APPENDIX A

Figures









Surface Water Sampling Location Temporary Action Plan Surface Water Sampling Location

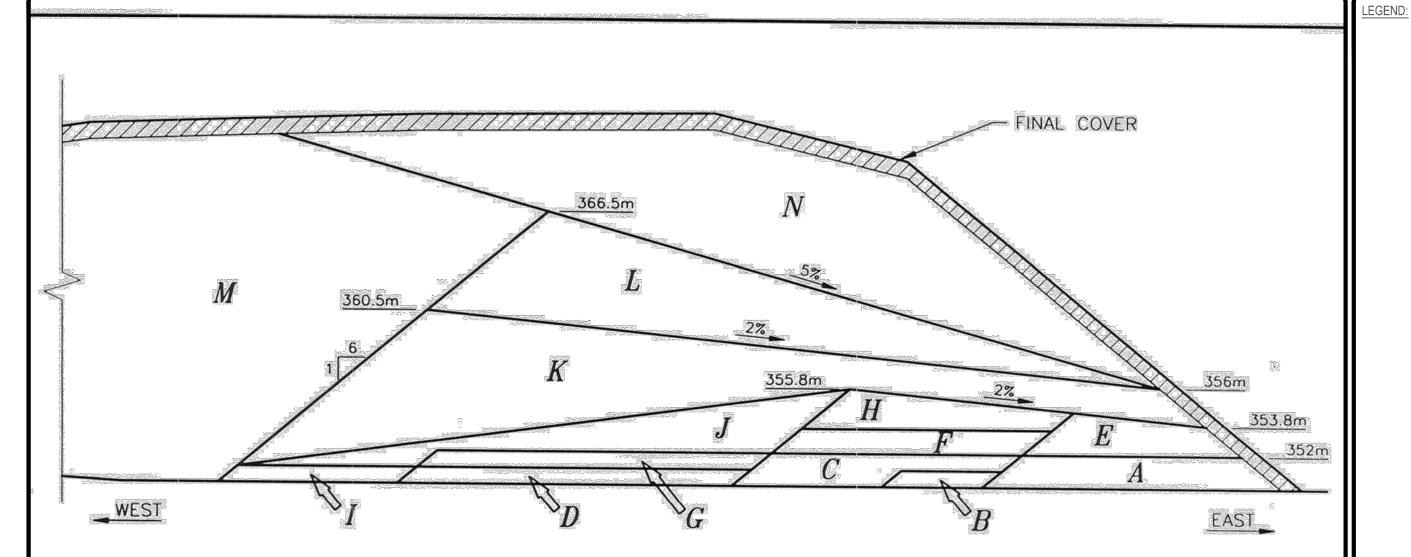
Surface Water Flow Base Drawing: Fenco MacLaren (1997), Figure S3.1



Hydrologic Features

Date Issued:		August 2020	
Created By:		CMR	
	Project No.	20-020	ı
1	File Name: Figure 2 - Hydrologic Features.CDR		

Jones Road Landfill Site Figure No. City of Kenora 2 MOE Certificate of Approval No. A612018



LANDFILL SEQUENCE	APPROX. YEAR OF DEVELOPMENT	LANDFILL SEQUENCE	APPROX. YEAR OF DEVELOPMENT
\boldsymbol{A}	1 - 3	H	11
\boldsymbol{B}	4	$oldsymbol{I}$	12
$\boldsymbol{\mathcal{C}}$	5	J	1.3
D	6	$oldsymbol{K}$:	14 -20
E	7 - 8	L	21 -23
$\boldsymbol{\mathit{F}}$	9	M	24 -35
6	10	N	36 -40

Fenco MacLaren

SNC-LAVALIN

KENORA AREA WASTE MANAGEMENT MASTER PLAN PROPOSED KENORA AREA LANDFILL

FIGURE S1-5.1

LANDFILL DEVELOPMENT SEQUENCE

HOR 1 1 1500 VERT 300

Not to Scale

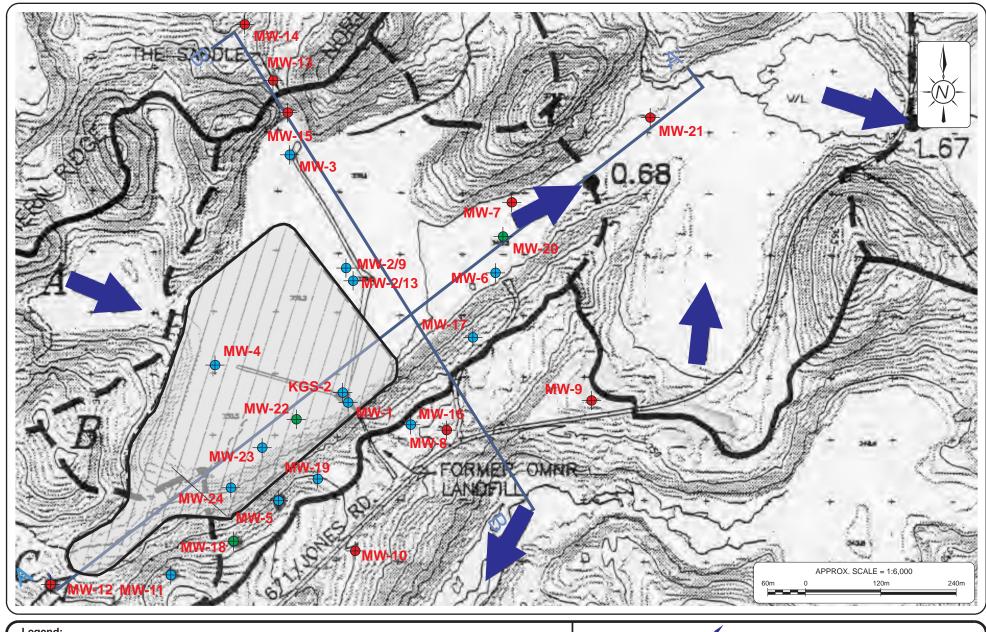
- AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Landfill Development Sequence

Jones Road Landfill City of Kenora

DATE ISSUED:	June 2018	Figure No.
CREATED BY:	JLM	2
PROJECT NO.:	17-020	3
DEFEDENCE		

M:\17 Projects\17-020 2017 Jones Road Landfill Monitoring\04.0 - Drafting\17-020.dwg





Approved Waste Footprint

Watershed Boundary



Ground Water Monitor (maintained)



Ground Water Monitor (removed from program)



Ground Water Monitor (decommissioned)

June 20121 Date Issued: CMR Project No. 20-020 Figure 4 .CDR

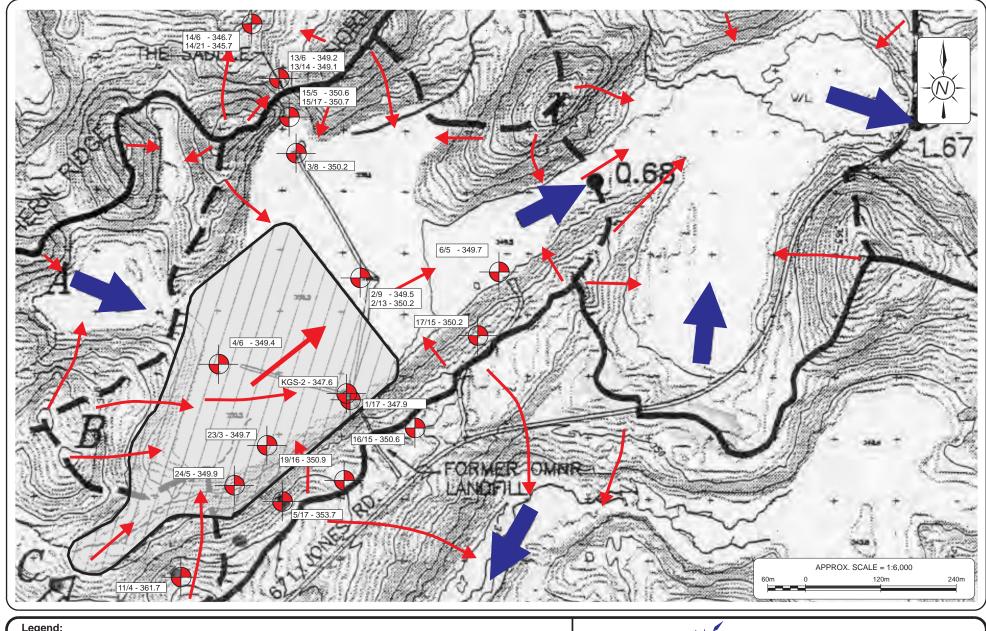
Jones Road Landfill Site City of Kenora Figure No.

-AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Ground Water Monitoring Network

MOE Certificate of Approval No. A612018

Base Drawing: Fenco MacLaren (1997), Figure S3.1







Approved Waste Footprint



Ground Water Monitor



Watershed Boundary



Ground Water Flow Direction



Surface Water Flow Direction



Sub-watershed Boundary



Ground Water Monitoring (August 2019)

	Date Issued:	June 2021
	Created By:	CMR
	Project No.	21-020
3.1	File Name:	Figure 5.CDR

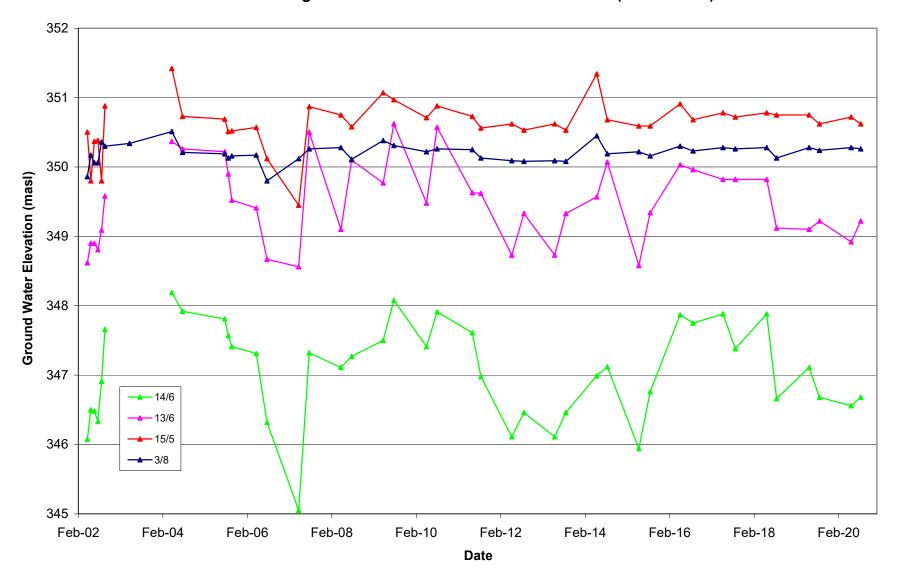
Jones Road Landfill Site City of Kenora MOE Certificate of Approval No. A612018

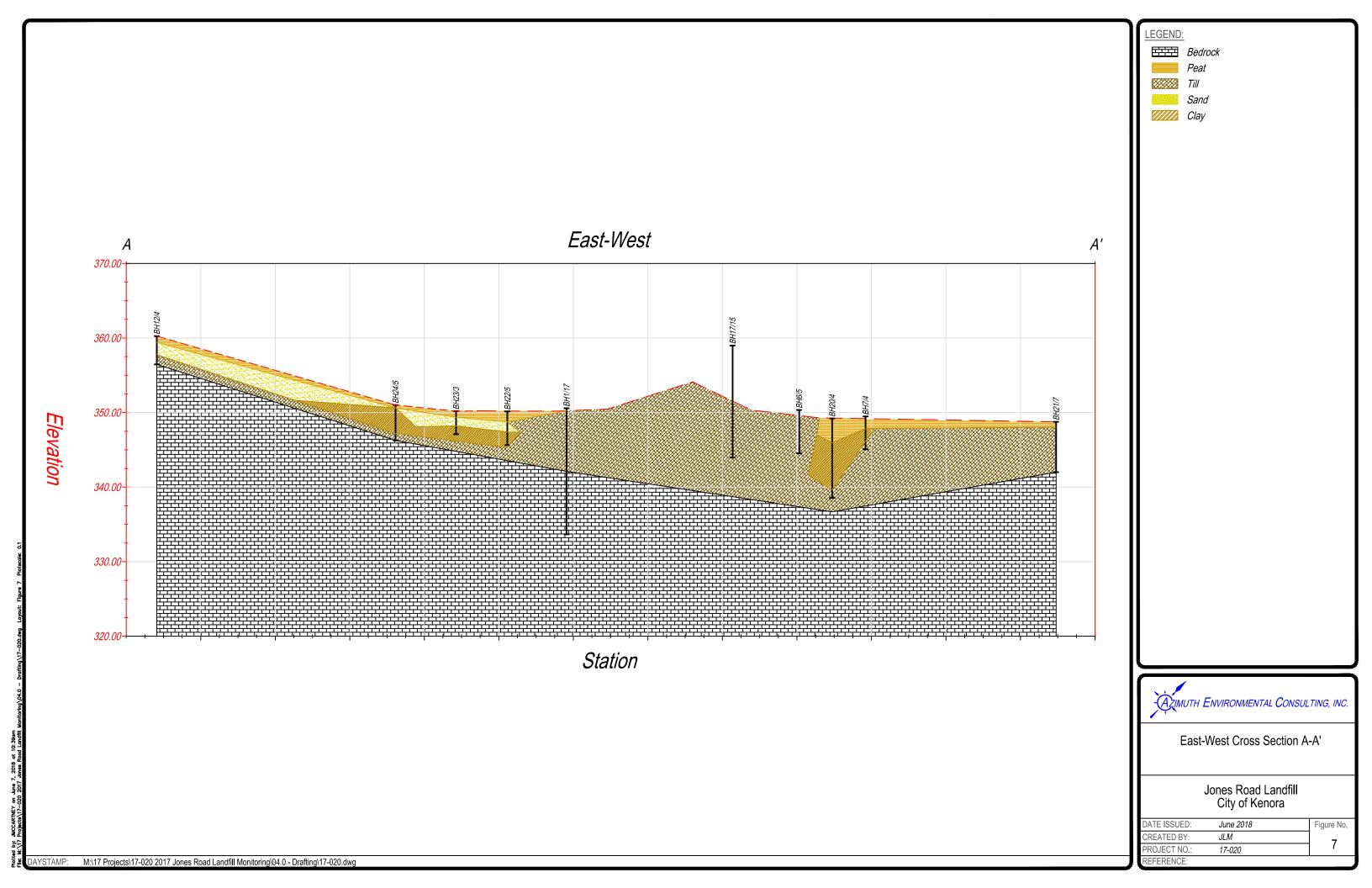
5

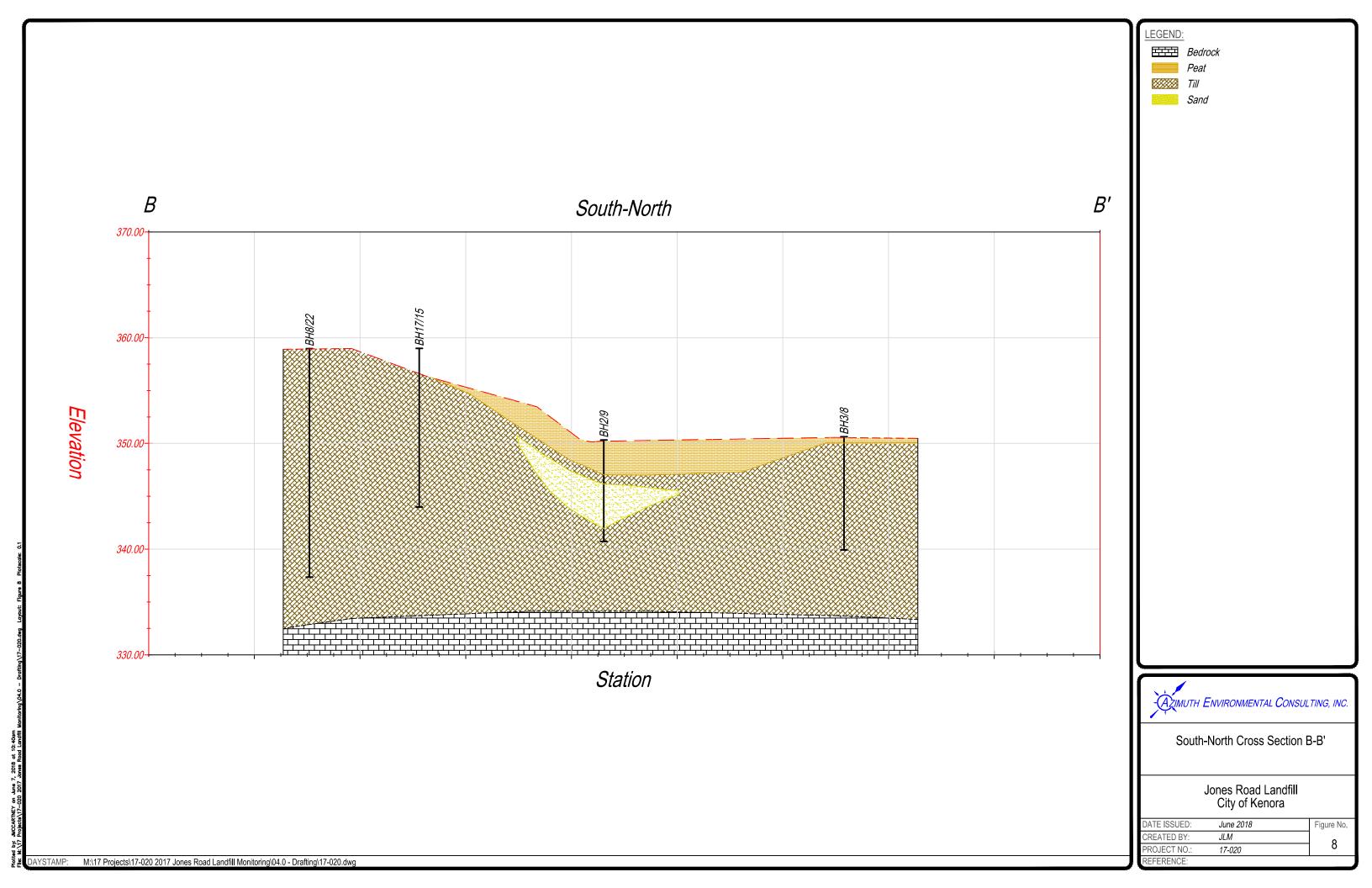
Figure No.

Base Drawing: Fenco MacLaren (1997), Figure S3.

Figure 6 - Saddle Ground Water Elevations (overburden)









APPENDIX B

MECP Correspondence and Certificates of Approval



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 1 of 38

Under the Environmental Protection Act and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

City of Kenora 1 Main Street South Kenora, Ontario P9N 3X2

for the use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectares

all in accordance with the following plans and specifications:

as listed in Schedule "A"

Located: Parts of Lots 1 and 2, Concession I, and Parts of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora

which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site or additional categories of wastes requires a new application and amendments to the Provisional Certificate of Approval) domestic, commercial, non-hazardous solid industrial and institutional, processed organic sewage sludge, sludge from future municipal or provincial fresh water treatment facilities, non-pathological agricultural and biomedical, and grit and screenings from street cleaning and sediment basin clean-outs.

This Certificate of Approval Revokes and Replaces Certificate of Approval No. A 612016, dated November 5, 1999.

and subject to the following conditions:

DEFINITION OF TERMS

- 1. In this Provisional Certificate of Approval:
 - a) "City" means the City of Kenora;
 - b) "Director" means a Director of the Environmental Assessment and Approvals Branch, Ministry of the Environment;
 - c) "Regional Director" means the Director, Ministry of the Environment, Northern Region;
 - d) "District Manager" means the Kenora District Manager, Ministry of the Environment, Northern Region;



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 2 of 38

- e) "Landfill" means Parts of Lots 1 and 2, Concession 1, and Parts of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora;
- f) "MOE" means the Ministry of the Environment;
- g) "ODWO" means the Ontario Drinking Water Objectives:
- h) "O & M Manual" means the Operations and Maintenance Manual;
- i) "PWQO" means the Provincial Water Quality Objectives;
- j) "RUP" means the MOE's Reasonable Use Policy (Guideline B-7, formerly 15-08);
- k) "This Certificate" means this Provisional Certificate of Approval as amended from time to time, including all Schedules attached to and forming part of this Certificate; and
- LLC means the Landfill Liaison Committee.

GENERAL

- 2. The City shall establish a Board of Management in conjunction with the Town of Keewatin and the Town of Jaffray Melick who will act as its designated authority to oversee the development, operation, maintaining and monitoring of the Landfill.
 - The City shall be bound by the conditions of this Certificate. The conditions of this Certificate shall extend to and bind any successor or subsequent owner of the Landfill, which may be created through future restructuring.
- 3. No operation shall be carried out at the Landfill after 180 days from this condition becoming enforceable unless this Certificate has been registered by the City as an instrument in the appropriate Land Registry Office against title to the Landfill and a duplicate registered copy provided to the Director.
 - No operation shall be carried out at the Landfill after 180 days from this condition becoming enforceable unless the land control maps at the Ministry of Natural Resources and the Ministry of Northern Development and Mines (MNDM) show this Crown Site (the 108.1 ha site area identified in page 1) designated for sale and patent and the Ministry of Natural Resources (MNR) has issued an Interim Land Use Permit. Within 60 days of registration of the patent, this Certificate must be registered by the City as an instrument in the appropriate Land Registry Office against title to the Landfill and a duplicate registered copy provided to the Director.
- 4. Requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation, regulations, approvals, orders, etc.



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 3 of 38

- 5. The requirements of this Certificate are severable. If any requirements of this Certificate to any circumstance is held invalid, the application of such requirement to other circumstance and the remainder of this Certificate shall not be affected thereby.
- 6. Despite any other term or condition in this Certificate, waste disposal shall be limited to:
 - (i) the 13.1 ha landfilling area as shown on Fig. FW.2, Item 1 of Schedule "A", and
 - (ii) the approved final contours as shown on Drawing S1-2, Item 1 of Schedule "A".
- 7. The City shall allow MOE personnel, or an MOE authorized representative(s), upon presentation of credentials, to:
 - a) carry out any and all inspections authorized by the <u>Environmental Protection Act</u>, the <u>Ontario Water Resources Act</u> or the <u>Pesticides Act</u>, as amended from time to time, of any place to which this Certificate relates, and

without restricting the generality of the foregoing, to:

- b) i) enter upon the premises or the location where the records required by the conditions of this Certificate are kept:
 - ii) have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;
 - iii) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate, and
 - iv) sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.
- 8. Schedules A, B, C, D, E, F, G and H are integral parts of these conditions.

LANDFILL OPERATIONS

General

9. The Landfill shall be developed, operated and maintained by the City in accordance with all of the plans and documents listed in Schedule "A". Should there be discrepancies between the documents listed in Schedule "A" and the conditions in this Certificate, the conditions shall take precedence. Should there be discrepancies between the documents listed in Schedule "A", the document bearing the most recent date shall take precedence.



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 4 of 38

- 10. a) The City shall operate the Landfill in accordance with an O & M Manual. The O & M Manual shall be prepared and submitted to the Regional Director and the LLC within 180 days of the date of issuance of this Certificate and shall cover the following issues:
 - day-to-day operations and staff responsibilities;
 - surface water management;
 - equipment maintenance and inspection;
 - stockpile management and use of daily and intermediate cover material;
 - condition of applied cover and vegetation;
 - odour, dust and litter control measures;
 - traffic control measures:
 - · bird, bear, rodent and insect control measures;
 - fire prevention measures;
 - waste management control and record keeping procedures to ensure that only approved waste enters the site;
 - operating instructions for management of any waste suspected to be hazardous which enters the site; and
 - geotechnical and environmental monitoring procedures and protocols.
 - b) The O & M Manual shall also identify specific construction activities designed to minimize slope and bearing failures.
 - c) The O & M Manual may be revised based upon considerations or recommendations made to the Board of Management. These revisions shall be based upon information contained within the Annual Monitoring report mentioned in Condition 52, and directives contained within MOE regulations, policies and guidelines.
- 11. Scavenging of waste at the Landfill is prohibited.

Construction Activity

12. a) Heavy Equipment Usage

Heavy equipment shall not be used on the peat or, initially, on the waste over the bog unless the peat is sufficiently frozen to support the weight of this equipment.

b) Damage to Root Mat

Care shall be taken during construction to minimize damage to the root mat over the bog area. Areas where the mat is badly damaged shall be treated on a case-by-case basis.

13. Side Slopes



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All temporary side slopes (i.e. prior to achieving final design grades) for the fill over the bog shall be held at 6H (horizontal):1V (vertical) (or less). The permanent side slopes for the finished portion of the Landfill shall be restricted to 6H:1V for the east face, but may be up to 4H:1V elsewhere unless otherwise specified by the geotechnical engineer.

14. Site Supervision

The City shall ensure that the Site Supervisor has been adequately trained with respect to the following, without limitation:

- i) conditions and schedules of this Certificate;
- ii) the operation and management of the Landfill;
- iii) relevant waste management regulations and legislation;
- iv) environmental concerns related to the waste being handled at the Landfill;
- v) occupational health and safety concerns pertaining to the waste being handled at the Landfill; and
- vi) the placement of fill on the bog area in accordance with advice and/or specific instructions provided by a qualified geotechnical engineer.

Site Security & Operating Hours

- 15. The waste disposal operating hours of the Landfill shall be between 8:30 a.m. to 5:30 p.m., Monday to Saturday. The Landfill is closed on Sundays and statutory holidays.
- 16. The City shall not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under the supervision of the Landfill attendants.
- 17. During non-operating hours, the Landfill entrance gate shall be locked by the City to secure against access by unauthorized persons.
- 18. In the event of a requirement to respond to emergency situations, waste may be received for disposal at the Landfill outside of the normal operating hours specified in Condition 15 above, under the supervision of the Landfill attendants and subject to the approval of the District Manager.

Site Entry Requirements

- 19. The City shall not allow the following wastes to be disposed of at the Landfill:
 - hazardous wastes as defined under Regulation 347;
 - industrial liquid or slurry wastes;
 - hazardous biomedical wastes; and



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- barrels, drums or other similar containers which have been contaminated by hazardous substances.
- 20. The City shall use the weigh scale to be installed at the central public drop-off depot to monitor and record all incoming wastes. Such a depot shall be established in a central location in the Tri-Municipal Area. If this off-site scale malfunctions, alternative methods for weight determinations shall be implemented as soon as possible but not later than in 3 days. These could include the use of alternate weigh scales, estimation of load weights from historical records for specific haulers, or waste generation areas.
- 21. The City shall ensure that all vehicles entering the Landfill shall be identified by a licence number on the weigh scale billing notice.

Waste Cover Requirements

- 22. The City shall ensure that waste is deposited in a manner that minimizes the area of exposed waste at the Landfill working face and shall be compacted before cover material is applied.
- 23. The City shall ensure that from May 15 till September 15 at the end of each working day, and within two hours of the entrance gate closure, cover material is applied to all exposed waste material. Cover material shall be applied on a weekly basis during the rest of the year. The average depth of this material when soil is used shall be 15 cm.
- 24. Alternative MOE approved materials such as tarps, foams or processed sewage sludge can be used for daily cover subject to the Regional Director's approval.
- 25. The City shall provide a contingency supply of cover material equal to two working days worth to ensure that adequate cover is always available for application pursuant to Condition 23.
- 26. The City shall ensure that in areas where landfilling is not to be carried out for the period of 90 days or more, at least 20 cm of compacted clean earth cover will be applied over the wastes. If necessary, these areas may be hydroseeded during the earliest spring or fall planting season to stabilize the surface against erosion.
- 27. The City shall ensure that in areas where landfilling has been completed to the approved final contours, a minimum 750 mm thickness of clean earth cover will be placed over the compacted wastes. The lower 600 mm will consist of previously excavated and compacted tills, and the top 150 mm will consist of locally derived topsoil mixed with peat. These areas shall be hydroseeded during the earliest spring or fall planting season to provide protection against erosion.

Base Contours

- 28. The City shall ensure that extent of excavation shall be limited to base grades shown on Drawing S1-3 of Item 1. Schedule "A".
- 29. The City shall ensure that no excavation shall occur for those portions of the landfilling area situated over



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the bog.

Waste Burning

- 30. The City shall ensure that there is no burning of waste at the Landfill.
- 31. The City shall ensure that site operations shall incorporate the fire prevention measures identified in Item 1 of Schedule "A".

Bears, Birds, Rodents and Insect Control

32. Bears, birds, rodents and insect control shall be undertaken by the City in accordance with procedures outlined in Item 1, Schedule "A".

Litter Control

- The City shall implement all necessary measures to prevent off-site litter impact from landfilling operations. These measures shall include but not be limited to the following:
 - the use and maintenance of suitable portable netting and snow fencing;
 - weekly site litter inspections and clean-up; and
 - daily inspection and no less than weekly litter pick up on Highway 671 in the vicinity of the Landfill;
- 34. The City shall ensure that no disposal of waste occurs if weather conditions make it difficult to prevent litter from leaving the Landfill.

Dust Control

- 35. In order to keep mud and dust from the Landfill to a minimum, the City shall implement a dust control program. This program shall include, but not be limited to the following measures:
 - during dry periods when there are visible dust emissions, regular wetting of soil cover material prior to its spreading by bulldozers over the working face;
 - during dry periods wetting of the unpaved roads and the use of dust suppressants;
 - installation of speed bumps near the site entrance;
 - reducing on-site vehicle speeds by posting a maximum speed limit of 30 km/h;
 - paving the site entrance area;
 - construction of the on-site crushed stone or gravel roads;



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- covering of dust laden waste material as soon as possible; and
- minimizing wind erosion by stabilizing inactive areas using vegetation.

Noise Control

36. Noise from or related to the operation of the Landfill shall be kept to a minimum and, in any event, the City shall comply with the noise level limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites" as contained in Schedule "B".

Traffic Control

- 37. The City shall ensure that sufficient queueing space is available on-site to accommodate the peak traffic volumes anticipated.
- During the first year of operation the City shall monitor site related and non-site related traffic levels to assess the potential need for Highway 671 improvements at the site entrance.

Site Maintenance

- 39. The City shall conduct regular site inspection(s) to ensure that all facilities and site works are maintained in a tidy condition and good working order. Such inspections will check for:
 - damage to perimeter fences and the maintenance of litter fences;
 - interior access road damage;
 - blowing litter and other nuisance concerns;
 - leachate springs or breakouts:
 - ponded water and blocked surface drainage works;
 - · slope failure/erosion and final cover settlement; and
 - the condition of vegetation.

Any necessary repair/remedial works will be performed at the earliest possible opportunity.

LANDFILL CONTAMINANT ATTENUATION ZONE

40. Within 180 days of the issuance of this Certificate the City shall establish the proposed contaminant attenuation zone shown on Fig. FW- 2 of Item 1, Schedule "A". This will be established through an MNR Land Use Permit and an MOE Certificate of Prohibition.

SURFACE WATER MANAGEMENT SYSTEM



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 9 of 38

- 41. Site grading and contours shall be maintained by the City such that all surface water run-off from the landfilling area is directed into the perimeter surface water management system.
- 42. Within the first year of operation following the date of this Certificate being issued, the perimeter surface water management system consisting of swales, ditches, retention basins and the controlled outlet facilities shall be completed by the City. It shall be operated and maintained by the City in accordance with the procedures outlined in Item 1, Schedule "A".

The perimeter ditching, external run-off channels, and northern storm water retention basin shall be completed in accordance with the sequence of landfilling shown on Figure S1-5.1, Item 1 of Schedule "A".

SURFACE WATER MONITORING

43. Surface water monitoring shall be undertaken by the City in accordance with Schedule "C".

SEDIMENT MONITORING

44. Sediment monitoring shall be undertaken by the City in accordance with Schedule "D".

BIOLOGICAL MONITORING

45. Biological monitoring shall be undertaken by the City in accordance with Schedule "E".

GROUNDWATER MONITORING

46. Groundwater monitoring shall be undertaken by the City in accordance with Schedule "F".

LANDFILL GAS MONITORING

47. Landfill gas monitoring shall be undertaken by the City in accordance with Schedule "G".

GEOTECHNICAL MONITORING

48. Geotechnical monitoring shall be undertaken by the City in accordance with Schedule "H".

PUBLIC CONSULTATION

Landfill Liaison Committee (LLC)



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 10 of 38

- 49. The LLC shall be established based upon the conditions generally described in Appendix S7-A of Item 1, Schedule "A" and identified below:
 - a) The LLC should be established to monitor Landfill operations for the life of the site, ensuring the fulfilment of conditions outlined in this Certificate;
 - b) Terms of Reference for the LLC should be established by the Board of Management, referred to in Condition 2;
 - c) The LLC will also act as a Dispute Resolution Committee. Individuals wishing to express concern regarding the operation, safety or security of the Landfill may make deputations to the LLC, who upon deliberation, will make recommendations to the Board of Management of the problem; and
 - d) The LLC, in monitoring operational practices of the Landfill will make recommendations to the Board of Management for mitigation of impacts from the Landfill to the environment.

PUBLIC INVOLVEMENT/COMPLAINTS

- 50. The City shall establish the public complaints procedure upon issuance of this Certificate that shall include:
 - a) designating specific City staff to receive any complaints and , as soon as possible, to respond in writing indicating the proposed action to be undertaken:
 - b) posting the Landfill complaints telephone number at the Landfill entrance and providing a written notice explaining the complaints procedure to surrounding landowners located within approximately one kilometre of the Landfill;
 - c) keeping an accurate record of the following Landfill related complaints information:
 - the name and address of the complainant,
 - the date and time,
 - the nature of the complaint.
 - details of the City's response to the complainant and actions taken; and
 - d) providing copies of complaint records to the LLC and receiving any proposed recommendations of the LLC;
 - e) summarizing all complaints concerning the Landfill and the City responses/actions in the Annual report mentioned in Condition 52; and
 - f) both the O&M Manual, as identified under Condition 10, and the Annual reports will be made available for review by the LLC as a basis for considering issues pertinent to the Landfill's operation.



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51. The City in consultation with the Board of Management, the LLC and the District Manager, shall review the effectiveness of the public complaints procedure after two years of its commencement and may make revisions to the procedure, if required.

ANNUAL REPORT

- 52. The City shall prepare and submit an Annual report to the Regional Director by June 30th of the year following the calendar year covered by the report which shall include as a minimum, the following:
 - a) a summary of total annual quantities of waste received on a monthly basis at the site;
 - Jb) a drawing(s) of the Landfill indicating all groundwater, surface water, sediment, biological, gas, and geotechnical monitoring locations;
 - √c) tables outlining monitoring locations, analytical parameters sampled, and frequency of sampling and measurements;
 - an analysis and interpretation of the surface water, sediment, biological, groundwater, leachate, gas and geotechnical monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary;
 - an assessment of surface water quality with respect to the PWQO Guidelines and trigger concentrations mentioned in Schedule "C";
 - \sqrt{f}) an assessment of groundwater quality in relation to the RUP and ODWO;
 - g) an assessment of groundwater table elevations in relation to trigger elevations mentioned in Schedule "F";
 - h) an assessment of geotechnical conditions near the east face of the Landfill;
 - \sqrt{i}) an assessment of the performance of the Contaminant Attenuation Zone:
 - j) an update of changes in operations, sequencing, equipment, or procedures made or produced at the Landfill, and any operating difficulties encountered;
 - k) drawings showing areas of fill, buffer areas, current Landfill contours, final Landfill contours, any recommended changes to the final contours, percentage of available space utilized, and an estimate of the remaining disposal capacity and Landfill site life;
 - a summary discussion of Landfill site daily and intermediate cover requirements and erosion protection;



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 12 of 38

a statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;
 a summary of any complaints made regarding Landfill operation and the City's response and action taken;
 an annual waste diversion statement that includes an updated summary of per capita waste diversion activities and quantity of waste diverted using 1987 as the base year;
 recommendations respecting any proposed changes in the operation of the Landfill; and
 any report of the LLC to the City.

CLOSURE PLAN

- One year before the Landfill is expected to stop receiving waste, as determined according to Condition 6, the City shall develop and submit an updated Closure Plan. The Closure Plan shall be submitted for the Director's approval and outline post-closure maintenance and monitoring. The plan shall include, but not be limited to the following:
 - a) changes to the final contour plan that may have been previously identified in the annual reports or recommended in the development of the detailed Closure Plan:
 - b) fencing and access control:
 - c) details of any additional vegetative plantings planned;
 - d) the sequence and schedule for completion of final cover installation;
 - e) post-closure and end-use plans;
 - f) plans and schedules for the management and continued monitoring of surface water, groundwater, leachate and landfill gas;
 - g) plans and schedules for the routine monitoring and maintenance of the final cover, swales, ditches, retention basins and the controlled outlet facilities;
- 54. The final cover over the entire area which was landfilled shall be completed by the City within one full construction season following the date after the Landfill has stopped receiving waste. Formal notice shall be provided by the City to the Director upon receipt of the final load of waste to the Landfill.



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SCHEDULE "A"

This Schedule "A" forms part of Provisional Certificate of Approval No. A 612018 and contains documentation submitted in support to an application for the establishment and use of the Landfill.

- 1. Kenora Area Waste Management Master Plan EPA Document prepared by Fenco MacLaren and dated February, 1997.
- 2. Letter dated April 10, 1997 Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E. Zaltsberg) Subject: Application for a Certificate of Approval for a Waste Disposal Site.
- 3. Letter dated July 2, 1997 Fenco MacLaren (T. Taylor) to Ministry of Environment and Energy (J. Barr) Subject: Former Jones Road Waste Disposal Site.
- 4. Letter dated August 14, 1997 Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E. Zaltsberg) Subject: Geotechnical Monitoring: Kenora Area WMMP EPA Studies Document
- 5. Kenora Area Waste Management Master Plan, October 1997 Photo supplements to EPA Studies Document prepared by Fenco MacLaren and dated February, 1997, and September, 1999.
- Kenora Area Waste Management Master Plan EA Conditions of Approval Document prepared by SNC-Lavalin Engineers & Constructors Ltd. and dated January, 1999.
- 7. Figure \$1-6.1 as amended September, 1999 Proposed Monitoring Locations prepared by SNC-Lavalin Engineers & Constructors Ltd. and dated September 1999
- 8. Letter dated September 27, 1999 from Environment Canada (S. Michajluk) to the Ministry of the Environment (E. Zaltsberg), Subject: Kenora Area Waste Management Master Plan.



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SCHEDULE "B"

This Schedule "B" forms part of Provisional Certificate of Approval No. A 612018. It contains the Ministry of the Environment's February 1997 "Noise Guidelines for Landfill Sites" referred to in condition 36.

1. SCOPE

This Publication establishes sound level limits for landfill operations affecting residential or other noise-sensitive areas. Three components of waste disposal operation are separately addressed in this guideline:

- the actual landfill site:
- · facilities for reception, storage and mixing; and
- off-site source vehicles.

2. REFERENCES

Reference is made to the following technical publications:

- (1) NPC-101 Technical Definitions
- (2) NPC-102 Instrumentation
- (3) NPC-103 Procedures
- (4) NPC-104 Sound Level Adjustments
- (5) NPC-205 Sound Level Limits for Stationary Sources in Class I & 2 Areas (urban)
- [6] NPC-206 Sound Levels due to Road Traffic
- [7] NPC-232 Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)
- (8) NPC-233 Information to be Submitted for Approval of Stationary Sources of Sound
- (9) ORNAMENT, Ontario Road Noise Analysis Method for Environment and Transportation, Technical Document, Ontario Ministry of the Environment, ISBN 0-7729-6376 (1989).

References (1) to (4) can be found in the Model Municipal Noise Control By-Law, Ontario Ministry of Environment, Final Report, August 1978.



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3. TECHNICAL DEFINITIONS

"Ambient sound level"

means Background sound level;

"Background sound level"

is the sound level that is present in the environment, produced by noise sources other than the source under impact assessment. Highly intrusive short duration noise caused by sources such as an aircraft fly-over or a train pass-by is excluded from the determination of the background sound level;

"Construction Equipment"

means any equipment or device designed and intended for use in construction, or material handling including but not limited to, air compressors, pile drivers, pneumatic or hydraulic tools, bulldozers, tractors, excavators, trenchers, cranes, derricks, loaders, scrapers, pavers, generators, off-highway haulers or trucks, ditchers, compactors and rollers, pumps, concrete mixers, graders, or other material handling equipment;

"Conveyance"

includes a vehicle and any other device employed to transport a person or persons or goods from place to place but does not include any such device or vehicle if operated only within the premises of a person;

"Point of Reception"

means any point on the premises of a person where sound or vibration originating from other than those premises is received.

For the purpose of noise impact assessment of a proposed landfill operation, or an expansion to an existing landfill operation, the point of reception may be located within 30 m of a dwelling or a camping area on any of the following existing or zoned for future use premises: permanent or seasonal residences, hotel/motels, nursing/retirement homes, rental residence, hospitals, camp grounds, and noise sensitive buildings such as schools and places of worship.

Other technical terms used in this publication are defined in Reference [1].

4. MEASUREMENTS, STANDARDS AND PROCEDURES

For the purpose of this Publication, all measurements shall be made in accordance with References [2], [3] and [4].

5. SOUND LEVEL LIMITS



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(1) Landfill Site

(a) General Limits

The limits for sound levels due to the landfill site operation at a Point of Reception are 45dBA in any hour of the night, 7:00~PM - 7:00~AM, and 55 dBA in any hour of the day, 7:00~AM - 7:00~PM. These levels are expressed in terms of the One Hour Equivalent Sound Level (L_{eq}).

The above limits are applicable under the following conditions:

- the existing ambient noise climate is assumed to be rural, i.e. the daytime and nighttime environmental noise level is normally below the stated limitation. Should the environment be dominated by noise sources of man-made activity, such as industry, commerce or road transportation, which produce sound in excess of the above limits, the higher sound levels may be used as the limit, provided that the noise sources are not under consideration for noise abatement by the Municipality or the Ministry of Environment and Energy.
- landfill site operation involves only "construction equipment" or "conveyances", as defined in Section 3. In this case the landfill site itself is not considered a stationary noise source, and will not be governed by the limitations set out in References [5] or [7].

(b) Specific Limit - Impulsive Sounds

For impulsive sound from a pest control device employed in the operation of the landfill site, the sound level limit at a Point of Reception expressed in terms of the Logarithmic Mean Impulse Sound Level (L_{LM}) is 70 dBAl.

(2) Facilities for Reception, Storage and Mixing

A landfill site utilizing equipment that does not fall under the definition of "construction equipment" or "conveyance", as defined in Section 3 is considered a stationary noise source. The applicable sound level limits are those established for the assessment of stationary sources of sound given in References [5] and [7].

6. OFF-SITE SOURCE VEHICLES

For a landfill site employing off-site source vehicles which constitute a predominant component of the background noise, an access route shall be selected which will result in a minimum noise impact. The selection process shall be based on a detailed quantitative assessment of noise impact on individual receptors and the number of affected receptors along the alternative routes. The municipality and the affected residents must be clearly informed of any potential noise impact.



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SCHEDULE "C"

This Schedule "C" forms part of Provisional Certificate of Approval No. A 612018. It describes the surface water monitoring program referred to in Condition 43.

1. OBJECTIVES

The objectives for the surface water monitoring program are:

- to evaluate background surface water quality;
- to evaluate the Landfill's impact on surface water quality downstream of the Landfill;
- to evaluate the efficiency of the proposed Contaminant Attenuation Zone;
- to monitor water quality at the downstream site/attenuation zone boundary and compare this quality with the MOE's PWQO; and
- to determine the need for a contingency implementation.

2. MONITORING PLAN

The surface water monitoring plan shall be carried out by the City to address the stated objectives and will include the following:

2.1 Stations

The surface water stations to be monitored are shown on Fig. S.1-6.1, Item 7. Schedule "A" and listed below:

- existing stations SW-1 (Jones Road culvert) and SW-2 (Beaubien Loop Logging Road culvert); and
- proposed stations SW-3 (Lunch Lake subwatershed control), SW-4 (Crystal Bay) and SW-5 (Morgan Lake).

2.2 Sampling Frequency

- During the first two years of the Landfill's operation water samples shall be taken at all stations monthly from April through October;
- Starting from the third year of the Landfill's operation water samples shall be taken three times per
 year in May, August and October at stations SW-1, SW-2, SW-3 and SW-4; station SW-5 shall be
 sampled annually in August.



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 In addition, water samples shall be taken from any flowing spring or groundwater seepage identified within the saddle area during any sampling event.

2.3 Sample Analysis

During the first two years of operation the collected water samples shall be analyzed for the following lists of parameters:

- a) the comprehensive list of parameters at all stations in May, August and October;
- b) the indicator list of parameters at all stations in April, June, July and September;
- c) volatile organic compounds, EPA method 624 at SW-2 in August of the second year; and
- d) the indicator list of parameters at any flowing spring or groundwater seepage mentioned in 2.2.

Starting from the third year of operation, the collected water samples shall be analyzed for the following list of parameters:

- a) the comprehensive list of parameters at all stations in August and October:
- b) the indicator list of parameters at all stations in May;
- c) volatile organic compounds, EPA method 624 at SW-2 in August, once every two years; and
- d) the indicator list of parameters at any flowing spring or groundwater seepage mentioned in 2.2.

The comprehensive list includes the following parameters:

<u>Inorganics</u>

Alkalinity, Ammonia, Arsenic, Barium, Boron, Cadmium, Chloride, Chromium, Conductivity, Copper, Iron, Lead, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Suspended Solids, Total Dissolved Solids, Sulphate, Zinc.

Organics

Biochemical Oxygen Demand (BOD₅), Chemical Oxygen Demand, Phenol.

Field Parameters

Temperature, pH. Conductivity, Dissolved Oxygen.



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The indicator list includes the following parameters:

Inorganics

Alkalinity, Ammonia, Chloride, Conductivity, Iron, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Suspended Solids, Sulphate.

Organics

Biochemical Oxygen Demand (BOD₅). Chemical Oxygen Demand, Phenol.

Field Parameters

Temperature, pH, Conductivity, Dissolved Oxygen.

For all parameters with the established PWQO the minimum detection limits (MDL) used will be below the corresponding PWQO.

2.4 Flow Measurements

Stream flow measurements shall be performed at stations SW-2 and SW-3 three times per year, in April, August and October simultaneously with sampling events.

DRAINAGE

3.1 Drainage Required

Since a build up of water on, behind or within the waste may result in the loss of stability and, potentially, slope failure, drainage shall be provided around the waste. Water shall not be permitted to "dam up" behind the waste or pond on the waste.

3.2 Inspection of Drainage

The drainage provided in the design shall be regularly inspected to ensure that it has not been blocked (e.g., by beavers or other causes). Any blockages shall be cleared immediately.

4. TRIGGER MECHANISM

Within two years of the issuance of this Certificate the City shall develop and submit for the Director's approval the comprehensive surface water trigger mechanism which shall include the following:

trigger location(s), trigger parameters, trigger concentrations, and re-sampling procedures.



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The comprehensive surface water trigger mechanism will be attached as subsequent schedule of this Certificate upon the Director's approval.

5. CONTINGENCY MEASURES

If trigger concentrations at trigger location(s) referred to in 4 are exceeded and these exceedances are due to landfilling operations, then one of the following contingency measures shall be implemented:

- construction of a control berm or weir downstream of the landfilling area to increase retention time for contaminated surface water flow within the buffer/attenuation zone;
- construction of a dispersion channel downstream of the landfilling area to force contaminated surface water into the peat layer and create a more uniform dispersion throughout the buffer/attenuation zone; and
- enlargement of the attenuation zone.

Prior to implementation, the appropriate contingency measurc(s) shall be discussed with and approved by the Director.

6. SUBSEQUENT MODIFICATIONS

After two years of operation the monitoring plan shall be re-evaluated and revised if necessary. If there is any future need to modify the monitoring plan and/or the trigger mechanism, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes, and these changes may not be made without such approval.



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SCHEDULE "D"

This Schedule "D" forms part of the Provisional Certificate of Approval No. A 612018. It describes the sediment monitoring program referred to in Condition 44.

1. OBJECTIVES

The objectives for the sediment quality monitoring program are:

- to provide a statistical measure of sediment quality in surface water environs suitable for determining and comparing existing and future sediment quality conditions in Morgan Lake and Crystal Bay (Silver Lake);
- to evaluate the Landfill's impact on sediment quality in Morgan Lake and Crystal Bay (Silver Lake);
- to provide additional information for evaluating the efficiency of the proposed Contaminant Attenuation Zone;
- to provide an additional level of protection for detecting any contaminant migration from the Landfill site; and
- to determine the need for a contingency implementation.

2. MONITORING PROGRAM

The sediment quality monitoring program shall be carried out by the City to address the stated objectives and will include the following:

2.1 Stations

The sediment stations to be monitored are shown on Figure S1-6.1, Item 7 of Schedule "A" (as amended September 1999) and listed below:

- station SB-1 in Crystal Bay (Silver Lake) and SB-2 in Morgan Lake; and
- reference station SB-R to be located upstream of any potential influence within Silver Lake.

Sediment sampling stations correspond with benthic sampling stations outlined in Schedule "E".

2.2 Sampling Frequency

All stations will be sampled annually and will be completed in the last two weeks of August.



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2.3 Sample Analysis

Samples shall be submitted to a qualified laboratory for analysis of the following parameters:

 Aluminum, Arsenic, Cadmium, Cobalt, Copper, Chromium, Manganese, Nickel, Iron, Lead, Zinc, Mercury, Total Organic Carbon. Total Kjeldahl Nitrogen, Total Phosphorus, Oil. Grease and Ammonia.

Grain size analysis shall be performed on sediment samples.

2.4 Interpretation of the Result

Interpretation of the results of sediment sampling should be based on comparison to Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario (MOE, 1992 and updates).



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SCHEDULE "E"

This Schedule "E" forms part of the Provisional Certificate of Approval No. A 612018. It describes the biological effects monitoring program referred to in Condition 45.

1. OBJECTIVE

The objectives for the biological effects monitoring program are:

- to provide a statistical measure of selected sensitive biological indicators (benthic and fish endpoints) suitable for determining and comparing existing and future ecological conditions in Morgan Lake and in Crystal Bay (Silver Lake);
- to evaluate the Landfill's impact on biological indicators and ecological conditions in Morgan Lake and Crystal Bay (Silver Lake);
- to permit evaluation of potential cause-effect relationships associated with any impacts detected in surface water and sediment quality monitoring as described in Schedule "C" and "D"; and
- to provide an additional level of protection regarding the need for a contingency implementation.

2. MONITORING PROGRAM

The biological effects monitoring program shall be carried out by the City to address the stated objectives and will include the following:

2.1 Benthic invertebrate community

2.1.1 Stations

The benthic invertebrate sampling stations to be monitored are shown on Figure S1-6.1, Item 7 of Schedule "A" (as amended September 1999) and listed below:

- station SB-1 in Crystal Bay (Silver Lake) and SB-2 in Morgan Lake; and
- reference station SB-R to be located upstream of any potential influence within Silver Lake.

Benthic sampling stations correspond with sediment sampling stations outlined in Schedule "D".

2.1.2 Sampling Frequency

All station will be sampled annually for a minimum of three (3) years. Sampling will be completed in the last two weeks of August.



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The need for continued or additional benthic monitoring will be determined after the initial three year monitoring period.

2.1.3 Sample Collection Procedure and Analysis

Sampling procedures shall follow established protocols to be outlined in detail in the O&M Manual.

Samples shall be submitted to a qualified laboratory for taxonomic analysis. Biological endpoints to be evaluated will include:

- density (as number of organisms per square metre) of total benthic invertebrates; and
- density by taxon (to be identified in the O&M Manual).

2.2 Fish

2.1.1 Stations

Fish sampling shall be carried out in Morgan Lake and Crystal Bay (Silver Lake).

Fish sampling collections should be carried out in general proximity to sediment and benthic sampling stations SB-1 (Crystal Bay) and SB-2 (Morgan Lake) as shown on Figure S1-6.1. Item 7 of Schedule "A".

2.1.2 Sampling Frequency

Fish sampling shall be carried out proceeding or during the first year of operation in order to provide a baseline to permit comparison to any future conditions.

The need for continued or additional fish sampling will be determined if changes in surface water quality, sediment quality and/or the benthic invertebrate community are detected, which could indicate possible contaminant effects on these lakes.

2.1.3 Sample Collection Procedure and Analysis

A sentinel fish species and collection methods will be specified in the O&M Manual.

A total of 20 fish of the sentinel species will be sampled. The length, weight, sex, maturity and condition of each fish specimen will be recorded and a boneless, skinless fillet of dorsal muscle tissue will be submitted for chemical analysis according to standard MOE epaxial tissue sampling protocol. Tissue samples will be submitted to a qualified laboratory for analysis of the following parameters:



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 Aluminum, Arsenic, Cadmium, Cobalt, Copper, Chromium, Manganese, Nickel, Iron, Lead, Zinc, Mercury, Polychlorinated Biphenyls, Total Polyaromatic Hydrocarbons, Dioxin and Furans.

Results of the biological monitoring program shall be analyzed statistically where appropriate, and interpreted by a qualified professional biologist and/or environmental scientist.



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SCHEDULE "F"

This Schedule "F" forms part of Provisional Certificate of Approval No. A 612018. It describes the groundwater monitoring program referred to in Condition 46.

OBJECTIVES

- · to monitor groundwater quality in the refuse, the overburden and the bedrock;
- to identify and characterize movement of leachate-related contaminants in the overburden and the bedrock within the Landfill/Contaminant Attenuation Zone boundary;
- to monitor groundwater quality at the downgradient Landfill/Contaminant Attenuation Zone boundary and compare this quality with MOE's Objectives and Policies (ODWO, RUP);
- · to confirm the existence of groundwater divides north and southeast of the landfilling area; and
- to determine the need for a contingency implementation.

MONITORING PLAN

The groundwater monitoring plan shall be carried out by the City to address the stated objectives and will include the following:

2.1 Monitors

The groundwater monitors to be sampled are shown on Fig. S1-6, Item 7, Schedule "A" and listed below:

- Existing monitors MW-1/17, MW-2/9, MW-2/13, KGS-2, MW-3/8, MW-4/6, MW-4/18, MW-5/17, MW-6/5, MW-6/14, MW-7/4, MW-8/22, MW-9/6, MW-10/17, -MW-13/16, MW-13/14, MW-14/6, MW-14/21, MW-15/5 and MW-15/17.
- proposed monitoring nests and single monitors MW-2, MW-11, MW-12, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23 and MW-24.

2.2 Sampling Frequency

All monitors shall be sampled twice a year in May and August.

2.3 Sample Analysis

The collected samples shall be analyzed for the following list of parameters:



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a) the comprehensive list of parameters in wells:

MW-1/17, MW-4/6, MW-4/18, MW-2, MW-2/9, MW-2/13, MW-3/8, MW-6/5, MW-6/14, MW-20, MW-7/4, MW-21, MW-5/17, MW-16, once a year, in August.

- b) the indicator list of parameters:
 - in wells listed in a) once a year, in May; and
 - in the remaining wells listed in 2.1 twice a year, in May and August.

The comprehensive list includes the following parameters:

Inorganics

Alkalinity, Ammonia, Arsenic, Barium, Boron, Cadmium, Calcium, Chloride, Chromium, Conductivity, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Potassium, Sodium, Suspended Solids (leachate only), Total Dissolved Solids, Sulphate, Zinc.

Volatile Organics

Benzene, 1,4 Dichlorobenzene, Dichloromethane, Toluene, Vinyl Chloride.

Other Organics

Biochemical Oxygen Demand (BOD₅, leachate only), Chemical Oxygen Demand. Dissolved Organic Carbon, Phenol.

Field Parameters

pH, Conductivity.

The indicator list includes the following parameters:

Inorganics

Alkalinity, Ammonia, Barium, Boron, Calcium, Chloride, Conductivity, Iron, Magnesium, Nitrate, pH, Sodium, Suspended Solids (leachate only), Total Dissolved Solids, Sulphate.

Organics

Biochemical Oxygen Demand (BOD₅, leachate only), Chemical Oxygen Demand, Dissolved Organic Carbon.



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Field Parameters

pH, Conductivity.

For all parameters within the established ODWO the minimum detection limits (MDL) used shall be below the corresponding ODWO.

2.4 Measuring Water Levels

Water level measurements shall be conducted in all functional monitors twice per year, in May and August.

In addition, water level measurements shall be conducted once a month in June, July, September and October during the first two years of operation, in the following monitors:

MW-2/9, MW-3/8, MW-13/6, MW-13/14, MW-14/6, MW14/21, MW-15/5, MW-15/17, MW-11, MW-18, MW-5/17, MW-19, MW-16.

2.5 Monitoring System Maintenance

During each monitoring event, the monitoring network will be visually inspected. Changes in the physical conditions of each well will be noted and necessary repairs undertaken. Monitoring wells that are shown to be damaged beyond repair or whose integrity is in doubt for further monitoring, will be abandoned in accordance with standard procedures and replaced, if necessary.

3. TRIGGER MECHANISM

- 3.1 Based on the water level monitoring data from monitors MW-2, MW-3, MW-13, MW-14 and MW-15 and within two years of the issuance of this Certificate, the City shall develop and submit for the Director's approval the groundwater level trigger mechanism for contingency measure implementation(s)(if required) to protect water quality and aquatic life in Silver Lake.
- 3.2 Based on the water level monitoring data from monitors MW-11, MW-18, MW-5, MW-19, MW-16 and within two years of the issuance of this Certificate, the City shall develop and submit for the Director's approval the groundwater level trigger mechanism for contingency measure implementation(s) (if required) to protect water quality and aquatic life in Morgan Lake.

4. CONTINGENCY MEASURES

- 4.1 If groundwater level elevation(s) at trigger location(s) are equal or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Silver Lake:
 - induce groundwater recharge by pumping water from Silver Lake into an infiltration gallery/



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trench in order to sustain or enhance the existing groundwater divide in the saddle area;

- pressure grouting the overburden and the upper bedrock in the saddle area to eliminate contaminate migration through the subsurface;
- installation of a cut off wall in the saddle area to eliminate contaminant migration through the subsurface: and
- leachate collection system installation.
- 4.2 If groundwater level elevation(s) at trigger location(s) are equal to or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Morgan Lake:
 - induce groundwater recharge by pumping water from Morgan Lake into an infiltration gallery/trench on the top of the ridge along the Jones Road in order to sustain or enhance the existing groundwater divide;
 - installation of a cut off wall in the ridge along the Jones Road; and
 - leachate collection system installation.
- 4.3 Prior to implementation, the appropriate contingency measure(s) shall be discussed with, and approved by, the Director.

5. SUBSEQUENT MODIFICATIONS

If there is any future need to modify the monitoring plan and/or trigger mechanisms, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes and these changes may not be made without such approval.



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SCHEDULE "G"

This Schedule "G" forms part of Provisional Certificate of Approval No. A 612018. It describes the landfill gas monitoring program referred to in Condition 47.

1. OBJECTIVE

To monitor combustible gas concentrations in the unsaturated zone along the southern buffer zone (drawing S1-2, Item 1, Schedule "A") between the landfill and the office/equipment storage building. The gas probes installed during the initial site construction works will ensure that there is no gas migration between the old MNR landfill (that is to be exhumed) and the office/equipment storage building.

2. MONITORING PLAN

The landfill gas monitoring plan shall be carried out by the City to address the stated objective and will include the following:

2.1 Gas Probes

Two gas probes to be sampled are shown on Fig. S.1-6.1, Item 7, Schedule "A".

2.2 Sampling Frequency

Two gas probes referred to in 2.1, shall be sampled bi-monthly during frozen ground conditions and quarterly otherwise using a portable combustible gas detector.

2.3 Sample Analysis

The collected samples shall be analyzed for combustible gas concentration (field instrument calibrated to methane)

3. SUBSEQUENT MODIFICATIONS

If there is any future need to modify the monitoring plan, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes, and these changes may not be made without such approval.

4. <u>CONTINGENCY MEASURES</u>

Due to the relatively small portion of the Landfill below grade, the relatively high water table around the landfilling area and the distance separating this area from the on-site building, lateral migration of gases will not present a hazard. Therefore, it is not appropriate to develop any contingency measures at this time.



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SCHEDULE "H"

This Schedule "H" forms part of Provisional Certificate of Approval No. A 612018. It describes the geotechnical monitoring program referred to in Condition 48.

1. OBJECTIVES

- to monitor pore pressures in the peat and very soft clay;
- · to monitor the increase in the shear strength of the very soft clay with time; and
- to control the rate of landfilling (the thickness of waste and cover placed per day) and the Landfill
 development sequence.

2. PIEZOMETER INSTALLATIONS

- 2.1 At least four boreholes shall be drilled within Area A of the proposed landfilling area prior to the placement of waste over the peat. Their locations are shown on Figure \$1-6.1, Item 7, Schedule "A". Each borehole shall be terminated 1 m below the soft clay/underlying deposit interface.
- 2.2 If unusual or unexpected conditions are encountered in any of the four boreholes mentioned in 2.1, additional boreholes may be drilled subject to the geotechnical engineer decision.
- 2.3 At each borehole location, one piezometer shall be installed near (within 0.3 m of) the peat/soft clay interface with the tip located within the peat layer. The second deeper peizometer shall be installed within the soft clay layer with the tip located approximately 0.4 m to 1.25m below the peat/soft clay interface depending on the thickness of the soft clay layer. In areas where the clay stratum is greater than 2m thick, the piezometer tip shall be located 0.75m to 1.25m below the peat/soft clay interface. In areas where the clay stratum is less than 2m thick, the tip shall be located 0.4m below the interface.

In order to ensure both a rapid response (no lag time) and accurate measurements of the stress induces porewater pressure changes, pneumatic type piezometers are recommended for installation.

3. INVESTIGATION

3.1 Initial Investigation

Prior to any landfilling operation, the initial geotechnical investigation shall be conducted in four boreholes mentioned in 2.1. The investigation shall include:

- obtaining field vane strength profiles in soft clay;
- obtaining samples of soft clay (using a piston sampler) and performing consolidation and strength



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tests over a range of consolidation stress levels as necessary to provide parameters for use in stability analyses; and

• establishing the thickness of peat and soft clay layers, and the nature and hydraulic conductivity of the underlying firm deposit.

3.2 Geotechnical Analysis of Pore Pressures

Prior to any landfilling operation and based on the findings of the investigation mentioned in 3.1, a geotechnical engineer shall provide recommendations regarding the maximum pore pressure that can be developed in piezometers mentioned in 2.3 during the placement of waste and cover material.

3.3 Geotechnical Analysis of Shear Strength

Prior to any landfilling operation and based on the findings of the investigation stipulated in Section 3.1, a geotechnical engineer shall provide recommendations regarding the strength required in the very soft clay prior to the commencement of each new stage of construction.

4. MONITORING AND RESPONSE PLAN

4.1 Observations by Site Personnel

Site personnel shall advise the geotechnical engineer of any "unusual" behaviour or minor failures within the fill or peauclay soil substrate, even if these can be readily fixed by site personnel as soon as they occur. Any such instances shall be evaluated by the geotechnical engineer in the context of the design and available information. The development plan shall be changed by the geotechnical engineer in order to prevent impacts on soil stability deemed to be geotechnically unacceptable.

4.2 Pore Pressure Monitoring

For the first year of each new stage of construction, the piezometers installed in the peat and soft clay shall be monitored daily during the first two weeks of landfilling and weekly for the remainder of the year. Subsequently, pore pressures may be measured once a month. The pore pressure data shall be reviewed monthly by the geotechnical engineer.

4.3 Rate of Landfilling

The measured pores pressures shall not be permitted to exceed the allowable levels mentioned in 3.2 without the written approval of the City's geotechnical engineer, otherwise, the rate of landfilling shall be reduced such that the allowable pore pressure levels are not exceeded.



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The rate of landfilling (the thickness of waste and cover placed per day) in areas where there are no piezometer measurements shall not exceed the rate that was adopted in areas where pore pressures were measured.

4.4 Shear Strength Monitoring

At least four field vane tests shall be performed to confirm the shear strength increase in the soft clay prior to starting construction in each new stage near the east face and before placing final cover on the east face. The results from these tests shall be reviewed by the geotechnical engineer who shall give written approval before each new stage is commenced.

5. SUBSEQUENT MODIFICATIONS

This monitoring plan may be modified in accordance with experience gained during construction with the written notification of the Regional Director by the City and a supporting letter from the City's geotechnical engineer.

Modifications recommended by the geotechnical engineer shall be assessed as to their environmental significance by a qualified environmental consultant prior to the submission of the written notification to the Regional Director.

The Regional Director shall approve the necessary changes, and these changes shall not be made without such approval.



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The reasons for the imposition of these conditions are as follows:

- 1. The reason for Condition No. 1 is to clarify the meaning of the terms used in this Certificate.
- 2. The reason for Condition No. 2 is to ensure that the City, its appointed agents or any successor or subsequent owner is bound by the Conditions of this Certificate.
- 3. The reason for Condition No. 3 is to ensure that this Certificate is registered against title in the appropriate Land Registry Office.
- 4. The reason for Condition No. 4 is to indicate that this Certificate of Approval identifies the minimum environmental requirements, and that the operation must have appropriate regard for other legislation, regulations, approvals and orders which may apply.
- 5. The reason for Condition No. 5 is to ensure that any circumstance that might lead to a specific condition being judged to be invalid, does not invalidate any of the other Conditions specified in this Certificate.
- 6. The reason for Condition No. 6 is to identify the landfilling area and final contours.
- 7. The reason for Condition No. 7 is to ensure that the appropriate MOE staff have ready access for inspection of the Landfill operating under this Certificate.
- 8. The reason for Condition No. 8 is to indicate that Schedules A, B, C, D, E, F and H are a part of this Certificate.
- 9. The reason for Condition No. 9 is to ensure that the Landfill shall be developed, operated, maintained and monitored by the City in accordance with all of the plans and documents listed in Schedule "A".
- 10. The reason for Condition No. 10 is to ensure that the City shall operate the Landfill in accordance with the O&M Manual.
- 11. The reason for Condition No. 11 is to ensure that scavenging of waste at the Landfill is prohibited.
- 12. The reason for Condition No. 12(a) is to ensure that heavy equipment shall not be used on the peat or on the waste over the bog unless the peat is frozen to support the weight of the equipment.
- 13. The reason for Condition No. 12(b) is to ensure that during the construction period care shall be taken to minimize damage to the root mat over the bog area.
- 14. The reason for Condition No. 13 is to specify the temporary and permanent side slopes at the Landfill.
- 15. The reason for Condition No. 14 is to ensure that the site Supervisor is adequately trained.



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- 16. The reason for Condition No. 15 is to specify the operating hours of the Landfill.
- 17. The reason for Condition No. 16 is to ensure that the City will not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under supervision of the Landfill attendant.
- 18. The reason for Condition No. 17 is to ensure that during non-operating hours, the Landfill entrance gate shall be locked by the City, to secure the Landfill against unauthorized persons.
- 19. The reason for Condition No. 18 is to allow the Landfill to accept waste beyond the normal operating hours at the discretion of the Board of Management, under conditions acceptable to the MOE.
- 20. The reason for Condition No. 19 is to identify those wastes that are not suitable for disposal at the Landfill.
- 21. The reason for Condition No. 20 is to ensure that an accurate record for all incoming waste is maintained by the City.
- 22. The reason for Condition No. 21 is to ensure that all vehicles entering the Landfill are identified by licence number on the weigh scale billing notice.
- 23. The reason for Condition No. 22 is to ensure that waste will be deposited in a manner that minimizes the Landfill working face and will be compacted before the cover material is applied.
- 24. The reason for Condition No. 23 is to ensure that cover material is applied daily from May 15th to September 15th and weekly during the rest of the year.
- 25. The reason for Condition No. 24 is to allow the use of a daily cover alternative material approved by the Regional Director.
- 26. The reason for Condition No. 25 is to ensure that the City will provide a contingency supply of cover material equal to two working days worth.
- 27. The reason for Condition No. 26 is to ensure that in areas where landfilling is not be carried out for a period of 90 days or more, at least 15cm of compacted, clean earth cover shall be applied over the waste.
- 28. The reason for Condition No. 27 is to ensure that areas that have reached approved limits, will be covered with final cover material and a suitable planting material will be employed to allow for effective revegetation.
- 29. The reason for Condition No. 28 is to ensure that the extent of the excavation will be limited to base grades shown on Drawing S1-3 of Item 1, Schedule "A".
- 30. The reason for Condition No. 29 is to ensure that no excavation shall occur for those portions of the landfilling area situated over the bog.



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 36 of 38

- 31. The reason for Condition No. 30 is to ensure that there will be no burning of waste at the Landfill.
- 32. The reason for Condition No. 31 is to ensure that site operations will incorporate the necessary fire prevention measures identified in Item 1 of Schedule "A".
- 33. The reason for Condition No. 32 is to ensure that bears, birds, rodents and insect control will be undertaken by the City in accordance with Item 1 of Schedule "A".
- 34. The reason for Condition No. 33 is to ensure that the City will implement all necessary measures to prevent any off-site litter impact from the landfilling operations.
- 35. The reason for Condition No. 34 is to ensure that no disposal of waste will occur if weather conditions make it difficult to prevent litter from leaving the Landfill.
- 36. The reason for Condition No. 35 is to ensure that a dust control program is implemented at the Landfill.
- 37. The reason for Condition No. 36 is to ensure that the City shall comply with the noise limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites".
- 38. The reason for Condition No. 37 is to ensure that sufficient queuing space will be available on-site to accommodate the peak traffic volumes anticipated.
- 39. The reason for Condition No. 38 is to ensure that the City will monitor site related and non-site related traffic levels to assess the potential need for Highway 671 improvements at the Site entrance.
- 40. The reason for Condition No. 39 is to ensure that the City will conduct regular site inspections in order to keep all facilities and site works in a tidy condition and good working order.
- 41. The reason for Condition No. 40 is to ensure that the City shall establish the proposed Contaminant Attenuation Zone shown on Figure FW-2 of Item 1, Schedule "A".
- 42. The reasons for Condition Nos. 41 and 42 are to ensure that the surface water management system will be in place.
- 43. The reason for Condition No. 43 is to ensure that surface water monitoring shall be conducted by the City in accordance with Schedule "C".
- 44. The reason for Condition No. 44 is to ensure that sediment monitoring shall be conducted by the City in accordance with Schedule "D".
- 45. The reason for Condition No. 45 is to ensure that biological monitoring shall be conducted by the City in accordance with Schedule "E".

Ministry of the Environment 808 Robertson Street, 2nd Floor KENORA, ON P9N 1X9

Ministère de l'Environnement 808 rue Robertson 2º étage KENORA ON P9N 1X9



Telephone: (807) 468-2718 Fax: (807) 468-2735

Kenora Area Office

February 13, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

Re: Review Comments for 2010/2011 Monitoring Kenora Area Waste Disposal Site A612018

The Ministry of the Environment Northern Region Technical Support Section's review of the 2010 and 2011 monitoring reports for the Kenora Area Waste Disposal Site (A612018) has been completed. A copy of the review comments is enclosed.

The reviewer has stated that there are no significant concerns with the sampling and monitoring results presented in the report. The next monitoring report for this site is due on June 30, 2015.

In the review comments you will note that the reviewer has made reference to the Kenora Area Landfill Monitoring Program Assessment (2013). Review of the surface water portion of the assessment has been completed. Review of the groundwater portions of the assessment is still outstanding. I will contact you when all comments have been received so that we can discuss the process for implementing the recommendations.

I can be reached at 468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation.

Yours truly,

Ray Boivin

Senior Environmental Officer

Kenora Area

/RB

Enclosure

c. Rick Perchuk, Operations Manager City of Kenora



AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A612018

Notice No. 3

Issue Date: May 13, 2013

The Corporation of the City of Kenora 60 Fourteenth St N Kenora, Ontario P9N 4M9

Site Location: Kenora Area Waste Disposal Site Lot Part 1, 2, Concession 1, 2

Pettypicce Unorganized Township, District of Kenora

You are hereby notified that I have amended Approval No. A612018 issued on November 5, 1999 and subsequently amended on September 19, 2003 and July 25, 2011 for use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectare , as follows:

In accordance with the Environmental Compliance Approval Application dated December 3, 2012, and the supporting documentation, Condition 52 or Notice dated July 25, 2011 is hereby changed to read:

- Effective immediately and commencing on June 30, 2015, the Owner shall prepare and submit a 52. Monitoring Report to the District Manager once every three years which shall include the following: .
 - A summary of total annual quantities of waste received on a monthly basis at the Site;
 - A drawing(s) of the Landfill indicating all groundwater, surface water, sediment, biological, b. landfill gas and geotechnical monitoring locations;
 - Tables outlining monitoring locations, analytical parameters sampled, and frequency of c. sampling and measurements;
 - An analysis and interpretation of the surface water, sediment, biological, groundwater, d. leachate, landfill gas and geotechnical monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary,
 - An assessment of surface water quality with respect to the PWQO Guidelines and trigger e. concentrations mentioned in Schedule "C";

- f. As assessment of groundwater quality in relation to the RUP and ODWO;
- g. An assessment of groundwater table elevations in relation to trigger elevations mentioned in Schedule "F";
- h. An assessment of geotechnical conditions near the east face of the Landfill;
- i. An assessment of the performance of the Contaminant Attenuation Zone;
- j. An update of changes in operations, sequencing, equipment, or procedures made or produced at the *Landfill*, and any operating difficulties encountered;
- k. Drawings showing areas of fill, buffer areas, current Landfill contours, final Landfill contours, any recommended changes to the final contours, percentage of available space utilized, and an estimate of the remaining disposal capacity and Landfill site life;
- 1. A summary discussion of *Landfill* site daily and intermediate cover requirements and erosion protection;
- m. A statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;
- n. A summary of any complaints made regarding *Landfill* operation and the *Owner* 's response and action taken;
- o. An annual waste diversion statement that includes an updated summary of per capita waste diversion activities and quantity of waste diverted using 1987 as the base year;
- p. Recommendations respecting any proposed changes in the operation of the Landfill; and
- q. Any report of the LLC to the Owner.

The reason for this amendment to the Approval is to reduce the reporting frequency as requested by the Owner and supported by the Ministry of the Environment, Northern Region, Technical Support Section.

This Notice shall constitute part of the approval issued under Approval No. A612018 dated November 5, 1999 and subsequent amendments.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;

The grounds on which you intend to rely at the hearing in relation to each portion appealed

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- 3. The name of the appellant;
- 4. The address of the appellant;
- The environmental compliance approval number,
- The date of the environmental compliance approval;
- 7. The name of the Director, and;
- 8. The municipality or municipalities within which the project is to be engaged in

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment 2 St. Clair Avenue West, Floor 12A Toronto, Ontario M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of May, 2013

Dale Gable, P.Eng.

Director

appointed for the purposes of Part II.1 of the Environmental Protection Act

NP/

e: Area Manager, MOE Kenora Area Office

 District Manager, MOE Thunder Bay - District Mukesh Pokharel, The Corporation of the City of Kenora Ministry of the Environment 808 Robertson Street, 2nd Floor KENORA, ON P9N 1X9 Ministère de l'Environnement 808 rue Robertson 2º étage KENORA ON P9N 1X9



Kenora Area Office

April 24, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

Re: Request to Change Monitoring at Kenora Area Waste Disposal Site (A612018)

This letter is in response to the Kenora Area Landfill Monitoring Program Assessment, dated January 2013, in which you request changes to the sampling requirements contained in Certificate of Approval A612018. The assessment has been reviewed by the Ministry of the Environment Northern Region Technical Support Section and staff of the Kenora Area Office. The assessment was submitted as required by condition 55 of Notice No. 2 of Certificate of Approval A612018 in order to receive District Manager agreement for changes to the monitoring program.

Lagree with the following changes:

Schedule "D" Sediment Monitoring Program

Collect samples consisting of the upper three to four centimetres of sediment once every ten years with the next sample occurring during the 2021 field season.

During the ten year sampling collect at least five replicate samples at each location in order that a statistical comparison can be made against the existing data set.

Remove oil, grease and ammonium from the parameter list in section 2.3 of Schedule "D" of Certificate of Approval A612018.

If annual surface water samples in Morgan Lake or Crystal Bay show a significant increase in metal concentrations then the sediment sampling should be repeated in 2016 and thereafter every five years.

Schedule "F" Groundwater Monitoring Program

The following monitors are to be sampled in May and August of each year: 11/4, 2/9, 1/17, 2/13, 3/8, 5/17, 6/5, 16/15, 17/15, 19/16, 23/3, 24/5 and KGS-2.

Damaged monitoring well 4/6 must be decommissioned and replaced so that it can be included in the 2015 sampling year. Once the well is replaced it is to be sampled in May and August of each year.

The parameter list in section 2.3 of Schedule "F" of Certificate of Approval A612018 remains unchanged with the exception that volatile organics only need to be analyzed in samples collected from monitoring well 2/9.

The following monitoring wells can be removed from the sampling program: 10/17, 12/4, 6/14, 7/4, 8/22, 9/6, 21/7, 13/6, 13/14, 14/6, 14/21, 15/5 and 15/17. These wells are to be maintained for future use.

Groundwater elevation measurements should be collected from the following monitors in the saddle area: 13/6, 13/14, 14/6, 14/21, 15/5 and 15/17. If the groundwater flow direction across the saddle or groundwater quality at monitor 3/8 changes significantly then groundwater sampling and analysis as these monitors will need to resume.

The following groundwater monitors are to be decommissioned in accordance with Ontario Regulation 903 (Wells): 4/6, 4/18, 20/4, 18/6, 19/6 and 22/5.

Note that all other requirements of Certificate of Approval A612018 remain in effect.

Please note that for this change to be finalized you must forward a copy of this correspondence to the Director at Environmental Approvals Access and Service Integration Branch requesting that the certificate be amended to reflect the proposed changes. See condition 55 of Notice No. 2 to Certificate of Approval A612018.

Please contact Senior Environmental Officer Ray Boivin at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation

Yours truly,

Trina Rawn

Thunder Bay/Kenora District

/RB

c. Rick Perchuk, Operations Manager, City of Kenora

b.c. Kenora File DK PT JO 250 A612018

Ministry of the Environment 808 Robertson Street, 2rd Floor KENORA, ON P9N 1X9

Ministère de l'Environnement 808 rue Robertson 2• étage KENORA ON P9N 1X9



Kenora Area Office

April 24, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

Re: Request to Change Monitoring at Kenora Area Waste Disposal Site (A612018)

This letter is in response to the Kenora Area Landfill Monitoring Program Assessment, dated January 2013, in which you request changes to the sampling requirements contained in Certificate of Approval A612018. The assessment has been reviewed by the Ministry of the Environment Northern Region Technical Support Section and staff of the Kenora Area Office. The assessment was submitted as required by condition 3 of Schedule "G" of Certificate of Approval A612018 in order to receive Regional Director approval for changes to the landfill gas monitoring program.

The requirement for landfill gas monitoring was suspended in correspondence dated December 23, 2002 from the Regional Director Northern Region Ministry of the Environment to the Solid Waste Supervisor City of Kenora. The suspension included a requirement that a statement regarding the need for landfill gas monitoring be included in each annual report. The suspension was also contingent on no significant change in the type of waste being deposited in the landfill. Note that in December 2009 the City of Kenora began to deposit domestic waste at the site.

The ministry concurs that landfill gas monitoring can once again be removed from the monitoring program but recommends that the monitoring locations be maintained for future use. The change is contingent upon the city including a statement in each monitoring report regarding the need for landfill gas monitoring. This will ensure that this issue is not lost over time and that landfill gas monitoring will be implemented should it be warranted by a change of operation at the site.

Note that all other requirements of Certificate of Approval A612018 remain in effect.

Please contact Senior Environmental Officer Ray Boivin at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation

Yours truly,

John Taylor Regional Director Northern Region

/RB

c. Rick Perchuk, Operations Manager, City of Kenora

b.c. Kenora File DK PT JO 250 A612018



Ministry of the Environment Ministère de l'Environnement

Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	Mailing Address: 60 For Physical Address: 60 F P9N 4M9 Telephone: (807)467-29	Cily of Kenora, Business/Facility N urteenth St N, Kenora, Ontario, Cal ourteenth St N, Kenora, City, Distr 990, FAX: (807)467-2992, email: m Client Type: Municipal Governmer	nada, P9N 4M9 ict of Kenora, Ontario, Canada,
Inspection Site Address:	Kenora Area Waste Disposal Site Address: Lot: Part 1 2, Concession: 1 2, Geographic Township: PETTYPIECE, Pettypiece, Unorganized Township, District of Kenora District Office: Kenora GeoReference: Map Datum: NAD83, Zone: 15, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 412893, UTM Northing: 5521117, UTM Location Description: Jones Road, LIO GeoReference: Zone: , UTM Easting: , UTM Northing: , Latitude: 49.8239, Longitude: -94.2139		
Contact Name:	Mukesh Pokharel	Title:	Environmental Supervisor
Contact Telephone:	(807)467-2990 ext	Contact Fax:	(807)467-2933
Last Inspection Date:	2009/08/07		
nspection Start Date:	2013/05/22	Inspection Finish Date:	2013/05/28
Region:	Northern 2013/03/28		

1.0 INTRODUCTION

The purpose of this inspection is to review the operation of the Kenora Area Waste Disposal Site as it relates to Certificate of Approval A612018 and the General Waste Regulation (347). All aspects of the site operation were inspected.

The certificate of approval for this site is A612018 which was issued on April 10, 2000. In addition to this, the certificate includes three notices and three amending letters. The certificate, notices and amending letters are detailed documents with a number of requirements designed to protect human health and the environment. Specifically:

- condition 9 requires that the landfill be developed, operated and maintained in accordance with all of the plans and documents listed in Schedule "A". Schedule "A" includes the Kenora Area Waste Management Master Plan which stipulates how waste is to be deposited within the fill area. During the inspection the site manager indicated that there had been some deviation from the fill sequence contained in the master plan and that efforts were underway to resume filling in accordance with the plan.
- condition 12 requires that care be taken to avoid damaging the root mat and peat during equipment use and construction within the landfill construction area. The city has completed this requirement.
- condition 17 requires that the site be locked during non-operating hours. The city is complying with this requirement.
- condition 19 prohibits the deposition of liquid industrial and hazardous wastes within the landfill site. The city is complying with this requirement.

- condition 30 prohibits any burning of waste at the landfill site. The city is complying with this requirement.
- conditions 43 to 48 require the city to undertake surface water, sediment, biological, groundwater, landfill gas and geotechnical monitoring. The city is doing the necessary monitoring.
- Notice number 1, issued September 19, 2003, adds conditions 55 and 56 to the certificate outlining the surface and groundwater trigger mechanisms.
- Notice number 2, issued July 25, 2011, updates the Certificate of Approval by redefining the owner of the site as the City of Kenora and changing the wording in conditions related to the owner. The notice also amends conditions 49 and 52 which ultimately allows the owner to dispense with the Landfill Liaison Committee with the concurrence of the Ministry of the Environment District Manager. Condition 52 stipulates the requirement for the monitoring report (see Notice number 3) and states in condition 52(2) that the owner must place a copy of the waste disposal site monitoring report in the municipal office (for public viewing) and on the city web site. The notice also adds condition 55 which outlines the requirements to change the monitoring programs outlined in conditions 43, 44, 45 or 46.
- the letter from the Ministry of the Environment Thunder Bay/Kenora District Manager to the City of Kenora Municipal Engineer, dated January 20, 2012, suspends the requirement for a Landfill Liaison Committee. A copy of the waste disposal site monitoring report is required to be kept on the City of Kenora web site. At the time of inspection the most recent monitoring report was not available on the city web site.
- the letter from the Ministry of the Environment Thunder Bay/Kenora District Manager to the City of Kenora Environmental Supervisor Pokharel, dated April 24, 2013, amends the Schedule "D" Sediment Monitoring Program and the Schedule "F" Groundwater Monitoring Program.
- the letter from Ministry of the Environment Regional Director Taylor to City of Kenora Environmental Supervisor Pokharel, dated April 24, 2013, removes landfill gas monitoring from the program but recommends that the city include a statement regarding the need for landfill gas monitoring in each monitoring report.
- Notice number 3, issued May 13, 2013, changes condition 52 of Certificate of Approval A612018 by making the next
 monitoring report due on June 30, 2015 and every three years thereafter.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A612018 including three notices and three letters.

2.1 FINANCIAL ASSURANCE:

Specifics:

Financial assurance is not required for sites owned by municipalities.

2.2 APPROVED AREA OF THE SITE:

Specifics:

The approved total area of the site is 108.1 hectares. The approved landfilling area (footprint) is 13.1 hectares.

At the time of inspection the city appeared to have good control over the boundaries of the fill area. Wastes are not being deposited outside of the approved fill area. The footprint of the landfill has been totally cleared.

2.3 APPROVED CAPACITY:

Specifics:

The site does not have an approved capacity although the site design includes a very specific final contour which, when completed, will require closure of the site. It is anticipated that the site will have sufficient capacity to last until at least 2040.

2.4 ACCESS CONTROL:

Specifics

Access to the site is controlled by a locked gate and fencing along the roadway.

2.5 COVER MATERIAL:

Specifics

Conditions 22 - 27 of the Certificate of Approval slipulate the requirements for cover material. Daily cover is required

from May 15 to September 15 and weekly cover from September 16 to May 14.

In December 2009 the city began depositing domestic waste at the site as opposed to just demolition debris, sewage sludge, ash, contaminated soil and asbestos. This has resulted in an increased need for cover to prevent windblown litter. Windblown litter is becoming a problem as the ground inside the gate and the forest along the edge is becoming contaminated with litter. In addition, there are plastic bags becoming caught in the crowns of the trees bordering the site. Also there is exposed compacted waste throughout the site.

2,6 WASTE BURNING:

Specifics:

There is no evidence of burning at this site.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

Specifics:

There is no obvious evidence of groundwater or surface water impact from this site. The site is built in a spruce bog upstream of Morgan Lake. The bog is generally wet and deposition of waste began with waste placed on top of felled trees without disturbance of the root mass or peat.

2.8 LEACHATE CONTROL SYSTEM:

Specifics:

A leachate control system has not been installed at this site. This site is a natural attenuation landfill.

2.9 METHANE GAS CONTROL SYSTEM:

Specifics:

A methane gas control system has not been installed at this site. Condition 47 of the site Certificate of Approval requires that landfill gas monitoring be conducted. On December 23, 2002, the city received authorization to postpone the gas monitoring until such time as the type of waste received at the site changes significantly. In December 2009 the city began depositing domestic waste at the site and landfill gas monitoring was resumed. On April 24, 2013 the city once again received authorization to suspend landfill gas monitoring with the caveat that a statement regarding the need for landfill gas monitoring be included in each monitoring report.

2.10 OTHER WASTES:

Specifics:

There is no evidence that wastes other than solid non-hazardous wastes are being deposited at this site.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

Inspection Report - August 7, 2009

- 1. Condition 49 of the site certificate of approval requires the establishment of a Landfill Liaison Committee. Since the committee has not met in a number of years it is recommended that a meeting be convened in the near future. The city has complied with this requirement by amending the Certificate of Approval to allow the city, with the District Manager's concurrence, to suspend the Landfill Liaison Committee.
- 2. The successful operation of the contaminant attenuation zone is based on maintaining water levels at the site outlet as low as possible. During the inspection it was noted that water levels at the pond on the west side of Jones Road were very high and there was no flow through the two culverts draining the pond. Both culverts were plugged. It is recommended that the city start a weekly inspection program during the ice free period (May October) to ensure that water levels in the discharge pond are maintained at the lowest level possible. At the time of inspection the culvert was partially blocked with debris.
- 3. All on-site wells should be locked and wells within the fill area should be protected from damage with a section of sewer access pipe or culvert. Wells MW 4-6 and MW 4-18 were unprotected within the fill area although they were marked with a brightly painted wooden marker. The city is complying with this requirement.

Incident Reports August 2009 - May 2013

5581-8BVNVT - December 3, 2010 - on a routine visit to the Kenora Area Waste Disposal Site I noted the presence of a vacuum truck and observed the operator dumping a partial load of dirty water into the waste disposal site. I spoke with the operator and advised him that the site was not approved to receive liquid and that the water should be decanted into the sanitary sewer prior to the grit and solids being deposited at the site. The operator indicated that the water was from a sewer access hole cleanout. The operator indicated that it was not normal city procedure to bring

liquids to the waste disposal site and that he wasn't given specific instructions to decant prior to dumping at the site. It appeared to me that the operator was taking a Friday afternoon shortcut. I advised the operator that he was being warned to ensure that liquids were not brought to the site and that a reoccurrence would result in possible enforcement action. Note that Certificate of Approval A612018 authorizes the disposal of grit and screenings from street cleaning and sediment basin clean-outs but does not authorize the deposit of liquids at the site.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment? No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Specifics:

A copy of the monitoring report should be available at the municipal office and on the city web site

5.0 ACTION(S) REQUIRED

- Ensure that the placement of waste at the site corresponds with the fill sequence outlined in the Kenora Area Waste Management Master Plan (1997).
- Ensure that a copy of the most recent monitoring report is available at the City of Kenora municipal office and on the City of Kenora web site. This is a requirement of condition 52(2) of Certificate of Approval A612018.
- Review the waste cover requirements contained in Certificate of Approval A612018 and take all necessary steps to ensure that waste is adequately covered.
- Resume weekly inspections of the discharge culvert to ensure that the culvert remains clear and that water levels within the attenuation zone remain as low as possible.

6.0 OTHER INSPECTION FINDINGS

- The 2011 annual report concluded that the Kenora Area Waste Disposal Site is not having any detectable impacts on the surrounding environment.
- 2. The operations and maintenance manual required by condition 10 of the Certificate of Approval is the Kenora Area

Content Copy Of Original



Ministry of the Environment Ministère de l'Environnement

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A612018

Issue Date: January 15, 2014

The Corporation of the City of Kenora

60 Fourteenth St N Kenora, Ontario P9N 4M9

Site Location: Kenora Area Waste Disposal Site

Jones Road (Highway 671) Zone 15 041289E/5521117 N

Township of Pettypiece, District of Kenora

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

for the use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectares all in accordance with the following plans and specifications:

as listed in Schedule "A"

Located: Jones Road (Highway 671), Zone 15 041289E / 5521117 N, Parts of Lots 1 and 2, Concession I, and Parts of Lots 1 and 2, Concession II, Townships of Pettypiece, District of Kenora

which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site or additional categories of wastes requires a new application and amendments to the Environmental Compliance Approval) domestic, commercial, non-hazardous solid industrial and institutional, processed organic sewage sludge, sludge from future municipal or provincial fresh water treatment facilities, non-pathological agricultural and bio- medical, and grit and screenings from street cleaning and sediment basin clean-outs;

and subject to the following conditions:

For the purpose of this environmental compliance approval, the following definitions apply:

DEFINITION OF TERMS

"Approval" means this Environmental Compliance Approval and any Schedules to it, including application and supporting documentation listed in Schedule "A";

"Director" means any Ministry employee appointed in writing by the Minister pursuant to Section 5 of the EPA as a Director for the purposes of Part II.1 of the EPA;

"Regional Director" means the Director, Ministry of the Environment, Northern Region;

"District Manager" means the Thunder Bay / Kenora District Manager, Ministry of the Environment;

"Landfill" or "Site" means Kenora Area Waste Disposal Site;

"MOE" means the Ontario Ministry of the Environment;

"ODWS" means the Ontario Drinking Water Standards;

"O & M Manual" means the Operations and Maintenance Manual;

"Owner" means the Corporation of the City of Kenora;

"PWQO" means the Provincial Water Quality Objectives; and

"RUP" means the MOE's Reasonable Use Policy (Guideline B-7, formerly 15-08).

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

GENERAL

Compliance

- 1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of the Approval and the conditions herein and shall take all reasonable measures to ensure the person complies with the same.
- 2. Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval .

In Accordance

3. Except as otherwise provided for in this Approval, the Owner shall ensure the Site is designed, developed, constructed, operated and maintained in accordance with the Conditions in this Approval and the supporting documentation listed in Schedule "A".

Other Legal Obligations

- 4. The issuance of, and compliance with, this Approval does not:
- a. relieve any person of any obligation to comply with any provision of the EPA or any other applicable statute, regulation or other legal requirement; or
- b. limit in any way the authority of the Ministry to require certain steps be taken or to request that any further information related to compliance with this Approval be provided to the Ministry;

unless a provision of this Approval specifically refers to the other requirement or authority and clearly states that the other requirement or authority is to be replaced or limited by this Approval.

Adverse Effect

5. The Owner or Operator remain responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect or impairment of air and/or water quality.

Furnish Information

- 6. Any information requested by the Director or a Provincial Officer concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall be provided in a timely manner.
- 7. The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Approval or under any statute, regulation or subordinate legal instrument, in relation to the information, shall not be construed as:
- i. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any condition of this Approval or any statute, regulation or other subordinate legal requirement; or
- ii. acceptance by the Ministry of the information's completeness or accuracy.
- 8. Any information related to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the Freedom of Information and Protection of Privacy Act, RSO 1990, CF-31.

Interpretation

- 9. Where there is a conflict between a provision of any document, including the application, referred to in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.
- 10. Where there is a conflict between the application and a provision in any documents listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment in writing.
- 11. Where there is a conflict between any two documents listed in Schedule "A", other than the application, the document bearing the most recent date shall take precedence.
- 12. The conditions of this Approval are severable. If any condition of this Approval, or the application of any condition of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

No Transfer or Encumbrance

13. No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance and is satisfied with the arrangements made to ensure that all conditions of this Approval will be carried out and that sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out.

Change of Owner

- 14. The Owner shall notify the Director, in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes in the following information:
- a. the ownership of the Site
- b. the Operator of the Site
- c. the address of the Owner or Operator

- d. the partners, where the Owner or Operator is or at any time becomes a partnership and a copy of the most recent declaration filed under the Business Names Act , R. S. O. 1990, c. B.17, shall be included in the notification
- e. the name of the corporation where the Owner or Operator is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the Corporations Information Act, R. S. O. 1990, c. C.39, shall be included in the notification.
- 15. In the event of any change in the ownership of the Site, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forward to the Director and District Manager.

LANDFILL OPERATIONS

- 16. The Landfill shall be developed, operated and maintained by the Owner in accordance with all of the plans and documents listed in Schedule "A".
- 17. a. The Owner shall operate the Landfill in accordance with the O & M Manual. The O & M Manual shall cover the following issues:
 - day-to-day operations and staff responsibilities;
 - surface water management;
 - equipment maintenance and inspection;
 - stockpile management and use of daily and intermediate cover material;
 - condition of applied cover and vegetation;
 - · odour, dust and litter control measures:
 - traffic control measures;
 - bird, bear, rodent and insect control measures;
 - fire prevention measures;
 - waste management control and record keeping procedures to ensure that only approved waste enters the Site;
 - operating instructions for management of any waste suspected to be hazardous which enters the Site; and
 - geotechnical and environmental monitoring procedures and protocols.
- b. The O & M Manual shall also identify specific construction activities designed to minimize slope and bearing failures.
- 18. Scavenging of waste at the Site is prohibited.

Construction Activity

- 19. a. Heavy Equipment Usage: Heavy equipment shall not be used on the peat or, initially, on the waste over the bog unless the peat is sufficiently frozen to support the weight of this equipment.
- b. Damage to Root Mat: Care shall be taken during construction to minimize damage to the root mat over the bog area. Areas where the root mat is badly damaged shall be treated on a case-by-case basis.

Side Slopes

20. All temporary side slopes (i.e. prior to achieving final design grades) for the fill over the bog shall be held at 6H (horizontal): 1V (vertical) (or less). The permanent side slopes for the finished portion of the Landfill shall be restricted to 6H:1V for the east face, but may be up to 4H:1V elsewhere unless

otherwise specified by a geotechnical engineer.

Site Supervision

- 21. The Owner shall ensure that the Site Supervisor has been adequately trained with respect to the following without limitation:
- i. conditions and schedules of this Approval;
- ii. the operation and management of the Landfill;
- iii. relevant waste management regulations and legislation;
- iv. environmental concerns related to the waste being handled at the Landfill;
- v. occupational health and safety concerns pertaining to the waste being handled at the Landfill; and
- vi. the placement of fill on the bog area in accordance with advice and/or specific instructions provided by a qualified geotechnical engineer.

Site Security & Operating Hours

- 22. The waste disposal operating hours of the Landfill shall be between 8:30 a.m. to 5:30 p.m., Monday to Saturday. The Landfill is closed on Sundays and statutory holidays.
- 23. The Owner shall not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under the supervision of the Landfill attendants.
- 24. During non-operating hours, the Landfill entrance gate shall be locked by the Owner to secure against access by unauthorized persons.
- 25. In the event of a requirement to respond to emergency situations, waste may be received for disposal at the Landfill outside of the normal operating hours specified in Condition 22 above, under the supervision of the Landfill attendants and subject to the approval of the District Manager.

Site Entry Requirements

- 26. The Owner shall not allow the following wastes to be disposed of at the Landfill:
- hazardous wastes as defined under Regulation 347;
- industrial liquid or slurry wastes;
- · hazardous biomedical wastes; and
- barrels, drums or other similar containers which have been contaminated by hazardous substances.
- 27. The Owner shall use the weigh scale to monitor and record all incoming wastes.
- 28. The Owner shall ensure that all vehicles entering the Landfill shall be identified by a licence number on the weigh scale billing notice.

Waste Cover Requirements

- 29. The Owner shall ensure that waste is deposited in a manner that minimizes the area of exposed waste at the Landfill working face and shall be compacted before cover material is applied.
- 30. The Owner shall ensure that from May 15 till September 15 at the end of each working day, and within two hours of the entrance gate closure, cover material is applied to all exposed waste material. Cover material shall be applied on a weekly basis during the rest of the year. The average depth of this material when soil is used shall be no less than 15 cm.

- 31. Alternative MOE approved materials such as tarps, foams or processed sewage sludge can be used for daily cover subject to the Director's approval.
- 32. The Owner shall provide a contingency supply of cover material equal to two working days worth to ensure that adequate cover is always available for application pursuant to Condition 30.
- 33. The Owner shall ensure that in areas where landfilling is not to be carried out for the period of 90 days or more, at least 20 cm of compacted clean earth cover will be applied over the wastes. If necessary, these areas may be hydroseeded during the earliest spring or fall planting season to stabilize the surface against erosion.
- 34. The Owner shall ensure that in areas where landfilling has been completed to the approved final contours, a minimum 750 mm thickness of clean earth cover will be placed over the compacted wastes. The lower 600 mm will consist of previously excavated and compacted tills, and the top 150 mm will consist of locally derived topsoil mixed with peat. These areas shall be hydroseeded during the earliest spring or fall planting season to provide protection against erosion.

Base Contours

- 35. The Owner shall ensure that extent of excavation shall be limited to base grades shown on Drawing S1-3 of Item 1, Schedule "A".
- 36. The Owner shall ensure that no excavation shall occur for those portions of the landfilling area situated over the bog.

Waste Burning

- 37. The Owner shall ensure that there is no burning of waste at the Landfill.
- 38. The Owner shall ensure that Site operations shall incorporate the fire prevention measures identified in Item
- 1, Schedule "A".

Bears, Birds, Rodents and Insect Control

39. Bears, birds, rodents and insect control shall be undertaken by the Owner in accordance with procedures outlined in Item 1, Schedule "A".

Litter Control

- 40. The Owner shall implement all necessary measures to prevent off-site litter impact from landfilling operations. These measures shall include but not be limited to the following:
- the use and maintenance of suitable portable netting and snow fencing;
- · weekly Site litter i nspections and clean-up; and
- daily inspection and no less than weekly litter pick up on Highway 671 in the vicinity of the Landfill;
- 41. The Owner shall ensure that no disposal of waste occu r s if weather conditions make it difficult to prevent litter from leaving the Landfill.

Dust Control

42. In order to keep mud and dust from the Landfill to a minimum, the Owner shall implement a dust control program. This program shall include, but not be limited to the following measures:

- during dry periods when there are visible dust emissions, regular wetting of soil cover material prior to its spreading by bulldozers over the working face;
- during dry periods wetting of the unpaved roads and the use of dust suppressants;
- installation of speed bumps near the Site entrance;
- reducing on-Site vehicle speeds by posting a maximum speed limit of 30 km/h;
- paving the Site entrance area;
- construction of the on-Site crushed stone or gravel roads;
- covering of dust laden waste material as soon as possible; and
- minimizing wind erosion by stabilizing inactive areas using vegetation.

Noise Control

43. Noise from or related to the operation of the Landfill shall be kept to a minimum and, in any event, the Owner shall comply with the noise level limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites" as contained in Schedule "B".

Traffic Control

- 44. The Owner shall ensure that sufficient queueing space is available on-Site to accommodate the peak traffic volumes anticipated.
- 45. During the first year of operation the Owner shall monitor Site related and non-Site related traffic levels to assess the potential need for Highway 671 improvements at the Site entrance.

Site Maintenance

- 46. The Owner shall conduct regular Site inspection(s) to ensure that all facilities and Site works are maintained in a tidy condition and good working order. Such inspections will check for:
- damage to perimeter fences and the maintenance of litter fences;
- · interior access road damage;
- blowing litter and other nuisance concerns;
- · leachate springs or breakouts;
- ponded water and blocked surface drainage works;
- slope failure/erosion and final cover settlement; and
- the condition of vegetation.

Any necessary repair/remedial works will be performed at the earliest possible opportunity.

LANDFILL CONTAMINANT ATTENUATION ZONE

47. The Owner shall maintain the contaminant attenuation zone shown on Fig. FW- 2 of Item 1, Schedule "A" through an MNR Land Use Permit and and maintain a Certificate of Requirement at the local Land Registry Office.

SURFACE WATER MANAGEMENT SYSTEM

- 48.1 Site grading and contours shall be maintained by the Owner such that all surface water run-off from the landfilling area is directed into the perimeter surface water management system.
- 48.2 The perimeter surface water management system consisting of swales, ditches, retention basins and the controlled outlet facilities shall be completed by the Owner . It shall be operated and maintained by the Owner in accordance with the procedures outlined in Item 1, Schedule "A". The

wetland outlet at Highway 671(Jones Road) is to be inspected every two weeks to ensure that the outlet is not blocked.

48.3 The perimeter ditching, external run-off channels, and northern storm water retention basin shall be completed in accordance with the sequence of landfilling shown on Figure S1-5.1, Item 1 of Schedule "A".

SURFACE WATER MONITORING

49. Surface water monitoring shall be undertaken by the Owner in accordance with Schedule "C".

SEDIMENT MONITORING

50. Sediment monitoring shall be undertaken by the Owner in accordance with Schedule "D".

GROUNDWATER MONITORING

51. Groundwater monitoring shall be undertaken by the Owner in accordance with Schedule "E".

LANDFILL GAS MONITORING

52. Landfill gas monitoring shall be undertaken by the Owner in accordance with Schedule "F".

GEOTECHNICAL MONITORING

53. Geotechnical monitoring shall be undertaken by the Owner in accordance with Schedule "G".

SURFACE WATER MONITORING PROGRAM TRIGGER MECHANISM

54. The Owner shall implement the proposed trigger mechanism relating to the surface water monitoring program as detailed in Section 3.5 of the document entitled "2001 Annual Report on the monitoring Programs for the Jones Road Landfill Site" dated June 2002 and amended as Item 9, Schedule "A".

GROUNDWATER MONITORING PROGRAM TRIGGER MECHANISM

55. The Owner shall implement the proposed trigger mechanism relating to the groundwater monitoring program as detailed in Section 3.5 of the document entitled "2001 Annual Report on the monitoring Programs for the Jones Road Landfill Site" dated June 2002 and amended as Item 9, Schedule "A".

CHANGES TO THE MONITORING PROGRAM

- 56.1 For any proposed changes to the monitoring program(s) outlined in Conditions 49, 50, 51, and 52, the Owner shall submit a letter to the District Manager detailing the proposed changes to the monitoring program.
- 56.2 Within fourteen (14) days of receiving written correspondence from the District Manager confirming that the District Manager is in agreement with the proposed changes to the monitoring program, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager, to the Director requesting the Approval be amended to reflect proposed changes.
- 56.3 Changes to the monitoring program can not be implemented until written concurrence from

District Manager and approval by the Director has been received.

PUBLIC COMPLAINTS

- 57. The Owner shall establish the public complaints procedure upon issuance of this Approval that shall include:
- a. designating specific staff to receive any complaints and, as soon as possible, to respond in writing indicating the proposed action to be undertaken;
- b. posting the Landfill complaints telephone number at the Landfill entrance;
- c. keeping an accurate record of the following Landfill related complaints information:
 - the name and address of the complainant,
 - the date and time.
 - the nature of the complaint,
 - details of the Owner's response to the complainant and actions taken; and

d. summarizing all complaints concerning the Landfill and the Owner responses/actions in the Monitoring Report.

MONITORING REPORT

58.1 Effective immediately and commencing on **June 30, 2015**, the Owner shall prepare and submit a Monitoring

Report to the District Manager once every three years which shall include the following: .

- a. A summary of total annual quantities of waste received on a monthly basis at the Site;
- b. A drawing(s) of the Landfill indicating all groundwater, surface water, sediment, biological, landfill gas and geotechnical monitoring locations:
- c. Tables outlining monitoring locations, analytical parameters sampled, and frequency of sampling and measurements;
- d. An analysis and interpretation of the surface water, sediment, biological, groundwater, leachate, landfill gas and geotechnical monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary;
- e. An assessment of surface water quality with respect to the PWQO Guidelines and trigger concentrations mentioned in Schedule "C";
- f. As assessment of groundwater quality in relation to the RUP and ODWO;
- g. An assessment of groundwater table elevations in relation to trigger elevations mentioned in Schedule "E":
- h. An assessment of geotechnical conditions near the east face of the Landfill;

- i. An assessment of the performance of the Contaminant Attenuation Zone;
- j. An assessment of the need for landfill gas monitoring;
- k. An update of changes in operations, sequencing, equipment, or procedures made or produced at the Landfill, and any operating difficulties encountered;
- I. Drawings showing areas of fill, buffer areas, current Landfill contours, final Landfill contours, any recommended changes to the final contours, percentage of available space utilized, and an estimate of the remaining disposal capacity and Landfill site life;
- m. A summary discussion of Landfill site daily and intermediate cover requirements and erosion protection;
- n. A statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;
- o. A summary of any complaints made regarding Landfill operation and the Owner's response and action taken:
- p. An annual waste diversion statement that includes an updated summary of per capita waste diversion activities and quantity of waste diverted using 1987 as the base year; and
- q. Recommendations respecting any proposed changes in the operation of the Landfill.
- 58.2 The Owner shall post a copy of the Monitoring Report on their website by no later than June 30 of each year

and provide a copy of the Monitoring Report to any member of the public who may request one, within five business days.

CLOSURE PLAN

- 59. One year before the Landfill is expected to stop receiving waste, the Owner shall develop and submit an updated Closure Plan. The Closure Plan shall be submitted for the Director's approval and outline post-closure maintenance and monitoring. The plan shall include, but not be limited to the following:
- a. changes to the final contour plan that may have been previously identified in the monitoring reports

recommended in the development of the detailed Closure Plan;

- b. fencing and access control;
- c. details of any additional vegetative plantings planned;
- d. the sequence and schedule for completion of final cover installation;
- e. post-closure and end-use plans;
- f. plans and schedules for the management and continued monitoring of surface water, groundwater, leachate and landfill gas;
- g. plans and schedules for the routine monitoring and maintenance of the final cover, swales, ditches, retention basins and the controlled outlet facilities;
- 60. The final cover over the entire area which was landfilled shall be completed by the Owner within

one full construction season following the date after the Landfill has stopped receiving waste. Formal notice shall be provided by the Owner to the Director upon receipt of the final load of waste to the Landfill.

SCHEDULE "A"

This Schedule "A" forms part of Approval No. A 612018 and contains documentation submitted in support to an application for the establishment and use of the Landfill.

- 1. Kenora Area Waste Management Master Plan EPA Document prepared by Fenco MacLaren and dated February 1997.
- 2. Letter dated April 10, 1997- Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E.

Zaltsberg)- Subject: Application for a Certificate of Approval for a Waste Disposal Site.

- 3. Letter dated July 2, 1997- Fenco MacLaren (T. Taylor) to Ministry of Environment and Energy (J. Barr)- Subject: Former Jones Road Waste Disposal Site.
- 4. Letter dated August 14, 1997- Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E.

Zaltsberg) - Subject: Geotechnical Monitoring: Kenora Area WMMP EPA Studies Document.

- 5. Kenora Area Waste Management Master Plan, October 1997 Photo supplements to EPA Studies Document prepared by Fenco MacLaren and dated February 1997, and September 1999.
- 6. Kenora Area Waste Management Master Plan EA Conditions of Approval Document prepared by SNC- Lavalin Engineers & Constructors Ltd. and dated January 1999.
- 7. Figure S1-6.1 as amended September, 1999- Proposed Monitoring Locations prepared by SNC-Lavalin

Eng i neers & Constructors Ltd. and dated September 1999.

8. Letter dated September 27, 1999 from Environment Canada (S. Michajluk) to the Ministry of the

Environment (E. Zaltsberg), Subject: Kenora Area Waste Management Master Plan.

9. Document entitled "2001 Annual Report on the monitoring Programs for the Jones Road Landfill Site" dated June 2002 and prepared by Azimuth Environmental Consulting Inc.

SCHEDULE "B"

This Schedule "B"forms part of Environmental Compliance Approval No. A 612018. It contains the Ministry of the Environment's February 1997 "Noise Guidelines for Landfill Sites" referred to in condition 43.

1. SCOPE

This Publication establishes sound level limits for landfill operations affecting residential or other noise-

sensitive areas . Three components of waste disposal operation are separately addressed in this guideline:

- the actual landfill Site;
- · facilities for reception, storage and mixing; and
- off-site source vehicles.

2. REFERENCES

Reference is made to the following technical publications:

- (1) NPC-101 -Technical Definitions *
- (2) NPC-102- Instrumentation *
- (3) NPC-103- Procedures *
- (4) NPC-104- Sound Level Adjustments *
- (5) NPC-205 Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (urban) (6) NPC-206-Sound Levels due to Road Traffic
- (6) NPC-232 Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)
- (7) NPC-233 Information to be Submitted for Approval of Stationary Sources of Sound
- (8) ORNAMENT, Ontario Road Noise Analysis Method for Environment and Transportation, Technical Document, Ontario Ministry of the Environment, ISBN 0-7729-6376 (1989).
- * Found in the Model Municipal Noise Control By-Law, Ontario Ministry of Env i ronment, Final Report, August 1978.

3. TECHNICAL DEFINITIONS

"Ambient sound level" means Background sound level; "Background sound level" is the sound level that is present in the environment, produced by noise sources other than the source under impact assessment. Highly intrusive short duration noise caused by sources such as an aircraft fly-over or a train pass-by is excluded from the determination of the background sound level;

"Construction Equipment" means any equipment or device designed and intended for use in construction, or material handling including but not limited to, air compressors, pile drivers, pneumatic or hydraulic tools, bulldozers, tractors, excavators, trenchers, cranes, derricks, loaders, scrapers, pavers, generators, off-highway haulers or trucks, ditchers, compactors and rollers, pumps, concrete mixers, graders, or other material handling equipment;

"Conveyance" includes a vehicle and any other device employed to transport a person or persons or goods from place to place but does not include any such device or vehicle if operated only within the premises of a person;

"Point of Reception"means any point on the premises of a person where sound or vibration originating from other than those premises is received. For the purpose of noise impact assessment of a proposed landfill operation, or an expansion to an existing landfill operation, the point of reception may be located within 30m of a dwelling or a camping area on any of the following existing or zoned for future use premises: permanent or seasonal residences, hotel/motels, nursing/retirement homes, rental residence, hospitals, camp grounds, and noise sensitive buildings such as schools and places of worship.

Other technical terms used in this publication are defined in Reference (1).

4. MEASUREMENTS, STANDARDS AND PROCEDURES

For the purpose of this Publication, all measurements shall be made in accordance with References (2), (3) and (4).

5 . SOUND LEVEL LIMITS

(1) Landfill Site

(a) General Limits: The limits for sound levels due to the landfill site operation at a Point of Reception are 45 dBA in any hour of the night, 7:00PM-7:00AM, and 55 dBA in any hour of the day, 7:00 AM-7:00 PM. These levels are expressed in terms of the One Hour Equivalent Sound Level (Leq).

The above limits are applicable under the following conditions:

- the existing ambient noise climate is assumed to be rural, i.e. the daytime and night time environmental noise level is normally below the stated limitation. Should the environment be dominated by noise sources of man-made activity, such as industry, commerce or road transportation, which produce sound in excess of the above limits, the higher sound levels may be used as the limit, provided that the noise sources are not under consideration for noise abatement by the Municipality or the Ministry of Environment and Energy.
- landfill site operation involves only "construction equipment" or "conveyances", as defined in Section 3. In this case the landfill site itself is not considered a stationary noise source, and will not be governed by the limitations set out in References [5] or [7].
- (b) Specific Limit- Impulsive Sounds: For impulsive sound from a pest control device employed in the operation of the landfill site, the sound level limit at a Point of Reception expressed in terms of the Logarithmic Mean Impulse Sound Level (LLM) is 70 dBA.
- (2) Facilities for Reception, Storage and Mixing: A landfill site utilizing equipment that does not fall under the definition of "construction equipment" or "conveyance", as defined in Section 3 is considered a

stationary noise source. The applicable sound level limits are those established for the assessment of stationary sources of sound given in References [5] and [7].

6. OFF -SITE SOURCE VEHICLES

For a landfill site employing off-site source vehicles which constitute a predominant component of the background noise, an access route shall be selected which will result in a minimum noise impact. The selection process shall be based on a detailed quantitative assessment of noise impact on individual receptors and the number of affected receptors along the alternative routes. The municipality and the affected residents must be clearly informed of any potential noise impact.

SCHEDULE "C"

This Schedule "C" forms part of Environmental Compliance Approval No. A 612018. It describes the surface water monitoring program referred to in Condition 49.

1. OBJECTIVES

The objectives for the surface water monitoring program are:

- to evaluate background surface water quality;
- to evaluate the Landfill's impact on surface water quality downstream of the Landfill;
- to evaluate the efficiency of the proposed Contaminant Attenuation Zone;
- to monitor water quality at the downstream site/attenuation zone boundary and compare this quality with the MOE's PWQO; and
- to determine the need for a contingency implementation.

2. MONITORING PLAN

The surface water monitoring plan shall be carried out by the Owner to address the stated objectives and in accordance with the details in the following table:

Location	Frequency	Parameters
SW-1 (Jones Road Culvert),	May (Indicator List)	Field Parameters: Temperature,
SW-2 (Beaubien Loop Logging	August and October	pH, Conductivity, Dissolved
Road Culvert)	(Comprehensive List)	Oxygen
SW-3 (Lunch Lake subwater		
shed control)		Comprehensive List:
SW-4 (Crystal Bay)		In-organics: Alkalinity, Ammonia,
		Arsenic, Barium, Boron,
		Cadmium, Chloride, Chromium,
		Conductivity, Copper, Iron, Lead,
		Mercury, Nitrate, Nitrite, Total
		Kjeldahl Nitrogen, pH, Total
		Phosphorus, Suspended Solids,
		Total Dissolved Solids, Sulphate,
		Zinc
		Organics: Biological Oxygen
		Demand (BOD5), Chemical
		Oxygen Demand, Phenol
		Indicator List:
		In-organics: Alkalinity, Ammonia,
		, Chloride, Conductivity, Iron,
		Nitrate, Nitrite, Total Kjeldahl
		Nitrogen, pH, Total Phosphorus,
		Suspended Solids, Sulphate.
		Organics: Biological Oxygen
		Demand (BOD5), Chemical
		Oxygen Demand, Phenol
SW-5 (Morgan Lake)	August	Field Parameters and
		Comprehensive List
SW-2 (Beaubien Loop Logging	August/ once every two years	Volatile Organic Compounds,
Road Culvert)		EPA method 642
Any flowing spring or	any sampling event	Indicator List
groundwater seepage identified		
within the saddle area		
SW-2 (Beaubien Loop Logging	May, August and October	Flow measurements
Road Culvert)		
SW-3 (Lunch Lake subwater		
shed control)		

3. **DRAINAGE**

3.1 Drainage Required: Since a build up of water on, behind or within the waste may result in the loss of stability and, potentially, slope failure, drainage shall be provided around the waste. Water

shall not be permitted to "dam up" behind the waste or pond on the waste.

3.2 Inspection of Drainage: The drainage provided in the design shall be regularly inspected to ensure that it has not been blocked (e.g., by beavers or other causes). Any blockages shall be cleared immediately.

4. CONTINGENCY MEASURES

If trigger concentrations at trigger location(s) referred to in Condition 54 are exceeded and these exceedances are due to landfilling operations, then one of the following contingency measures shall be implemented:

- construction of a control berm or weir downstream of the landfilling area to increase retention time for contaminated surface water flow within the buffer/attenuation zone:
- construction of a dispersion channel downstream of the landfilling area to force contaminated surface water into the peat layer and create a more uniform dispersion throughout the buffer/attenuation zone; and
- enlargement of the attenuation zone.

Prior to implementation, the appropriate contingency measure(s) shall be discussed with and approved by the Director.

SCHEDULE "D"

This Schedule "D "forms part of the Environmental Compliance Approval No. A 612018. It describes the sediment monitoring program referred to in Condition 50.

1. OBJECTIVES

The objectives for the sediment quality monitoring program are:

- to provide a statistical measure of sediment quality in surface water environs suitable for determining and comparing existing and future sediment quality conditions in Morgan Lake and Crystal Bay (Silver Lake);
- to evaluate the Landfill's impact on sediment quality in Morgan Lake and Crystal Bay (Silver Lake);
- to provide additional information for evaluating the efficiency of the proposed Contaminant Attenuation Zone:
- to provide an additional level of protection for detecting any contaminant migration from the Landfill site; and
- to determine the need for a contingency implementation.

2. MONITORING PROGRAM

The sediment quality monitoring program shall be carried out by the Owner to address the stated

objectives and in accordance with the following table. The interpretation of the results of sediment sampling should be based on comparison to Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario (MOE, 1992 and updates).

Location	Frequency	Parameters
SB-1 in Crystal Bay (Silver Lake)	Once every ten years (next event	Grain size analysis
	2021)	
SB-2 in Morgan Lake; and		Aluminum, Arsenic, Cadmium,
	During the ten year sampling	Cobalt, Copper, Chromium,
SB-R (reference station) to be	collect five replicate samples at	Manganese, Nickel, Iron, Lead,
located upstream of any potential	each location in order that a	Zinc, Mercury, Total Organic
influence within Silver Lake.	statistical comparison can be	Carbon, Total Kjeldahl Nitrogen,
	made against existing data.	Total Phosphorus.
Note 1: Sediment locations		
shown on Figure S1-6.1, Item 7,	If annual surface water samples	
Schedule "A" as amended on	in Morgan Lake or Crystal Bay	
Sep 1999.	show a significant increase in	
	metals concentrations, then	
Note 2: Sediment sampling	sediment sampling should be	
stations correspond with benthic	repeated in 2016 and thereafter	
sampling stations outlined in	every five years.	
Schedule "E".		

SCHEDULE "E"

This Schedule "E"forms part of Environmental Compliance Approval No. A 612018. It describes the groundwater monitoring program referred to in Condition 51.

1. OBJECTIVES

- to monitor groundwater quality in the refuse, the overburden and the bedrock;
- to identify and characterize movement of leachate-related contaminants in the overburden and the bedrock within the Landfill/Contaminant Attenuation Zone boundary;
- to monitor groundwater quality at the downgradient Landfill/Contaminant Attenuation Zone boundary and compare this quality with MOE's Objectives and Policies (ODWO, RUP);
- to confirm the existence of groundwater divides north and southeast of the landfilling area; and
- to determine the need for a contingency implementation.

2. MONITORING PLAN

2.1 The groundwater monitoring plan shall be carried out by the Owner to address the stated objectives and will include the following:

Location	Frequency	Parameters
KGS-2, 4/6, 11/4, 2/9, 1/17, 2/13,	May and August	Field Parameters: pH and
3/8, 5/17, 6/5, 16/15, 17/15,		Conductivity
19/16, 23/3, 24/5		-
		Comprehensive List:
		In-Organics: Alkalinity, Ammonia,
		Arsenic, Barium, Boron,
		Cadmium, Calcium, Chloride,
		Chromium, Conductivity, Copper,

		Iron, Lead, Magnesium, Manganese, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Potassium, Sodium, Suspended Solids (leachate only), Total
		Organics: Benzene, 1,4 Dichlorobenzene, Dichloromethane, Toluene, Vinyl Chloride, Biochemical Oxygen Demand (BOD5 leachate only), Chemical Oxygen Demand, Dissolved Organic Carbon, Phenol.
	May and August	Volatile Organics (well 2/9 only) Water Levels
following monitors from the saddle area: 13/6, 13/14, 14/6, 14/21, 15/5, 15/17.		

- 2.1.a Gorundwater monitoring wells 10/17, 12/4, 6/14, 7/4, 8/22. 9/6, 21/7, 13/6, 13/14, 14/6. 14/21, 15/5, and 15/17 must be maintained in accordance with O.Reg. 903 for future use if needed.
- 2.1.b If the groundwater flow direction across the saddle changes or groundwater quality at monitoring well 3/8 changes significantly then groundwater sampling and analysis of wells in the saddle area must be undertaken as described for monitoring well 3/8.
- 2.2 Monitoring System Maintenance: During each monitoring event, the monitoring network will be visually inspected. Changes in the physical conditions of each well will be noted and necessary repairs undertaken. Monitoring wells that are shown to be damaged beyond repair or whose integrity is in doubt for further monitoring, will be abandoned in accordance with standard procedures and replaced, if necessary.

3. CONTINGENCY MEASURES

- 3.1 If groundwater level elevation(s) at trigger location(s) are equal or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Silver Lake:
- induce groundwater recharge by pumping water from Silver Lake into an infiltration gallery/ trench in order to sustain or enhance the existing groundwater divide in the saddle area;
- pressure grouting the overburden and the upper bedrock in the saddle area to eliminate contaminate migration through the subsurface;
- installation of a cut off wall in the saddle area to eliminate contaminant migration through the subsurface; and
- leachate collection system installation.
- 3.2 If groundwater level elevation(s) at trigger location(s) are equal to or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Morgan Lake:

- induce groundwater recharge by pumping water from Morgan Lake into an infiltration gallery/trench on the top of the ridge along the Jones Road in order to sustain or enhance the existing groundwater divide:
- installation of a cut off wall in the ridge along the Jones Road; and
- leachate collection system installation.
- 3.3 Prior to implementation, the appropriate contingency measure(s) shall be discussed with, and approved by the Director.

SCHEDULE "F"

This Schedule "F" forms part of Environmental Compliance Approval No. A 612018. It describes the landfill gas monitoring program referred to in Condition 52.

OBJECTIVE: To monitor combustible gas concentrations in the unsaturated zone along the southern buffer zone (drawing S1-2, Item 1, Schedule "A") between the landfill and the office/equipment storage building. The gas probes installed during the initial site construction works will ensure that there is no gas migration between the old MNR landfill (that is to be exhumed) and the office/equipment storage building.

- 1.a The landfill gas monitoring plan is hereby suspended.
- 1.b The Owner shall maintain the existing gas probes for future monitoring should the need arise.
- 1.c The Owner shall include a statement in each Monitoring Report regarding the need for landfill gas monitoring at the Site.

SCHEDULE "G"

This Schedule "G" forms part of Environmental Compliance Approval No. A 612018. It describes the geotechnical monitoring program referred to in Condition 53.

1. OBJECTIVES

- to monitor pore pressures in the peat and very soft clay;
- to monitor the increase in the shear strength of the very soft clay with time; and
- to control the rate of landfilling (the thickness of waste and cover placed per day) and the Landfill development sequence.

2. PIEZOMETER INSTALLATIONS

- 2.1 At least four boreholes shall be drilled within Area A of the proposed landfilling area prior to the placement of waste over the peat. Their locations are shown on Figure S1-6.1, Item 7, Schedule "A". Each borehole shall be terminated 1 m below the soft clay/underlying deposit interface.
- 2.2 If unusual or unexpected conditions are encountered in any of the four boreholes mentioned in 2.1, additional boreholes may be drilled subject to the geotechnical engineer decision.
- 2.3 At each borehole location, one piezometer shall be installed near (within 0.3 m of) the peat/soft clay interface with the tip located within the peat layer. The second deeper peizometer shall be

installed within the soft clay layer with the tip located approximately 0.4 m to 1.25 m below the peat/soft clay interface depending on the thickness of the soft clay layer. In areas where the clay stratum is greater than 2 m thick, the piezometer tip shall be located 0.75 m to 1.25 m below the peat/soft clay interface. In areas where the clay stratum is less than 2 m thick, the tip shall be located 0.4 m below the interface.

In order to ensure both a rapid response (no lag time) and accurate measurements of the stress induces porewater pressure changes, pneumatic type piezometers are recommended for installation.

3. INVESTIGATION

- 3.1 Initial Investigation: Prior to any landfilling operation, the initial geotechnical investigation shall be conducted in four boreholes mentioned in 2.1. The investigation shall include:
- obtaining field vane strength profiles in soft clay;
- obtaining samples of soft clay (using a piston sampler) and performing consolidation and strength tests over a range of consolidation stress levels as necessary to provide parameters for use in stability analyses; and
- establishing the thickness of peat and soft clay layers, and the nature and hydraulic conductivity of the underlying firm deposit.
- 3.2 Geotechnical Analysis of Pore Pressures: Prior to any landfilling operation and based on the findings of the investigation mentioned in 3.1, a geotechnical engineer shall provide recommendations regarding the maximum pore pressure that can be developed in piezometers mentioned in 2.3 during the placement of waste and cover material.
- 3.3 Geotechnical Analysis of Shear Strength: Prior to any landfilling operation and based on the findings of the investigation stipulated in Section 3.1, a geotechnical engineer shall provide recommendations regarding the strength required in the very soft clay prior to the commencement of each new stage of construction.

4. MONITORING AND RESPONSE PLAN

- 4.1 Observations by Site Personnel: Site personnel shall advise the geotechnical engineer of any "unusual" behaviour or minor failures within the fill or peat/clay soil substrate, even if these can be readily fixed by site personnel as soon as they occur. Any such instances shall be evaluated by the geotechnical engineer in the context of the design and available information. The development plan shall be changed by the geotechnical engineer in order to prevent impacts on soil stability deemed to be geotechnically unacceptable.
- 4.2 Pore Pressure Monitoring: For the first year of each new stage of construction, the piezometers installed in the peat and soft clay shall be monitored daily during the first two weeks of landfilling and weekly for the remainder of the year. Subsequently, pore pressures may be measured once a month. The pore pressure data shall be reviewed monthly by the geotechnical engineer.
- 4.3 Rate of Landfilling: The measured pores pressures shall not be permitted to exceed the allowable levels mentioned in 3.2 without the written approval of the Town's geotechnical engineer, otherwise, the rate of landfilling shall be reduced such that the allowable pore pressure levels are not exceeded. The rate of landfilling (the thickness of waste and cover placed per day) in areas where there are no piezometer measurements shall not exceed the rate that was adopted in areas where pore pressures were measured.
- 4.4 Shear Strength Monitoring: At least four field vane tests shall be performed to confirm the shear strength increase in the soft clay prior to starting construction in each new stage near the east face and before placing final cover on the east face. The results from these tests shall be reviewed by the geotechnical engineer who shall give written approval before each new stage is commenced.

5. SUBSEQUENT MODIFICATIONS

This monitoring plan may be modified in accordance with experience gained during construction with the written notification of the Director by the City and a supporting letter from the City's geotechnical engineer.

Modifications recommended by the geotechnical engineer shall be assessed as to their environmental significance by a qualified environmental consultant prior to the submission of the written notification to the Director.

The Director shall approve the necessary changes, and these changes shall not be made without such approval.

The reasons for the imposition of these terms and conditions are as follows:

- 1. Conditions 1 through 15 are added to clarify legal rights and responsibilities of the Owner.
- 2. Condition 16 is to ensure that the Landfill is developed, operated, maintained and monitored by the Owner in accordance with all of the plans and documents listed in Schedule "A".
- 3. Condition 17 is to ensure that the Owner shall operate the Landfill in accordance with the O&M Manual.
- 4. Condition 18 is to ensure that scavenging of waste at the Landfill is prohibited.
- 5. Condition 19.a is to ensure that heavy equipment shall not be used on the peat or on the waste over the bog unless the peat is frozen to support the weight of the equipment.
- 6. Condition 19.b is to ensure that during the construction period care shall be taken to minimize damage to the root mat over the bog area.
- 7. Condition 20 is to specify the temporary and permanent side slopes at the Landfill.
- 8. Condition 21 is to ensure that the site Supervisor is adequately trained.
- 9. Condition 22 is to specify the operating hours of the Landfill.
- 10. Condition 23 is to ensure that the Owner will not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under supervision of the Landfill attendant.
- 11. Condition 24 is to ensure that during non-operating hours, the Landfill entrance gate shall be locked by the Owner, to secure the Landfill against unauthorized persons.
- 12. Condition 25 is to allow the Landfill to accept waste beyond the normal operating hours under the supervision of the attendant and under conditions acceptable to the MOE.
- 13. Condition 26 is to identify those wastes that are not suitable for disposal at the Landfill.
- 14. Condition 27 is to ensure that an accurate record for all incoming waste is maintained by the Owner.
- 15. Condition 28 is to ensure that all vehicles entering the Landfill are identified by licence number on the weigh scale billing notice.
- 16. Condition 29 is to ensure that waste will be deposited in a manner that minimizes the Landfill

working face and will be compacted before the cover material is applied.

- 17. Condition 30 is to ensure that cover material is applied daily from May 15th to September 15th and weekly during the rest of the year.
- 18. Condition 31 is to allow the use of a daily cover alternative material approved by the Director.
- 19. Condition 32 is to ensure that the Owner will provide a contingency supply of cover material equal to two working days worth.
- 20. Condition 33 is to ensure that in areas where landfilling is not be carried out for a period of 90 days or more, at least 15cm of compacted, clean earth cover shall be applied over the waste.
- 21. Condition 34 is to ensure that areas that have reached approved limits, will be covered with final cover material and a suitable planting material will be employed to allow for effective revegetation.
- 22. Condition 35 is to ensure that the extent of the excavation will be limited to base grades shown on Drawing S1-3, Item 1, Schedule "A".
- 23. Condition 36 is to ensure that no excavation shall occur for those portions of the landfilling area situated over the bog.
- 24 Condition 37 is to ensure that there will be no burning of waste at the Landfill.
- 25. Condition 38 is to ensure that site operations will incorporate the necessary fire prevention measures identified in Item 1 of Schedule "A".
- 26. Condition 39 is to ensure that bears, birds, rodents and insect control will be undertaken by the Owner in accordance with Item 1 of Schedule "A".
- 27. Condition 40 is to ensure that the Owner will implement all necessary measures to prevent any offsite litter impact from the landfilling operations.
- 28. Condition 41 is to ensure that no disposal of waste will occur if weather conditions make it difficult to prevent litter from leaving the Landfill.
- 29. Condition 42 is to ensure that a dust control program is implemented at the Landfill.
- 30. Condition 43 is to ensure that the Owner shall comply with the noise limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites".
- 31. Condition 44 is to ensure that sufficient queuing space will be available on-site to accommodate the peak traffic volumes anticipated.
- 32. Condition 45 is to ensure that the Owner will monitor site related and non-site related traffic levels to assess the potential need for Highway 671 improvements at the Site entrance.
- 33. Condition 46 is to ensure that the Owner will conduct regular site inspections in order to keep all facilities and site works in a tidy condition and good working order.
- 34. Condition 47 is to ensure that the Owner shall establish the proposed Contaminant Attenuation Zone shown on Figure FW-2 of Item 1, Schedule "A".
- 35. Conditions 48.1, 48.2 and 48.3 are to ensure that the surface water management system will be in place.
- 36. Condition 49 is to ensure that surface water monitoring shall be conducted by the Owner in accordance with Schedule "C".

- 37. Condition 50 is to ensure that sediment monitoring shall be conducted by the Owner in accordance with Schedule "D".
- 38. Condition 51 is to ensure that groundwater monitoring shall be conducted by the Owner in accordance with Schedule "E".
- 39. Condition 52 is to ensure that Landfill gas monitoring shall be conducted by the Owner in accordance with Schedule "F".
- 40. Condition 53 is to ensure that geotechnical monitoring shall be conducted by the Owner in accordance with Schedule "G".
- 41. Condition 54 and 55 are to ensure that trigger mechanisms approved by the Director are followed by the Owner.
- 42. Conditions 56.1, 56.2, and 56.3 are to clarify the requirements for amending the monitoring programs.
- 43. Condition 57 is to ensure complaints at the Site are handled properly.
- 44. Condition 58 is to ensure that a Monitoring Report shall be prepared by the Owner and submitted to District Manager.
- 45. Condition 59 is to ensure that one year before the Landfill is expected to stop receiving waste, the Owner shall submit an updated Closure Plan for the Director's approval.
- 46. Condition 60 is to ensure that the final cover over the entire landfilling area shall be completed by the Owner within one full construction season following the date after the Landfill has stopped receiving waste.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A612018 issued on November 5, 1999 and all subsequent amendments.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- 1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- 2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- 3. The name of the appellant;
- 4. The address of the appellant;
- 5. The environmental compliance approval number;
- 6. The date of the environmental compliance approval;
- 7. The name of the Director, and:
- 8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment 2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal 's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 15th day of January, 2014

Dale Gable, P.Eng.

Director

appointed for the purposes of Part II.1 of

the Environmental Protection Act

NP/

c: Area Manager, MOE Kenora

c: District Manager, MOE Thunder Bay - District

Mukesh Pokharel P. Eng., The Corporation of the City of Kenora

Ministry of the Environment and Climate Change

435 James Street South Suite 331 Thunder Bay ON P7E 6S7

Tel.: (807) 475-1546 Fax: (807) 475-1754 Ministère de l'Environnement et de l'Action en matière de changement climatique

435, rue James sud Bureau 331 Thunder Bay ON P7E 6S7 Tél.: (807) 475-1546 Téléc.: (807) 475-1754



MINISTRY OF THE ENVIRONMENT

DEC - 3 2014

Kenora Area Office

November 25, 2014

MEMORANDUM

TO:

Ray Boivin

Senior Environmental Officer

Kenora Area Office

FROM:

Shannon Heggie

Regional Hydrogeologist Thunder Bay Office

RE:

2014 Revised Triggers and Contingency Plan

City of Kenora

Kenora Municipal Landfill (Jones Road)

Kenora, ON

C of A #A612018, amended January 15, 2014

Introduction and Purpose

As requested, I have reviewed the groundwater-related portions of the report prepared by Azimuth Environmental Consulting (the consultant), entitled: "Revised Trigger Mechanism and Contingency Plan, Kenora Area Landfill", dated September 2014.

The following document was referenced for background site information: Ministry of the Environment memorandum: "Re: Kenora Area Landfill, Monitoring Program Assessment – 2013, C. of A. No: A612018", prepared by Simon Haslam (Regional Hydrogeologist), dated November 20, 2014.

The purpose of this memo is to evaluate the proposed revised trigger mechanisms and contingency plan. I have forwarded this review to the appropriate Ministry of the Environment and Climate Change Surface Water Specialist, for review of the proposed surface water triggers for the site.

Background

The Kenora Municipal Landfill (the site) is located immediately north of Highway 671 (Jones Road), ~22 km northeast of the City of Kenora, Ontario. The site began operations in 2000, and received construction and demolition waste materials from 2000 to 2009 to provide a stable footprint for the waste cells. Since 2009, the site has received solid waste from the City of Kenora. In 2011, cover material and dewatered sewage sludge was applied to level the working surface. The site has a current waste area of 4 ha, the approved waste footprint is 13.1 ha, and total site area is 108.1 ha (C of A #A612018, amended Jan. 15, 2014).

The site is located near the top of a small watershed located between Crystal Bay in Silver Lake to the north (~400 m), and Morgan Lake to the south (~400 m). Surface drainage and run-off is primarily to the northeast, through a bog and wetland complex toward a small surface water pond adjacent to a culvert beneath Jones Road. This surface water flow continues through several channels, bogs, wetlands and ponds into Morgan Lake (~1600 m). A topographic depression is also located northeast of the waste cells ("saddle"), which may allow some site drainage to migrate into Crystal Bay during high flow events. An additional minor drainage path is located south of the site and parallel to Jones Road, and may permit some flow towards the south and Morgan Lake.

Subsurface soils within the bog and wetland complex forming the base of the landfill are composed of a surficial layer of peat (≤ 3 m thick), overlying clayey silt (2-8 m thick) on silty sand till (~2-30 m thick), on granodiorite bedrock. Groundwater elevation measurements and borehole logs indicate that overburden groundwater flow is controlled by bedrock topography and is towards the northeast within a small bedrock valley underlying the bog and wetland complex. Hydraulic conductivity measurements within the till suggest that flow rates may range from 1-50 m/year. MOECC data sources indicate that there are no registered private water supply wells within 2 km of the site.

Discussion and Recommendations

Based on groundwater and surface water monitoring and sampling results from 2000-2013, the consultant has recommended amending the established groundwater and surface water trigger criteria for the site and associated contingency measures, as required by the C of A (#A612018). Specifically, this includes the groundwater level triggers for the "saddle" area and along Jones Road, and the down-gradient surface water quality triggers.

With respect to the trigger limits on water levels through the bedrock "saddle" area to the north of the waste area, the consultant has proposed a requirement for groundwater elevations at MW15/5 to be higher than at MW3/8. Historically the groundwater elevations in the "saddle" area consistently show flow towards the site, with the exception of one occurrence in May 2007 during high flow conditions. If groundwater elevations do not meet the proposed criteria in the "saddle" area, then a review of groundwater quality at MW3/8 would be conducted to assess the risk for off-site leachate migration. Groundwater quality triggers for chloride, total dissolved solids (TDS) and alkalinity were established for MW3/8, based on the MOE Guideline B-7. MW3/8 is not currently impacted by landfill leachate, therefore average water quality values from this well were used for background in the trigger limit calculations. If both groundwater elevation requirements and trigger criteria are not met, then further evaluation would be conducted along with a remedial strategy.

• It is my opinion that the proposed groundwater elevation criteria for the bedrock "saddle" area and the associated groundwater trigger criteria are appropriate, and I am in agreement with the proposed amendments and contingency measures. However, it is recommended that monitoring wells MW13/6 and MW14/6 are maintained, in order to assess down-gradient groundwater quality if the amended trigger elevations are exceeded for MW3/8 and MW15/5.

With respect to the groundwater levels along Jones Road for MW5/17, MW11/4, MW16/15, MW18/6 and MW19/16, the consultant has stated that the established trigger elevations have not been exceeded during the past ten (10) years of monitoring at the site. Specifically, groundwater levels have not been within 2.5 m of the trigger elevations, with the majority being >5 m lower than the trigger elevations. The consultant has recommended that the use of groundwater level triggers along Jones Road is discontinued.

While the groundwater levels in monitoring wells along Jones Road have not exceeded
the trigger elevations over the past 10 years, there is no certainty that groundwater
elevations will remain within this range during landfilling operations over the long term,
due to potential mounding of the groundwater table and other climate-related effects.
Therefore, I do not agree with the discontinuation of the use of groundwater level
triggers along Jones Road.

The down-gradient surface water quality triggers are used to ensure that leachate reaching the peat bog and Morgan Lake is sufficiently attenuated. The consultant has proposed new surface water trigger parameters and limits based on dilution within the watershed.

• It is recommended that a MOECC Surface Water Specialist reviews the proposed surface water trigger parameters and limits for this site.

Closure

If you have any questions regarding the above comments and recommendations, do not hesitate to contact me. The purpose of the preceding review is to provide advice to the Ministry of the Environment and Climate Change regarding groundwater and subsurface soil conditions based on the information provided in the above referenced documents. The conclusions, opinions and recommendations of the reviewer are based on information provided by others, except where otherwise specifically noted. The Ministry cannot guarantee that the information that has been provided by others is accurate or complete. A lack of specific comment by the reviewer is not to be construed as endorsing the content or views expressed in the reviewed material.

Shannon Heggie, M.Sc., P.G. Regional Hydrogeologist

c: Paula Spencer, Surface Water Specialist, MOECC Northern Region



Environmental Assessments & Approvals

June 29, 2015

AEC 15-020

City of Kenora Waste Management Department 1 Main Street South Kenora, Ontario P9N 3X2

Attention:

Mukesh Pokharel, P.Eng.

Environmental Supervisor

Re:

Response to MOECC Comments Regarding the Revised Trigger Mechanism & Contingency Plan – Kenora Area Landfill

Dear Mukesh:

This letter is intended to address the Ministry of Environment and Climate Change (MOECC) comments regarding the proposed revised trigger mechanism & contingency Plan for the Kenora Area (Jones Road) Landfill (Azimuth, September - 2014).

The MOECC response document (November, 2014), which was provided to the City via email on June 23, 2015 included comments related to the ground water component of the revised trigger mechanism document. In reviewing this document, the comments provided by the MOECC seem appropriate and revisions to the revised trigger mechanism document can be made to re-incorporate the trigger ground water elevations along Jones Road. The one item of note is that although the MOECC reviewer would like MW18/6 remain in the trigger assessment, it has been removed from the monitoring program and decommissioned as part of the 2012 monitoring program assessment completed by Azimuth and approved by the MOECC in April 2013. The rationale for this removal / decommission was that the location was routinely dry and redundant based on the other monitoring wells in the area. However, as MW5/17, 11/4, 16/15 & 19/16 are all part of the current ground water monitoring program, water levels are already conducted at these locations such that the trigger assessment can be readily conducted and provide appropriate coverage for establishment of ground water elevations along Jones Road.



As no comments have been received for the proposed surface water trigger revisions at this time, it is proposed that incorporation of the MOECC comments to the revised trigger mechanisms and contingency plan be deferred such that the document can be updated to incorporate all comments.

If you have any questions or comments, please call us.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Colin Ross, B.Sc., P.Geo.

Hydrogeologist



AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A612018

Notice No. 1 Issue Date: September 11, 2015

The Corporation of the City of Kenora 60 Fourteenth St N Kenora, Ontario P9N 4M9

Site Location: Kenora Area Waste Disposal Site

Lot Part 1, 2, Concession 1, 2

Pettypiece Unorganized Township, District of Kenora

You are hereby notified that I have amended Approval No. A612018 issued on January 15, 2014 for a 13.1 hectare landfilling area and a composting facility within a total site area of 108.1 hectares, as follows:

I. The pre-amble is amended to read as follows:

for the use and operation of a waste disposal site encompassing a 13.1 hectare landfilling area and a composting facility within a total site area of 108.1 hectares

II. The following definition replaces previously defined term:

"MOECC" means the Ontario Ministry of the Environment and Climate Change and it replaces the term: "MOE" previously defined as the Ontario Ministry of the Environment;

III. The following definitions are added:

"Compost" has the same meaning as set out in the document "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Composting" has the same meaning as set out in the document "Ontario Compost Quality Standards" dated July 25, 2012, as amended. Furthermore, Composting must be conducted under controlled engineered conditions designed to decompose and stabilize organic matter. Exposure of organic matter under non-engineered conditions resulting in uncontrolled decay is not considered Composting;

Compost Quality Standards" means the Ministry standards for Category A Compost as set out in the document entitled "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Curing" means a biodegradation process that has a slower rate of decomposition, and lower biological activity and oxygen demand. This phase of the process is characterized by: reduced temperatures, lower moisture content and lower odour generation than previous phases of the operation;

"Compost" means the Leaf and Yard Waste that has been fully processed, as required, and is considered ready for sampling and testing for compliance with the Compost Quality Standards;

"Immature Compost" means the Leaf and Yard Waste which has been thermophilically Composted but not Cured and screened or screened but not cured, or screened and cured but failed the maturity requirement;

"Leaf and Yard Waste" means waste consisting of grass, leaves and other plant materials but not Christmas trees, tree limbs or other woody materials in excess of 7 centimetres in diameter;

"Standards Document" means the Ministry's document entitled "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Residual Waste" means waste resulting from the Leaf & Yard Waste processing activities at the Composting Facility and that is destined for final disposal or further off-Site processing at a Ministry-approved waste disposal site;

"Rejected Waste" means the incoming waste inadvertently received at the Composting Facility and deemed by Owner to contain waste that does not meet the incoming Leaf & Yard Waste quality criteria set out in this Approval or that cannot be Composted and that is destined for final disposal or further off-Site processing at a Ministry-approved waste disposal site;

"Trained Composting Facility Personnel" means an employee trained or knowledgeable through instruction and/or practice and able to carry out any necessary duties related to Composting and Curing of the Leaf & Yard Waste as approved in this Approval;

"Untested Compost" means the Leaf & Yard Waste that has been fully processed, as required, and is considered ready for sampling and testing for compliance with the Compost Quality Standards;

IV. The following Conditions are amended to read as follows:

Litter Control

- 40. The Owner shall implement all necessary measures to prevent off-Site litter impacts from the Site.

 These measures shall include but not be limited to the following:
 - a. the use and maintenance of suitable portable netting and snow fencing;
 - b. weekly Site litter inspections and clean-up; and
 - c. daily inspection and no less than weekly litter pick up on Highway 671 in the vicinity of the Site;

Dust Control

a. during dry periods when there are visible dust emissions, regular wetting of soil cover material
prior to its spreading by bulldozers over the working face and regular wetting of the windrows in
the Composting Facility;

CLOSURE PLAN

 h. closure of the Composting Facility including removal of waste and compost and any permanent infrastructure and equipment used at the Composting Facility.

V. The following Conditions are added:

- 48.4 The Owner shall ensure that the leachate generated at the Composting Facility is contained and inflitrates into the Landfill footprint area.
- 48.5 The Owner shall ensure that the run-off from the Composting area is directed away from the Curing area and from the Untested Compost and Compost areas.

MONITORING REPORT

- 58.1 r. The following information regarding the operation of the Composting Facility:
 - (i) annual amount and quality of Compost produced and used at the Site;
 - (ii) number of Composting and Curing windrows and the status of processing at the end of the operating year;
 - (iii) amount of unprocessed Leaf & Yard Waste temporarily stored at the Site at the end of the operating year;
 - (iv) amount of Compost temporarily stored (unused) at the Site at the end of the operating year.

61. COMPOSTING FACILITY

- 61.1 (a) The Composting Facility is hereby approved to operate in accordance with Items #10 through #13 in Schedule "A" and the Conditions in this Approval.
 - (b) The Leaf and Yard Waste received at the Composting Facility shall not exceed the maximum concentrations for metals listed in Column 2, Table 3.2 of the Standards Document.

- 61.2 All Leaf and Yard Waste arriving at the Composting Facility shall be inspected by an attendant, prior to its acceptance at the Site, to ensure it meets the requirements of this Approval.
- 61.3 The Owner shall ensure that any Residual Waste resulting from handling of the Leaf and Yard Waste at the Composting Facility or any waste that is not the Leaf and Yard Waste inadvertently accepted at the Composting Facility, are removed from the Composting Facility by the end of the operating day in which it was received and landfilled at the Site, as approved.
- 61.4 The Leaf and Yard Waste shall be incorporated into windrows upon arrival at the Site.
- 61.5 All Leaf and Yard Waste Composting and Curing shall take place within the approved landfilling footprint and it shall be undertaken by the Trained Personnel.
- 61.6 All Leaf and yard Waste that is accepted at the Composting Facility shall be processed in accordance with the following or or as required in the Standards Document for production of Category A Compost:

(1) COMPOSTING WINDROWS

- (a) the constituents of the Leaf and Yard Waste shall be mixed to ensure that the incoming feedstocks are evenly blended prior to Composting and so that the Carbon to Nitrogen ratio of 25:1 to 30:1 is achieved in the waste destined for the Composting windrows;
- (b) Composting windrows shall be constructed at bulk densities which promote aerobic conditions; and
- (c) the height of the Composting windrows shall not exceed 2 metres as proposed in Item #12 included in the attached Schedule "A".

(2) COMPOSTING REQUIREMENTS

- (a) all Leaf and Yard Waste being composted shall be held at a temperature of at least 55
 C for a minimum of fifteen (15) days cumulative to ensure effective pathogen inactivation;
- (b) for sections of the Composting windrow constructed during the same time period, the temperature readings shall be taken every 15 metres along the length of the Composting windrow section or at six (6) representative locations, whichever method yields more readings locations;
- (c) during active Composting, the temperature of the Leaf and Yard Waste being Composted shall be monitored and recorded daily during the pathogen inactivation period and a minimum of weekly during the remainder of the active Composting process;

- (d) (i) during the fifteen (15)-day pathogen inactivation period of the Composting process, the windrows shall be turned at least five (5) times;
 - (ii) following the completion of the pathogen inactivation period of the Composting process, regular turning shall be carried out to provide aeration so that aerobic conditions are maintained within the Composting windrows and to optimize the Composting temperatures.

(3) CURING REQUIREMENTS

- (a) the Owner shall not start the Curing process until the active Composting is completed as shown by a slower rate of decomposition, and lower biological activity and oxygen demand which are characterized by:
 - (i) reduced temperatures;
 - (ii) lower moisture content; and
 - (iii) lower odour generation than previous phases of the operation.
- (b) Immature Compost shall be cured for six (6) months or if Immature Compost is cured for less than six (6) months, it shall meet the following maturity requirements:
 - (i) has been cured for a minimum period of 21 days from the day the last portion of material went into the batch, and the respiration rate is:
 - (A) less than, or equal to, 400 milligrams of oxygen per kilogram volatile solids (on a dry weight basis) per hour; or,
 - (B) less than, or equal to, 4 milligrams of carbon in the form of carbon dioxide per gram of organic matter (on a dry weight basis) per day.
- (c) (i) during Curing, the Immature Compost shall be turned at least once per month, or more frequently as required to maintain aerobic conditions;
 - (ii) in circumstances where it is not feasible to turn the Curing windrows as required in this Approval (ie during the extreme weather conditions or cold causing frozen material) and the turning frequency is decreased, the minimum curing durations shall account for the time periods during which the biological activity becomes dormant or turning is not feasible and the minimum Curing duration period shall be as long as it takes to turn the Curing windrow once for each month of the required Curing, with at least one (1) month between turns;
- (d) during the first six (6) months of the Immature Compost Curing, the temperature of the Curing windrows shall be measured and recorded at least weekly.

(4) COMPOSTING & CURING MOISTURE REQUIREMENTS

- (a) moisture levels in the windrows during the Composting and during the Curing shall be maintained between 40 and 55%;
- (b) only clean water shall be used to irrigate the Composting and Curing windrows and for windrows dust control purposes as proposed in Item #12 included in the attached Schedule "A";

(5) WINDROWS MANAGEMENT

- (a) Composting and Curing windrows shall be arranged in a manner which permits equipment access to the processing and storage areas for efficient turning of the windrows and to allow access for emergency vehicles;
- (b) turning of the Curing windrows shall only take place during favourable wind conditions to minimize potential off-site odour impacts;

(6) PROCESS PROGRESSION TRACKING

- (a) all sections of the Composting windrow constructed during the same time period shall be marked by a sign or label that shall be clearly visible for the purpose of tracking the active Composting / Curing process, inspection and record keeping.
- 61.7 The Owner shall characterize the incoming Leaf and Yard Waste in accordance with the feedstock characterization requirements set out in Part IV of the Standards Document.
- 61.8 Prior to being used as Compost at the Site, the Untested Compost shall be monitored for quality as follows:
 - (a) composite samples shall be collected in accordance with the methodology and frequency stated in Part IV of the Standards Document;
 - (b) samples shall be analyzed for criteria listed in Table 3.1 and Table 3.3 of the Standards Document; and
 - (c) all production records shall be reviewed to ensure temperature and residency time requirements for pathogen inactivation and Compost maturity have been meet.
- 61.9 (a) Compost that meets the Category A Compost Quality Standards may be used at the Site as a soil supplement.
 - (b) Before any off-Site use of the Category A Compost produced at the Site, the Owner shall notify the District Manager a minimum of fifteen (15) days prior to the proposed use.

- (c) Before any Category A Compost produced at the Site is sold or distributed for an off-Site use, the Owner shall demonstrate compliance with the labelling requirements of the Category A Compost Quality Standards.
- (d) The processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards and which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the pathogen reduction requirements and the pasteurization temperature and residency time requirements but not with the maturity requirements set out in the Standards Document is considered to be an Immature Compost and shall:
 - (i) continue to undergo curing at the Site;
 - (ii) be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the landfilling requirements of the Approval; or
 - (iii) be transferred off-Site as a waste and be disposed of or be further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (e) The processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards and which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity requirements but not with the pathogen reduction requirements and/or the pasteurization temperature and residency time requirements set out in the Standards Document is considered to be a waste and shall:
 - (i) be returned to the Composting process for pasteurization as set out in this Approval;
 - (ii) be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the requirements of the Approval; or
 - (iii) be transferred off-Site as a waste and be disposed of or further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (f) If the processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards exceeds the maximum concentrations for metals in Compost, as set out in Table 3.1 of the Standards Document, but meets the maximum concentrations for metals in the feedstock listed in Table 3.2 of the Standards Document, it shall
 - be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the requirements of the Approval; or
 - (ii) be transferred off-Site as a waste and be disposed of or further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.

RECORDS KEEPING

61.10 The Owner shall maintain the following records as relevant to the operation of the Composting Facility:

(1) Daily Activities

- (a) The Owner shall maintain a written or digital record of activities undertaken at the Composting Facility. All measurements shall be recorded in consistent metric units of measurement. The record shall include, as a minimum, the following information:
 - (i) date, quantity, source and type of the Organic Waste (including any analytical data), received at the Site;
 - (ii) date, quantity, type and the destination of Compost, used at the Site;
 - (iii) date, quantity, type and the destination of the total Residual Waste, landfilled at the Site or transferred from the Site for final disposal;
 - (iv) date, quantity, type and the destination of the Rejected Waste landfilled at the Site or transferred off-Site;
 - (v) waste processing activities undertaken at the Site, including windrow construction, irrigation and turning activities;
 - (vi) monitoring and sampling activities; and
 - (v) housecleaning activities.

(2) Sampling & Testing Records

- (a) The Owner shall establish and maintain a written or digital record of all sampling and testing activities at the Composting Facility. This record shall include, as a minimum, the following information:
 - (i) waste sampled, sample collection locations and volume collected;
 - (ii) day and time of collection;
 - (iii) sample handling procedures;
 - (iv) name of the person undertaking the sampling;
 - (v) parameters tested for and the results;
 - (vi) name of the laboratory facility conducting the testing, if applicable;
 - (vii) conclusions drawn with respect to the results of the monitoring and testing.

(3) Monitoring Records

- (a) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Composting Facility as required by this Approval. This record shall include, as a minimum, the following information:
 - (i) temperature in the Leaf and Yard Waste Composting and Curing windrows; and
 - (ii) moisture level in the Leaf and Yard Waste Composting and Curing windrows.

IV. The following documents are are added to Schedule "A":

- Environmental Compliance Approval Application dated February 7, 2014, signed by Richard Perchuk, The Corporation of the City of Kenora.
- 11. Letter dated April 28, 2014, from Mukesh Pokharel, The Corporation of the City of Kenora, to Sara Sideris, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "Kenora Area Landfill Design and Operations Report" prepared by the City of Kenora and dated 2014.
- 12. Letter dated October 29, 2014, from Mukesh Pokharel, The Corporation of the City of Kenora, to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, providing additional information on the composting process parameters, the design of the composting facility and the proposed location of the composting facility on the site plan.
- Letter dated March 6, 2015, from Mukesh Pokharel, The Corporation of the City of Kenora, to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, providing additional information on the proposal.

VII. The following reasons are added:

Conditions 61.1 through 61.10 are included is to ensure the Composting Facility is constructed and operated in accordance with the Owner's application, supporting documentation and the requirements of the Standards Document.

The reason for this amendment to the Approval is as follows:

to approve composting of the leaf and yard waste at the Site and the use of the Compost as a soil supplement at the Site.

This Notice shall constitute part of the approval issued under Approval No. A612018 dated January 15, 2014, as amended.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- 2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- The name of the appellant;
- 4. The address of the appellant;
- The environmental compliance approval number;
- The date of the environmental compliance approval;
- The name of the Director, and;
- 8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment and Climate Change 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 11th day of September, 2015

Dale Gable, P.Eng.

Director

appointed for the purposes of Part II.1 of the

le D. Galle

MW/

c: Area Manager, MOECC Kenora

District Manager, MOECC Thunder Bay - District
Mukesh Pokharel / Richard Perchuk, The Corporation of the City of Kenora

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Ministry of the Environment and Climate Change Ministère de l'Environnement et de l'Action en matière de changement climatique

AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A612018 Notice No. 2

Issue Date: September 15, 2015

The Corporation of the City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Site Location: Kenora Area Waste Disposal Site

Lot Part 1, 2, Concession 1, 2

Pettypiece Unorganized Township, District of Kenora

You are hereby notified that I have amended Approval No. A612018 issued on January 15, 2014 for use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectare, as follows:

A) Site Security and Operating Hours

- I. Condition 22 of the Environmental Compliance Approval No. A612018 is hereby amended such that the revised Condition 22 read as follows;
- 22. The waste disposal operating hours of the *Landfill* shall be between 8:30 a.m. to 5:30 p.m., Monday to Saturday. The *Landfill* shall remain closed on statutory holidays.
- II. The following Condition 22.1 is added to the Environmental Compliance Approval No. A612018;
- 22.1 Notwithstanding Condition No. 22, the *Landfill* site can undergo limited operation on Sundays from 10 a.m to 4 p.m. subject to the following restictions;
 - a) Only construction and demolition wastes are to be moved from the Kenora Area Waste Transfer Site to the *Landfill* site. No other types of waste are to be moved on Sundays.
 - b) Once deposited at the site, the construction and demolition waste is not to be moved or otherwise pushed.
 - c) The *Landfill* site gate is to remain closed when loads are being dumped at the site and locked between the loads in order to prevent access to the site by unauthorized persons.

B) Revised Surface Water and Groundwater Trigger Mechanism & Contingency Plan

I. Revised Trigger Mechanism & Contingency Plan, as outlined in Report listed as item No. 49 of the Schedule A, is hereby approved.

II. Condition 54 of the Environmental Compliance Approval No. A612018 is hereby revoked and replaced as follows;

54. The *Owner* shall implement the Revised Trigger Mechanism and Contingency Plan as outlined in item No. 49 of the Schedule A entitled "Revised Trigger Mechanism & Contingency Plan, Kenora Area Landfill, prepared for City of Kenora by Azimuth Environmental Consulting Inc., dated July 2015."

III. Condition 55 of the Environmental Compliance Approval No. A612018 is hereby revoked and replaced as follows;

- 55. Within fourteen (14) days of receiving written correspondence from the District Manager confirming that the *District Manager* is in agreement with the proposed Contingency Plan as per Section 3.8 and 3.9 of the Revised Trigger Mechanism & Contingency Plan (item No. 49 of the Schedule A), the *Owner* shall forward a letter identifying the proposed Contingency Plan and a copy of the correspondences from the *District Manager*, to the *Director* for Approval .
- IV. Section 4 of Schedule "C" entitled 'Contingency measures", is hereby revoked.
- V. Section 3 of Schedule "E" entitled 'Contingency measures", is hereby revoked.

C) Monitoring Report

I. Condition 58.1(g)of the Environmental Compliance Approval No. A612018 is hereby amended such that the revised Condition 58.1(g) read as follows;

58.1(g) An assessment of groundwater table elevations in relation to trigger elevations as outlined in item No. 49 of the Schedule A entitled "Revised Trigger Mechanism & Contingency Plan, Kenora Area Landfill, prepared for City of Kenora by Azimuth Environmental Consulting Inc., dated July 2015."

D) Schedule A

The following Items are hereby added to Schedule "A" and form part of the Environmental Compliance Approval No. A612018;

- 47. Application for amendment of the Environmental Compliance Approval dated October 17, 2014, and supporting documentation.
- 48. Report entitled Revised Trigger Mechanism & Contingency Plan, Kenora Area Landfill, prepared for City of Kenora by Azimuth Environmental Consulting Inc., dated September 2014.
- 49. Report entitled "Revised Trigger Mechanism & Contingency Plan, Kenora Area Landfill, prepared for City of Kenora by Azimuth Environmental Consulting Inc., dated July 2015."

The reasons for this amendment to the Approval are as follows:

- 1. The reason for amending Condition No. 22 and 58.1(g) is all in accordance with the application for approval October 17, 2014 and received on October 21, 2014, and supporting information and documentation.
- 2. The reason for adding Condition No. 22.1 is to allow the limited operation of the waste disposal site on Sundays for accepting the construction and demolition waste.

- 3. The reason for replacing Condition No. 55 is to implement the Contingency Plan in order to prevent impacts from the landfill operations.
- 4. The reason for revoking Section 4 of the Schedule C and Section 3 of the Schedule E is that specific Contingency measures will now be undertaken as outlined in Section 3.8 of the currently approved Revised Trigger Mechanism and Contingency Plan (item No. 49 of the Schedule A).

This Notice shall constitute part of the approval issued under Approval No. A612018 dated January 15, 2014.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- 1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- 2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- 3. The name of the appellant;
- 4. The address of the appellant;
- 5. The environmental compliance approval number;
- 6. The date of the environmental compliance approval;
- 7. The name of the Director, and:
- 8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment and Climate Change 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5

* Further information on the Environmental Review Tribunal 's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 15th day of September,

Dale Gable, P.Eng.
Director
appointed for the purposes of Part II.1 of
the *Environmental Protection Act*

KH/

c: Area Manager, MOECC Kenora

c: District Manager, MOECC Thunder Bay - District

Mukesh Pokharel, The Corporation of the City of Kenora



Environmental Assessments & Approvals

June 7, 2017

AEC 17-020

Ministry of Environment & Climate Change Thunder Bay District Office 435 James St South Suite 331B Thunder Bay, ON P7E 6S7

Attention:

Drew Stajkowski - District Manager

Re:

Jones Road Landfill Site — Proposed Contingency Action Plan for Trigger Mechanism Exceedance

Dear Mr. Stajkowski:

The purpose of this correspondence is to provide the Ministry of Environment & Climate Change (MOECC) District Office notice that the Jones Road landfill Site has encountered an exceedance of the current Trigger Mechanism & Contingency Plan (Azimuth, 2014).

This exceedance was for boron in the downstream surface water location SW-2, which indicated concentrations above the trigger limit of 0.2 mg/L for two of the three monitoring events in 2016 (0.3 mg/L – May & 0.21 mg/L – October). As the established trigger is for parameter exceedances on more than half the monitoring events in a given sampling year, confirmatory sampling was initiated with the first of the two confirmatory samples being collected on November 18, 2016. Analysis for all three trigger parameters (ammonia, chloride and boron) was completed, while duplicates were submitted to separate laboratories (Maxxam – Winnipeg & ALS – Thunder Bay), both of which are CALA accredited laboratories. The results which are summarized in the appended surface water chemistry tables for SW-1 and SW-2, indicate that the boron concentrations remained above trigger criteria, albeit only minimally. It is also noted that the concentrations have remained relatively consistent throughout 2016 into 2017, despite the exceedance, while other trigger parameters are well below their associated trigger values. Although two sampling events are required within a two month period, the winter



conditions did not permit surface water samples to be collected until the Spring 2017 monitoring event.

Given the persistent, albeit only slightly exceeded boron concentrations, further action is required to more adequately assess the boron source and migration mechanism. Currently, the closest downgradient monitoring overburden well MW2/9 has not shown impacts and boron concentrations are typically below detection limits. Similar results are observed a MW6, which is further downgradient and upstream of SW-1.

Given the lack of leachate impacts in the downgradient ground water, specifically boron, as well as the lack of surface water seepage or flow in the area intervening the waste mound and SW-1, it is uncertain as to why the boron concentrations are elevated in the downstream surface water features. In order to gain a better understanding of the boron source as well as the potential transport mechanism involved the following action plan is being proposed. It is a staged approach with additional action items proposed if the initial work warrants the additional tasks.

It is also noted that the City will be applying additional cover material in the northeastern (downgradient) end of the waste mound. The first lift in this area has been completed and the active working area is moving west, further from the wetland area. It is surmised that this increase in separation distance between the surface water receiver and the active waste area may result in an improvement in surface water quality, which will be tracked throughout 2016.

PHASE I – ADDITIONAL WATER QUALITY SAMPLES

Although the boron concentrations have exceeded their trigger values, the concentrations are only slightly above these criteria. As such, it is proposed that additional monitoring be completed to better delineate the boron impacts within the surface water regime. Given the lack of leachate seeps at the waste mound and flow channels present between the landfill and SW-1, it is proposed that additional surface water samples be collected in 2017 in this forested wetland area, which was already commenced in April with two samples collected between the waste mound and SW-1. Additional sample locations will also be targeted closer to SW-1 (near MW7 and MW21)

It is also proposed that additional water quality samples be collected from MW7 and MW21, which are downgradient monitors that were previously removed from the monitoring program given the lack of ground water leachate impacts observed beyond the waste footprint. As these monitoring wells are shallow (<4 m), they might provide more



insight as to whether the leachate (i.e. boron) is now migrating higher in the overburden aquifer profile. Similarly, there appears to be a correlation between the pH and boron concentrations such that it would be beneficial to assess whether this correlation is related to the overall surface water quality or is also found within the ground water regime.

This additional monitoring is proposed to be completed twice during 2017 to assess potential trends and can be correlated to the data from across the entire monitoring network.

PHASE II - AQUATIC ASSESSMENT & ADDITIONAL MONITORS

Upon completion of the additional sampling proposed in Phase I, additional actions may be required. Although a more specific plan may be developed based on the results of Phase I, the following is proposed as a potential secondary action item.

Given the limited exceedance above PWQO for boron at SW-2 (0.2 mg/L), it is proposed that an aquatic assessment be completed in the surface water features at SW-1 and SW-2 to characterize the aquatic environment in more detail such that a proper risk assessment can be completed for boron. This may include looking into boron thresholds or criteria established in other guidelines (i.e. Canadian Water Quality Objectives -CWQO) or jurisdictions. An aquatic Biological Assessment was completed for the area as part of Kenora Area Waste Management Master Plan (Fenco MacLaren, 1997) that indicated the fish habitat above High Lake Road (formerly Beaubien Road) is limited due poor channel definition and fish movement would be limited due to waterfalls present immediately downstream of SW-2. It is possible that this aquatic assessment could be updated with an updated field assessment of water course / wetland feature that is present between the landfill and SW-2.

The second item that could be considered following review of the Phase I results is the addition of a shallow monitoring well immediately downgradient of the waste, in proximity to MW2. As the current shallow monitor at MW2 is 9 m deep, it is possible that the leachate impacts may be migrating shallower in the horizon such that this monitor does not provide sufficient characterization of the downgradient water quality. As the water level at MW2/9 is approximately 1.3 m bgs and relatively consistent over time, a new monitor targeting a depth of approximately 4 m could provide additional data to help refine the understanding of an downgradient plume originating from the Site.

It is noted that any deviations from the work proposed in this work plan will be detailed in an update letter to the MOECC District Office.



Please contact either the City or Azimuth if you have any questions regarding the above noted action plan.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Colin Ross, B.Sc., P.Geo.

Senior Hydrogeologist

Attach:

cc: Mukesh Pokharel - City of Kenora

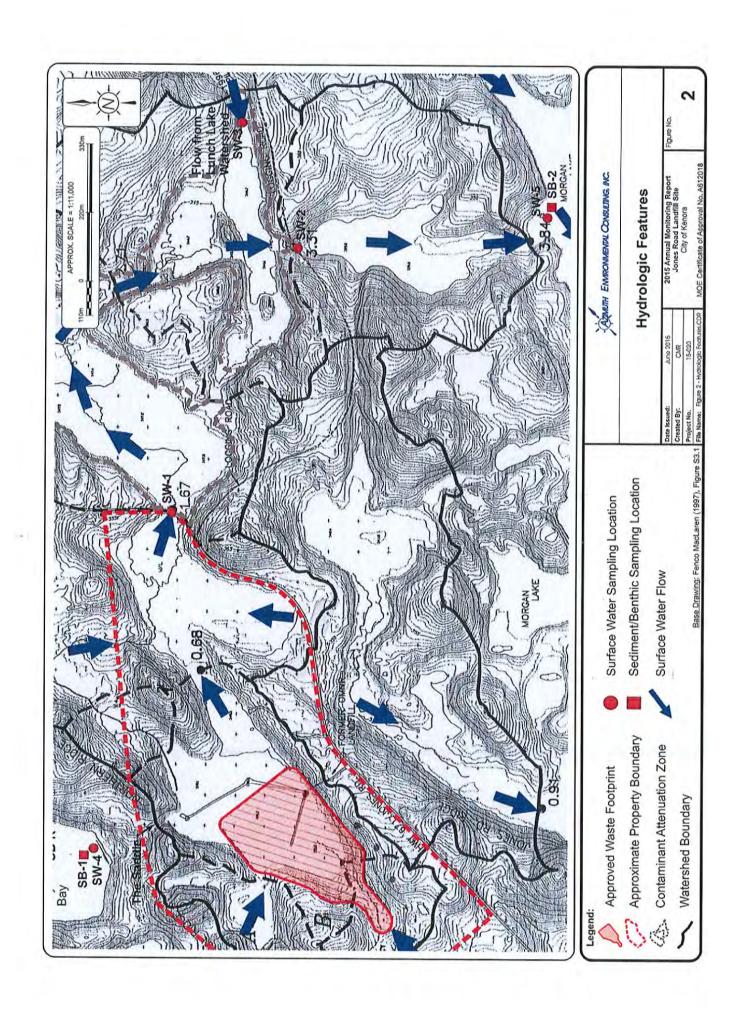
Station																			
PWQO -	QA/QC	0,1	0.2	Bá	Ca	0,0001	0.1	0,005	0,3	0.0002	К	Mg	Mn	TOS	TKN	Total P 0.03	COD	BOD	TSS
Action** Units - 4/8/200	200000	mg/L	0,8 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/21/200 6/10/200	3	<0.002	0.013	0.014		<0.0001	< 0.005	0.001	6.04 0,55	< 0.00005				120	1.33	0.019	66 84	10.8	56
7/17/200	3	< 0.002	0.017	0.015		< 0.0001	< 0.005	1,130	1.20	< 0.0005				154	1.29	0.011	70 95	1.0	3 10
9/25/200	3	< 0.002	0.024	0.024		< 0.0001	< 0.005	0.005	1.13 1.03 0.54	< 0.00005				294	0.85 2.10	0.013 0.029 0.015	84 148 95	< 0.5 1.5	3
5/26/200-	4	< 0.002	0.057	0.024	27.40	< 0.0001	< 0.005	0.003	0.50	< 0.00005	22.5	6.5	0.015	276	1,26 2.16	0.053	82 129	1.0	2 5 2
10/14/2004	4	< 0.002	0.062	0.028	25.00	< 0.0001	< 0.005	< 0.005	0.27	V 0.0001	12	5.3	0.015	362	1.10 1.19 2.40	0,160 0.017 0.228	99	0.9 1.0 < 2	2 110
9/2/200	5	0.0012	0.058	0.03 0.034	20,00	< 0.0001	< 0.005	0.0015	2.30	< 0.0001 < 0.0001	12	0.3	0.001	304 258	1.70	0.114	81 89	5.0	26 14
5/16/2000 8/29/2000	В	< 0.001	0.060	0.039		< 0.0001	< 0.005	0.002	0.35	< 0.0001				98 216	1.40	0.009	78 96	< 2 10.0	< 1 75
5/31/201 5/15/200	1	< 0.2	0.040	0.040	-	< 0.005	< 0.01	< 0.02	8.2 0.43	< 0.0001				213 183	1.40	0.061	54 92	5.0	9
8/15/2007 10/18/2007	7	<0.2 <0.2	0.170	0.070		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.7	<0.0001	-			418 246	3.00	0.320 0.120	150 140	5.0	7 5
5/21/2008 8/20/2008		<0.2	0.230	0.050		<0.005	<0.01	<0.02	1.8	<0.0001				270	1,30 3.30	0.052 0.530	87 280	6.0	< 1 14
10/24/2008 5/19/2009	9	<0.2	0.130	0.030		<0.005	<0.01	<0.02	0.29	<0.0001				420	2.50 1.30	0.210 0.096	120 81	3.0 2.0	6 < 1
8/18/2009)	<0.2 <0.2	0.120 0.160	0.050 0.040		<0.005 <0.005	<0.01	<0.02 <0.02	1.6	<0.0001 <0.0001				266 335	2.40 1.90	0.740 0.130	200 100	5.0	10 5
	no sample			100					0.32						1.90	0.092	100	5.0	3
10/21/2010 5/31/2011		<0.2	0.130	0.040		<0.005	<0.01	<0.02	0.38	<0.0001				508	1,50	0.210	90 89	<2 <2	1 4
8/24/2011 10/25/2011		<0.2 <0.2	0.330	0.040		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.51	<0.0001 <0.0001				470 344	2.00	0.400	110 110	<2 <2	3 2
5/18/2012 8/30/2012	2	<0.2	0.250	0.070		<0.005	<0.01	<0.02	0.29 2.5	<0.0001				752	1,80 3,40	0.150 0.810	90 160	<2 4.0	3 54
10/23/2012 5/24/2013 8/29/2013	3	<0.2	0.230	0.040		<0.005 <0.005	<0.01	<0.02	0.26	<0.0001 <0.0001				696 780	1,80 2.80	0.370	120 110	<2 <2	2
10/17/2013	3	<0.2	0.390	0.070		<0.005	<0.01	<0.02	7.3 1.9 0.4	<0,0001			==1	680	4.70 2.10 2.40	0.830 0.370 0.150	150 130 96	2.0	56 7 5
8/21/2014	1	<0.2 <0.2	0.810	0.150		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	6.8	<0.0001				1230 788	4.40	0.940	180 110	11.0	55 3
5/21/2015 8/25/2015	5	<0.2	0.750	0.027		<0.005	<0.01	<0.02	0.5 0.57	<0.0001				762	1.60 1.60	0.170	100	<2 <2	5 <1
10/20/2015 5/10/2016		<0.2	0.820	0.053		<0.005	<0.01	<0.02	0.33 0.48	<0.001				1040	1.80 4.15	0.260 0.161	130 104	2.0	3 19.3
9/8/2016	3	0.002 0.001	0.995 0.730	0.036 0.031	39.8	<0.00001	0.0002 0.001	0.001 0.0004	0.46	<0.00001 <0.00001	155	23.9	0.021	676 414	2.58 1.58	0.480	151 105	<8 <8	<4.0 <4.0
11/18/2016	Duplicate	-	0.836				-	-											
5/17/2017 5/17/2017	Duplicate		0.846 0.682									W-1							
Paran PWQO -	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	инз-и	Unionized NH3-	DOC	2000	1000 (100)	200	Or	Field T	Field Cond
			0.003	0.02		110411	HOU IT			ancez.	MITS-IN		DOC	Cond.	Phenois	DO	Field pH	Linia I	Fixia Cond
Action**		ma/L	0.003 mg/l	0.02 mg/l	187 mg/l			ma/l	6.5 - 8.5			0.02 0.96			0,001		Fjeld pH	Field	Field Colld
Units - 5/21/2003 6/10/2003	3	mg/L	0.003 mg/L < 0.0005	0.02 mg/L 0.008	mg/L 4.5	mg/L < 0.2 < 0.2	mg/L < 0.2	mg/L 39.0 53.8	6.5 - 8,5 n/a 5.85	mg/L	mg/L 0,18	0.02 0.96 mg/L 0.00001	mg/L	mg/L 142	0,001 mg/L < 0.001	mg/L 15	6.60	4.0	110
Units - 5/21/2003	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	mg/L	mg/L	mg/L	mg/L	mg/L < 0.2	mg/L		6.5 - 8,5 n/a	mg/L	mg/L	0.02 0.96 mg/L		mg/L	0,001 mg/L	mg/L			
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2003	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	mg/L	mg/L < 0.0005	mg/L 0.008 -	mg/L 4.5 6.2 5.3	mg/L < 0.2 < 0.2 < 0.2	mg/L < 0.2 < 0.2 < 0.2	39.0 53.8 44.0	6.5 - 8.5 n/a 5.85 5.95 5.87	mg/L 7 7	mg/L 0.18 < 0.03 0.05	0.02 0.98 mg/L 0.00001 <0.0003 0.00001		mg/L 142 170 149	0,001 mg/L < 0.001 < 0.001	mg/L 15 9 8	6.60 5.60 5.90	4.0 7.0 19.5	110 170 130
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2004 8/19/2004	3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	mg/L	mg/L < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 0.006 < 0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 0.20 < 0.2 < 0.2	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2	8.5 - 9.5 n/a 5.85 5.95 5.87 6.07 6.58 6.64 7.08	mg/L 7 7 7 11 11 25 8 44 62	mg/L 0,18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA	0.02 0.96 mg/L 0.00001 <0.0003 0.00001 0.00002 0.00037 0.00015 0.00193		mg/L 142 170 149 145 374 337 218 246	0,001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 15 9 8 15	6.60 5.60 5.90 5.70 5.60 5.80 6.20	4.0 7.0 19.5 18.5 8.0	110 170 130 110 340
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004 8/3/2005		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.00022	mg/L 0.008 0.006 < 0.005 0.056 < 0.005 0.036	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3	mg/L < 0.2 < 0.2	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1	8.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.58 6.64 7.08 7.65 7.63	mg/L 7 7 11 11 25 8 44 62 136 75	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09	0.02 0.95 mg/L 0.00001 <0.00003 0.00001 0.00002 0.00037 0.00015 0.00193		mg/L 142 170 149 145 374 337 218 246 420 175	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 0.001	mg/L 15 9 8 15 10 6 6 5	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 6.0	110 170 130 110 340 280 230
Units - 5/21/200: 6/10/200: 7/11/200: 8/6/200: 9/25/200: 10/28/200: 5/26/200- 8/19/200- 10/14/2004 8/3/2006 9/2/2001		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 0.006 < 0.005 0.056 < 0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.3	mg/L < 0.2 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0	8.5 - 8.5 1.7a 5.85 5.95 5.87 6.07 6.58 6.64 7.08 7.65 7.63 7.78	mg/L 7 7 7 11 11 25 8 44 62 136 75 133	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26	0.02 0.96 mg/L 0.00001 <0.00002 0.00003 0.00001 0.00015 0.00118 0.00116 0.00117 0.00197		mg/L 142 170 149 145 374 337 218 246 420 175 294 230	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5	110 170 130 110 340 280 230
Units - 5/21/200: 6/10/200: 7/17/200: 8/6/200: 9/25/200: 5/26/200- 8/19/200- 10/14/2004 8/3/200: 9/2/200: 5/16/2006 8/3/2006 8/3/2006 8/3/2006 8/3/2006		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.005 - 0.005 - 0.005 - 0.005 - 0.0072 - 0.092 - 0.100	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 8.8 10.2 5 17 10 8	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 0.20 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.0	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0	6.5 - 8.6 1/a 5.85 5.95 5.87 6.59 6.64 7.08 7.63 7.58 7.49 7.70 7.10	mg/L 7 7 11 11 25 8 44 62 136 75 133 116 85	mg/L 0,18 < 0.03 0,05 0.06 0,61 0.36 1,29 NA 0.03 0.09 0.26 0.08 < 0.05	0.02 0.96 mg/L 0.00001 0.00002 0.00037 0.00015 0.00183 0.00016 0.00114 0.00197 0.00079 0.00057		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291	0,001 mg/L <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 0,001 0,001 0,001 0,001	mg/L 15 9 8 15 10 6 6 5 10 19 13	6.60 5.60 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 6.71	4.0 7.0 19.5 18.5 8.0 2.0 5.0 17.8 13.7 8.5 17.2	110 170 130 110 340 280 230 440 170 270
Units - 5/21/200 6/10/200 7/17/200 6/10/200 7/17/200 6/6/200 9/25/200 6/26/200 8/19/200 6/19/200 6/200 9/2/200 6/2		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 -0.006 -0.005 -0.005 -0.005 0.072 0.072 0.092	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 8.5 8.5 10.2 5 17 10 8 21 30	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.020	mg/L < 0.2 < 0.0 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0	6.5 - 8.5 n/a 5.85 5.95 6.07 6.58 6.64 7.08 7.65 7.49 7.70 7.70 7.70 7.40	mg/L 7 7 7 111 11 25 8 44 62 136 75 133 117 113 66	mg/L 0.18 < 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.28 0.08 < 0.05 0.14 0.46	0.02 0.96 mg/L 0.00001 0.00003 0.00001 0.00003 0.00015 0.00183 0.0016 0.00197 0.00079 0.00057 0.00057 0.00310		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6	6.60 5.60 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 6.24 6.93	4.0 7.0 19.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4	110 170 130 110 340 280 230 440 170 270 20
Units - \$\frac{5}{2}\$1/200 \\ 6/10/200 \frac{7}{1}\$1/200 \\ 8/10/200 \frac{7}{1}\$1/200 \\ 8/25/200 \\ 10/28/200 \\ 10/28/200 \\ 8/19/200 \\ 8/19/200 \\ 10/14/200 \\ 8/3/200 \\ 9/2/200 \\ 10/14/200 \\ 8/3/200 \\ 10/21/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 8/3/200 \\ 10/17/200 \\ 8/15/200 \\ 10/18/200 \\		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.005 - 0.005 - 0.005 - 0.005 - 0.0072 - 0.092 - 0.100	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.8 10.2 5 17 10 8 21 30 14	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0	mg/L < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0 105.0 33.0	6.5 - 8.5 n/a 5.85 5.95 6.07 6.58 6.64 7.08 7.63 7.65 7.78 7.70 7.70 7.70 7.80 7.80 7.80 7.80 7.80 7.80 7.90	mg/L 7 7 7 111 11 25 8 44 62 136 75 133 115 85 117 113 66 306 308 181	mg/L 0.18 < 0.03 0.05 0.06 0.61 1.29 NA 0.03 0.09 0.29 < 0.09 < 0.08 < 0.05 0.46 0.05 0.08	0.02 0.98 mg/L 0.00001 0.00002 0.00037 0.00018 0.00193 0.00194 0.00197 0.0005 0.0005 0.00034 0.00034 0.00034 0.00034 0.00034 0.00034		mg/L 142 170 149 145 374 218 246 420 176 294 230 221 291 353 417 624 458	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 6 6 12 8	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 6.24 6.93 7.8	4.0 7.0 19.5 18.5 8.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 18.7 11	110 170 130 110 340 280 230 440 170 270
Units - \$\frac{1}{5/21/200}\$ 6/10/2005 7/11/7/2005 8/8/22005 9/25/2005 10/28/2005 10/12/2005 8/19/2006 10/14/2006 8/3/2005 9/2/2005 5/16/2000 10/14/2006 8/29/2006 10/17/2006 8/29/2006 5/15/2000 10/17/2006 5/15/2000 10/18/2000 5/15/2000 10/18/2000 5/12/2005 8/29/2006 8/29/2006		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.006 - < 0.005 - 0.056 - < 0.005 - 0.036 - 0.072 - 0.092 - 0.100 - 0.250 - 0.200 - 0.010 - < 0.005 - < 0.005 - 0.005 -	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17 10 8 21 14 21 14 21	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 32.0 62.0 23.0	6.5 - 8.5 n/a 5.85 5.85 5.87 6.07 6.58 6.64 7.08 7.63 7.78 7.70 7.70 7.80 7.40 7.90 7.90 7.80 8.00 7.80 7.	mg/L 7 7 7 11 11 11 25 8 44 62 136 75 133 115 85 117 113 66 308 181 121 181	mg/L 0.18 < 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 < 0.08 < 0.04 0.04 0.05 0.08 < 0.08 < 0.08 < 0.05 0.08 < 0.08 < 0.09 <	0.02 0.96 mg/L 0.0001 0.00003 0.0001 0.00015 0.00193 0.00194 0.00197 <0.0005 0.00037 0.00193 0.00194 0.00194 0.0005 0.00034 0.00034 0.00034 0.00194 0.0005 0.00041 0.00141 0.00141 0.00141 0.00141 0.0005 0.0005		mg/L 142 170 149 145 374 218 246 420 175 294 230 221 291 353 417 624 458 370 402	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 13 10 11 6 12 8 8 15 15 10 8 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.71 6.24 6.93 7.6 7.21 7.5	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4	110 170 130 110 340 280 230 440 170 270 20
Units - \$\frac{1}{5/21/200}\$ 6/10/2007 7/17/2000 8/6/2007 9/25/2003 10/28/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000 8/19/2000		mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05	mg/L 0.008 0.006 0.006 0.005 0.036 0.072 0.092 0.100 0.250 0.200 0.010 0.005	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 15.6 8.5 8.8 10.2 5 17 10 8 21 30 14 21 14 10 <1 17 12 <1	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.0 < 0	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0 105.0 33.0 52.0 42.2 48.1 45.2 48.1 11.1 44.0 45.2 46.1 46.1 46.1 46.1 46.1 46.1 46.1 46.1	6.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.69 7.05 7.03 7.55 7.79 7.70 7.80 7.	mg/L 7 7 7 11 11 125 8 44 62 136 75 133 115 85 117 113 66 306 181 181 121	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26 0.08 < 0.05 0.14 0.46 0.05 0.14 0.46 0.56 0.67 0.67 0.68	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0003 0.0001 0.00019 0.00193 0.00194 0.00197 0.0005 0.0034		mg/L 142 170 149 145 374 218 246 420 175 294 230 221 291 353 417 624 458 370	0,001 mg/L <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 0,002 <0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6 12 8 8	6.60 5.60 5.90 5.70 5.80 5.80 6.20 6.80 4.50 6.00 7.30 6.71 6.24 6.93 7.6 7.21 7.5	4.0 7.0 19.5 18.5 8.0 5.0 10.0 17.8 13.7 17.4 8.5 16.7 11 10.9	110 170 130 110 340 280 230 440 170 270 20
Units - \$721/200 8/10/200 7/11/200 9/10/200 7/11/200 9/25/200 9/25/200 9/25/200 9/25/200 9/25/200 9/200		mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	mg/L 0.008 0.006 0.005 0.056 0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17 10 8 21 30 14 21 14 10 <1 17 12	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 30.0 33.0 52.0 23.0 < 2 48.0	6.5 - 8.5 n/a 5.85 5.95 5.87 6.97 6.97 6.58 6.64 7.05 7.65 7.75 7.70 7.70 7.80 7.80 7.80 8.90 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.	mg/L 7 7 7 11 25 8 44 62 136 76 133 115 85 1117 113 66 181 121 181 280 99	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.08 < 0.05 0.14 0.05 0.08 < 0.05 0.08 < 0.05 0.08 < 0.05 0.09	0.02 0.96 mg/L 0.0001 0.0003 0.0001 0.0003 0.00015 0.00193 0.0016 0.0019 0.0005 0.0005 0.0005 0.0005 0.00141 0.0005		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 221 291 353 417 624 458 370 402 656 322	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 10 11 10 11 6 6 6 9 9 4 10 8	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.7.30 6.71 6.24 6.93 7.6 7.37 7.37 7.37 7.37 7.37 7.37 7.37	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 117.8 13.7 8.5 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 16.9 7.4	110 170 130 110 340 280 230 440 170 270 20 687
Units - \$21/200 \$71/17/200 \$71/17/200 \$8/6/200 \$9/25/200 \$1/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200 \$7/28/200	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05	mg/L 0.008 0.006 0.006 0.005 0.036 0.072 0.092 0.100 0.250 0.200 0.010 0.005	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 8.5 10.2 17 10 8 21 14 21 14 10 <1 17 12 <1 19 28	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 33.0 40.4 48.1 14.0 1.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 40.0	6.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.07 6.08 7.05 7.69 7.79 7.70 7.60 7.80 7.80 7.80 7.90 7.90 7.90 7.90 7.90 8.00 8.	mg/L 7 7 11 11 25 8 44 62 136 75 133 115 85 1117 117 113 66 181 121 181 280 99 188 147 159	mg/L 0,18 <0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26 0.08 <0.05 0.16 0.36 0.08 <0.05 0.17 0.05 0.17 0.09 0.16	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.0003 0.00015 0.0018 0.0018 0.0019 0.0019 0.0005 0.0005 0.0005 0.0005 0.0005 0.0018		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 322 438 514 455	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 11 6 12 8 6 9 9 4 10 6 7 9	6.60 5.60 5.90 5.70 5.60 5.80 6.20 4.50 6.00 4.50 6.00 7.37 7.30 6.24 6.93 7.6 7.21 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.36	4.0 7.0 19.5 8.0 2.0 10.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.7 17.4 10.9 20.4 8.6 11.6 11.6 11.6 11.6 11.6 11.6 11.6	110 170 130 110 340 280 230 440 170 270 20 687
Units - 5/21/2005 6/10/2003 7/11/2000 7/11/2000 8/6/2003 8/6/2003 8/19/2000 8/19/2000 10/12/2009 10/12/2009 10/12/2009 10/12/12/2009 10/12/2009 10/12/2009 8/15/2000 10/17/2000 8/15/2000 8/15/2000 8/15/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 -0.006 -0.005	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.5 8.8 10.2 6 17 10 8 21 11 11 11 11 12 11 12 11 20 11 12 28 119 28	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 1.0 30.0 52.0 23.0 48.0	6.5 - 8.5 n/a 5.85 5.87 6.07 6.69 6.64 7.08 7.76 7.70 7.10 7.70 7.10 7.80 8.00 7.80 8.00 7.80 8.10 8.01 7.80 8.10	mg/L 7 7 7 11 11 125 8 44 62 138 62 138 115 85 117 113 115 85 117 113 280 99 188 147 159	mg/L 0,18 <0,03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26 0.08 <0.05 0.14 0.46 0.05 0.09 <0.05 0.19 0.05 0.10 0.05 0.05 0.10 0.05 0.05 0.16 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/L 0.00001 0.00002 0.00003 0.00010 0.00015 0.00193 0.00141 0.0005 0.0005 0.0005 0.0006 0.000771 <<0.0005 0.000771 <<0.0005 0.000771 <<0.0005 0.00071		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 176 291 353 417 624 427 626 370 402 428 514 455	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 6 8 8 10 8 8 10 8 8 10 8 8 10 8 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 3.70 6.71 6.21 7.5 7.2 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.6 7.7 7.7 7.6 7.7 7.7 7.7	4.0 7.0 19.5 18.5 8.0 2.0 5.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 n/a 16.9 7.4 20.5 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	110 170 130 110 340 280 230 440 170 270 20 687
Units - \$721/2005 6/10/2005 7/17/2005 8/6/2005 9/25/2005 10/28/2005 5/26/2006 8/19/2006 10/14/2006 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.006 - 0.005 - 0.056 - 0.005 - 0.072 0.092 - 0.100 - 0.250 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.001 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010 - 0.010	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.8 10.2 10.2 11 10 11 11 11 11 11 12 20 19 28 19 27 24	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 40.4 45.2 48.1 10.4 11.0 10.9 10.5 10.0	6.5 - 8.5 n/a 5.85 5.87 6.07 6.58 6.68 7.65 7.65 7.76 7.70 7.10 7.10 7.40 8.00 7.80 7.80 8.00 8.20 7.00 8.00 8.20 7.00 8.00 8.00 8.00 7.00 8.00 8.00 7.00 8.00 8	mg/L 7 7 7 11 11 11 25 8 44 62 138 75 133 115 85 117 113 66 308 181 181 181 181 280 99 188 147 159 254 162 262 185	mg/L 0,18 <0,03 0.05 0.06 0.61 0.36 1,29 NA 0.03 0.09 0.26 0.08 <0.05 0.14 0.05 0.09 <0.05 0.17 0.09 0.16 0.09 0.17 0.09 0.16 0.09 0.17 0.09 0.16 0.09 0.16 0.09 0.17 0.09 0.16 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0002 0.00037 0.00193 0.00194 0.00194 0.00197 0.0005 0.00037 0.000141 0.00194 0.001745 0.00194 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 176 221 291 353 417 624 458 370 402 458 370 402 458 514 455 779 562 691 502 510	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6 9 9 4 10 8 7 9 4 6 4 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 3.70 6.71 7.21 7.5 7.37 7.06 7.35 7.37 7.06 7.35 7.74 7.72 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.75 6.64 7.74 7.75 6.64 7.74 7.75 6.64 7.75 6.77 7.75 6.77 7.75 7	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.8 14.8 16.7 11 10.9 2.0 4.8 14.8 16.7 11 10.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16	110 170 130 110 340 280 230 230 440 170 270 20 687 309 326 480 498 498 430 692 784 490 699 609 609
Units - \$721/200 8/10/200 8/10/200 7/11/7/200 8/19/200 9/25/200 9/25/200 8/19/200 8/19/200 9/25/200 10/14/200 8/3/200 9/2/200 10/14/200 8/3/200 9/2/200 10/17/200 8/29/200 10/17/200 8/29/200 10/17/200 8/29/200 10/18/200 8/29/200 10/18/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/29/200 10/24/200 8/20/200 10/24/200 8/20/200 8/20/200 8/20/200 8/20/200 8/20/200 8/20/200 8/20/200 10/24/200 8/20/200 8/20/200 8/20/200 8/20/200 10/24/200 8/20/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 -0.006 -0.005	mo/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.8 8.5 10.2 6 10.3 10.3 10.3 11 10.3 11 10.3 11 10.3 11 10.3 11 10.3 11 10.3 11 10.3 10.3	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 110.4 111.0 14.0 1.0 105.0 33.0 62.0 42 48.0 35.0 62.0 71.0 31.0 13.0 13.0 13.0	6.5 - 8.5 n/a 5.85 5.87 6.07 6.58 6.64 7.65 7.69 7.70 7.10 8.00	mg/L 7 7 7 11 11 11 125 8 44 62 136 62 138 115 85 117 113 66 308 181 121 181 280 99 188 147 159 188 147 159 254 182 262 185 170 400 310	mg/L 0,18 <0,03 0.05 0.06 0.06 1,29 NA 0.03 0.09 0.28 <0.05 0.14 0.05 0.50 0.70 0.70 0.70 0.70 0.70 0.70	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001		mg/L 142 170 149 145 374 337 218 246 420 175 291 221 291 353 417 624 455 370 402 656 322 438 514 455 779 552 691 502 510 1000	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 11 6 6 9 9 4 10 9 9	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 7.30 6.73 6.24 6.93 7.6 7.21 7.5 7.06 7.37 7.06 7.36 7.37 7.06 7.37 7.06 7.36 7.37 7.42 8.44 7.42 8.14 7.42 8.44 7.45 8.	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 11.8 18.1 11.8 18.1 11.8 18.1 11.8 18.1 18	110 170 130 110 340 280 230 440 170 270 20 687 687
Units - \$721/200 6/10/200 6/10/200 7/11/7/200 8/6/200 9/26/200 8/19/200 8/19/200 10/14/2004 8/19/200 10/14/2004 8/19/200 10/14/2004 8/19/2000 10/14/2004 8/19/2000 10/17/2000 8/15/2007 10/17/2000 8/15/2007 10/18/2000 10/18/2000 10/18/2000 10/18/2000 10/18/2000 10/18/2000 10/18/2000	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 0.006 < 0.005 0.056 < 0.005 0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 <0.0005 <0.001 <0.011 <0.011	month	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 52.0 23.0 48.0 48.1 11.1 10.4 11.0 10.0	6.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.07 6.08 7.05 7.69 7.79 7.70 7.60 7.80 8.00	mg/L 7 7 7 11 11 11 125 8 44 62 136 75 133 115 85 117 117 113 66 181 121 181 280 99 188 147 169 254 169 254 169 262 185 170 400	mg/L 0,18 <0.03 0.05 0.06 1.29 0.08 <0.09 0.26 0.09 <0.05 0.06 0.30 0.09 0.28 0.09 0.10 0.10 0.10 0.10 0.10 0.10 0.10	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.00126 0.00126 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 657 779 552 691 502 510	0,001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 13 10 11 6 12 8 8 9 4 10 6 7 9 4 4 10 9	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.70 7.30 6.71 6.24 6.93 7.6 7.21 7.37 7.06 7.37 7.36 7.52 7.74 7.42 8.14 7.68 7.76 7.76 7.37	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 11.0 5.0 17.8 13.7 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 11.8 16.9 7.4 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 697 697 309 326 480 498 430 692 784 490 699 509 540 1259 694 604
Units - 5/21/200 5/21/200 6/10/200 7/11/200 6/10/200 7/11/200 6/10/200 9/25/200 10/28/200 9/25/200 10/14/200 6/3/200 9/2/200 5/19/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/20	no sample	mgil	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 0.006 < 0.005 0.056 < 0.005 0.036 0.072 0.100 0.250 0.010 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01	mo/L 4.5 6.2 5.3 3.6 16.6 15.6 15.6 15.6 17 10 20 21 10 41 10 21 21 11 12 21 11 12 21 19 28 19 27 24 26 61 62 31	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 105.0 33.0 62.0 42 74.0 35.0 52.0 42 74.0 36.0 51.0 51.0 27.0 31.0 31.0 51.0 31.0 51.0 31.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 5	6.5 - 8.5 n/a 5.85 5.87 6.07 6.07 6.08 7.65 7.69 7.70 7.70 7.70 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80 7.80 8.00 7.80 7.80 8.00 7.80	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 75 133 115 85 117 113 66 181 121 181 1281 280 99 188 147 159 188 147 159 254 182 265 170 400 310 220 440	mg/L 0,18 <0,03 0.05 0.06 1.29 NA 0.03 0.09 0.20 <0.05 0.06 0.36 0.36 0.36 0.37 0.09 0.21 0.37 0.09 0.23 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.17 0.09 0.16 0.05 0.05 0.05 0.17 0.09 0.16	0.02 0.96 mg/L 0.00001 0.00001 0.00002 0.00037 0.00193 0.00114 0.00197 0.0005 0.00037 0.00031		mg/L 142 170 149 145 374 337 218 246 420 175 294 423 221 291 353 417 624 458 370 402 656 372 438 514 455 502 510 960 620	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 19 10 11 16 6 6 6 10 19 19 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 6.00 3.70 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.36 7.37 7.6 7.37 7.6 8.4 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.76 6.64 7.76 6.74 7.76 6.77 7.76 6.77 7.76 7.76 7.76	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.8 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 16 5.1 11.1 11.1 4.9 18.1 4.9 18.1 19.4 5.7 10.6	110 170 130 110 340 280 230 440 170 270 20 687 687
Units - 5/21/200 5/21/200 6/10/200 7/11/200 7/11/200 9/25/200 10/28/200 10/28/200 10/28/200 10/28/200 10/14/200 8/3/200 9/2/200 10/14/200 8/3/200 10/21/200 5/16/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200 10/21/200	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.001 - 0.001 - 0.01 - 0.01 - 0.01 - 0.01 - 0.070 - 0.020	month mont	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 110.4 11.0 14.0 1.0 30.0 105.0 33.0 42.2 48.1 30.0 40.2 71.0 30.0 31.0 40.4 35.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	6.5 - 8.5 n/a 5.85 5.87 6.07 6.08 7.65 7.69 7.70 7.70 7.70 7.80 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 75 133 115 85 117 113 66 181 121 181 128 188 147 159 188 147 159 188 147 159 262 27 185 170 310 220 310 220	mg/L 0,18 <0,03 0.05 0.06 1,29 NA 0.03 0.09 0.08 <0.05 0.06 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 <0.05 <0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00126 0.00130		mg/L 142 170 149 145 374 337 218 246 420 175 291 221 291 353 417 624 458 370 402 656 372 458 577 624 458 370 1000 600 960 600	0,001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 19 10 11 16 6 6 6 10 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 7.30 6.71 6.24 6.93 7.6 7.37 7.36 7.37 7.36 7.37 7.66 4.50 6.00 7.37 7.36 7.37 7.36 7.52 7.74 7.72 6.64 7.79 7.79 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.90 7	4.0 7.0 19.5 8.0 2.0 10.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 309 326 480 490 490 692 784 490 699 609 540 1259 694 604 1297 801 556
Units - 5/21/2005 67/21/2006 67/10/2005 77/17/2005 68/2/2005 97/25/2005 87/9/25/2005 87/9/25/2005 87/9/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/25/2005 97/25/25/2005 97/25/25/2005 97/25/25/25/25/25/25/25/25/25/25/25/25/25/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L 0.008 -0.006 -0.005 -0.00	month mont	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 30.0 30.0 33.0 62.0 42 48.0 42 74.0 33.0 62.0 62.0 62.0 62.0 62.0 62.0 62.0 62	6.5 - 8.5 n/a 5.85 5.87 6.07 6.07 6.58 6.58 7.69 7.65 7.69 7.70 7.60 7.40 7.80 8.00 7.40 7.80 8.01 7.80 8.01 7.80 8.01 7.80 8.01 7.80 7.00 7.	mg/L 7 7 7 11 11 11 125 8 44 62 136 75 133 115 85 1117 113 66 181 121 181 280 99 188 147 169 254 189 254 189 262 185 170 310 220 440 340 340 220 240 257 380 200 200 200	mg/L 0,18 <0.05 0.06 1.29 NA 0.09 0.26 <0.05 0.06 0.30 0.09 0.20 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00193 0.00194 0.00195 0.00195 0.00196 0.00197 0.00197 0.00197 0.0005 0.00197 0.00197 0.00197 0.00197 0.00197 0.00197 0.00197 0.00198		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 657 691 600 600 940 1000 940 1000 600 7400 600 7400	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 11 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.24 6.93 7.6 7.37 7.36 7.37 7.36 7.37 7.52 7.74 7.72 6.64 7.72 6.64 7.75 7.74 7.75 6.84 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 7.76 8.17 8	4.0 7.0 19.5 8.0 2.0 10.0 5.0 10.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.7 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687 687 699 430 699 490 699 609 540 691 1259 694 604 1259 694 604 1259 695 697 607 607 607 607 607 607 607 607 607 60
Units - 5/21/2005 6/10/2005 6/10/2005 6/10/2005 7/11/7/2005 8/6/2005 8/6/2005 8/19/2006	no sample	тgЛ 48.5	**mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0	month mont	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 10.4 11.0 1.0 30.0 105.0 33.0 62.0 23.0 48.0 22.7 48.0 35.0 89.0 27.0 13.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	6.5 - 6.5 n/a 5.85 5.95 5.97 6.07 6.58 6.04 7.05 7.69 7.79 7.70 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 7.80 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 7.80 8.00 7.70 8.00 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.70 7.70 8.00 7.70 7.80 7.	mg/L 7 7 7 11 11 11 25 8 44 62 136 76 133 75 133 115 85 1117 113 66 181 121 181 280 188 147 159 284 182 284 182 284 180 280 290 440 340 340 200 280 280 280 590 3390	mg/L 0,18 <0.03 0.05 0.06 1.29 NA 0.09 0.08 <0.05 0.08 <0.05 0.08 <0.05 0.08 <0.05 0.14 0.14 0.16 0.05 0.23 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/t 0.00001 0.00001 0.00002 0.00037 0.00015 0.00193 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.00130 0.00141 0.00196 0.0005 0.0005 0.00130 0.0005 0.0005 0.00160 0.00160 0.001662 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 353 417 624 458 370 402 656 322 438 451 455 779 552 691 1000 960 1100 960 1400 680 14000 680 14000 680 14000 680 853 976	0.001 mg/L <0.001 0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 6 12 8 6 9 4 10 9 9 4 10 6 6 7 10 6 6 7	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 6.77 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.37 7.06 8.07 7.39 7.52 7.72 6.04 7.72 6.04 7.35 7.52 7.72 7.72 6.04 7.72 6.04 7.72 6.05 7.73 7.75 6.05 7.75 8.14 7.75 7.75 7.75 8.17 8.17 8.	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 17.8 13.7 17.2 17.4 18.9 14.8 16.7 11 10.9 20.4 8.4 16.7 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687 309 326 480 490 692 784 490 692 784 490 692 784 490 692 784 490 692 784 490 693 694 694 694 694 695 695 695 695 695 695 695 695 695 695
Units - 5/21/2002 6/10/2003 7/17/2003 6/10/2003 7/17/2003 8/6/2003 8/6/2003 8/19/2000	no sample		**CONTINUE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOT	mg/L 0.008 - 0.006 - 0.005 - 0	mo/L 4.5 6.2 5.3 6.2 5.3 16.6 15.6 15.6 15.6 15.6 10.2 10 10 21 11 10 21 11 21 11 21 12 21 14 21 10 21 14 21 10 21 14 21 10 21 21 41 21 10 21 41 21 41 21 41 41 21 41 41 41 41 41 41 41 41 41 41 41 41 41	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 110.4 111.0 14.0 10.5 105.0 33.0 <22 48.0 35.0 <22 74.0 36.0 37.0 38.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31	6.5 - 8.5 n/a 5.85 5.87 6.07 6.08 7.65 6.68 7.69 7.70 7.10 8.00 7.80 7.80 7.80 7.80 7.80 7.80 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 7.00 7.80 8.10 8.10 7.88 8.10 7.88 8.10 7.96 7.96 7.96 7.97 7.77 7.78 7.96 7.96 7.97 7.97 7.99 8.00	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 133 115 85 117 113 66 306 181 121 181 1281 280 99 188 147 159 188 147 159 254 180 200 240 340 210 340 2570 380 590 280 590	mg/L 0,18 <0,03 0.05 0.06 1,29 0.08 0.09 0.26 0.08 0.09 0.08 0.09 0.09 0.09 0.09 0.09	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0002 0.0003 0.00016 0.00193 0.00114 0.00197 0.0005 0.0005 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 423 221 291 291 458 370 402 656 322 438 514 455 779 562 691 100 960 620 1100 940 580 600 740 1600 740	0.001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 11 6 6 7 9 9 4 10 6 6 7 9 10 6 6 8 4 4 7	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 7.30 6.73 7.62 7.37 7.06 7.37 7.06 7.37 7.06 7.37 7.06 7.37 7.52 7.74 7.74 7.74 8.14 7.74 8.14 7.76 8.76 7.76 7.76 8.77 7.76 8.87 8.87	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 10.0 5.0 17.8 13.7 17.2 17.4 14.8 16.7 11 10.9 20.4 8.4 10.9 7.4 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687 687 699 430 699 490 699 609 540 691 1259 694 604 1259 694 604 1259 695 697 607 607 607 607 607 607 607 607 607 60
Units - 5/21/2003 6/10/2003 7/17/2003 6/10/2003 7/17/2003 6/20/2003	no sample Duplicato		**mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0	mo/L 4.5 6.2 5.3 6.2 5.3 6.5 6	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 10.4 11.0 1.0 30.0 105.0 33.0 62.0 23.0 48.0 22.7 48.0 35.0 89.0 27.0 13.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	6.5 - 6.5 n/a 5.85 5.95 5.97 6.07 6.58 6.04 7.05 7.69 7.79 7.70 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 7.80 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 7.80 8.00 7.70 8.00 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.70 7.70 8.00 7.70 7.80 7.	mg/L 7 7 7 11 11 11 25 8 44 62 136 76 133 75 133 115 85 1117 113 66 181 121 181 280 188 147 159 284 182 284 182 284 180 280 290 440 340 340 200 280 280 280 590 3390	mg/L 0,18 <0,03 0.05 0.06 1,29 NA 0.03 0.09 0.20 0.08 <0.05 0.04 0.08 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 <0.05 <0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.17 0.09 0.16 0.05 0.05 0.05 0.07 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.09 0.09	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0016 0.00116 0.00116 0.00116 0.00116 0.00116 0.00174 0.0005 0.0005 0.0005 0.0005 0.0005 0.0018 0.0005 0.0018		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 353 417 624 458 370 402 656 322 438 451 455 779 552 691 1000 960 1100 960 1400 680 14000 680 14000 680 14000 680 853 976	0.001 mg/L <0.001 0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 6 12 8 6 9 4 10 9 9 4 10 6 6 7 10 6 6 7	6.60 5.60 5.90 5.70 5.80 6.80 6.80 6.80 6.70 7.30 6.71 6.24 6.93 7.6 7.21 7.37 7.06 7.37 7.06 7.37 7.42 8.14 7.68 7.76 7.76 7.76 7.76 8.37 7.65 7.65 7.76 8.37 7.65 8.37 7.65 8.60 8	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 10.0 5.0 17.8 13.7 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 11.8 18.7 11.8 11.8 11.8 11.8 11.8 11.8	110 170 130 110 340 280 230 440 170 270 20 687 687 309 326 480 490 692 784 490 692 784 490 692 784 490 692 784 490 692 784 490 693 694 694 694 694 695 695 695 695 695 695 695 695 695 695

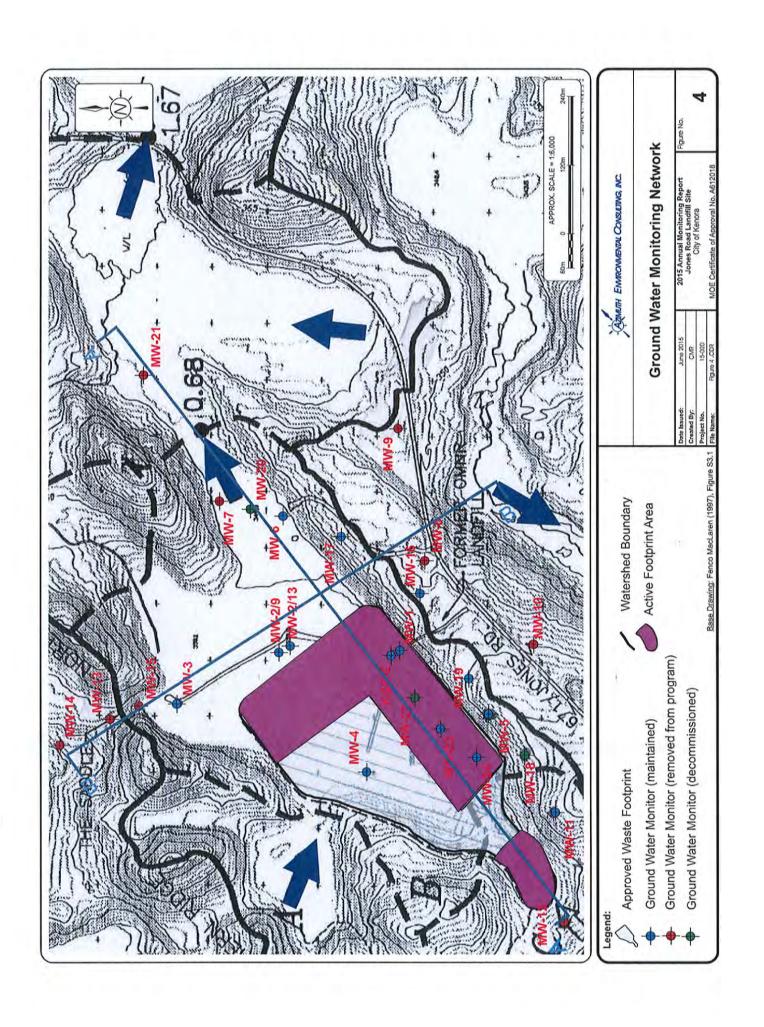
^{*} should not be decreased by more than 25% of the natural concentration

**- action level according to trigger mechanism

-				A	
S	tat	ior	٠.	SV	V-2

Parameter -	As	В	Ba	Ca	Cd	Cr	Cu	Fo	Hg	К	Mg	Mri	TDS	TKN	Total P	COD	BOD	TSS
PWQO - Trigger -	0.1	0.2	200		0.0001	0.1	0.005	0.3	0,0002	1000					0.03		100	
Units - 4/8/2003 5/21/2003	mg/L <0.002	mg/L 0.007	mg/L 0.011	mg/L	mg/L <0.0001	mg/L < 0.005	mg/L 0.001	mg/L 1.50 0.36	mg/L < 0.00005	mg/L	/mg/L	mg/L	mg/L	mg/L 0.87	mg/L 0.057	mg/L 47	mg/∟ 5.6	mg/L 6
6/10/2003 7/17/2003	40.002	0.001	0.011		<0.0001	- 0.003	0,001	0.48	~ 0.00000				66	0.85 0.84 1.40	0.025 0.019 0.044	63 70 93	0.8 1.0 1.0	5 10 9
8/6/2003 9/25/2003	< 0.002	0.008	0.014	-	< 0.0001	< 0.005	0.940	0.94	< 0.0005				94	1.02	0.033	78 110	< 0.5	2 2
10/28/2003 5/26/2004	< 0.002	0.008	0.020		< 0.0001	< 0.005	0.001	0.54	< 0.00005			- 33	170	0.77	0.010	90	0.8	1
8/19/2004 10/14/2004	< 0.002 < 0.002	0.010 0.009	0,014 0,017	8,60	< 0.0001 < 0.0001	< 0.005 < 0.005	0.002 < 0.0005	0.95	< 0.0001	5.9	3.4	0.042	138 156	0.98	0.024	105 113	0.9 1.3	1
8/3/2005 9/2/2005	< 0.001	0.016	0.020	16	< 0.0001 < 0.0001	< 0.005 < 0.005	0.003	0.94	0.0001	5.1	4.8	0.120	194	1.10	0.033	77 64	<2 <2	8
10/21/2005 5/16/2006 8/29/2006	0.001	0.019	0.017		< 0.0001	< 0.005	0.001	0.71	< 0.0001				198 50	0.90 1.50	0.024	73 61	<2 <2	8
10/17/2006 5/31/2007	< 0.2	< 0.02	< 0.02		< 0.005	< 0.1	< 0.02	0.19 0.29	< 0.0001 < 0.0001				105 113 69	1.50 0.60 1.50	0.081 0.009 0.017	60 33 72	< 2 < 2 <2	<1 <1 <1
8/15/2007 10/18/2007	<0.2 <0.2	0.05	0.03		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.6 0.37	<0.0001				146	1.70	0.050	110	4	3.0
5/21/2008 8/20/2008	<0.2	0.05	0.05		<0.005	<0.01	<0.02	0.41 4.2	<0.0001				150	1.00 2.10	0.010	63 110	<2	<10 40
10/24/2008 5/19/2009 8/18/2009	<0.2	0.04	<0.02		<0.005	<0.01	<0.02	0.33	<0.0003				325	1.60 0.80	0.190	83 71	4	<1 <1
10/22/2009 5/18/2010	<0.2	0.03	<0.02		<0.005	<0.01	<0.02	2.1 0.36 0.58	<0.0001				155 140	1.70 1.10 1.40	0.044 0.014 0.019	120 72 75	<2 <2 <2	1 1
8/25/2010 10/21/2010	<0.2 <0.2	0.04	0.03		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.8 0.36	<0.0001			_	200 192	1.70	0.073	97 64	<2 <2	2 <1
5/31/2011 8/24/2011	<0.2	0.05	0.03		<0.005	<0.01	<0.02	0.51 0.97	<0.0001				228	1.30	0.050 0.090	72 91	<2 <2	3 228
10/25/2011 5/18/2012 8/30/2012	<0,2	0.03	0.02		<0.005	<0.01	<0.02	0.44 0.89	<0.0001				224	7.30 1.10	0.042	68 72	<2 <2	2
10/23/2012 5/24/2013	<0.2	0.03	<0.02		<0.005	<0.01	<0.02	0.37	<0.0001				180 184	1.70 1.30 1.50	0.099 0.011 0.043	96 78 69	<2 <2 <2	11 <1 <1
8/29/2013 10/17/2013	<0.2 <0.2	0.06 0.05	0.048 0.028		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.5	<0.0001			-	334 272	1.90	0.130 0.049	110 96	2	6 <1
5/23/2014 8/21/2014	<0.2	0.1	0.085		<0.005	<0.01	<0.02	0.26 3.8	<0.0001				382	1.20 2.20	0.032 0.310	79 120	<2 2	<1 10
10/9/2014 5/21/2015 8/25/2015	<0.2	0.09	0.038		<0.005	<0.01	<0.02	0.45	<0.0001				292	1.30	0.065 0.042	75 68	2 <2	9 <1
10/20/2015 5/10/2016	<0.2	0.14	0.034		<0.005 <0.005	<0.01	<0.02 <0.02	2.6 2.3 0.704	<0.0001 <0.001				348 322	1.60 1.00 1.18	0.140 0.110 0.050	98 95 82	2 <2	5 4 6
9/8/2016 11/1/2016	0.0009	0.297	0.025	20.6	<0.00001	<0.001	0.0003 0.0004	0.544	<0.00001	48.7	10.4	0,006	292 276	1,53	0.030	104 89	<6 <6	<4.0 <4.0
11/18/2016 11/18/2016 Duplical	le	0.202														up.		
5/17/2017 Duplicate		0.233 0.199																
Parameter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	504	рН	alk42	NH3-N	Unionized NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO - Trigger - Units -	50	0,003	0.02	125				6.5 - 8.5	10000		0.02			0.001		7 3		
		man	mo/l		mo/i	mo/i	mod	nla	ma/l	mn/l		ment.	matt	Mann	madi.			
4/8/2003 5/21/2003	mg/L	mg/L < 0.0005	mg/L < 0.005	mg/L 6.9 4.0	mg/L < 0.2 < 0.2	mg/L < 0.2 < 0.2	mg/L 2.3 8.5	n/a 6.70 7.11	mg/L 30 13	mg/L 0.18 0.06	mg/L 0.00007	mg/L	mg/L 6.9 85	mg/L 0.002 < 0.001	mg/L 13 16	6.20	0.0	30
5/21/2003 6/10/2003 5/31/2011	mg/L	< 0.0005	< 0.005	mg/L 6.9 4.0 4.4 5.3	< 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2	6.70 7.11 6.67 6.71	30 13 19 28		mg/L	mg/L			mg/L 13 16 15 8	6.20 6.20 6.10 6.50	0.0 3.0 10.0 18.5	30 50 70 70
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003	mg/L	< 0.0005 < 0.0005	< 0.005	mg/L 6.9 4.0 4.4 5.3 4.1 6.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4	6.70 7.11 6.67 6.71 6.88 6.53	30 13 19 28 31 15	0.18 0.06 0.03 0.05 0.06 0.03	mg/L 0.00007 0.00008 0.00003 0.00009 0.00018 0.00002	mg/L	6.9 85 88 87 90 141	0,002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8	6.20 6.10 6.50 6.60 5.60	3.0 10.0 18.5 20.0 8.5	50 70 70 70 70 110
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004	1000	< 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005	mg/L 6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81	30 13 19 28 31 15 12 18	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03	mg/L 0.00007 0.00008 0.00003 0.00009 0.00018	mg/L	6.9 85 88 87 90 141 168 113	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8 14 19 8	6.20 6.10 6.50 6.60	3.0 10.0 18.5 20.0 8.5 2.0 8.0	50 70 70 70
6/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004 10/14/2004	4.9	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L 6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1	< 0.2 < 0.2	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15	30 13 19 28 31 15 12 18 30 38	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 0.04 NA < 0.03	mg/L 0.00007 0.00008 0.00009 0.00018 0.00002 <0.0003 0.00004	mg/L	6.9 85 88 87 90 141 168 113 96	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 < 0.001	13 16 15 8 8 14 19 8 6	6.20 6.10 6.50 6.60 5.50 6.10 5.80	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0	50 70 70 70 110 160 120
5/21/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005	mg/L 6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0	< 0.2 < 0.3 < 0.3	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0 15.3	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15 7,55 7,56	30 13 19 28 31 15 12 18 30 38 54	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 0.04 NA < 0.03 < 0.03 < 0.05 < 0.05	mg/L 0.0007 0.0009 0.0009 0.0009 0.0002 <0.0003 0.0004 <0.0003 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.002 < 0.001	13 16 15 8 8 14 19 8 6 7	6.20 6.10 6.50 6.50 5.50 6.10 5.80 6.40 5.20 6.00	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1	50 70 70 70 110 160 120
5/2 1/2/003 6/10/2/003 6/31/2/011 8/6/2/003 9/2/8/2/003 10/2/8/2/003 10/2/8/2/003 6/2/8/2/004 10/14/2/004 8/3/2/005 10/2 1/2/005 5/16/2/006 8/2/9/2/006	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0	< 0.2 < 0.3 < 0.2	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15 7,55	30 13 19 28 31 15 12 18 30 38 54	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 < 0.04 NA < 0.03 < 0.05	mg/L 0.00007 0.00008 0.00003 0.00009 0.00018 0.00002 <0.0003 0.00004	mg/L	6.9 85 88 87 90 141 168 113 96 146	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.002	13 16 15 8 8 14 19 8 6 7	6.20 6.10 6.50 6.50 5.50 6.10 5,80 6.40 5,20	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1	50 70 70 70 110 160 120
5/2 1/2/003 6/10/2/003 5/31/2/011 8/6/2/003 9/2/5/2/003 10/2/3/2/003 5/2/6/2/004 8/19/2/004 10/14/2/004 8/3/2/005 9/2/2/005 10/21/2/005 5/16/2/006 8/2/2/006 10/17/2/006 8/5/16/2/007	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0003 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005	mg/L 6.9 4.0 4.1 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7.0 7	< 0.2 < 0.3 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0 15.3 <1 2 2	6.70 7.11 6.67 6.71 6.88 6.63 6.62 6.81 7.24 7.15 7.55 7.56 7.57 7.40 7.50 7.80	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 28	0.18 0.06 0.03 0.05 0.06 0.03 0.04 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.00007 0.00008 0.00009 0.00018 0.00002 <0.0003 0.00004 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.000	mg/L	6.8 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154	0.002 < 0.001 < 0.001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6	6.20 6.10 6.50 6.60 5.50 6.10 5.80 6.40 5.20 6.00 3.90 6.20 6.90 7.42 6.77	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 16.4 18.3 7.5	50 70 70 70 110 160 120 140 110 110
5/2 1/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/16/2007 8/16/2007	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L 6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7 7 7 7	< 0.2 < 0.3 < 0.01 <	< 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 5.3 < 1 2 5 5 3.0 4 12.3 4 2 5 5 5 5 6 7 7 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.40 7.80 7.90 7.70	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88	0.18 0.06 0.03 0.05 0.06 0.03 0.04 NA < 0.03 < 0.05 < 0.05	mg/L 0.00007 0.00008 0.00003 0.00009 0.00018 0.00002 <0.0003 <0.0004 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154 152 201	0,002 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7	6.20 6.10 6.50 6.60 5.60 5.80 6.10 5.80 6.40 6.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7	50 70 70 70 110 160 120
52172003 67107203 67107203 673172011 87072003 972572003 1072872003 1072872004 871972004 871972004 871972005 97272005 1072172005 571672006 872972006 1071772006 571572007 1071872007 1071872007 572172008	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7 7 7 7 14 7 6 9 6	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 39.7 20.9 6.8 13.6 3.0 15.3 <1 2 2 5 30 <1 28 19 41	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.40 7.50 7.90 7.70 7.90	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88 49	0.18 0.08 0.03 0.05 0.06 0.03 0.07 0.08 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	mg/L 0.00007 0.00008 0.00009 0.00018 0.00002 <0.0003 <0.0004 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 109 134 152 201 187 150 223	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 18 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7	6.20 6.10 6.50 6.60 5.50 6.10 5.80 6.40 5.20 6.00 3.90 7.42 6.77 7.55 7.04 7.55	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 14.2 11.4 8	50 70 70 70 70 110 160 120 140 110 110 10
5/2 1/2003 6/10/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/16/2007 8/16/2007 6/16/2007 6/16/2007 8/16/2007 6/16/2008 8/20/2008 10/24/2008 6/19/2009 8/18/2009	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.001	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.0 7.0 7.0 7.0 7.0 7.0 9.6	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 <	< 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0 15.3 <1 2 2 5 30 <1 2 8	6.70 7.11 6.67 6.71 6.88 6.62 6.81 7.24 7.15 7.55 7.56 7.57 7.40 7.80 7.90 7.70	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 88 49 43	0.18 0.06 0.03 0.05 0.06 0.03 0.03 0.03 0.04 NA 0.03 0.05 0.05 0.05 0.05 0.09 0.05 0.09 0.01 0.01	mg/L 0.00007 0.00008 0.00009 0.00018 0.00002 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154 152 201 167	0,002 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7	6.20 6.10 6.50 6.60 5.60 6.10 5.80 6.40 5.20 6.90 3.90 6.20 6.90 7.42 6.77 7.55 7.04	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 18.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3	50 70 70 70 110 160 120 140 110 110
5/2 1/2/003 6/10/2/003 6/10/2/003 6/31/2/011 8/6/2/003 9/2/5/2/003 10/2/8/2/003 10/2/8/2/004 8/19/2/004 8/19/2/004 8/19/2/004 10/14/2/004 8/3/2/005 9/2/2/005 10/21/2/005 5/16/2/006 8/2/9/2/006 10/11/2/006 5/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/007 8/16/2/008 8/2/2/2/008 10/2/2/2/008 8/18/2/009 8/18/2/009 8/18/2/009 8/18/2/009 8/18/2/009	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05	<0.006 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01	69/4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.0 7.0 7.0 7.0 7.0 6 9 6 11 10 6 <1 10 8	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 <	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 3.0 15.3 <1 2 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.80 7.80 7.90 7.70 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 7.40 7.40 7.40 7.40 7.40	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88 49 43 98 195 102 84 47	0.18 0.08 0.03 0.05 0.06 0.03 0.05 0.04 NA <0.05 <0.05 <0.05 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mg/L 0.0007 0.00008 0.00009 0.00018 0.00002 <0.0003 <0.0004 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 126 127 129 134 154 152 201 167 223 516 161 232 213 177	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7 7 6 11 12 13 7 7 6	6.20 6.10 6.50 6.50 6.60 5.80 6.10 5.80 6.40 5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.55 7.55 7.56 7.37 7.74 7.74	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.4 8 22.9 7.3 11.4 8 22.9 7.3 11.4 8	50 70 70 70 110 180 120 140 110 10 212
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Ministry of the Environment and Climate Change

Northern Region
Kenora Area Office
808 Robertson Street
Kenora, ON P9N 1X9
Fax: (807) 468-2735
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Ministère de l'Environnement et de l'Action en matière de changement climatique

Direction régionale du Nord Bureau du secteur de Kenora 808 rue Robertson Kenora, ON P9N 1X9 Télécopieur: (807) 468-2735 Téléphone: (807) 468-2718



July 17, 2017

Mr. M. Pokharel Supervisor, Kenora Area Waste Disposal Site 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

SUBJECT: Kenora Area Waste Disposal Site - Exceed Trigger Level for Boron

ECA A612018

This letter will confirm receipt of correspondence dated June 7, 2017 and received by the Ministry of the Environment and Climate Change (MOECC) on June 20, 2017. The correspondence provides information about measured exceedances of the trigger value for boron at sample site SW-2 and describes an action plan for investigating the cause of the exceedance.

I have reviewed the action plan and have no specific comments or issues with the proposed actions.

The plan has been sent to the ministry's Northern Region Technical Support Section for review and comment. Any suggestions resulting from this review will be forwarded to you when they become available.

I can be reached at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation.

Yours truly,

Ray Boivin

Senior Environmental Officer

Kenora Area

/RB

c. Colin Ross, Azimuth Environmental Consulting, Inc.



Environmental Assessments & Approvals

April 3, 2018

AEC 17-020

Ministry of Environment & Climate Change Northern Region Kenora Area Office 808 Robertson Street Kenora, ON P9N 1X9

Attention:

Ray Boivin - Senior Environmental Officer

Re:

Jones Road Landfill Site — 2017 Trigger Mechanism Exceedance Monitoring Summary

Dear Mr. Boivin:

The purpose of this correspondence is to provide the Ministry of Environment & Climate Change (MOECC) District Office an update on the monitoring completed as part of the 2017 Trigger Mechanism Exceedances for boron in the surface water at the Jones Road landfill Site. The plan which was outlined in a June 2017 letter notification letter proposed a phased approach which included collection of additional samples from both surface and ground water locations in 2017 to assess the mechanism in which the elevated boron concentrations were migrating downstream within the established Contaminant Attenuation Zone (CAZ). The following represents a brief summary of these results, which will also be included in the annual monitoring report due to the MOECC by June 30, 2018.

2017 Trigger Mechanism Exceedance Action Plan Monitoring

As indicated in the Trigger Mechanism Exceedance Action Plan presented in June 2017, monitoring was completed at additional surface water locations in the forested wetland area between the waste mound and SW-1. A total of three locations were targeted at various distances from the waste mound. As illustrated in the appended figures, RW-1 is located adjacent the MW-20, RW-2 is located adjacent to MW-2/13 and RW-3 was located between MW-20 and MW-21. It is noted that these locations were targeted by



City staff based on sufficient depth to facilitate a representative sample. There is no defined flow channels in this area and surface water migration is assumed to braided based on local subtle topographic variation.

The results, which have been appended along with updated surface water summary tables for the existing monitoring locations indicates boron concentrations were elevated at all three locations. The following table summarizes the boron as well as other notable leachate indicator parameters which were analyzed at all six locations and observed to be elevated. pH was also added as it was previously discussed in a correlation between pH and boron concentrations.

Table 1: Leachate Indicator Parameter Concentration Comparison

		RW-1	RW-2	RW-3	SW-1	SW-2	SW-5*	
Parameter	PWQO	11-Apr-17	11-Apr-17	5-Oct-17	17-May-17	17-May-17	29-Aug-17	
Boron	0.2	3.48	1.36	1.6	0.86	0.23	<0.02	
Chloride		180	62	69	34	17	5.0	
Alkalinity		2070	768	517	254	138	8.5	
Total Ammonia		70	14	0.13	<0.02	0.081	0.038	
Unionized Ammonia	0.02	1.25	0.42	0.0047	<0.0002	0.0191	0.0001	
рН	6.5-8.5	7.99	8.22	8.31	8.00	8.05	6.90	

^{*} only sampled in August monitoring event

As can be observed, the most significant elevations are found at RW-1, which is not immediately adjacent to the waste as is RW-2, which might suggest that impacts are migrating from the waste mound in specific locations south of RW-2. The results in the table also illustrate that there is attenuation observed for all the leachate indicator parameters indicating attenuation is occurring within the CAZ.

In addition to the surface water monitoring, samples were also collected from MW-7/4 and MW-21/7 in October 2017 to assess the potential for migration of the boron impacts within the shallow ground water. This was proposed as the closest monitoring wells downgradient of the waste (MW-2 nest) are relatively deep wells (9 & 13 m), while MW-7/4 and MW-21/7 had been removed from the monitoring program in 2012 due to a lack of observable leachate influence within the ground water within the waste area.

The results have been appended in updated chemistry summary tables for these two locations. It is noted that the water quality has remained consistent with that collected historically with no observable leachate influence. A slightly elevated nitrate concentration was observed at both locations (0.92 & 1.8 mg/L respectively), where the historical results are routinely below detection limits. However, a similarly elevated concentration (2.30 mg/L) was observed at MW-7/4 in 2005. Given that no other leachate indicator parameters showed elevated concentrations and this parameter has



been shown to have an isolated detection in the past, the 2017 concentrations are not interpreted to be related to landfill leachate within the ground water downgradient of the waste mound.

The additional ground and surface water quality data collected in 2017 confirms the presence of leachate within the surface water is consistent between the waste mound and SW-1, while similar impacts are not observed in the underlying ground water. This would suggest that the primary leachate migration pathway is within the surface water downgradient of the waste mound. This is supported by the fact the underlying soils have limited permeability with a dominance of silt and clay.

The other aspect of the surface water quality that was reviewed as part of this action plan was the relationship between pH and boron concentrations. Although there appears to be elevated pH levels where elevated boron is observed in the surface water network (SW-1 & SW- relative to SW-5), the longer term trends for pH at the impacted locations do not show a meaningful increase over time that would coincide with the increasing trends observed for boron. It is noted that there still may be a relationship between the two parameters; however, the magnitude would indicate that it is insufficient that it could be considered as part of any mitigation measure.

The final item of note with respect to the surface water quality monitoring completed in 2017 is that the boron concentrations are indicating relative stability at SW-1 since 2014 with concentrations falling within a range of 0.610 & 0.995 mg/L. Although concentrations at SW-2 are still showing a slight increasing trend over the past two years (0.21 to 0.36 mg/), there is a bit of a time lag with respect to the onset of the elevated boron concentrations such that it would not be surprising to see a similar consistency over the next year or two. This time lag is also reflective in the operational mitigative strategies that are being employed by the City with the decreasing of the active working area, shifting the active area further back from the downgradient toe in a new cell area and increasing the amount of cover material at the downgradient end of the waste mound. Continued monitoring in 2018 will help to assess the effectiveness with these operational changes.

Phase II Action Items

Aquatic Assessment (Update)

As discussed in the original action plan, it was proposed that an update to the historic aquatic assessment (Fenco MacLaren, 1997) could be completed with an updated field assessment of the water course / wetland feature that is present between the landfill and SW-2. Given the understanding developed with respect to the migration pathway being



completely through surface water flow, it is suggested that this work proceed in 2018 such that a site specific ecological risk assessment can be completed with respect to boron. As noted in the 2017 action plan, it may be appropriate to evaluate the boron concentration on alternative criteria such as Canadian Water Quality Objectives (CWQO), which have a larger threshold than that in the PWQO, while CWQO also has specific rationale for its threshold that could be related and interpreted based on the results of the aquatic assessment. CWQO also describes thresholds for both chronic and acute exposures.

Although the original aquatic assessment was limited to the defined CAZ lands, it is recommended that the proposed assessment would extend further downstream through to the outlet of the wetland feature at Morgan Lake. Although the current monitoring program has not indicated any impacts to Morgan Lake (SW-5), this assessment would benefit from developing an understanding of the ecological importance of the outlet area.

Additional Monitoring Locations

Given the results collected during 2017, there is an understanding that the boron impacts are the result of surface water flow from the waste area into the adjacent wetland area. Although it was confirmed that impacts are not most elevated immediately adjacent to the waste mound at MW-2, it would be beneficial to refine the migration pathway by establishing an additional surface water location between MW-2 and the bedrock ridge to the south. As such it is proposed that RW-4 be established in this area if sufficient water is present, while RW-1, RW-2 & RW-3 be included with the routine surface water monitoring program for the Site such that boron trends (i.e. stability) can be further delineated. We note that the RW series of sampling locations is primarily pooled and stagnant water within the wetland, and would not normally be subject to PWQO.

Finally, an additional surface water location (RW-5) is proposed at the outlet of the wetland tributary at Morgan Lake such that this information can be utilized as part of the aquatic assessment.

The continued monitoring of these additional locations will be reassessed following review of the 2018 data.

Boron Source Assessment

A final item within the work plan for 2018 includes an assessment to potentially identify the specific source of boron within the waste stream. It is understood that boron is potentially contained in a number of construction and demolition (C & D) wastes as both a fire retardant (wallboard) and preservative (treated wood), but the amounts and leaching



potential for these materials is not well understood. As such, it is proposed that some common C & D wastes be assessed in 2018 for leachable boron content. It is proposed that the City isolate these wastes (pressure treat wood, wallboard and particle board) in separate containers on site such that they are exposed to local conditions and that these containers can collect the leached rainfall from these materials between spring melt and midsummer, when samples from these isolated leachate containers can be collected and submitted for laboratory analysis, similar to the routine monitoring program. The results may provide a primary waste stream source for the boron such that operations at the Site can be developed to handle and isolate these materials from the regular waste stream in an effort to reduce the contribution to the adjacent surface water features.

Similarly, a soil sample is proposed to be collected from the cap material used at the Site to assess the potential for this material contributing boron into the watershed.

The City welcomes any feedback or comments relating to the above work plan, while any deviations will be detailed in an update letter to the MOECC District Office.

Yours truly,

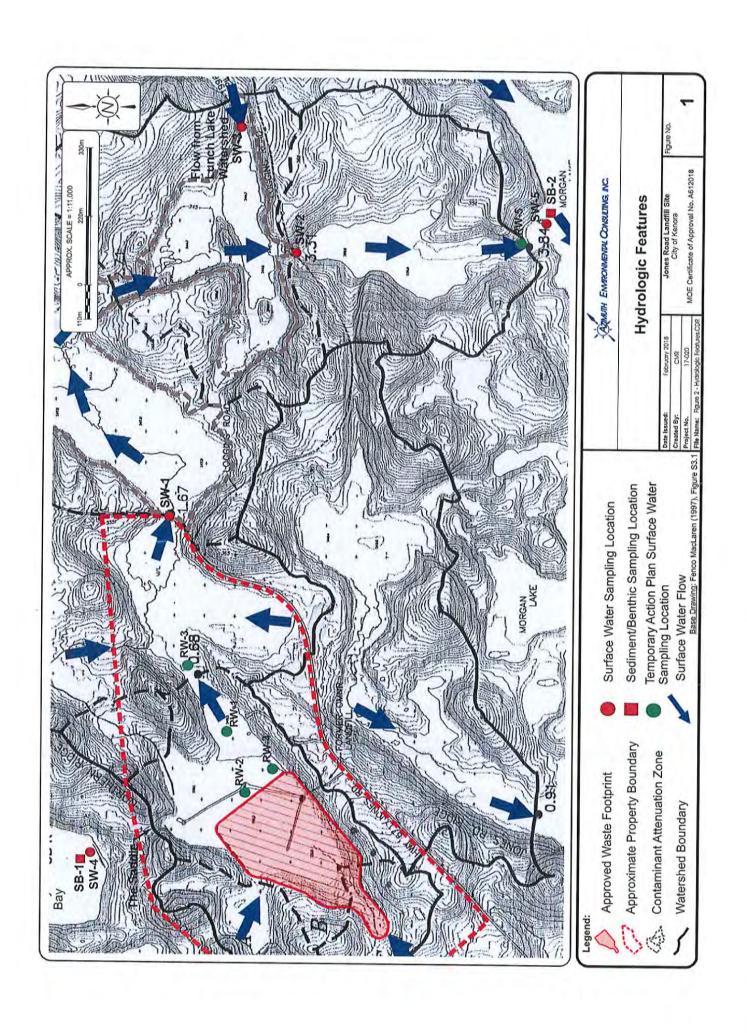
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

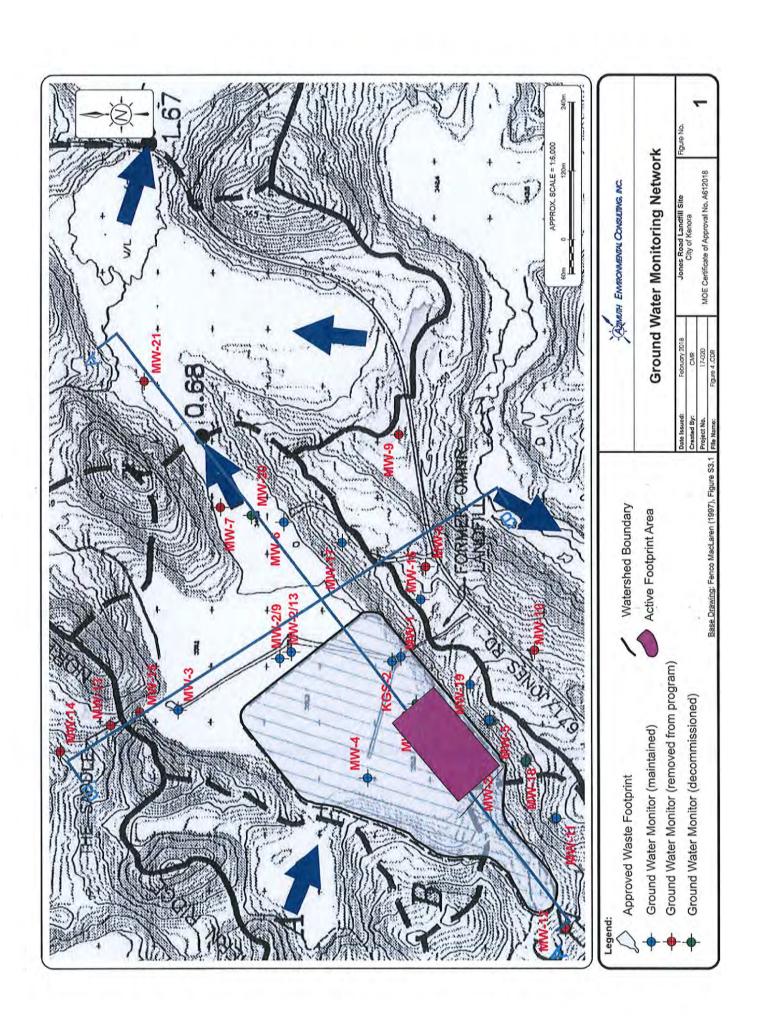
Colin Ross, B.Sc., P.Geo.

Senior Hydrogeologist

Attach:

cc: Mukesh Pokharel - City of Kenora





Ctat	ion.	SIM-1	١

Paran PWQO -	neter -	As 0.1	B 0.2	Ba	Ca	0.0001	0.1	0.005	Fe 0.3	0.0002	К	Mg	Mn	TDS	TKN	Total P 0.03	COD	BOD	TSS
otion**	QA/QC	mg/L	0.8 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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5/15/2007 8/15/2007		<0.2	0.170	0.070	-	<0.005	<0.01	<0.02	0.43 4.7	<0.0001				183 418	3.00	0.043	92 150	<2 5.0	7
10/18/2007		<0.2	0.080	0.050		<0,005	<0.01	<0.02	1.7 0.67	<0.0001				246	3.00 1.30	0.120	140 87	3.0	5 < 1
8/20/2008		<0.2 <0.2	0.230	0,050		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.8	<0.0001 <0.0001				270 420	3.30 2.50	0.530	280 120	6.0 3.0	14
10/24/2008 5/19/2009									0.29						1.30	0.096	81	2.0	< 1
8/18/2009		<0.2 <0.2	0.120 0.160	0.050		<0.005 <0.005	<0.01	<0.02 <0.02	1.6	<0.0001 <0.0001				266 335	2,40 1.90	0.740 0.130	200 100	5.0 < 2	10 5
5/18/2010 8/25/2010	no sample						1 2 2 2		0,32	100000					1.90	0.092	100	5.0	3
10/21/2010 5/31/2011		<0.2	0.130	0.040		<0.005	<0.01	<0.02	0.38	<0.0001				508	1.50 1.50	0.210	90 89	<2	1 4
8/24/2011		<0.2 <0.2	0.330	0.040		<0.005 <0.005	<0.01	<0.02 <0.02	0.51	<0.0001 <0.0001				470 344	2.00	0.400	110 110	<2	3 2
5/18/2012							<0.01	<0.02	0.29	<0.0001				762	1.80	0.150	90	<2 4.0	3 54
8/30/2012 10/23/2012		<0.2 <0.2	0.250	0.070	-3	<0.005 <0.005	<0.01	<0.02	0,26	<0.0001				696	1.80	0.370	120	<2	2
5/24/2013 8/29/2013		<0.2	0.470	0.470		<0.005	<0.01	<0.02	7.3	<0.0001	_			780	2.80 4.70	0.004 0.830	110 150	<2	2 56
10/17/2013 5/23/2014		<0.2	0.390	0.070		<0.005	<0.01	<0.02	0.4	<0.0001				680	2.10	0.370	130 96	2.0 <2	5
8/21/2014		<0.2 <0.2	0.810	0.150 0.075		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	6.8	<0.0001 <0.0001				1230 788	4.40 2.30	0.940	180 110	11.0	55 3
5/21/2015		-		0.027		<0.005	<0.01	<0.02	0.5	<0.0001				762	1.60	0.170	100	<2 <2	5
8/25/2015		<0.2 <0.2	0.750 0.820	0.027		<0.005	<0.01	<0.02	0.33	<0.001				1040	1.80	0.260	130	2.0	3
5/10/2016 9/8/2016		0.002	0.995	0.036	39.8	<0.00001	0.0002	0.001	0.48	<0.00001	155	23.9	0.021	676	4.15 2.58	0.161	104 151	<6	19.3 <4.0
11/1/2016		0.001	0.730 0.836	0.031	Carrie	<0.00001	0.001	0.0004	0.246	<0.00001				414	1.58	0.171	105	<6	<4.0
11/18/2016	Duplicate		0,828						0.46						1.60	0.170	99	<3	<4
5/17/2017	Duplicate	0.004	0.882	0.038	41	<0.00002	<0.001	0.0002	0.47	0.0000035	130	24.0	0.039	602	2.00	0.043	130	NA	6
8/29/2017 10/24/2017		0.001 0.001	0.990	0.030	35	<0.00002	<0.001	<0.0002	0.31	<0.0000038	110	22.0	0.012	522	1.40	0.120	92	<3	<4.0
	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	ρН	alk42	NH3-N	Unionized NH3- N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
VQO -			0.003	0.02	187				6,5 - 8,5			0.02			0.001				
5/26/2004		mg/L	mg/L	mg/L	mg/L 8.5	mg/L < 0.2	mg/l. < 0.2	mg/L 40.4	n/a 7.08	mg/L 44	mg/L 1.29	mg/L 0.00193	mg/L	mg/L 218	mg/L < 0.001	mg/L 6	6.20	5.0	230
8/19/2004 10/14/2004			< 0.0005	0.056 < 0.005	8.8 10.2	< 0.2	< 0.2	45.2 48.1	7.65 7.63	. 62 136	NA 0.03	0.00016	-	246 420	0.001	6	6.80	10.0 5.0	440
8/3/2005			0.0022	0.036	5	< 0.3	< 0.2	11.1	7.58	75	0.09	0.00114 0.00197		175	< 0.001	10	4,50 6,00	17.8 13.7	170 270
9/2/2005 10/21/2005			< 0.0005 < 0.0005	0.072	17	< 0.3 < 0.01	1.6 < 0.1	10.4	7.49 7.78	133 115 =-	0.26	0.00079		230	< 0.001	13	3.70	8.5	20
5/16/2006 8/29/2006			< 0.0005	0.100	21	< 0.01 < 0.01	< 0.1	14.0	7.70	85 117	< 0.05	<0.0005 0.00057		221 291	< 0.001	10	7.30 6.71	17.2 17.4	
10/17/2006 5/15/2007			< 0.02	0.250	30 14	< 0.01	< 0.1	30.0 105.0	7.60	113 66	0.46	0.00310 0.00034		353 417	<0.001	12	6.24	8.9 14.8	
8/15/2007			<0.05 <0.05	0.200	21	<0.01 <0.01	<0.1 <0.1	33.0 33.0	8.00 7.90	306 181	0.58	0.01745 0.00141		624 458	0.005 0.004	8	7.6 7.21	16.7 11	687
5/21/2008			<0.05	<0.005	10	<0.01	< 0.1 < 0.1	52.0	7.80	121	< 0.05 0.23	<0.0005 0.00901		370 402	0.001	10	7.5 7.37	10.9 20.4	
8/20/2008 10/24/2008			<0.05	<0.005	17	<0.01	< 0.1	23.0 < 2	8.20	280	0.05	0.00126		656	< 0.001	9	7.06	8.4	309
5/19/2009			<0.05	0.020	12	<0.01 <0.01	< 0.1 < 0.1	48.0 < 2	7.00	99 188	< 0.05 0.17	<0.0005 0.00133		322 438	<0.001 0.005	9	7.35 7.52	n/a 16.9	326 480
5/18/2010			<0.05	0.030	19	<0.01	< 0.1	74.0 35.0	7.50 8.10	159	0.09	0.00043		514 455	<0.001	10 8	7.74	7.4	498 430
8/25/2010	no sample		<0.05	<0.01	28	<0.01	<0.1	85.0	8.01	254	<0.05	<0.0005		779	<0.001	7 9	6.64 7.94	16 5.1	692 784
5/31/2011			<0.05	<0.01	19	<0.01 <0.01	<0.1	54.0 27.0	7.88 8.02	182 262	<0.05 <0.05	<0.0005 <0.0005		552 691	<0.001	4 6	7.42 8.14	11.8 18.1	490 699
8/24/2011 10/25/2011			<0.0001	<0.01	24	<0.01	<0.1	13.0	7,71	185	0.22	0.00139		502	0,007	4	7	4.9	509
5/18/2012			<0.05	<0.01	26 61	<0.01	<0.1	31.0 13.0	7.76 8.18	170 400	<0.05	<0.0005 0.01628		510 1000	< 0.007	9	6.6 7.68	18 19.4	540 1259
10/23/2012			<0.05	<0.01	62 31	<0.01 0.025	<0.1 0.31	71.0 9.0	7,84 7,94	310 220	0.092	0.00083 0.01050		960 620	<0.001	10	7.76 9.51	5.7 10.6	694 604
8/29/2013 10/17/2013			<0.05 <0.05	<0.01	68 60	<0.01 0.011	<0.1	<1 20.0	7.76 7.96	440 340	1.0 0.16	0.00843 0.00110		1100 940	<0.001	6	7.37 7.65	18.8	1297 801
5/23/2014				-	29	<0.01	0.24	30.0	7.87	210	1.5	0.01625 0.01060		580 1400	0.011 <0.001	8	7.61 8.37	14.8	566 1290
8/21/2014 10/9/2014			<0.05	0.070	90	<0.05 <0.01	<0.5	20.0	7.94	570 380	0.33	0.00161		1000	0.017	4	7.54	6.6	886
5/21/2015 8/25/2015			<0.05	<0.01	39 43	<0.01 <0.01	<0.10 <0.10	18,0	7.72	200 280	<0.05 0.097	<0.0005 0.00020		600 740	<0.001	6	8.17 6.89	16.1	537 626
10/20/2015 5/10/2016			<0.05	<0.01	100	<0.01	<0.10	45.0 18.4	8.09 7.99	590 330	0.098	0.00140		1600 853	<0.001	6 7	8.01 8.53	6.6 8	1146 542
9/8/2016		48.5	<0.0002		60	<0.2	0.014	7.5	8.26	390 288	0.36	0.00000 0.00023		976 768	0.005	7	7.56	6	317
11/1/2016 11/18/2016		22.7	<0.0002		44	0.004	<0.2	30.2	8.12	288	0.027	0.00029		708	0,002	-	7.56	0	317
					48 34	<0.010	0.094	16.0	8.00	254	<0.02	<0.0002 <0.0002		643	0.004	7	8.4	8.8	408
5/17/2017 5/17/2017 5/17/2017 8/29/2017	Duplicate		<0.0002	<0.003	35 50	<0.010	<0.010	2.6	7.90	360	<0.02 0.068	<0.0002 0.00472		937	0.003	7	8.4 8.43	8.8 15.2	408 582

Bold denotes exceedance of PWGO (1994) criteri NA - Not Analyzed Underline Indicates exceedance of Action Criteria "Nitrate plus Nitrite

* should not be decreased by more than 25% of t

* - action level according to trigger mechanism

Paramete	r	As 0.1	0,2	Ba	Ca	D.0001	0.1	0,005	0.3	0,0002	К	Mg	Mo	TDS	TKN	Total P 0.03	COD		TSS
		mg/L	0.2 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.66	mg/L 0.036	mg/L 64	mg/L 0.7	mg/L
004 004		< 0.002	0.010	0.014	8.60	< 0.0001	< 0.005	0.002	0.29	< 0.0001	5.9	3.4	0.042	138	0.98	0.024	105	0.9	1
004		< 0.002	0.009	0.017	16	< 0.0001	< 0.005	< 0.0005	0.5 1.1		5.1	4.8	0.120	156	1.02	0.013 0.033	77	< 2	3
05		0.001 < 0.001	0.016	0.019	10	< 0.0001	< 0.005	0.001	0.94	0.0001 < 0.0001				194 198	0.90	0.035	73	< 2	8
005	-	< 0.001	0,019	0.017		< 0.0001	< 0.005	0.001	0.25					50 105	1,50 1,50	0.006	60	< 2 < 2	1 <1
800		0.001	< 0.02	< 0.020	-	< 0.0001	< 0.1	< 0.001	0.19	< 0.0001 < 0.0001				113	0.60	0.009	33	< 2	< 1
006			The state of the s	0.03		<0.005	<0.01	<0.02	0.29	<0.0001				69 146	1,50	0.017	110	<2 <2	3.0
007		<0.2 <0.2	0.05	0.02		<0.005	<0.01	<0.02	0.37	<0.0001				124	1.20	0.021	78 63	<2 <2	<10
800	_	<0.2	0.05	0.05		< 0.005	<0.01	<0.02	4,2	<0.0001				150	2.10	0.076	110 83	<2 <2	40
800		<0.2	0.04	<0.02		<0.005	<0.01	<0.02	0.33	0.0003		_		325	0.80	0.020	71	<2	<1
009		<0.2	0.05	0.03 <0.02	-	<0.005 <0.005	<0.01	<0.02 <0.02	2.1 0.36	<0.0001			-	155 140	1.70	0.044	120 72	<2 <2	1
010		<0.2	0.03					<0.02	0.58	<0.0001				200	1.40	0.019	75 97	<2 <2	4 2
010 010		<0.2	0.04	0.03		<0.005	<0.01	<0.02	0.36	<0.0001				192	0.70	0.016	64 72	<2 <2	<1
011		<0.2	0.05	0.03	_	<0.005	<0.01	<0.02	0.51	<0.0001				228	1.30	0.090	91	<2	22
011		<0.2	0.03	0.02		<0.005	<0.01	<0.02	0.44	<0.0001				224	7.30 1.10	0.042	68 72	<2 <2	2
012	-	<0.2	0.05	0.03		<0.005	<0.01	<0.02	0.89	<0.0001				180 184	1.70	0.099	96 78	<2 <2	11
012		<0.2	0.03	<0.02	-	<0.005	<0.01	<0.02	0.37					334	1,50	0.043	69 110	<2	<1
013		<0.2 <0.2	0.06	0.048	-	<0.005	<0.01	<0.02 <0.02	1.5	<0.0001				272	1.40	0.049	96	2	<
2013				0.065		<0.005	<0.01	<0.02	0.26	<0.0001				382	1.20	0.032	79 120	<2 2	11
014		<0.2 <0.2	0.1	0.065		<0.005	<0.01	<0.02	1.4	<0.0001				292	1.30	0.065	75 68	2 <2	5
015		<0.2	0.14	0.035		≺0.005	<0.01	<0.02	0.45 2.6	<0.0001			-	348	1.60	0.140	98 95	2 <2	- 6
015		<0.2	0.14	0.034		<0.005	<0.01	<0.02	0.704	<0.001	100			322	1.18	0.050	82		
2016		0.0009	0.297	0.025	20.6	<0.00001	<0.001	0.0003	0,544	<0.00001	48.7	10.4	0.006	292 276	1,53	0.097	104 89	<6 <6	<4
2016 2016		0.0005	0.210	0,028		~0.00001	~0.00)	0,0004	0,200	0.0000						-			-
2016	Duplicate		0.217	-					0.38				-		1.20	0.053	72	<3	<
2017 /	Duplicate	0.0008	0.199	0.035	22	<0.00002	<0.001	0.0002	2.1	0.000003	47	10.0	0.250	276	1.90	0.042	110	NA	<
017		0.0010	0.320	0.030	20	<0.00002	<0.001	0.0002	1	0.000002	52	9.8 Unionized	0.066	274	1.40	0.050	94	0,8	<
aramet	lor.	Na	РЬ	Zn	CI-	NO2-N	NO3-N	804	рН	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field
200		I COV	0,003	0.02	125				6.5 - 8.5			0.02			0,001	1000			
		60 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L < 0.2	mg/L 1.1	n/a 6.88	mg/L 31	mg/L 0.06	mg/L 0.00018	mg/L	mg/L 90	mg/L < 0.001	mg/L 8	6.60	20.0	7
2003			< 0.0005	< 0.005	6.2	< 0.2	< 0.2	31.4	6.53	15	0.03	0.00002		141 168	< 0.001	14	5.60 6.10	8.5 2.0	10
2003 2004			< 0.0005	< 0.005	8.4 4.9	< 0.2	< 0.2	20.9	6.62	12	< 0.03 0.04	<0.0003 0.00004		113	<0.001	8	5.80	8.0	10
2004		4.9	< 0.0005	< 0.005 < 0.005	5.0 6.1	< 0.2	< 0.2	6.8 13.6	7.24	30	< 0.03	<0,0003		96 146	0.001 <0.001	7	6.40	11.5 6.0	1
2004			< 0.0005 0.0003	< 0.005	6.0	< 0.3	< 0.2	3.0	7,55 7,56	54 50	< 0.05 < 0.05	<0.0005 <0.0005		126 116	< 0.002	13	6.00	22.1 14.2	1
2005		-	< 0.0005	< 0.005	7.0	< 0.3	< 0.2	15.3	7.57	44	< 0.05	< 0.0005		102	< 0.001	11 9	3.90 6.20	7.1 16.4	
2006			< 0.0005	0.008	7	< 0.01	< 0.1	2 2	7.40	37 55	< 0.05	<0.0005 0.00098		134	< 0.001	6	6.90	18.3	
2006			< 0.05	0.020	14	< 0.01	< 0.1	5 30	7.80	48 26	< 0.05	<0.0005		154	< 0.001	12	7.42 6.77	7.5 12.1	
/2007 /2007			< 0.05	<0.01	6	<0.01	<0.1	<1	7.90	88	0.11 <0.05	0.00265 <0.0005	-	201 187	< 0.001	5	7.55	16.7	2
/2007 /2008			<0.05	<0.01	6	<0.01	<0.1	19	7.70 7,40	49	< 0.05	<0.0005		150	< 0.001	7	7.53	8 22.9	
/2008			<0.05 <0.05	<0.01 <0.01	11	<0.01	<0.1	<1	8.00	98 195	<0.05 <0.05	<0.0005 <0.0005		223 516	<0.001	11	7,45	7.3	1
/2008				7.00.00	6	<0.01	<0.1 <0.1	<1	6.90 7.40	47 102	<0.05 <0.05	<0.0005 <0.0005	-	161 232	<0.001	9	7.37	n/a 18.1	1
/2009 /2009			<0.05 <0.05	<0.01	<1 10	<0.01 <0.01	<0.1	<1	7.40	84	<0.05	<0.0005 0.00040		213 177	<0.001	8	7.74	17	1
/2010 /2010			<0.05	<0.01	8	<0.01	<0.1	<1	7.40	123	0.05 <0.05	<0.0005		301	< 0.001	- 5	7.30	18.6 6.7	
/2010			<0.05	<0.01	14	<0.01	<0.1	<1	7.55 7.59	109 74	<0.05 <0.05	<0.0005		587 199	<0.001 <0.001	7	8.17 7.18	11.4	
/2011			<0.05	<0.01	13	<0.01	<0.1	<1	7.63 7.93	122	<0.05 <0.05	<0.0005 <0.0005		292 292	<0.001	10	8.19 7.66	18.1 4.3	1
/2011 /2012			<0.05	<0.01	15 13	<0.01 <0.01	<0.1	<1	7.48	100	<0.05	<0.0005		260 320	<0.005	8 7	6.29 7.50	18 18.3	- 1
/2012			<0.05 <0.05	<0.01	16	<0.01	<0.1	<1	7.74	130	0.058	0.00109		210	< 0.001	9	7.71	5.3	1
/2012 /2013				<0.01	14	<0.01 <0.01	<0.1 <0.1	<1	7.66	88 160	0.073	0.00070		250 420	0.005 <0.001		9.57 7.49	11.6 18.3	1
7/2013 7/2013			<0.05 <0.05	<0.01	23	<0.01	<0.1	<1	7.70	120	<0.05 <0.05	<0.0005 <0.0005		340 270	0.006	7 8	7,70 7,80	5.5 14.1	
72014		1	<0.05	0.010	15 25	<0.01 <0.05	<0.1 <0.5	<1	7.46	96 160	0.096	0.00154		410	<0.001		8,35 7,40	17 6.1	
/2014			<0.05	<0.01	26 13	<0.01	<0.1	<1	7.64 6.88	140 75	0.096 <0.05	<0.00057		370 200	< 0.001	9	6.52	9.2	
1/2015 5/2015			<0.05	<0.01	21	<0.01	< 0.1	<1	7.31	110	0.062 <0.05	0.00031 <0.0005		310 400	<0.001	6	6.54 7.32	13.5 5.4	
)/2015)/2016			<0.05	<0.01	28 18		<0.10 0.20*	<1	7.90	129	0.063	0.00099		330	0.005	9	8.88	11	
3/2016		19.5	<0.0002		25 28	<0.20	0.005 <0.2		7.96 8.02	155 186	0.086	0,00064		388 467	0.003		7.25	5.7	
1/2016 8/2016			-0,0002		26	0,000					<0.02 <0.02	<0.0002	-	1					
8/2016 7/2017	Duplicate	7	100		27 16.8		0.051	4.3	8.05	138	0.081	0.01912		338	0.004	10	9.16 9.16	11.8 11.8	-
7/2017 9/2017	Duplicate	19.0	<0.0002	<0.003	16,9	0.010	0.016		7.50	160	0.041	0.00968 0.00244		409	0.002	4	7,33	17.1	-
4/2017		21.0	< 0.0002		20	<0.010		2.6	7.95		<0.015	<0.0002		357	0.004	11	7.58	5.8	

Station: SW-3

Paran PWQO -	reter -	As 0.1	B	Ba	Ca	0.0001	Cr 0.1	0.005	Fe 0.3	Hg 0.0002	K	Mg	Mn	TDS	TKN	Total P 0.03	COD	BOD	TSS
MQO -	The same	0.1 mg/L	0.2 mg/L	mg/L	mg/L	mg/L	0.1 mg/L	ing/L	0.3 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/28/2004		tug/c.	mgrc	myr	my	niger	myc	night	1,49	ing/i	myre	mg/L	ingre	Ing/L	0.59	0.05	62	1.0	34
8/19/2004		< 0.002	< 0.002	0.065	5.90	< 0.0001	-	0.011	7.64	< 0.0001	2	3.5	0.115	170	0.70	0.17	115	0.9	32
8/3/2005		0.0012	< 0.01	0.016	11	< 0.0001	< 0.005	0.0025	1.1		5.1	4.8	0.12		1.4	0.14	86	< 2	21
9/2/2005		< 0.0001	0.011	0.017	200	< 0.0001		0.002	1.9	< 0.0001			1	92	1.9	0.18	73	9	10
10/21/2005		< 0.001	0.017	0.016		< 0.0001	< 0.005	< 0.001	0.55	< 0.0001			1	126	1.1	0.02	78	2	14
5/16/2006		100	-				-	-	12	-	_		-	32	1.6	0.14	91 85	< 2	110 8
5/15/2007 8/15/2007		<0.2	<0.02	0.04		<0.005	<0.01	<0.02	12	<0.0001		-		62	18	2,10	320	4.0	1100
10/18/2007		<0.2	<0.02	0.03		<0.005	<0.01	<0.02	0.13	<0.0001	-	-		47	2.1	0.08	82	<2	1
5/21/2008		10.00	-0.00	0.00		-0.040		101900	1.7	70.000					1	0.05	66	<2	<1
8/20/2008		<0.2	0.02	0.44		<0.005	0.05	0.06	7,7	< 0.0001				110	40	3.00	1000	12	6400
5/31/2011		≺0.2	< 0.02	< 0.03		< 0.005	< 0.01	< 0.02	1.1	<0.0001				35	1.8	0.05	100	<2	<1
5/19/2009		1000				-			0.76						1.1	0.03	78	3	4
8/18/2009		<0.2	<0.02	0.03	_	<0.005	<0.01	<0.02	1.5	<0.0001				60	1.5	0.07	91	<2	16
5/18/2010		≺0.2	< 0.02	<0.03		<0.005	<0.01	<0.02	5.7	<0.0001	_	-		35	4.3	0.06	190	2	95
8/25/2010		<0.2	<0.02	<0.02		< 0.005	<0.01	<0.02	9.1	<0.0001				46	1.7	0.097	110	3	21
10/21/2010		<0.2	< 0.02	<0.02		<0.005	<0.01	<0.02	1.5	<0.0001				36	1.0	0.035	80	<2	43
5/31/2011				7.0.0.0		100000			2.1	-					2.6	0.190	110	<2	5
8/24/2011		<0.2	<0.02	0.03		< 0.005	< 0.01	<0.02	12	<0.0001				80	3.0	0.360	120	7	25
10/25/2011		<0.2	< 0.02	<0.02		< 0.005	<0.01	< 0.02	0.86	<0.0001				58	1.3	0.058	52	<2	15
5/18/2012									3.7	N. W. W. W.			-	100	3.5	0.038	150	18	84
10/23/2012		≺0.2	<0.02	<0.02	-	<0.005	<0.01	< 0.02	1.5	<0.0001	-		-	122	1.5	0.032	84	<2 <2	<1
5/24/2013		<0.2	<0.02	0.065		<0.005	<0.01	<0.02	7.3	<0.0001			-	132	4.4	0.070	76 220	3	190
5/23/2014		70.2	~0.06	0,000	-	40.000	-0.01	-0.02	1.7	40,0001				102	1.4	0.250	67	3	26
10/9/2014		<0.2	< 0.02	0.025	-	< 0.005	<0.01	< 0.02	2.3	< 0.0001				118	1.3	0.056	80	2	6
5/21/2015		-							1.6	/					1.2	0.200	110	<2	87
8/25/2015		≺0.2	< 0.02	0.021		< 0.005	< 0.01	< 0.02	1.2	< 0.0001				122	1.2	0.055	85	<2	<1
10/20/2015		<0.2	< 0.02	0.058		< 0.005	<0.01	< 0.02	8	<0.0001				126	1.00	0.400	210	<2	180
5/10/2016				2 2 2 2			*****	0.007	1.7		4.90		0.010		1.17	0.097	84	-	17
9/8/2016		0.0006	<0.05	0.014	4.37	<0.00001	0.0017	0.004	0.96	<0.00001	0.79	2.0	0.018	68	1.43	0.083	98	<6	74
11/1/2016		0.0003	<0.05	0.015	-	<0.00001	0.0011	0.003	1,60	<0.00001				24	1.68	0.149	113 95	<6 9.0	109
8/29/2017		0.0007	<0.02	0.013	7.5	<0.00002	< 0.001	0.001	1.90	0.000004	0.72	3.2	0.069	66	1.50	0.018	97	NA.	38.5
10/24/2017		0.0008	< 0.02	0.014	5.3	< 0.00002	0.0014	0.002	0.90	0.000007	0.52	24	0.024	94	1.20	0.080	88	12.0	47
		100.00	7600	THE RESERVE	073 7	10000000	Control of	The Court	The same	The second	T. W.	Unionized	1000	Total de la	100000		and the same	40.600	1000000
Paran	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	804	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Co
WQO -		4.04	0.003	0.02	100/60	100	77.77	100	6.5 - 8.5	100		0.02	2756	1007	0.001	200	7		100000
nits -		mg/L	mg/L	mg/L	mg/L <0.6	mg/L < 0.2	mg/L < 0.2	mg/L 2.8	n/a 6,18	mg/L	mg/L 0.03	mg/L 0,00001	mg/L	mg/L 27	mg/l. <0.001	mg/L	5.50	4.5	30
5/26/2004		1.8	0.0026	0.047	5	< 0.2	< 0.2	1.5	6.65	13	NA	0,00001	-	31	0.001	5	0.00	10.0	30
8/3/2005		2.4	0.0007	0.022	2	< 0.3	< 0.2	4	7.10	40.6	< 0.05	<0.0005	_	86	0.002	6	4.40	19.4	90
9/2/2005		4.12	< 0.0005	0,0067	2	< 0.3	< 0.2	15.6	6.95	36.1	< 0.05	< 0.0005		92	< 0.001	10	5.20	13.1	70
10/21/2005			< 0.0005	0.005	7	< 0.01	< 0.1	<1	7.45	43	0.05	0.00021		103	< 0.001	12	4.00	7.3	10
5/16/2006				- X	2	< 0.01	< 0.1		7.10	25	< 0.05	<0.0005		55	< 0.001	12	6.60	17.5	
5/31/2011		,	1	and the	1	<0.01	<0.1	18	6.40	9	<0.05	<0.0005		85	<0.001	13	6.25	9.3	
8/15/2007		-	< 0.05	0.02	<10	<0.01	<0.1	<1	7.20	43	0.27	0.00114		90	0.003	6	6.79	14.7	65
10/18/2007			<0.05	0.01	2	0.01	<0.1	13	7.00 6.70	17	< 0.05	<0.0005 <0.0005		75 38	<0.001	5 16	6,12 6.64	5.5	
5/21/2008 8/20/2008		-	< 0.05	0.19	41	<0.01	<0.1 <0.1	<1	7,30	83	0.41	0.00363	-	166	0.008	8	6.46	21.7	-
10/24/2008			<0.05	<0.02	<1	<0.01	<0.1	<1	6.90	17	<0.05	<0.0005	-	57	< 0.001	9	6.76	6.7	50
5/19/2009		1	-0.00	TOTAL	<1	< 0.01	<0.1	<1	6.60	9	< 0.05	< 0.0005	-	39	<0.001	10	6.91	n/a	58
8/18/2009			< 0.05	< 0.02	<1	<0.01	<0.1	<1	6.70	43	<0.05	<0.0005		89	<0.001	5	7.08	16.6	76
10/22/2009	-		<0.05	<0.02	<1	< 0.01	<0.1	<1	-6,50	23	< 0.05	<0.0005		54	<0.001	7	7.68	3.2	48
5/18/2010			- 12 54		1	<0.01	<0.1	30	6.00	6	0.07	0.00002		43	<0.001	10	7.25	16.3	41
B/25/2010			< 0.05	<0.01	2	<0.01	<0.1	<1	6.70	34	<0.05	<0.0005		75	0.004	13	6.30	16.5	
10/21/2010			<0.05	<0.01	1	<0.01	<0.1	<1	6.79	28	<0.05	<0.0005	15	59	<0.001	7	8.48	6.8	80
5/31/2011		-	< 0.05	<0.01	1 2	<0.01	<0,1 <0,1	<1 9	6.48	9	0.08	0.00006		35 104	<0.001	6	6.87 7.43	17.9	100
8/24/2011			< 0.05	<0.01	<1	<0.01	<0.1	18	6.80	15	<0.05	< 0.00007	-	84	0.019	10	6,94	2.8	97
5/18/2012			~0.00	-0.01	2	<0.01	<0.1	5	6.47	26	< 0.05	<0.0005		84	0.006	11	6.50	24.7	99
10/23/2012		-	< 0.05	< 0.01	2	<0.01	<0.1	9	6.13	8.4	0.073	0.00001		59	<0.001	9	6.84	6.3	65
5/24/2013			-		1	< 0.01	<0.1	1	6.65	8.9	0.072	0.00007		37	0.004	12	9.67	12.5	45
10/17/2013			< 0.05	<0.01	2	<0.01	<0.1	<1	6.55	25	< 0.05	<0.0005		62	0.007	6	7.06	5.2	51
5/23/2014					2	<0.01	≺0.1	2	6.44	9	<0.05	≺0.0005		35	0.006	11	7.52	20.6	61
10/9/2014			<0.05	0.01	1	< 0.01	<0.1	<1	6.44	15	0.086	0.00004		59	0.008	5	7.45	7.7	61
5/21/2015			-		1	<0.01	<0.1	1	6.03	7.8	< 0.05	<0.0005		37	< 0.001	10	6.21	8.4	38
8/25/2015			<0.05	<0.01	1.6	<0.01	<0.1	1	6.08	6.6	< 0.05	<0.0005		33	<0.001	6	6.86	13.5	36
10/20/2015		_	<0.05	0.020	1	<0.01	<0.10	<1	6.66	27	<0.05	<0.0005	-	66	<0.001	8	6.96	3.4	53
		4 44	<0.0002		2.2	0.020		1.6	6.43	7.53	< 0.05	<0.0005 0.00002		31	0.002	6	8.29	4.5	31
5/10/2016		1.53	<0.0002		2.7	0.020	<0.20 <0.2	<0.5 <0.5	6.47	6,66	0.053	0.00002		37 38	0.002	0	7.18	6.5	38
5/10/2016 9/8/2016			*0.0002		<0.5	< 0.019	<0.2	1.2	6.58	8.76	0.043	0.00002		33	0.001	7	8.39	8.5	38
5/10/2016 9/8/2016 11/1/2016									0.00	1 0.70	0.010	0.00001		00	0.004		0.00		
5/10/2016 9/8/2016 11/1/2016 5/17/2017		1.0	<0.0002	0.005		<0.010	<0.010	<0.50		27	0.047	0.00005		65	0.003	4	6.29	13.0	92
5/10/2016 9/8/2016 11/1/2016		1.9	<0.0002	0.005	0.53				6.60 6.66	27 11.4	0.047 <0.015	0.00005 <0.0002		65 41	0.003	4 8	6.29 7.24	13.9	92

"Nirate plus Nitrit

Station: SW-4

Paran PWQ0 -	neter -	As 0.1	B 0.2	Ва	Ca	Cd 0.0001	Cr 0.1	Cu 0.005	Fe 0.3	Hg 0.0002	К	Mg	Mn	TDS	TKN	Total P 0.03	COD	BOD	TSS
Units - 5/26/2004		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.04	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.18	mg/L 0,009	mg/L	mg/L 0,8	mg/L
8/19/2004		< 0.002	< 0.005	0.008	5.80	< 0.0001	< 0.005	0.001	0.04	<0.0001	8.0	1.3	0.010	32	0.18	0.072	12	0.9	6
10/14/2004 8/3/2005		< 0.002	< 0.005	0.007	4.1	< 0.0001	< 0.005 < 0.005	0.0006	< 0.03		0.82	1.2	0.0085	34	0.22	0.009	14	1.0	6
9/2/2005		< 0.001	< 0.010	0.006	- 417	< 0.0001	< 0.005	< 0.0011	< 0.050	< 0.0001	0.02	1,2	0.0005	64	0.40	0.009	12	< 2	4
10/21/2005	5	< 0.001	< 0.010	0.008		< 0.0001	< 0.005	< 0.001	0.058	< 0.0001				40 73	0.30	0.006	12	< 2	4
5/16/2006 8/29/2006	3	< 0.001	< 0.010	0.005	-	< 0.0001	< 0.005	< 0.001	< 0.091	< 0.0001			_	21	0.50	0.007	11	< 2	3
10/17/2006	3	< 0.2	< 0.02	< 0.02		< 0.005	< 0.01	< 0.02	0.06	< 0.0001				29	0.30	0.011	11	< 2	1
5/15/2007 8/15/2007		<0.02	<0.02	<0.02		<0.005	<0.01	<0.02	<0.05 0.17	<0.0001			-	17	0.50	0.012	10	<2 <2	<1
10/18/2007		<0.2	< 0.02	<0.02		<0.005	<0.01	<0,02	0.13	<0.0001				40	0.50	0.015	13	<2	3
8/20/2008	3	<0.02	<0.02	<0.02		<0.005	<0.01	<0.02	< 0.05 < 0.05	<0.0001				28	0.40	0.006	16	<2 <2	<1
10/24/2008		<0.02	<0.02	<0.02		<0.005	<0.01	<0,02	0.03	<0.0001				26	0.30	0.030	10	<2	1
5/19/2009 8/18/2009		<0.02	< 0.02	<0.02		<0.005	<0.01	< 0.02	0.34 ≺0.05	< 0.0001			-	26	0.70	0.044	21	<2 <2	10 <1
10/22/2009		<0.02	<0.02	<0.02		<0.005	<0.01	<0.02	0.05	<0.0001				25	0.30	0.003	12	×2	6
5/18/2010 8/25/2010		<0.2	<0.02	<0.02		< 0.005	<0.01	< 0.02	0.03	<0.0001		-		24	0.40	<0,002 0,004	13	<2	2 2
10/21/2010		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	0.05	<0.0001				22	0.40	0.005	<4	<2	3
5/31/2011 8/24/2011		<0.2	<0.02	< 0.02		< 0.005	<0.01	<0.02	0.03	< 0.0001	-			30	0.40	0.008	15 24	<2 <2	12
10/25/2011		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	0.03	<0.0001				24	0.30	0.003	13	<2	<1
5/18/2012 8/30/2012		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	<0.02 0.04	<0.0001				28	0.39	0.011	12	<2	<1 7
10/23/2012	2	<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	<0.02	<0.0001				40	0.34	< 0.004	25	<2	15
5/24/2013 8/29/2013	3	<0.2	<0.02	0.006	-	< 0.005	<0.01	<0.02	0.06 <0.02	<0.0001				42	0.97 0.38	0.009	13	<2 <2	5
10/17/2013 5/23/2014		<0.2	<0.02	0.007		< 0.005	<0.01	<0.02	0.14	<0.0001				48	0.59	0.023 <0.002	31	<2 <2	16
8/21/2014		<0.2	<0.02	0.006		<0.005	<0.01	<0,02	0.03	<0.0001				34	0.34	0.002	12	<2	160
10/9/2014		<0.2	<0.02	0.011		<0.005	<0.01	<0.02	0.37	<0.0001				44	0.77	0.019	8.7 6.9	<2 <2	21
5/21/2015 8/25/2015	5	<0.2	<0.02	0.006		<0.003	<0.01	<0.02	0.04	<0.0001				46	0.22	0.014	13	<2	2
10/20/2015		<0.2	<0.02	0.006		<0.005	<0.01	< 0.02	0.05	<0.001				16	0.18	0.011	4.2	<2	<1 <4
5/10/2016 9/8/2016		0.0001	<0.05	0.006	3.83	<0.00001	<0.001	0.0007	0.04	<0.00001	0.067	1.2	0.002	24	0.23	0.004	<10 28	<6	14
11/1/2016	3	0.0002	<0.05	0.007		<0.00001	<0.001	0.0005	0.08	<0.00001				26	0.30	0,012	22	<2 <3	<4 <4
5/17/2017 6/29/2017		< 0.0002	<0.02	<0.010	3.7	<0.00002	<0.001	0.0008	<0.06	<0.000002	0.57	1.1	< 0.004	<10	0.21	0.005	12 8.4	NA.	<4
10/24/2017		0.0003	<0.02	<0.010	4.3	<0.00002	<0.001	0.0041	<0.06	<0.000002	0.69	1.3	< 0.004	18	0.26	0.010	13	13.0	29.3
	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	Unlonized NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -	neter -	0.00	0.003	0.02		1000	W. S. (1971 -		6.5 - 8.5	-		NH3-N 0.02	1000		0.001		Field pH	Field T	Field Cond
PWQO - Units - 5/26/2004		mg/L	0.003 mg/L	0.02 mg/L	mg/L <0.5	mg/L < 0.2	mg/L <0.2	mg/L 3.1	6.5 - 8.5 n/a 7.25	mg/L 20	mg/L < 0.03	NH3-N	mg/L	mg/L 37	0.001 mg/L < 0.001	mg/L	Field pH	11.0	Field Cond
PWQO - Units - 5/26/2004 8/19/2004		0.00	0.003 mg/L < 0.0005	0.02 mg/L 0.021	mg/L <0.5 < 0.5	mg/L < 0.2 < 0.2	mg/L <0.2 < 0.2	mg/L 3.1 3.1	6.5 - 8.5 n/a 7.25 7.26	mg/L 20 16	mg/L < 0.03 NA	NH3-N 0.02 mg/L <0.0003	1000	mg/L 37 36	0.001 mg/L < 0.001 < 0.001	mg/L 6 8	5.70	11.0 17.0	40
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011		mg/L	0.003 mg/L < 0.0005 < 0.0005 < 0.0002	0.02 mg/L 0.021 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.2	mg/L <0.2 < 0.2 < 0.2 < 0.2	mg/L 3.1 3.1 2.9 10.0	6.5 - 8.5 rVa 7.25 7.26 7.18 7.44	mg/L 20 16 14 13	mg/L < 0.03 NA < 0.03 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0003	1000	mg/L 37 36 39 35	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9	5.70 6.60 7.20	11.0 17.0 10.0 23.7	40 30 30
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0002 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3	mg/L <0.2 < 0.2 < 0.2 < 0.2 1.700	mg/L 3.1 3.1 2.9 10.0 10.8	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41	mg/L 20 16 14 13	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9	5.70 6.60 7.20 4.90	11.0 17.0 10.0 23.7 23.7	40 30 30 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 10/21/2005 5/16/2006		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10	mg/L 20 16 14 13 13 14 14	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12	5.70 6.60 7.20 4.90 4.10 7.90	11.0 17.0 10.0 23.7 23.7 7.8 14.3	40 30 30
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0,7 < 1 2 < 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40	mg/L 20 16 14 13 13 14 14 14	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19	5.70 6.60 7.20 4.90 4.10 7.90 7.76	11.0 17.0 10.0 23.7 23.7 7.8 14.3	40 30 30 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 10/21/2005 5/16/2008 8/29/2006 5/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80	mg/L 20 16 14 13 13 14 14 14 15	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2	40 30 30 20 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 5/16/2007 8/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 < 1 < 1 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 1.700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30	mg/L 20 16 14 13 13 14 14 14 15 17	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.96 7.55 8.32	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16	40 30 30 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 5/15/2007 10/17/2006 5/15/2007 5/15/2007 5/21/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 < 1 < 1 < 2 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0 4.0 6.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.40 7.40 6.80 7.30 7.00	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 13	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55 8.32 7.7	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.8	40 30 30 20 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 8/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 1 <1 <1 <2 <1 2 <1 2 <1 2 <1 2 2 4 4 5 5 5 7 7 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0 4.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00	mg/L 20 16 14 13 13 14 14 14 15 17 13 13	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55 8.32 7.7	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2	40 30 30 20 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 10/14/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 6/15/2007 5/20/2008 8/20/2008 10/24/2008 10/24/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 < 1 < 1 2 < 1 2 < 1 6	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.1 / 700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 4 1 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 7.40 7.40 7.30 7.00 7.	mg/L 20 16 14 13 13 14 14 15 17 13 19 13 13 10	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 60	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13	5.70 6.60 7.20 4.90 4.10 7.96 7.95 7.55 8.32 7.7 7.43 7.89 8.84	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3	40 30 30 20 20 20 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 5/16/2008 8/29/2006 6/15/2007 10/17/2008 8/15/2007 10/18/2007 6/15/2007 10/18/2007 10/18/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 1 1 1 1 1 < 1 < 1 2 < 1 2 < 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 4.0 6.0 3.0 4.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 7.40 6.80	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 13 13	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/l. 37 36 39 35 36 34 38 39 40 41 36 41 40	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 8.32 7.7 7.43 7.82 7.95	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3	40 30 30 20 20 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 6/15/2007 10/18/2007 5/15/2007 10/24/2008 8/29/2008 8/19/2009 8/19/2009 6/19/2009 6/19/2009 6/19/2009 6/19/2009		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 1 2 2 < 1 2 1 6 6 1 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 <	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1,700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 4.0 5.0 3.0 5.0 5.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.41 7.36 7.10 7.40 7.40 7.40 7.40 7.00 7.	mg/L 20 16 14 13 13 14 14 15 17 13 13 13 13 15 16 17 17 13 13 13 15 15 15 16 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 < 0.05 <	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 19 11 14	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.95 8.32 7.7 7.43 7.82 7.91 8.92 8.37	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 48 20.8 3.6	40 30 30 20 20 20 44 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 5/16/2008 8/29/2006 6/15/2007 10/17/2008 8/29/2006 8/29/2008 8/29/2008 8/29/2008 8/15/2007 10/18/2007 5/19/2009 8/19/2009 10/24/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 <0.01 <0.01	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 1 < 1 < 1 < 1 2 < 1 2 < 1 6 1 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 3.0 4.0 6.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.41 7.36 7.10 7.40 7.40 7.40 7.80 7.90 7.90 7.90 7.90 7.90 8.80 6.80 6.30 8.10	mg/L 20 16 14 13 13 14 14 14 15 17 13 19 13 10 15 15 15	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 41 40 60 36 46	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 13 12 13 11 13	5.70 6.60 7.20 4.90 4.10 7.96 7.96 7.55 8.32 7.7 7.42 7.95 8.84 7.91 8.92	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.6	40 30 30 20 20 20 44 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 10/17/2006 5/15/2007 10/18/2007 5/15/2007 10/18/2009 8/20/2008 8/20/2008 6/19/2009 8/18/2009 10/22/2008 6/18/2009 10/22/2008 5/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 < 1 2 < 1 2 < 1 2 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.30 7.40 7.40 7.30 7.00 7.40 6.80 7.30 7.00 7.40 8.10 7.10	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 19 13 10 15 15 10 12 13 11	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 40 60 36 46 36 36 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 14 8 11 11	5.70 6.60 7.20 4.90 7.96 7.96 7.95 8.32 7.7 7.42 7.95 8.84 7.91 8.92 8.97 7.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 40 20.8 3.6 16.2 16.8 8.3 13.7	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 10/21/2005 5/16/2008 8/29/2006 6/15/2007 6/15/2007 6/15/2007 6/15/2007 6/15/2007 6/15/2009 8/20/2008 8/20/2008 8/19/2009 6/19/2009 10/24/2008 6/19/2009 10/22/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 <0.5 0.7 <1 2 <1 1 1 1 <1 <1 2 1 6 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 4.0 6.0 3.0 5.0 5.0 3.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.30 7.40 6.80 7.30 7.0	mg/L 20 16 14 13 13 13 14 14 15 17 13 13 19 13 13 13 15 15 17 15 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 40 60 36 36 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 e).001 e)	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 19 12 13 11 14 8 11 11	5.70 6.60 7.20 4.90 7.90 7.76 7.55 8.32 7.7 7.43 7.85 8.84 7.91 8.92 8.37 7.95 8.85	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 da 20.8 3.6 16.2	40 30 30 20 20 20 44 44 30 54 38 42 32
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 5/19/2008 8/18/2009 10/24/2008 5/19/2008 6/18/2007 10/21/2010 10/21/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/l 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 < 0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 6.0 4.0 5.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.28 7.18 7.44 7.41 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 7.40 6.80 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.00 7.	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 15 10 12 13 11 12 13 12	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 46 37 37 37 37 35 38	0.001 mg/L < 0.001 c 0	mg/L 6 8 9 9 16 12 19 11 16 6 6 3 13 9 13 12 13 11 19 14 8 11 10 9 9	5.70 6.60 7.20 4.10 7.90 7.76 8.32 7.7 7.43 7.95 8.84 7.91 8.92 7.97 8.93 7.97 8.93 7.96 8.93 7.97 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.95 8.94 7.95 8	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 via 20.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30 36 90 43
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 6/15/2007 10/18/2007 10/24/2008 8/29/2008 8/19/2009 8/19/2009 8/18/2009 10/22/2008 6/19/2009 6/18/2010 8/25/2010 10/21/2010 8/31/2011 8/24/2011 8/24/2011		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 co.005 co.005 co.005 co.005 co.005 co.005 co.005 co.001 co.01	mg/L <0.5 < 0.5 0.7 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 4.0 3.0 4.0 5.0 3.0 4.0 3.0 3.0 3.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.90 7.	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 14 8 8 11 11 9 9	5.70 6.60 7.20 4.90 4.10 7.96 7.96 7.98 7.55 8.32 7.7 7.43 7.82 7.91 8.92 8.97 7.91 8.92 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 0/a 20.8 3.6 16.2 16.8 3.7 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30 30 90
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 6/19/2008 8/20/2008 10/24/2008 6/19/2008 10/24/2008 6/19/2008 10/24/2008 6/19/2008 10/24/2011 6/19/2008 6/19/2008 10/24/2011 6/19/2008 6/1		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.01 0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <.1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.0	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 10 12 13 11 12 13 12 11 12	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 46 37 37 37 37 37 37 38 38 37	0.001 mg/L (0.001 mg/L (0.001 c) (0.	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 11 19 12 14 8 11 10 9 10 10 12	5.70 6.60 7.20 4.90 7.90 7.79 7.95 8.32 7.7 7.43 7.95 8.89 7.91 8.92 7.97 8.92 7.97 8.92 7.97 8.92 8.93 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.97 8.32 8.33 8.34 8.35 8.36 8.36 8.36 8.36 8.36 8.36 8.36 8.36 8.36 8.37 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 04a 20.8 3.8 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9 10.9	30 30 20 20 20 44 44 38 42 32 65 30 36 90 43 75 38
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 10/27/2006 5/15/2007 10/18/2007 5/15/2007 10/18/2007 5/15/2007 10/24/2008 8/20/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 5/18/2010 8/28/2011 10/22/2010 8/28/2011 10/22/2010 8/28/2011 10/22/2010 8/28/2011 8/28/2011 8/28/2011 8/28/2011 8/28/2011 8/28/2011		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 < 1 < 1 2 < 1 6 1 < 1 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 < 1 3.0 3.0 4.0 6.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.00 7.40 6.80 6.40 8.10 7.10 7.40 6.80 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 11 12	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 41 39 41 40 60 36 45 36 47 37 37 37 37 38 38 38 38 38 39 39 39 39 39 39 40 40 40 40 40 40 40 40 40 40 40 40 40	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 11 9 12 14 8 11 10 9 10	5.70 6.60 7.20 4.90 7.90 7.76 7.98 7.55 8.32 7.7 7.43 7.91 8.92 8.37 7.91 8.92 8.37 7.91 8.92 8.37 7.96 8.32 8.37 7.96 8.32 8.37 7.96 8.37 7.96 8.32 8.37 7.96 8.37 8.39 8.37 8.39 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 6.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9	30 30 20 20 20 20 44 38 42 32 36 65 30 36 90 43 75 38
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 5/16/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 5/19/2008 8/18/2000 10/22/2008 5/19/2008 5/19/2008 10/22/2008 5/19/		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L <0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 1,700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.0	mg/L 20 16 14 13 13 14 14 14 15 17 13 19 13 10 15 15 15 10 12 13 11 12 13 12 11 12 13 11 11 12 13 12 11 11 12 13 12	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 40 60 36 46 36 37 37 37 37 38 38 38 39 37 37 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 c) (mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 13 11 10 9 10 9 10 9 8 10 12 8 11 10	5.70 6.60 7.20 4.90 7.70 4.10 7.90 7.75 8.32 7.7 7.43 7.95 8.84 7.91 8.92 8.92 8.92 8.93 7.97 8.92 8.93 7.95 8.83 7.97 8.92 8.93 7.95 8.94 8.94 8.94 8.95 7.96 8.96 8.97 8.97 8.98 8.99 8.90 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.4 20.8 8.3 15.5 16.9 20.1 7.9 17.9	40 30 30 20 20 20 20 44 44 30 54 42 32 65 30 36 90 43 75 38 38 65 38 65 38 78
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 10/17/2008 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 6/18/2009 6/18/2009 10/22/2008 5/18/2001 10/21/2011 10/21/2011 10/21/2011 5/31/2011 5/31/2011 5/31/2011 8/29/2013		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.02 mg/L 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 13 14 14 14 15 17 17 13 13 19 13 10 15 15 15 10 12 13 13 11 12 12 13 12 11 12 12 13 12	mg/L < 0.03 NA < 0.03 (0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 41 40 60 36 46 47 37 37 35 38 38 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 12 14 8 11 10 9 10 10 12 8 11	5.70 6.60 7.20 4.90 7.90 7.76 8.32 7.7 7.43 7.95 8.83 7.97 8.95 8.97 7.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 7.8 10.3 10.3 10.3 10.3 10.3 10.6 10.6 10.7 10.8 10.9	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 36 65 38
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 8/19/2009 8/18/2009 8/		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.0	mg/L c0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L	mg/L <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 3.0 4.0 5.0 3.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 14 14 15 17 13 13 19 13 10 15 15 10 12 13 13 11 12 12 12 13 13 12 11 12 12 13 13 12 11 11 12 12 13 13 14 14 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 40 60 36 46 36 37 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 10 10 9 8 10 10 9 11 11 10 9 11 11 11	5.70 6.60 7.20 4.90 7.70 7.96 7.96 7.98 8.32 7.7 7.82 7.98 8.94 7.91 8.92 8.37 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.20 8.20 8.20 8.20 8.20 8.20 8.20 8	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 10.3 10.8 20.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9 17.3 17.9	30 30 20 20 20 20 44 31 32 42 32 32 65 30 36 90 43 38 42 32 32 65 36 90 43 38 45 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48
PWQO - Units - 5/28/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 8/29/2008 10/17/2008 5/15/2007 10/18/2007 5/15/2007 10/24/2008 5/19/2008 8/18/2009 10/24/2008 5/19/2008 10/22/2008 5/19/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 5/18/2011 10/23/2012 10/23/2012 10/23/2012 10/23/2013 10/23/2013 10/23/2014 8/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	0.02 mg/l 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.10 7.10 7.40 6.80 6.30 7.10 7.	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 12 13 12 11 12 12 13 12 11 12 12 13 12 11 12 12 13 12 13 12 11 12 12 13 12 12 13 12 12 13 12 12 13 12 13 12 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 60 36 46 36 37 37 37 37 38 38 37 38 37 37 36 37	0.001 mg/L continued to the continued to	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 14 8 11 10 9 10 12 8 11 10 9 11	5.70 6.60 7.20 4.10 7.90 7.76 8.32 7.7 7.43 7.95 8.83 7.7 7.49 8.91 8.92 7.97 8.93 8.91 8.92 7.97 8.93 8.93 7.96 8.91 8.92 7.96 8.91 8.92 7.96 8.91 8.92 8.93 8.94 8.95 8.97 8.97 8.97 8.97 8.97 8.97 8.97 8.97 8.98 8.97 8.	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.4 20.8 3.6 16.8 8.3 13.7 21 6.9 20.1 7.9 17.3 20.1	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 65 38 65 38 65 38 65 38 65 38 65 38 65 38 65 38 65 65 65 65 65 65 65 65 65 65 65 65 65
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2009 8/20/2008 10/24/2008 5/19/2009 8/18/2009		mg/L 1.2 1.10	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L	mg/L	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.09 7.09 7.09 7.09 7.00 7.00 7.00 7.0	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 13 10 15 15 15 16 10 12 12 11 12 12 11 12 12 13 12 11 12 11 12 11 12 12 13 13 14 14 14 15 17 18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 40 41 39 41 40 36 41 39 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 12 14 8 11 10 9 10 10 9 8 10 10 10 10 10 10 10 10 10 10 10 10 10	5.70 6.60 7.20 4.90 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 8.87 7.91 8.92 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.3 10.3 40.8 3.6 16.2 10.3 40.8 3.6 16.2 17.8 20.8 3.7 21.8 6.3 17.8 19.5 22.3 10.3 20.8 3.6 10.2 20.8 3.6 10.2 20.8 3.6 10.2 20.8 3.6 10.9 20.8 3.6 8.3 10.9 20.1 10.9 20.9 10	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 65 38 65 38 38 65 38 38 38 38 38 38 38 38 38 38 38 38 38
PWQO - Units - 5/28/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2018 10/24/2011 10/25/2011 5/34/2013 6/29/2013		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <.1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 10 12 13 11 12 13 12 11 12 13 12 11 13 12 11 13 13 10 11 12 13 13 11 11 12 13 13 13 14 14 14 14 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 39 35 36 34 38 39 40 41 36 41 40 60 60 46 36 46 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 c) (mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 13 11 19 9 12 14 8 11 10 9 10 12 8 11 10 9 11 11 10 9	5.70 6.60 7.20 4.90 7.79 7.79 7.79 8.32 7.77 7.43 7.95 8.84 7.91 8.92 7.97 8.92 7.97 8.92 7.97 8.92 7.97 8.12 7.90 8.13 7.90 8.13 7.90 8.13 7.90 8.13 7.90 8.10	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.8 16.2 16.8 8.3 11.7 21 6.9 20.1 7.9 17.3 20.5 17.8 18.9 18.1 19.5	30 30 20 20 20 20 44 38 42 32 36 54 38 42 32 36 90 36 90 36 90 38 65 38 65 38 65 38 65 38 90 90 90 90 90 90 90 90 90 90 90 90 90
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/26/		mg/L 1.2 1.10	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/l	mg/L <0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L	mg/L <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 4.0 6.0 3.0 4.0 6.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.36 7.44 7.41 7.40 6.80 7.30 7.00 7.40 6.80 7.30 6.40 8.10 7.10 7.40 6.83 6.36 6.40 8.10 7.10 7.10 7.10 7.09 7.59 6.63 6.37 6.76 7.11 6.68 6.76 7.11 6.68 6.76 7.11 6.83 6.46 7.11 6.86 6.81 6.78 7.15 7.26 7.25 7.25 7.25 7.25 7.32	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 11 12 11 12 11 12 11 12 11 13 12 11 12 11 13 12 11 13 13 12 11 12 11 13 13 12 11 11 12 11 13 13 12 11 11 12 11 13 13 11 12 11 11 12 11 13 13 14 15 15 16 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 41 39 40 60 36 41 41 39 37 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 11 10 9 8 10 10 10 9 11 11 10 9 11 11 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1	5.70 6.60 7.20 4.90 7.70 6.70 7.90 7.76 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 8.31 7.97 8.55 8.31 7.97 8.55 8.32 8.37 7.97 8.55 8.30 8.31 7.57 8.12 8.30 8.30 7.90 8.58 8.69 7.24 8.18 8.18 7.89	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.3 10.3	30 30 30 20 20 20 20 44 38 42 32 32 65 30 36 90 43 75 38 38 65 51 38 38 65 51 38 38 38 38 38 38 38 38 38 38 38 38 38
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/16/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2001		mg/L 1.2 1.10	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L c0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 14 14 15 17 13 13 19 13 10 15 15 10 12 12 12 11 11 12 12 12 11 13 13 12 11 11 12 12 13 13 12 11 11 12 12 13 13 14 14 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 36 46 60 36 37 37 37 37 38 38 37 37 37 37 37 37 37 37 37 37 37 38	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 9 12 13 10 9 10 9 8 10 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 11 10 10 10 10 10 10 11 11 11 11	5.70 6.60 7.20 4.90 7.70 7.96 7.96 7.96 7.98 8.32 7.7 7.82 7.98 8.44 7.91 8.92 8.37 7.90 8.58 8.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 10.3 10.8 20.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9 17.9 18.9 19.5	40 30 30 30 20 20 20 44 44 30 54 38 42 32 32 65 30 36 90 43 38 65 38 65 38 36 51 38 38 42 32 32 33 36 37 38 38 38 38 38 38 38 38 38 38

Station: SW-5

Paran	neter -	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mit	TDS	TKN	Total P	COD	BOD	TSS
PWQO -		0.1	0.2	T0197		0.0001	0.1	0.005	0.3	0.0002		4	000	1 197	1 000	0.03			
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/19/2004		< 0.002	< 0.005	0.006	4.50	< 0.0001	< 0.005	0.001	0.17	< 0.0001	1.00			42	0.36	0.011	28	0.6	2
9/1/2005		< 0.001	< 0.010	0.008		< 0.0001	< 0.005	0.024	0.30	< 0.0001				58	0.40	0.019	22	< 2	6
8/29/2006		< 0.001	< 0.010	0.006		< 0.0001	0.006	0.002	0.071	< 0.0001				19	0.50	0.009	17	< 2	1
8/15/2007									0.17					37	0.60	0.016	28	< 2	<1
8/20/2008		< 0.001	< 0.01	< 0.001		< 0.0001	< 0.005	< 0.001	0.09	< 0.0001				27	0.60	0.009	24	< 2	1
8/18/2009	1.17	< 0.001	< 0.01	< 0.001		< 0.0001	< 0.005	< 0.001	0.17	< 0.0001		1		25	0.60	0.012	17	< 2	2
8/25/2010	Dry						7-7-7-7			10000									
8/24/2011	2,12,127-	<0.2	< 0.02	<0.02		< 0.005	< 0.01	≺0.02	0.27	< 0.0001				26	0.50	< 0.1	32	<2	<1
8/31/2012	the same back of the	<0.2	< 0.02	< 0.02		< 0.005	< 0.01	<0.02	0.1	< 0.0001				38	0.42	0.017	23	<2	1
8/31/2012	Duplicate	< 0.2	< 0.02	< 0.02		< 0.005	< 0.01	< 0.02	0.1	< 0.0001				56	0.63	0.022	25	<2	<1
8/29/2013		< 0.2	< 0.02	0.006		< 0.005	< 0.01	< 0.02	0.05	< 0.0001				42	0.43	0.009	22	<2	<1
8/21/2014		<0.2	< 0.02	0.007	-	< 0.005	< 0.01	<0.02	0.13	< 0.0001			1000	52	0.40	0.008	22	<2	1
8/25/2015		<0.2	<0.02	0.005		< 0.005	< 0.01	≺0.02	0.17	< 0.0001			- J	58	0.35	0.017	23	<2	<1
9/8/2016		0.0003	< 0.05	0.007	3.12	< 0.00001	< 0.001	0.001	0.223	< 0.00001	1.62	1.1	0.006	34	0,40	0.010	28	<6.0	<4
8/29/2017		0.0002	< 0.02	< 0.01	3	<0.00002	< 0.001	0.0004	0.096	0.000002	0.86	1.0	< 0.004	12	0.32	0.007	21	NA.	<4
	1.4-11	1000			1100	TO DECEMBE	Early Co.		1000	100000000	100000	Unionized	100				1000000		172 2 2 100
Paran	neter-	Na	Pb	Zn	CI-	NO2-N	NO3-N	504	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -		THE REAL PROPERTY.	0.003	0.02			100000	200	6.5 - 8.5		10000	0.02	1000	10000	0.001	1000	10000000		500000000000000000000000000000000000000
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	mg/L	ma/L	mg/L	mg/L			
8/19/2004		2.9	< 0.0005	0.021	2.8	< 0.2	< 0.2	2.2	7.14	12.0	NA	1	-	41	< 0.001	-			
9/1/2005		-	< 0.0005	0.0066	4.0	< 0.3	1.60	10.4	6.97	8.0	< 0.05	< 0.0005	-	38	< 0.001	13	5.10	21.7	30
8/29/2006			< 0.0005	0.013	5.0	< 0.01	< 0.1	1.0	7.80	14.0	< 0.05	< 0.0005		44	< 0.001	13	7.20	22.5	-
8/15/2007			< 0.0005	< 0.01	<1	< 0.01	0.200	2.0	7.00	8.0	0.05	0.00021		41	< 0.001	9	7.30	20.6	36
8/20/2008			< 0.0005	< 0.01	5.0	< 0.01	< 0.1	2.0	7.20	8.0	< 0.05	< 0.0005			< 0.001	10	7.18	26.8	
8/18/2009			< 0.0005	< 0.01	5.0	< 0.01	< 0.1	< 2.0	7.00	9.0	< 0.05	< 0.0005		40	< 0.001	8	8.75	19.8	40
8/25/2010	Dry							-	-			1			11.11				
8/24/2011			< 0.05	<0.01	4.0	< 0.01	< 0.1	<1	6.98	10.0	< 0.05	< 0.0005		41	< 0.001	9	7.42	23.2	48
8/31/2012		-	< 0.05	< 0.01	4.0	< 0.01	< 0.1	2.0	6.38	7.5	< 0.05	< 0.0005		42	< 0.001	10	7.45	22.6	132
8/31/2012	Duplicate		< 0.05	< 0.01	4.0	< 0.01	< 0.1	1.0	6.39	8.3	< 0.05	< 0.0005		41	< 0.001	10	7.45	22.6	132
8/29/2013			< 0.05	< 0.01	5.0	< 0.01	< 0.1	1.0	7.11	9.7	<0.05	< 0.0005		46	<0.001	8	7.99	24.1	87
8/21/2014			< 0.05	<0.01	5.0	< 0.05	< 0.5	2.0	6.72	7.3	< 0.05	< 0.0005		43	< 0.001	9	8.85	23.3	62
8/25/2015			< 0.05	< 0.01	4.6	< 0.05	<0.5	<1	6.34	10.0	<0.05	<0.0005		47	< 0.001	8	6.68	20.7	43
9/8/2016		3.61	< 0.05		5.6	< 0.002	< 0.02	<0.50	7.11	8.5	0.022	0,00002		45	0.0017				
8/29/2017		3,800	< 0.0002	< 0.003	5.0	<0.010	<0.010	1.5	6.9	8.5	0.038	0.00014		38	<0.002	9	6.64	22.1	52
			exceedance			-			-	now than 25% of			_		-				

Bold denotes exceedance of PWQO (1994) criteria

NA - Not Analyzed

should not be decreased by more than 25% of the natural concentration

Additional Locations

Monitor	Parameter -	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	К	Mg	Mn	TDS	TKN	Total P	COD	BOD	TSS
	PWQO -	0.1	0.2			0.0001	0.1	0.005	0.3	0.0002	10 15					0.03			
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RW-1	4/11/2017	0,015	3.48	0.125	189	0.00002	0.0093	0.0011	0.14	< 0.00001	526	104	0.279	2560	59	1.80	340	<30	81,3
RW-2	4/11/2017	0.004	1.36	0.047	65	0.00001	0.0025	0.0011	0.17	< 0.00001	175	48	0.225	932	16	0.86	150	24	55
RW-3	10/5/2017	0.001	1.60	0.044	48	-	0.0011	< 0.0002	0.18	< 0.000002	200	37	0.059	798	2.5	0.47	150	12	59
		11000			100.01		THE RESERVE	110000	1000	77.00	00000	Unionized	1000	1000	10000		100000	P200001	No. of Paris
Monitor	Parameter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
	PWQO -	THE SECT	0,003	0.02					6.5 - B.5	100		0.02	100		0.001		The same of		100000000000000000000000000000000000000
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		Later and the same of the same	
RW-1	4/11/2017	182	< 0.0002	0.0053	180	< 0.22	< 0.16	23.0	7.99	2070	70	1.25		4170	0.016				
RW-2	4/11/2017	66	< 0.0002	0.0052	62	0.68	0.09	9.3	8.22	768	14	0.42		1650	0.008				
RW-3	10/5/2017	69	< 0.0002	< 0.003	69	0.039	0.410	10.0	8.31	517	0.13	0.005	39.0	1230					

Bold denotes exceedance of PWQO (1994) criter

NA - Not Analyzed

* should not be decreased by more than 25% of the natural concentration

Monitor	ODWQS -	QA/QC	0.025	B 5	Ba 1	Ca	0.005	0.05	Cu 1	Fe 0.3	0.001	K	Mg	Mn
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	0,001 mg/L	mg/L	mg/L	0.05 mg/L
74	6/1/2001		mgaz	0.020	0.337	10.7	ingre	mg/L	mgr	1.61	riigit	3.9	3.9	mg/L
	8/1/2001		< 0.001	0.330	0,260	11.1	< 0.001	0.004	0.031	2.45	< 0.001	3.9	5.5	0.168
	5/7/2002		1	< 0.001	0.022	10.6				0.21			3,2	
	8/6/2002		0.002	0.008	0.138	17.6	< 0.001	0.013	0.087	7.58	< 0.001	7.2	6.0	0.282
	5/21/2003			< 0.01	0.023	11.7	(3-(39-4)	-		0.10			3.3	
	8/6/2003		0.022	0.006	0.022	11.0	< 0.0001	< 0.005	< 0.0005	0.05	<0.00005	3.1	3.3	
	5/26/2004		- 0.000	<0.01	0.020	11.2				0.09	- Page		4.0	10000
	8/24/2004 8/3/2005		< 0.002	0.008	0.022	11.7	< 0.0001	< 0.005	0.0017	0.16	0.0001	3.2	3.2	0.198
	9/1/2005		< 0.001	< 0.016	0.026	11.0	< 0.0001	< 0.005	0.0043	0.06 < 0.05	< 0.0004	0.4	3.2	0.045
	5/16/2006		< 0.001	< 0.02	0.02	11.4	< 0.0001	~ 0.005	0.0043	< 0.03	< 0.0001	3.4	3.0	0.045
	8/29/2006			< 0.02	0.02	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.3	3.2	-
	5/15/2007	-		< 0.02	< 0.02	10.2			0.000	0.03	0.0001	0.0	2.9	
	8/14/2007		< 0.001	< 0.01	0.2	12.0	< 0.0001	< 0.005	0.003	< 0.05	0.0001	3.6	3.5	0.21
	5/21/2008			< 0.01	< 0.02	11.1	1 1 1 1			< 0.05		1	3.0	
	8/19/2008		< 0.001	< 0.01	0.019	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.2	3.7	0.2
	5/19/2009		- 0.004	<0.02	<0.02	9.0	. 0 0001		0.001	<0.05			2.5	
	8/18/2009 5/18/2010		< 0.001	<0.02	0.02	11.0	< 0.0001	< 0.005	0.004	<0.05		3.2	3.0	0.19
	8/24/2010	-	<0.001	<0.02 <0.01	<0.02 0.022	10.7	<0.0001	<0.005	<0.001	<0.01	<0.0001	2.4	3.0	0.22
	5/31/2011		40,001	<0.01	<0.01	11.4	<0.0001	~0.005	~0.001	<0.05	40.0001	3.4	3.0	0.23
	8/23/2011		< 0.001	<0.01	0.018	11.0	<0.0001	< 0.005	0.003	<0.1	<0.0001	3.0	3.2	0.2
	5/16/2012		1111	<0.02	<0.02	11.9	The same	2,700		<0.02	3,0001	0.0	3.2	J.E
	8/29/2012		<0.001	<0.01	0.02	11.0	< 0.0001	< 0.005	2.8	<0.2	<0.0001	3.2	3.3	0.2
	10/5/2017		0.0003	<0.02	0.017	9.9	< 0.00002	<0.001	0.0034	0.075	<0.000002	2.9	2.9	0.18
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	DOC	Th Cor
	ODWQS -		200	0.01	5	250		10	500	6,5 - 8.5	2254/4	Level 1	5.0	1124
7/4	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	µS/cm
	6/1/2001 8/1/2001		4.8 8.1	< 0.001	0.180	2.4	< 0.10	< 0.10	7.5	7.46	45	< 0.10	2.2	116
	5/7/2002		4.3	- 0.001	0.100	6.1	~0.10	< 0.10	5.1	7.13	50	0.04	3.0	115
	8/6/2002		5.9	0.017	0.045	8.9	< 0.05	< 0.03	3.2	6.80	53	0.04	2.5	111.7
	5/21/2003		4.3		17.00	< 0.5	1 100	< 0.2	< 0.5	7.01	49	0.06	4.4	127
	8/6/2003		4.7	<0.0005	< 0.005	0.6	< 0.2	< 0.2	8.1	7.91	108	0.06	2.8	227
	5/26/2004		4.4	Factor of the Control		<0.5		< 0.2	5.6	6.93	49	< 0.03	3.6	110
	8/24/2004		4.5	0.001	< 0.005	1.0	< 0.2	0.40	5.6	6.98	50	0.08	3.9	125
	8/3/2005		4.8	+ 0 0000	0.005	<1		2.30	8.0	7.53	40	< 0.05	3.3	95
	9/1/2005 5/16/2006		4.8	< 0.0005	0.005	2.0	< 0.3	0.50	7.0 6	7.45	53	< 0.05	3.2	107
	8/29/2006		4.2	< 0.0005	< 0.005	1.0	< 0.01	0.2	6	7.3	55 53	< 0.01	3.7	113
	5/15/2007		4.3	- 0.0000	- 0.000	2.0	30.01	< 0.1	6	7	49	< 0.05	4.8	111
	8/14/2007		4.8	< 0.0005	< 0.005	< 1	< 0.01	0.1	6	7.1	52	< 0.05	3.6	110
	5/21/2008		3.9			< 1		< 0.1	5	7.7	50	< 0.05	3.1	109
	8/19/2008		4.7	< 0.0005	< 0.005	<1	< 0.01	< 0.1	7	7.6	51	< 0.05	3.3	110
	5/19/2009		3.4			<1		<0.1	4	6.6	42	< 0.05	2.8	94
	8/18/2009		4	< 0.0005	< 0.005	<1	< 0.01	<0.1	5	7	53	<0.05	3.6	112
	5/18/2010		4	+0.000E	40.00F	1.0	-0.04	<0.1	5	7.3	49	<0.05	3.3	109
	8/24/2010 5/31/2011		3.9	<0.0005	<0.005	2	<0.01	<0.1	5	7.1	51	<0.05	3.8	116
	8/23/2011	_	4.4	<0.0005	0.006	1	<0.01	<0.1	9 7	7.14 6.74	46 48	<0.05 <0.05	3.3	101
	5/16/2012		4.2	40.0000	0.000	<1.0	40.01	<0.1	7	6.99	50	<0.05	3.6	110
	8/29/2012		4.6	<0.0005	< 0.005	<1.0	< 0.01	<0.1	5	6.86	53	<0.05	3.0	110
	10/5/2017		6.5	0.00046	< 0.003	<0.5	< 0.033	0.92	5,4	7.53	53.8	< 0.015	3.3	110
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond			
	ODWQS -		500		1					6.5 - 8.5	3.7			
7/4	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
7/4	6/1/2001 8/1/2001		185	0.40	0.07	25	2	- 24	<0.004	7.0	60			
	5/7/2002		730	0.46	0.07	36 195	<1	< 1 13.47	< 0.001	7.2	50 70			
	8/6/2002		146	0.07		< 20	<1	4.55	< 0.001	7.1	100			
	5/21/2003		180	5.07		14	< 0.5	4.00	- 0.001	7.4	90			
	8/6/2003		132	0.18	< 0.05	9	< 0.5	3640	< 0.001	7.3	90			
	5/26/2004		136			11				6.9	20			
	8/24/2004		140	0.32	1.14	13	1-4-1	Section 1	< 0.001	6.2	NA			
	8/3/2005		410			22	< 3	2400	1100	3.3	90			
	9/1/2005		247	0.70	2.99	15		100	< 0.001	4.4	90			
	5/16/2006 8/29/2006	-	68	0.5	10	13	<2	1100	× 0.004	7.0				
	5/15/2007	_	82 72	0.5	1.6	13	<2	_	< 0.001	6.6	-			
	8/14/2007		69	<1	3.4	19	<2		< 0.001	7.1	105			
	5/21/2008		68		5,4	11	<2	1500	- 0.001	7.5	105			
	8/19/2008		75	1.2	1.3	8	<2	0.00	< 0.001	7.4				
	5/19/2009		60	12.0		16	1 1 1		71775	7.5	100			
	8/18/2009		72	1.6	2.2	34	1		< 0.001	7.6	152			
	5/18/2010		74			13				7.2	85			
	8/24/2010		74	1.6	0.79	19			<0.001	11.0				
	5/31/2011		66	0.0	0.00	18		-	10.00	6.4	118			
	8/23/2011		100	0.6	0.50	11			<0.001	6.3	124			
	5/16/2012 8/29/2012	-	90 158	0.59	1.10	17			<0.004	7.2	112			
	10/5/2017		160	0.89	0.54	17	<3	3890	<0.001	6.9	156			
				V-91	W. W.	1.1	0	0000						

Monitor	ODWQS -	A/QC As 0.025	B 5	Ba	Ca	Cd	Cr	Cu	Fe	Hg
	Units -	0.025 mg/L	mg/L	mg/L	mg/L	0.005 mg/L	0.05 mg/L	matt	0.3	0.001
21/7	6/1/2001	ligic	0.062	0.297	25.7	mg/L	mg/L	mg/L	mg/L 0.27	mg/L
	8/1/2001	< 0.001	0.014	0.029	27.5	< 0.001	< 0.001	< 0.001	0.45	< 0.001
	8/6/2002	0.002	0.023	0.054	35.8	< 0.001	0.003	0.0150	1.88	< 0.001
	5/21/2003		0.020	0.043	28.9		0.000	0.0100	0.03	10.001
	8/6/2003	< 0.002	0.019	0.042	29.4	< 0.0001	< 0.005	< 0.0005	< 0.03	< 0.00008
	5/26/2004		0.020	0.032	26.0	11-5-05-7-			0.04	
	8/24/2004	< 0.002	0.021	0.035	30.1	< 0.0001	< 0.005	< 0.0005	< 0.03	< 0.0001
	8/3/2005		0.022	0.034	27.0				< 0.05	
	9/1/2005	< 0.001	0.022	0.034	33.0	< 0.0001	< 0.005	0.0016	< 0.05	< 0.0001
	5/16/2006		< 0.02	0.03	26.3				< 0.02	
	8/29/2006	< 0.001	0.017	0.034	30.0	< 0.0001	< 0.005	< 0.001	< 0.05	< 0.0001
	5/15/2007 14/08/2007	0.004	< 0.02	0.04	28.0	- 0 0004		0.001	< 0.02	
	5/21/2008	0.001	0.018	0.037	33.0	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001
	8/19/2008	< 0.001	0.021	0.03	26.8 29.0	< 0.0004	< 0.000	- 0.004	< 0.02	- 0.000
	5/19/2009	< 0.001	<0.02	0.034	26.4	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.000
	8/18/2009	< 0.001	0.019	0.039	30.0	< 0.0001	< 0.005	0.001	<0.02	
	5/18/2010	30.001	< 0.02	0.05	28.6	< 0.0001	< 0.005	0.001	<0.02	
	8/24/2010 No R	ecovery	10.02	0.00	20.0				<0.02	-
	5/31/2011		<0.02	0.04	29.2				<0.02	
	8/23/2011	< 0.001	0.015	0.041	31.0	<0.0001	<0.005	<0.001	<0.1	<0.0001
	5/16/2012		<0.02	0.04	31,2	2.3001	0.000	.0.001	<0.02	-5,0001
	8/29/2012	<0.001	0.022	0.039	31.0	<0.0001	< 0.005	<0.001	<0.1	< 0.0001
	10/5/2017	0.00058	0.021	0.045	30.0	<0.00002	< 0.001	0.00039	<0.06	<0.00000
Monitor		A/QC Na	Pb	Zn	CI-	NO2-N	NO3-N	804	pH	alk42
	ODWQS -	200	0.01	5	250		10	500	6.5 - 8.5	
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L
1/7	6/1/2001	10.3			2.7		< 0.10	8.3	8.05	110
	8/1/2001	7.8	< 0.001	0.0050		< 0.10	< 0.10		7.89	100
	8/6/2002	7.7	0.0020	0.0290	< 0.5	< 0.05	< 0.03	3.4	8.12	118
	5/21/2003	6.5			28,9	100	< 0.2	7.6	7.90	106
	8/6/2003	7,2	< 0.0005	< 0.005	1.0	< 0.2	< 0.2	8.1	7.91	108
	5/26/2004 8/24/2004	5.5	0.0000	0.0050	0.5		0.20	6.6	7.95	93
	8/3/2005	6.4	0.0006	0.0050	0.6	< 0.2	< 0.2	6.9	8.00	111
	9/1/2005	5.8 6.9	< 0.0005	0.0050	<1	400	< 0.2	9.0	8.19	110
	5/16/2006	6.1	< 0.0005	0.0058	<1	< 0.3	< 0.2	6.0	8.03	120
	8/29/2006	6.4	< 0.0005	< 0.005	6	< 0.01	< 0.1	6.0	8.20	121
	5/15/2007	6.3	< 0.0003	< 0.003	1	< 0.01	< 0.1	7.0	8.10 8.00	123
	8/14/2007	7	-		2	< 0.01	< 0.1	7.0	8.00	113 118
	5/21/2008	5.8			4	-0.01	< 0.1	6.0	8.00	113
	8/19/2008	6.8	< 0.0005	< 0.005	2	< 0.01	< 0.1	6.0	8.20	115
	5/19/2009	5.9		0.000	1	0.01	<0.1	5.0	7.10	83
	8/18/2009	6.2	< 0.0005	< 0.005	1	0.02	<0.1	7.0	7.80	119
	5/18/2010	6.1	-2.010		2	- 7.5	<0.1	9.0	8.10	111
	8/24/2010 No Re	ecovery			1000				0.110	
	5/31/2011	5.8		and the en	_1_		<0.1	5.0	8.02	103
	8/23/2011	6.3	<0.0005	< 0.005	2	<0.01	<0.1	7.0	8.02	114
	5/16/2012	6.1			<1	7.2	<0.1	6.0	7.84	110
	8/29/2012	6.3	<0.0005	<0.005	1	<0.01	<0.1	6.0	7.76	120
	10/5/2017	6.5	<0.0002	< 0.003	0.56	< 0.033	1.8	7.1	8.08	98.9
Monitor		VQC Th TDS	TKN	Total P	COD	BOD	TSS	PhenoIs	Field pH	Field Cor
	ODWQS -	500	and A	4.5	5				6.5 - 8.5	17 EVE
1/7	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm
""	6/1/2001 8/1/2001	149 230	0.26	0.04	< 20	<1	45.00	× 0.001		
	8/6/2002	180	< 0.05	0.01	22 56	1	15.00	< 0.001	0.0	100
	5/21/2003	192	~ 0.05			CONTRACTOR OF THE PARTY OF THE	6.52	< 0.001	8.3	180
	8/6/2003	160	0.19	< 0.05	9	< 0.5 < 0.5	8030		7.9	170
	5/26/2004	156	0.10	~ 0.00	9	~ 0.0	0030		7.7 6.9	160
	8/24/2004	142	0.20	3.54	12			< 0.001	6.7	40 NA
	8/3/2005	350	2.80	5.51	64	< 3	410	- 0.001	3.9	170
	9/1/2005	220	0.80	7.50	36		110	< 0.001	6.1	200
- 1	5/16/2006	154	72		< 4	< 2	8000	2.007	8.2	2.00
	8/29/2006	147	0.300	2.5	6	< 2		< 0.001	8.23	
- 1	5/15/2007	158			18	< 2		41-41	8.35	-
- 11	8/14/2007	151	0.700	4	17	< 2		< 0.001	8.11	221
	5/21/2008	148		1000	7	< 2	4600	100000	8.39	
	8/19/2008	160	1.400	1.3	13	< 2	D. C. W.	< 0.001	8.39	
	5/19/2009	140			28				7.91	230
	8/18/2009	155	4.000	12	76				8.19	222
	5/18/2010	162	E047 -	1	85					
	8/24/2010 No Re									10 10 1
	5/31/2011	124	1.14		20			LACT FI	6.8	246
	8/23/2011	156	0.600	0.54	<4			<0.001	6.25	245
					4.0				W 45.65	000
	5/16/2012	122			19				7.53	229
	5/16/2012 8/29/2012 10/5/2017	122 160 312	0.820 0.41	0.37 6.90	<8.0 39	<3	28500	<0.001	7.53	260

K

mg/L

2.80

4.02

3.10

2.90

3.50

3.20

3.70

3.20

3.20

3.30

3.30

3.40

NH3-N

mg/L < 0.10

< 0.10

< 0.03

0.06

0.03

0.07

0.11

0.07 < 0.05

0.09

< 0.05

0.08

< 0.05

< 0.05 0.06 0.14

0.16

0.09

<0.05 <0.05

<0.05 0.06 Mg

mg/L

7.2 5.9

9.1

6.5

7.0 6.1

6.5

6.0

5.6

6.8

7.3 5.6 7.4 5.6

6.8 6.1 6.4 7.2

6.6

6.6

DOC

5.0 mg/L 4.5

2.2

2.3

2,4

2.1

3.1

2.5

2.4 2.4 2.4

1.9 2.6 2.3 2.7 2.1

2.4

2.4 2.5

3.5 1.8 Mn 0.05

mg/L

0.071

0.103

0.056

0.069

0.055

0.046

0.042

0.028

0.040

Th Cond

µS/cm 230

210 220

227

227

187

223

208

217 230

223

229

217 228 230

206 230

234

211

231 230

230 204

Bold denotes exceedance of ODWQS (2006) criteria

NA - Not Analyzed



Environmental Assessments & Approvals

January 9, 2018 AEC 18-020

Ministry of Environment, Conservation & Parks Northern Region Kenora Area Office 808 Robertson Street Kenora, ON P9N 1X9

Attention: Cathy Debney – Senior Environmental Officer

Re: Jones Road Landfill Site -- 2018 Trigger Mechanism Exceedance Monitoring Summary

Dear Cathy:

The purpose of this correspondence is to provide the Ministry of Environment, Conservation & Parks (MECP) District Office an update on the monitoring completed as part of the 2017 Trigger Mechanism Exceedances for boron in the surface water at the Jones Road landfill Site. The plan which was first outlined in a June 2017 letter notification letter proposed a phased approach which included collection of additional samples from both surface and ground water locations in 2017 to assess the mechanism in which the elevated boron concentrations were migrating downstream within the established Contaminant Attenuation Zone (CAZ). Subsequent revisions and recommendations to the program were made in the 2017 Trigger Mechanism Exceedance Monitoring Summary submitted April, 2018. The summary of the work completed in 2018 is summarized in the following sections.

Continued (2018) Surface Water Monitoring of Additional Locations

Surface water monitoring was continued in 2018 at additional surface water locations in the forested wetland area between the waste mound and SW-1. A total of three locations were targeted at various distances from the waste mound. As illustrated in the appended figures, RW-1 is located adjacent the MW-20, RW-2 is located adjacent to MW-2/13 and RW-3 was located between MW-20 and MW-21. It is noted that these locations were



targeted by City staff based on sufficient depth to facilitate a representative sample. There are no defined flow channels in this area and surface water migration is assumed to braided based on local subtle topographic variation.

The results, which have been appended along with updated surface water summary tables for the existing monitoring locations indicates boron concentrations were elevated at all three locations with similar concentrations to those observed in 2017.

As can be observed, the data is somewhat similar to last year with boron concentrations at all locations above 1.0 mg/L, while RW-2 indicated the most elevated values during the June12, 2018 sampling event (6.2 mg/L). This is not surprising given this location is closest to the waste mound. Other leachate indicator parameters were also observed to be more elevated at this location, including ammonia (14-79 mg/) and chloride (190-200mg/L); however, concentrations were noted to be reduced with distance from the waste mound (0.13-1.3 mg/L – ammonia & 98-110 mg/L at RW-3).

The surface water quality data collected in 2018 confirms the presence of leachate within the surface water is consistent between the waste mound and SW-1 with respect to boron concentrations, while other parameters are indicating a greater amount of attenuation in the same downstream area. This continues to illustrate along with the previous ground water data collected from MW7-4 in 2017 that the primary pathway for migration of these impacts are via overland flow. This is supported by the fact the underlying soils have limited permeability with a dominance of silt and clay.

Beyond the additional proximal surface water monitoring locations added in 2017/18, the water quality collected from routine monitoring location SW-1 has shown to be relatively consistent for the past three years, albeit elevated above the historical average concentrations for boron, while an increasing trend remains at SW-2. Given the onset of the boron elevations began at SW-1 in 2012 (appended graph), while they were not observed at SW-2 until 2016, there is likely a time lag with respect to the migration of the boron plume within the surface water such that the increasing trends at SW-2 may continue for the next few years. This time lag is also reflective in the operational mitigation strategies that have been employed by the City with the decreasing of the active working area, shifting the active area further back from the downgradient toe in a new cell area and increasing the amount of cover material at the downgradient end of the waste mound. Continued monitoring in 2019 of the regular surface water monitoring network will help to continue to assess the effectiveness with these operational changes, however, the leachate / boron contributions to the wetland feature would appear to be related to toe seeps or shallow ground water discharge in the wetland area immediately



north of the waste mound rather than from direct surface runoff from the active waste area.

Boron Compliance / Trigger Criteria Assessment

In addition to the additional surface water monitoring completed at the Site, a review of the evaluation criteria was completed. In this instance, the trigger limit for boron was based on the Provincial Water Quality Objectives (PWQO), which is routinely utilized as a reference in compliance evaluation of surface water at landfill sites in Ontario. However, given the distinct elevations in boron relative to other leachate indicator parameters at this Site as well as a number of other active landfill sites in various parts of the Province that Azimuth is involved with, the MECP Standards Branch was contacted to discuss the supporting information with respect to this parameter given its interim designation. It was communicated that given the limited toxicology dataset that was utilized during development of the PWQO criteria that the Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life (CCME, 2003) value would be more appropriate to use as it utilized a more robust toxicological dataset and was developed by the MECP. The CWQG is based on impacts to Bluegill (Lepomus macrochirus) and rainbow trout (Oncorhynchus mykiss), which are reported in Rainy River District. The CWQG value for boron for long term exposure is 1.5 mg/L and includes conservative factors to be protective of aquatic species. If this value is utilized in the surface water evaluation at the Site, SW-2 is in compliance, as the maximum concentration observed at this location to date is 0.42 mg/L, which is <30% of the CWQG criteria. Based on this alternative criteria, it is recommended that the trigger concentration for boron at SW-2 be revised from 0.2 mg/L to 1.5 mg/L to reflect the more appropriate compliance criteria, while the action level for SW-1 should be adjusted from 0.8 mg/L to 3 mg/L, which provides a more representative threshold given the elevated boron concentrations relative to all remaining leachate indicator parameters.

It is noted that an additional surface water location (RW-5) was proposed to be collected at the outlet of the wetland tributary at Morgan Lake. However, given the results discussed previously and the fact that a water quality sampling location is already in this general area (SW-5), which has not indicated any observable boron influence, the location was not formally established in 2018 and is not proposed to be targeted as part of the monitoring program in 2019. In the event that subsequent increases in boron concentrations at SW-1 are noted, then this location could be potentially targeted to better assess boron contributions to Morgan Lake, however, the current monitoring program is determined to be appropriate.



Boron Source Assessment

As indicated in the work plan for 2018, an assessment to potentially identify the specific source of boron within the waste stream was completed. It is understood that boron is potentially contained in a number of construction and demolition (C & D) wastes as both a fire retardant (wallboard) and preservative (treated wood), but the amounts and leaching potential for these materials is not well understood. As such, some common C & D wastes were assessed in 2018 for leachable boron content. The City isolated these wastes (pressure treated wood, wallboard and particle board) in separate Rubbermaid containers on site such that they were exposed to local conditions and that these containers collected the leached rainfall from these materials between spring melt and midsummer. Subsequent water samples were collected and analyzed for boron. The results, which are summarized in the following table indicate that the primary source is treated wood products, which is helpful from an operations perspective. In the event the boron concentrations continue to increase, these materials could be isolated from the remaining waste stream such that they are covered to reduce leaching or situated in an area where runoff can be more readily contained such that it is not allowed to discharge into the adjacent wetland area. Despite these potential operational changes, no formal recommendations are being made at this time as the data collected thus far the surface water locations would indicate that conditions have stabilized, while the proposed revisions to the compliance criteria would indicate that the current boron concentrations are not unacceptable at this time.

Table 1: Boron Source Concentrations

Material Source	Concentration (mg/L)
Particle Board	0.53
Wall Board / Dry Wall	0.85
Pressure Treated Wood	9.1

Further to the above noted source materials, the landfill capping material was also analyzed to assess potential boron contributions. The boron concentrations was noted to be 0.88 μ g/g, whereas the background concentration as per O.Reg. 153/04 (Table 1) is 36 μ g/g, indicating that the cover material represents an insignificant source relative to the treated wood noted above.

Aquatic Assessment (Update)

As discussed in the original action plan, it was proposed that an update to the historic aquatic assessment (Fenco MacLaren, 1997) could be completed with an updated field assessment of the water course / wetland feature that is present between the landfill and SW-2. However, given the abovementioned assessment, including proposed revisions to



the compliance criteria, completion of this assessment is no longer considered critical to the overall evaluation. If increased boron concentration trends begin to be noted at SW-1 and the proposed action / trigger concentrations are exceeded then it would be recommended that this assessment be undertaken. As the proposed compliance criteria relates to the CWQG, which has specific rationale for its threshold, including targeted aquatic species, the aquatic assessment would have a more direct relationship with this criteria.

2019 Trigger Exceedance Monitoring

Given the results collected during 2017 and 2018, there is a more refined understanding of the boron impacts at the Site and that they are the result of surface water flow from the northern end waste area into the adjacent wetland area, likely through toe seeps or shallow ground water discharge in the area. The additional proximal surface water locations have confirmed that leachate indicator parameter concentrations are more elevated adjacent to the waste mound, although significant attenuation occurs between the waste and SW-1. The boron concentrations are noted to remain more elevated through the watershed, which is likely a function solubility and lack of chemical reactivity within the natural environment relative to other more prominent indicator parameters such as ammonia or BOD.

As a result of these parameter specific (boron) elevations in the downstream section of the Site and the fact that a more appropriate compliance criteria for boron is being proposed, it is recommended that the surface water monitoring program be curtailed back to the historic program identified in the ECA and subsequent amendments, with seasonal sampling at SW-1, SW-2, SW-3, SW-4 and SW-5. However, given the recent results, it is also recommended that one of the additional trigger monitoring locations (RW-2) be added to the program with the same frequency and analytical parameters as SW-1 and SW-2 such that a better understanding of the leachate quality can be established and tracked over the operational lifespan of the Site. This will allow for earlier detection of shifting leachate contributions to the watershed such that potential operational changes can be made to mitigate any more significant leachate impacts to the wetland.



The City welcomes any feedback or comments relating to the above trigger exceedance summary.

Yours truly,

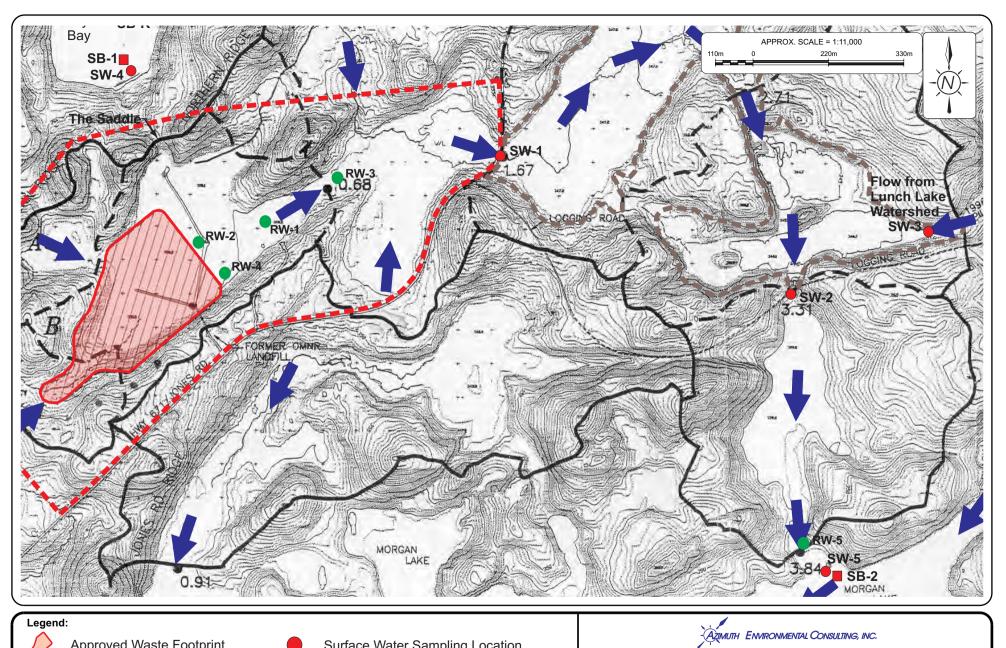
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Colin Ross, B.Sc., P.Geo.

Senior Hydrogeologist

Attach:

cc: Mukesh Pokharel – City of Kenora





Approved Waste Footprint

Approximate Property Boundary

Contaminant Attenuation Zone

Watershed Boundary



Surface Water Sampling Location



Sediment/Benthic Sampling Location



Temporary Action Plan Surface Water Sampling Location



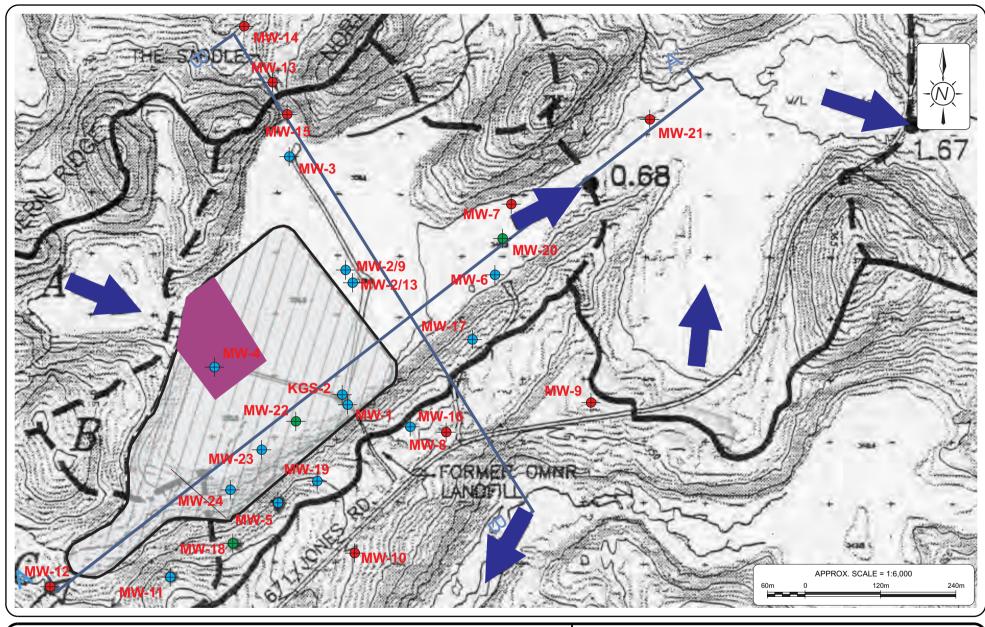
Surface Water Flow Base Drawing: Fenco MacLaren (1997), Figure S3.



	Date Issued	: February 2018
	Created By:	CMR
	Project No.	17-020
1	File Name	Figure 2 - Hydrologic Features.CDR

Hydrologic Features Jones Road Landfill Site

City of Kenora MOE Certificate of Approval No. A612018 Figure No.







Approved Waste Footprint



Ground Water Monitor (maintained)



Ground Water Monitor (removed from program)



Ground Water Monitor (decommissioned)



Watershed Boundary

Active Footprint Area

Ground Water Monitoring Network

Date Issued: Jan 2019 Jones Road Landfill Site City of Kenora

 Date Issued:
 Jan 2019
 Jones Road Landfill Site City of Kenora

 Created By:
 CMR
 City of Kenora

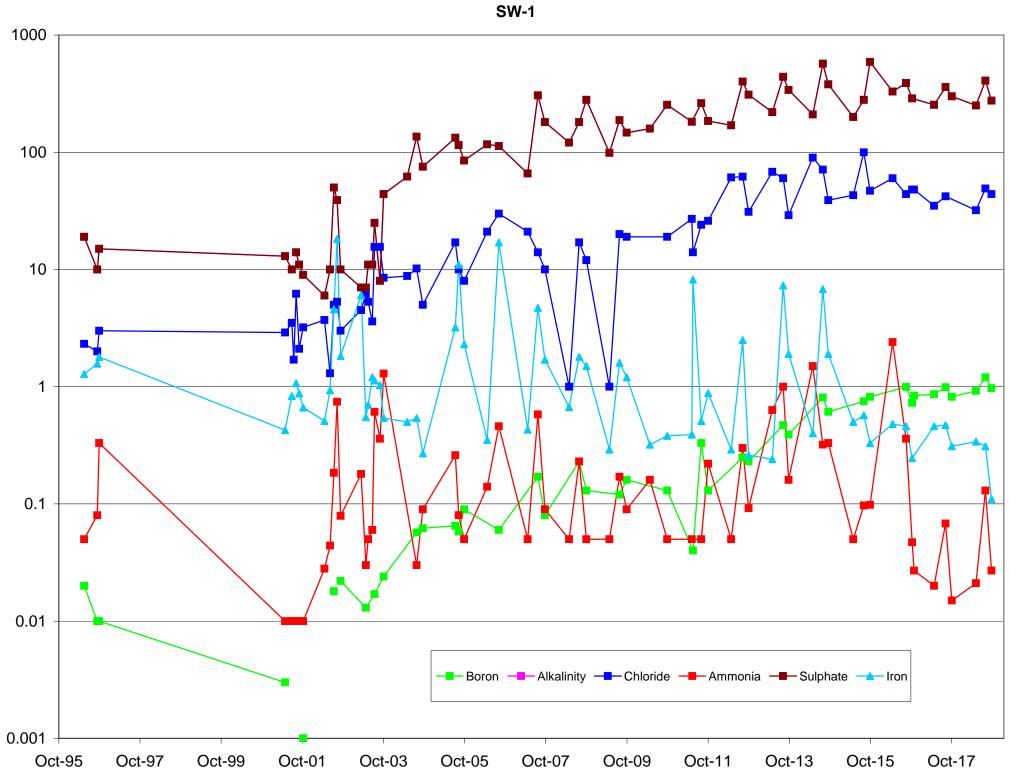
 Project No.
 18-020
 MOE Certificate of Approval No. A612018

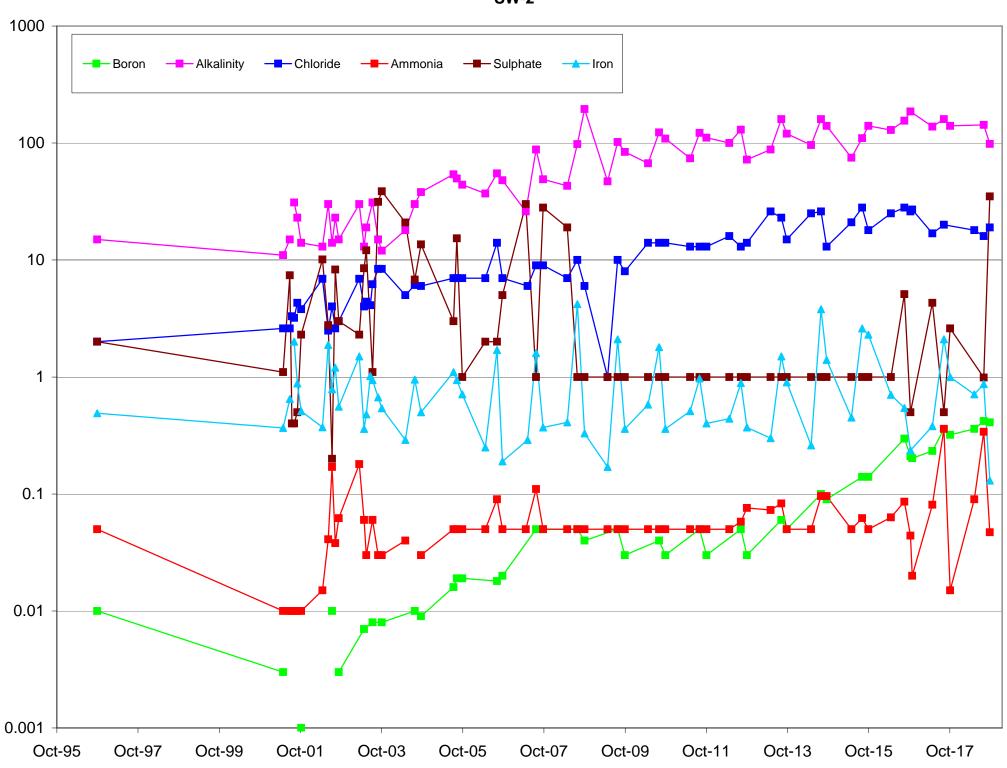
 File Name:
 Figure 4.CDR

-AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Figure No.

Base Drawing: Fenco MacLaren (1997), Figure S3.1







APPENDIX C

Annual Waste Quantities

Annual Waste Tonnage for Jones Road Landfill Site

2018

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Garbage	560.15	483.8	471.68	458.3	569.5	604.77	723.29	731.87	594.27	513.73	560.27	404.23	6676
C & D	411.88	293.12	454.17	672.54	945.5	993.34	848.56	970.04	978.05	1023.02	654.69	352.6	8598
Contaminated Waste	0	0.6	0	108.54	0	132.78	39.5	152.11	0	157.67	0	0	591
Sewere sludge	249.66	193.92	328.13	261.57	291.42	335.45	217.95	257.4	235.44	163	169.6	272.34	2976
Ash	291.07	238.09	223.09	265.83	238.92	216.68	202.48	192.48	242.9	214.54	161.19	222.47	2710
Asbestos	0	0	0.8	0.54	1.21	2.08	0.37	0.74	0.6	0.16	0.87	2.65	10
Woodchips	0.61	1.76	12.45	31.15	103.18	153.85	45.89	34.6	34.7	10.32	12.36	3.05	444

2019

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Garbage	588.15	446.14	515.46	525.5	558.3	466.95	667.98	653.19	585.06	567.25	515.02	438.98	6528
C & D	343.2	242.8	788.35	1181.53	1451.96	1140.39	987.91	1160.63	1054.29	888.11	692.23	364.86	10296
Contaminated Waste	0	0	19.98	45.54	366.48	5259.7	734.2	45.46	14.59	299.58	230	258.1	7274
Sewere sludge	177.68	212.46	217.73	233.34	349.62	202.63	292.79	216.88	190.77	208.16	233.53	193.73	2729
Ash	287.209	270.05	229.98	218.98	196.73	203.59	211.82	170.51	152.42	253.1	234.38	246.02	2675
Asbestos	0	1.74	5.475	0.92	2.78	1.56	1.04	5.25	8.82	0.75	9.58	18.24	56
Woodchips		7.7	1.13	7.07	42.74	36.06	43.05	35.46	29.96	17.76	4.35	5.74	231

2020

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Garbage	618.28	431.67	505.6	527.67	512.7	552.47	686.16	667.17	595.4	568.49	502.62	484.5	6653
C & D	336.06	291.1	656.89	566.53	881.43	864.29	1337.42	970.3	1197.79	1037.61	1075.94	698.57	9914
Contaminated Waste	0	76.1	107.4	0	45.4	1336.4	838.5	5.93	0	0	0	119.4	2529
Sewere sludge	290.73	228.99	239.78	252.29	310.82	295.3	116.93	251.98	235.1	142.23	247.4	250.58	2862
Ash	247.09	262.39	256.45	262.37	232.75	238.4	223.29	214	228.8	237.5	290.14	273.38	2967
Asbestos	5.51	0	6.74	7.29	36.57	24.87	32.76	15.4	22.62	4.03	0.64	6.93	163
Woodchips	3.42	4.42	0.48	34.12	40.09	48.96	45.09	33.35	52.53	21.67	11.99	1.08	297

All values in Tonnes



APPENDIX D

Ground Water Quality Data

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WOIIILOI	ODWQS -	<u> </u>	0.025	5	1	- Ca	0.005	0.05	1	0.3	0.001	- K	Wig	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1/17	2010-05-18					29						3	6	
	2010-08-25 2011-05-31	Limited Sample no sample												0.044
	2011-03-31	no sample	<0.001	<0.01	0.023	32	<0.0001	<0.005	<0.001	<0.1		4	7	0.034
	2012-05-16		10.001	0.11	0.04	96	-0.0001	10.000	10.001	9.3			17	0.001
	2012-08-29		<0.001	0.69	0.03	130	<0.0001	<0.005	<0.001	42	<0.0001	8	27	4.1
	2013-05-22			0.4	0.0	162				68			33	
	2013-08-27		<0.2	0.6	0.025	187	<0.005	<0.01	<0.02	74	<0.0001	10	40	2.74
	2014-05-20		<0.001	0.11	0.11 0.042	290 55	<0.001	<0.005	<0.001	58 14	<0.0001	6	58 12	0.61
	2014-06-19		<0.001	0.11	0.042	110	<0.001	<0.005	<0.001	31	<0.0001	0	25	0.61
	2015-08-18	no sample		0.07	0.000	110				<u> </u>				
	2016-05-10	no sample												
	2016-08-31		<0.0001	0.05	0.0228	40	<0.00001	<0.001	<0.0002	<0.005	<0.00001	3	9	0.0718
	2017-05-16		0.00183	<0.050	0.0308	38	<0.00001	0.0016	0.00351	4.68	<0.00001	3	9	0.0997
	2017-08-29 2018-05-28		0.0019 <0.0002	<0.020 0.074	0.03 0.064	38 98	<0.00002 <0.00002	<0.001	<0.0002	0.38 < 0.06	<0.000001 <0.000002	7	8 22	0.032 0.44
	2018-08-22		0.00051	0.074	0.053	66	<0.00002	<0.001	0.0002	<0.06	<0.000002	6	15	0.44
	2019-05-29		0.0027	1.3	0.52	230	<0.00002	0.0048	0.00053	150	<0.000002	69	62	3.7
	2019-08-28		0.00072	1.22	0.134	188	<0.00005	0.00144	<0.0002	0.972	<0.000005	86	64	2.27
	2020-05-27		0.0004	0.016	0.0428	40	<0.000005	<0.0005		1.96	<0.000005	5	9	0.171
Max '4 -	2020-08-19	04/00	0.0015	<0.01	0.0289	31	<0.000005	<0.0001	<0.0002	0.011	<0.000005	4	8	0.0515
Monitor	Date ODWQS -	QA/QC	Na 200	Pb 0.01	Zn 5	CI- 250	NO2-N	NO3-N 10	SO4 500	pH 6.5 - 8.5	alk42 500	NH3-N	DOC 5.0	Th Con
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
1/17	2010-05-18		4			11			38	7.90	56	0.06	1.3	242
	2010-08-25		10	<0.0005	0.016	9	<0.1	<0.1	36	7.40	99		3.1	344
	2011-05-31	no sample	<u> </u>											
	2011-08-23		3	<0.0005	<0.005	14	<0.1	<0.1	46	7.78	56	<0.05	1.8	263
	2012-05-16 2012-08-29		10 20	<0.0005	0.0066	6 19	0.067	<0.1 <0.1	37 88	7.12 6.79	280 380	0.95 1.5	9.2 26	600 910
	2012-06-29		24	-0.0003	0.0000	36	0.007	<0.1	20	7.29	500	3.4	42	1100
	2013-03-22		41	<0.05	<0.01	66	<0.01	<0.1	<1	7.07	640	3.3	80	1400
	2014-05-20		84			110		<0.1	<1	6.92	1100	15	77	2000
	2014-08-19		10	<0.0005	<0.005	18	<0.01	<0.1	32	7.36	170	1.3	5.2	450
	2015-05-20	no1-	26			36		<0.1	95	6.99	310	4.9	17	890
	2015-08-18 2016-05-10	no sample no sample												
	2016-03-10	no sample	3	<0.0002		7	<0.02	<0.02	64	7.96	65.9	0.12	1.6	293
	2017-05-16		4	0.0001		8	<0.033	<0.044	64	7.83	65.8	0.04	1.8	296
	2017-08-29		3	<0.0002	<0.003	7	<0.010	<0.010	61	8.03	66.7	0.03	1.2	281
	2018-05-28		12	<0.0002	<0.003	16	<0.010	<0.010	61	8.03	259	0.45	6.0	622
	2018-08-22		9	<0.0002	<0.003	10	<0.010	<0.010	41	7.93 6.85	178	0.31	4.9	440
	2019-05-29 2019-08-28		74 85	<0.0002	<0.003	110 72	0.057 <0.020	0.022 <0.04	7	6.85	960 844	17 22	31.0 48.2	2000 1770
	2020-05-27		4	<0.00005		5	<0.020	<0.04	35	8.12	98	0.36	3.2	261
	2020-08-19		3	<0.00005		4	<0.01	<0.02	40	3.5	83	0.02	2.1	244
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -		500				,	,,		6.5 - 8.5				
1/17	Units - 2010-05-18		mg/L 116	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 7.90	μS/cm	1		
1/ 1 /	2010-05-18		166			21				7.90		1		
	2011-05-31	no sample	100							7.70		1		
	2011-08-23		214	0.5	0.07	11	<2		0.001	6.47	276	1		
	2012-05-16		364			69				6.80	818]		
	2012-08-29		800	3.9	0.14	150			0.016	6.72	1354	1		
	2013-05-22		824	E 7	0.40	220	60	240	0.07	6.73	1203	-		
	2013-08-27 2014-05-20		1140 1290	5.7	0.19	280 300	69	240	0.27	7.04 6.93	1642 1114	1		
	2014-05-20		264	1.5	0.037	35	13		0.012	6.88	2630	1		
	2015-05-20		634		3.307	64	3	120	0.012	7.11	849	1		
	2015-08-18	no sample]		
	2016-05-10	no sample	<u> </u>											
	2016-08-31		180	0.152	0.0266	10	<6.0	51	<0.0010	0.04	000	4		
	2017-05-16 2017-08-29		174 138	0.13 0.054	0.011	6.2 7.2	<3 <3	37 8.5	0.0043	8.24 6.82	226 250	1		
	2017-08-29		402	0.054	< 0.0063	24	<10	8.5 41.5	<0.002	6.82	341	1		
	2018-08-22		268	0.39	<0.003	18	<6	17	<0.002	7.68	334	1		
	2019-05-29		1200	19	0.009	160	17	370	0.0048	6.87	650	1		
	2019-08-28		1000	23.3	<0.015	155	7.1	244	0.0102	7.68	546			
	2020-05-27		149	<15	0.0351	460	27.8	243	0.0765	7.88	179	1		
Notes:	2020-08-19	ceedance of ODWQS (171	0.064	0.0048	<20	<2	3.5	<0.001	8.38	228	J		
NOTES:	pola denotes ex	CHECIANCE OF CHIVVOS (ZUUDI CIITEIIA											

Notes: Bold denotes exceedance of ODWQS (2006) criteria

NA - Not Analyzed

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
2.10	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2/9	2010-05-18		0.004	<0.02	0.07	26.6	4 O OOO4	40.00F	40 004	<0.001	*0.0004	6.0	6.4	0.040
	2010-08-25 2011-05-31		0.001	0.021 0.02	0.091	26.0 28.5	< 0.0001	<0.005	<0.001	<0.001 <0.05	<0.0001	6.3	6.3 6.6	0.016
	2011-08-23		<0.001	0.02	0.074	28.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	5.7	6.9	0.026
	2012-05-16			<0.02	0.08	28.5				<0.02			6.7	
	2012-08-29		<0.001	0.023	0.081	28.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	6.0	7.2	0.022
	2013-05-22			0.02	0.078	28.9				0.03			7.0	
	2013-08-27 2014-05-20		<0.2	0.03	0.082 0.081	28.3 29.0	<0.005	<0.01	<0.02	<0.02 <0.02	<0.0001	6.0	6.9 7.2	0.03
	2014-05-20		<0.001	0.02	0.061	27.0	<0.001	<0.005	<0.001	<0.02	<0.0001	5.8	6.8	0.019
	2015-05-20		10.001	0.02	0.075	29.0	10.001	10.000	10.001	0.04	10.0001	0.0	7.0	0.010
	2015-08-18		0.0011	0.014	0.085	28.0	<0.0001	<0.005	<0.001	<0.1		5.9	7.0	0.023
	2016-05-10	could not access												
	2016-08-31		0.0097	<0.050	0.0735	25.0	<0.00001	<0.001	0.00036	<0.05	<0.00001	5.8	6.6	0.0053
	2017-05-16		0.0010	<0.050	0.0308	41.2	0.000089	0.0124	0.0149	6.99	<0.00001	7.7	14.3	0.211
	2017-08-29 2018-05-28		<0.0002 0.0005	0.021 0.026	0.065 0.077	26.0 30.0	<0.00002 <0.00002	<0.001 <0.001	0.00093	<0.060	<0.000002 <0.000002	5.8 6.6	6.6 7.6	0.025 0.034
	2018-08-22		0.0003	0.026	0.077	29.0	<0.00002	<0.001	0.00041	<0.060	<0.000002	6.4	7.3	0.034
	2019-05-29		0.0012	0.024	0.12	32.0	0.000049	0.013	0.013	6.8	0.0000023	7.4	9.8	0.002
	2019-08-28		0.0002	0.021	0.057	26.0	<0.000005	<0.0001	0.00022	<0.01	<0.000005	6.2	6.9	0.025
	2020-05-27		0.0010	0.02	0.0839	26.6	<0.00005	<0.0005		<0.01	<0.000005	6.2	6.7	0.00824
	2020-08-19		0.0002	0.023	0.064	26.2	<0.000005	<0.0001	0.00022	<0.01	<0.000005	6.6	7.4	0.0219
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS - Units -		200 mg/L	0.01 mg/L	5 mg/L	250 mg/L	mg/L	10 mg/L	500 mg/L	6.5 - 8.5 n/a	500 mg/L	mg/L	5.0 mg/L	μS/cm
2/9	2010-05-18		7.2	mg/L	mg/L	1	mg/L	mg/L	11	8.10	103	0.05	0.8	225
	2010-08-25		7.3	<0.0005	<0.005	<1	0.01	<0.1	12	8.20	107	<0.05	0.8	228
	2011-05-31		6.7			<1			11	8.24	103	0.15	0.9	224
	2011-08-23		7	<0.0005	<0.005	<1	<0.01	<0.1	10	8.14	106	0.1	1.2	223
	2012-05-16		7			<1		<0.1	9	7.94	110	<0.05	0.95	230
	2012-08-29		7.2	<0.0005	<0.005	<1	0.034	<0.1	8	7.78	110	0.11	1.8	230
	2013-05-22 2013-08-27		7.8 7.2	<0.05	<0.01	1	0.018	<0.1 <0.1	10 8	8.10 8.14	110 110	0.19 0.19	1.1 1.5	230 230
	2013-06-27		8.1	\0.03	\0.01	3	0.016	<0.1	15	7.84	110	0.19	1.1	220
	2014-08-19		7.2	<0.0005	<0.005	2	<0.01	<0.1	15	8.07	100	0.21	3	230
	2015-05-20		7.4			<1		<0.1	9	7.47	110	0.23	1.4	230
	2015-08-18		6.9	<0.0005	<0.005	<1	0.035	<0.1	7.9	7.99	120	0.14	0.93	230
	2016-05-10	could not access												
	2016-08-31		7.34	<0.0002	<0.005	3	0.005	<0.020	15	8.17	103	0.14	0.7	225
	2017-05-16 2017-08-29		7.85 7.4	0.0158 < 0.0002	<0.003	<0.5 <0.5	<0.033 <0.01	0.055 <0.01	12 13	8.23 8.21	105 101	0.09	0.7 <1	219 221
	2018-05-28		8.2	<0.0002	<0.003	<0.5	0.013	0.035	12	8.3	104	0.10	<0.5	223
	2018-08-22		7.8	<0.0002	<0.003	<0.5	<0.010	<0.010	11	8.25	105	0.22	2.1	221
	2019-05-29		8	0.01	0.022	1	0.055	0.15	11	8.2	100	0.16	1.0	230
	2019-08-28		7.13	<0.00005	<0.001	0.5	<0.010	<0.020	10.3	8.22	109	0.13	1.4	222
	2020-05-27		7.22	<0.00005	<0.001	0.3	<0.01	0.022	12.5	8.04	117	0.09	1.5	8.04
	2020-08-19	0.1/0.0	8.1	0.00009	<0.001	0.4	<0.01	<0.02	12	8.12	110	0.07	1.0	221
Monitor	ODWQS -	QA/QC	Th TDS 500	TKN	Total P	COD	BOD	TSS	Phenois	Field pH 6.5 - 8.5	Field Cond			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
2/9	2010-05-18		156	9/ =	9/ =	9/ =	9/2	9/ =	9/2	8.10	μο,σ			
	2010-08-25		144	0.5	0.46	5			<0.001	8.20				
	2011-05-31		146			<4				8.11	226			
	2011-08-23		160	<1	1.2	<4			<0.001	5.98	230			
	2012-05-16		130	0.00	0.00	7.2			10.004	8.10	230			
	2012-08-29		170	0.28	0.38	<8	-		<0.001	8.05	297			
	2013-05-22 2013-08-27		168 162	0.64	6.1	4.8 5.5	<2	12000	<0.001	8.00 8.21	270 236			
	2013-06-27	1	192	0.04	0.1	15		12000	-0.001	6.59	220			
	2014-08-19		186	3.4	6.7	23	<2		0.0011	8.63	253			
	2015-05-20		182			9.3	<2	2300		5.80	210			
	2015-08-18		228	0.21	0.7	<4	<2			7.18	203			
	2016-05-10	could not access		0 1 1 =					0.00					
	2016-08-31		122	0.146	3.56	69	<6.0	2900	0.0026	7.00	046			
	2017-05-16 2017-08-29		146 166	0.27 0.28	1.4 1.4	38 34	<3 <3	2300 3040	0.0039 <0.002	7.88 7.02	216 203			
	2017-06-29		168	0.28	2.3	30	<6	4650	<0.002	7.02	186			
	2018-08-22		410	1	8	94	<6	6150	<0.002	7.32	173			
i	2019-05-29		170	0.2	0.16	12	2.6	9000	<0.0015	7.38	135			
	2019-03-29													

Bold denotes exceedance of ODWQS (2006) criteria Notes:

222

165

0.16

0.073

0.402

0.484

17

<2

<3.3

9480

307

<0.001

<0.001

8.48

6.7

174

272

2020-08-19 NA - Not Analyzed

2020-05-27

Monitor	Data C	24/00	۸۵	D	Ва	Ca	Cd	Cr	Cu	Eo	Uа	V	Ma	Mn
Monitor	Date C	QA/QC	0.025	B 5	<u>ва</u>	Ca	0.005	0.05	Cu 1	Fe 0.3	Hg 0.001	K	Mg	Mn 0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2/13	2010-05-18		1119/1	<0.02	0.02	23.3	mg/L	mg/L	mg/L	<0.1	mg/L	mg/L	7.0	mg/L
	2010-08-25		< 0.001	0.022	0.025	24.0	<0.0001	<0.005	<0.001	<0.1		6.0	7.2	0.015
	2011-05-31			0.03	0.01	29.0				<0.05			7.9	
	2011-08-23		<0.001	0.018	0.021	24.0	<0.0001	<0.005	<0.001	<0.1			6.9	
	2012-05-16			<0.02	0.03	26.6				<0.02			7.4	
	2012-08-29		<0.001	0.027	0.024	24.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	6.0	7.7	0.0061
	2013-05-22		40 O	0.02	0.026	26.7	40 00E	40 O4	40.00	<0.02	40.0004	0.0	7.6	0.04
	2013-08-27 2014-05-20		<0.2	0.03	0.023	25.9 27.0	<0.005	<0.01	<0.02	<0.02 <0.02	<0.0001	6.0	7.4 8.1	0.01
	2014-03-20		<0.001	0.03	0.031	24.0	<0.001	<0.005	<0.001	<0.02	<0.0001	5.8	7.3	0.023
	2015-05-20		~ 0.001	0.024	0.023	26.0	~ 0.001	~0.003	~0.001	<0.1	~0.0001	5.0	7.6	0.023
	2015-08-18		<0.001	0.016	0.025	24.0	<0.0001	<0.005	<0.001	<0.1		6.0	7.6	0.018
	2016-05-10 could	not access												
	2016-08-31		0.00027	<0.050	0.024	26	<0.00001	<0.001	0.00178	<0.005	<0.00001	6.9	7.9	<0.001
	2017-05-16		0.00069	<0.050	0.084	37	0.00008	0.00049	0.0128	3.08	<0.00001	7.0	11.2	0.0125
	2017-08-29		0.00027	0.023	0.030	25	<0.00002	<0.001	0.00048	<0.06	<0.000002	6.4	7.3	0.13
	2018-05-28		0.00026	0.026	0.030	28	<0.00002	<0.001	0.0023	<0.06	<0.000002	7.1	8.4	0.084
	2018-08-22		0.00039	<0.02	0.031	26	<0.00002	<0.001	0.00027	<0.06	<0.000002	7.1	8.1	0.3
	2019-05-29		0.0008	0.025	0.054	29	0.00005	0.0036	0.0093	2.3	<0.000002	7.3	8.9	0.069
	2019-08-28		0.00038	0.021	0.023	23	0.00001	<0.0001	0.0009	<0.01	<0.000005	6.7	7.5	<0.0001
	2020-05-27		0.0005	0.024	0.020	21	<0.000005	<0.0005	<0.0000	<0.01	<0.000005	6.7	7.4	<0.0005
Monitor	2020-08-19 Date G	QA/QC	0.00034 Na	0.019 Pb	0.022 Zn	22 CI-	<0.000005 NO2-N	<0.0001 NO3-N	<0.0002 SO4	<0.01	<0.000005 alk42	7.0 NH3-N	7.7 DOC	0.0501 Th Cond
WIOTHLOF	ODWQS -	XH/QC	200	0.01	2n 5	250	NOZ-N	10	500	pH 6.5 - 8.5	500	INITIO-IN	5.0	TH COM
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
2/13	2010-05-18		8.8	mg/L	mg/L	<1	ing/L	mg/L	12	8.10	104	<0.05	0.7	228
	2010-08-25		7.3	<0.0005	<0.005	1.0	<0.01	0.05	12	8.20	103	<0.05	1.3	175
	2011-05-31		9.5			<1			11	8.10	114	0.37	5.9	253
	2011-08-23		7.9	<0.0005	<0.005	<1	<0.01	<0.1	12	8.14	102	0.21	1.1	221
	2012-05-16		9.4			<1		0.11	11	7.91	110	0.17	2.4	240
	2012-08-29		8.9	<0.0005	<0.005	<1	<0.01	<0.1	12	7.78	100	<0.05	0.58	230
	2013-05-22		9.8			<1		<0.1	12	8.15	100	0.17	0.93	230
	2013-08-27		9.0	<0.05	<0.01	<1	<0.01	0.11	13	8.07	100	0.058	0.81	230
	2014-05-20		13.0			1.0		<0.1	13	8.01	110	0.1	0.69	230
	2014-08-19		9.1	<0.0005	<0.005	<1	<0.01	<0.1	13	8.09	110	0.081	0.77	240
	2015-05-20 2015-08-18		9.8	<0.0005	0.0059	<1 1.2	0.015	<0.1 <0.1	14 14	7.59 8.00	110 110	0.056 0.07	0.96 1.10	240 230
	2015-06-18 2016-05-10 could	I not access	9.0	<0.0003	0.0039	1.2	0.013	\0.1	14	0.00	110	0.07	1.10	230
	2016-08-31	THUL ACCESS	9.51	<0.0002	<0.005	0.6	0.006	0.08	13	8.18	111	0.25	0.81	236
	2017-05-16		8.97	0.0279	0.000	<0.5	<0.033	0.42	12	8.18	107	0.12	<0.5	225
	2017-08-29		8.8	0.0002	<0.003	<0.5	<0.01	0.041	13	8.2	103	0.12	<1	226
	2018-05-28		11	<0.0002	< 0.003	0.6	0.019	0.099	13	8.31	110	0.08	<0.5	235
	2018-08-22		11	<0.0002	<0.003	1.2	<0.010	<0.010	12	7.96	106	0.22	0.87	233
	2019-05-29		14	0.01	0.048	1.4	0.03	0.53	13	8	110	0.09	<0.50	240
	2019-08-28		12.1	<0.00005	0.0036	0.6	<0.010	0.086	10.5	8.19	566	<0.02	1.15	232
	2020-05-27		19.6	<0.00005		0.5	<0.02	0.54	10.9	8.37	132	0.35	1.21	255
Magatta	2020-08-19	24/00	13.4	<0.00005		0.5	0.012	0.097	10.7	8.14	120	0.24	1.32	235
Monitor	ODWQS -	QA/QC	Th TDS 500	TKN	Total P	COD	BOD	TSS	Phenois	Field pH 6.5 - 8.5	Field Cond			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
2/13	2010-05-18		140	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	8.12	199			
	2010-03-10		144	0.3	0.19	5			<0.001	11.37	100			
	2011-05-31		160		v	16				7.64	265			
	2011-08-23		160	0.6	0.24	<4			0.001	5.60	238			
	2012-05-16		112			11				7.69	266			
	2012-08-29		122	0.22	0.27	4.5			<0.001	8.05	297			
	2013-05-22		152			5.2				7.91	270			
	2013-08-27		210	0.36	0.36	<4	<2	180	<0.001	8.08	237			
	2014-05-20		166	0.07	0.01	<4	-0		40.004	6.85	228			
	2014-08-19 2015-05-20		150 144	0.37	0.64	<4 19	<2 <2	440	<0.001	8.65 5.93	256 229			
	2015-05-20		168	0.17	0.29	<4	<2	440		6.60	229			
	2016-05-10 could	I not access	100	0.17	0.28	~4	~∠			0.00	211			
	2016-08-31	1101 400055	126	0.294	0.75	60	<6.0	417	0.0032					
	2017-05-16		130	0.17	1.2	12	<3	493	0.0036	7.53	196			
	2017-08-29		124	0.49	4.5	9	11	658	<0.002	7.24	186			
	2018-05-28		140	1.6	5.2	100	15	449	<0.002	7.29	199			
	2018-08-22		136	0.25	0.18	11	<6	549	<0.002	6.82	185			
	2019-05-29		130	0.14	0.27	7	2.5	280	0.0023	7.61	159			
	2019-08-28		159	0.23	0.126	<20	<2	206	0.0037	8.78	193			
	2020-05-27		143	0.48	0.252	14	<2	310	<0.001	8.7	193			

<2.5

84.3

<0.001

6.14

200

Bold denotes exceedance of ODWQS (2006) criteria Notes:

153

0.28

0.249

<20

2020-08-19 NA - Not Analyzed

Monitor	Date QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -	0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3/8	2010-05-18			0.020	25.0				0.02			3.1	
	2010-08-25			0.02	24.0	<0.0001	<0.005	0.001			2.5	3.1	0.021
	2011-05-31		< 0.02	0.03	28.8				< 0.05			3.3	
	2011-08-23	<0.001	<0.01	0.021	25.0	<0.0001	< 0.005	<0.001	<0.10	<0.0001	2.4	3.3	0.015
	2012-05-16		<0.02	0.02	27.6				<0.02			3.3	
	2012-08-29	0.021	<0.01	0.021	26.0	<0.0002	<0.005	<0.001	<0.10	<0.0001	2.6	3.5	<0.002
	2013-05-22	0.021	<0.01	0.021	25.5	V0.0002	₹0.005	\0.001	<0.10	VO.0001	2.0	3.1	₹0.002
		10.0				-0.005	10.04	40.00		10.0004	4.0		10.04
	2013-08-27	<0.2	<0.02	0.022	26.9	<0.005	<0.01	<0.02	<0.02	<0.0001	4.0	3.4	<0.01
	2014-05-20		<0.02	0.022	29.0				<0.02			3.7	
	2014-08-19	<0.001	<0.01	0.021	25.0	<0.001	<0.005	0.0014	<0.1	<0.0001	2.4	3.2	0.0065
	2015-05-20		<0.02	0.024	27.0				<0.1			3.4	
	2015-08-18	<0.001	< 0.02	0.021	26.0	< 0.0001	<0.005	0.0013	<0.1		2.5	3.5	<0.002
	2016-05-10	< 0.001	< 0.05	0.069	27.7	<0.0001	0.006	0.0145	3.85	<0.0001	3.2	4.4	0.0734
	2016-08-30 could not access												
	2017-05-16	0.00046	< 0.05	0.0573	26.4	0.00003	0.0044	0.0113	2.23	<0.00001	2.8	4.1	0.0545
	2017-08-29	0.00023	<0.02	0.021	25.0	<0.00002	<0.001	0.0013	<0.06	<0.000002	2.4	3.2	0.0074
	2018-05-28	0.00023	<0.02	0.021	29.0	<0.00002	<0.001	0.0019	<0.06	<0.000002	2.7	3.7	<0.004
	2018-08-22	0.00023	<0.02	0.022	28.0	<0.00002	<0.001	0.0019	<0.06	<0.000002	2.7	3.6	0.016
	2019-05-29	0.0024	<0.02	0.12	33.0	0.00014	0.021	0.032	11	<0.000002	3.7	5.6	0.14
	2019-08-28	0.00033	<0.01	0.0219	25.5	0.0000055	0.0002	0.00223	<0.01	<0.000005	2.8	3.5	<0.0001
	2020-05-27	0.00036	<0.01	0.0198	22.6	<0.000005	<0.0005		<0.01	<0.00005	2.2	3.0	<0.0005
	2020-08-19	0.0004	<0.01	0.0186	23.0	<0.000005	0.00021	0.00055	0.021	<0.000005	2.5	3.4	0.00241
	2020-08-19 Duplicate	0.00041	<0.2	0.0183	23.4	<0.000005	0.00024	0.00098	0.021	<0.00005	2.5	3.5	0.00147
Monitor	Date QA/QC	Na	Pb	Zn	Ci-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	DOC	Th Cond
	ODWQS -	200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Tigger				126					284			
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
3/8	2010-05-18	3.3			2		0.7	18	7.90	64	0.05	3.6	176
0/0	2010-08-25	3.3	<0.0005	<0.005	2	<0.01	1.2	18	8.00	62	<0.05	3.7	175
			<0.0003	<0.005		<0.01	0.6			64	<0.05		
	2011-05-31	3.4	.0.0005	.0.005	1	.0.04		16	7.64			3.6	176
	2011-08-23	3.4	<0.0005	<0.005	2	<0.01	0.8	17	7.83	67	<0.05	3.6	177
	2012-05-16	3.5			1		0.46	16	7.59	72	<0.05	3.8	180
	2012-08-29	3.6	<0.0005	<0.005	2	<0.01	0.63	17	7.42	73	<0.05	3.4	180
	2013-05-22	4.1			1		0.28	15	7.94	66	<0.05	3.5	170
	2013-08-27	3.6	< 0.05	<0.01	<1	< 0.01	0.66	15	7.96	68	< 0.05	3.4	180
	2014-05-20	3.8			2		0.52	18	7.60	69	< 0.05	3	180
	2014-08-19	3.4	< 0.0005	<0.005	2	0.013	0.69	17	7.85	68	<0.05	3.5	180
	2015-05-20	3.6			<1		0.33	16	7.01	78	<0.05	3.2	180
	2015-08-18	3.6	<0.0005	<0.005	1.2	<0.01	0.47	16	7.78	72	<0.05	3.3	180
	2016-05-10	3.83	0.008	0.02	1.5	0.006	0.47	13	7.85	63	0.06	3.45	156
	2016-08-30 could not access	3.03	0.000	0.02	1.0	0.000	0.47	10	7.00	00	0.00	3.43	130
		0.07	0.00504		4.0	.0.000	0.4	- 4.4	0.00	70	0.00		470
	2017-05-16	3.97	0.00584		1.2	<0.033	2.4	14	8.00	73	0.02	3.9	176
	2017-08-29	3.6	<0.0002	<0.003	1.1	<0.010	0.66	16	7.99	68	0.022	2.5	174
	2018-05-28	3.7	<0.0002	<0.003	0.7	<0.010	0.48	14	8.12	87	<0.015	1.9	173
	2018-08-22	4	<0.0002	<0.003	0.8	0.011	0.59	12	7.95	71	0.017	2.2	171
	2019-05-29	4.5	0.016	0.045	1.6	0.012	1.9	12	7.84	72	0.081	2.9	170
	2019-08-28	3.67	<0.00005	0.0044	0.6	< 0.010	0.47	12	8.03	89	< 0.02	3.6	170
	2020-05-27	2.96	< 0.00005	<0.001	0.6	<0.01	0.46	12	8.08	77	0.01	4.3	168
	2020-08-19	3.27	0.000067	<0.001	0.9	<0.01	0.55	11	7.93	73	<0.0075	2.8	165
	2020-08-19 Duplicate	3.23	<0.00005	<0.001	0.6	<0.01	0.64	12	7.93	73	0.0122	3.1	166
Monitor	Date QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -	500							6.5 - 8.5		1		
	Trigger	324											
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
3/8	2010-05-18	120	ing/L	mg/L	40	.ng/L	mgrL	ilig/L	6.97	173	1		
3/0	2010-05-16	110	1 10	0.54	23	—		< 0.001		113			
			1.10	0.54		 		~ U.UU I	11.19	405			
	2011-05-31	108	4.00	4.00	11	 		40.004	7.63	185			
	2011-08-23	177	1.00	1.30	11			<0.001	5.71	187			
	2012-05-16				27				7.29	192			
	2012-08-29	126	0.71	0.66	<8.0			<0.001	7.76	238			
ĺ	2013-05-22	162			15	L			8.05	216			
	2013-08-27	140	0.73	1.40	7.1	<2	2000	<0.001	7.38	202			
	2014-05-20	134			15	[8.26	437	1		
	2014-08-19	136	0.86	0.99	10	<2		<0.001	8.55	247	1		
	2015-05-20	108			33	<2	630		6.24	163	1		
	2015-08-18	148	0.20	0.98	12	<2	200		8.03	166			
	2016-05-10	116	0.20	0.89	66	<3	3870	0.0032	6.62	58			
		110	0.30	0.09	00	\3	3010	0.0032	0.02	30			
	2016-08-30 could not access	400	0.53	0.47	47		000	0.0004	7.00	405			
	2017-05-16	108	0.57	0.47	17	<3	866	0.0034	7.32	135			
	2017-08-29	118	0.37	0.47	40	<3	1060	<0.002	6.25	125			
İ	2018-05-28	140	0.32	0.64	47	<6	1990	<0.002	6.23	149			
				0.31	42	<6	2280	< 0.002	6.52	146	ı		
	2018-08-22	174	0.36	0.51	72	-0	2200	0.002	0.02		1		
	2018-08-22 2019-05-29	174 140	0.36	0.83	93	7.4	1500	0.0017	7.39	102			
	2019-05-29	140	0.80	0.83	93	7.4	1500	0.0017	7.39	102			

2020-08-19 Duplicate Notes: Bold denotes exceedance of ODWQS (2006) criteria

0.15

0.24

0.48

0.13

<2.5

<0.001

< 0.001

7.49

7.49

NA - Not Analyzed

2020-08-19

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
1/0	Units -	T =	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4/6	2010-05-18 2010-08-24													
	2010-06-24	No Recovery												
	2011-03-31	No Recovery												
	2012-05-16													
	2013-05-22	Out of Service												
	2013-08-27	*	<0.2	0.030	0.030	34.0	<0.005	<0.01	<0.02	<0.02	0.00025	3.0	6.0	0.080
	2014-05-20			0.020	0.035	38.0				0.02	0.00010		6.6	
	2014-08-19		0.001	<0.01	0.035	30.0	<0.001	<0.005	<0.001	<0.1	0.00013	2.5	5.5	0.033
	2015-05-20 2015-08-18		0.014	<0.01 <0.01	0.030 0.028	31.0 30.0	<0.0001	<0.005	<0.001	<0.1 <0.1	<0.0001	2.5	5.6 5.6	0.018
	2016-05-10		0.003	<0.01	0.020	37.2	0.0001	0.003	0.0233	5.59	<0.0001	4.4	9.6	0.010
	2016-08-31		0.002	<0.05	0.036	31.1	<0.00001	<0.001	0.00052	0.005	<0.00001	2.6	5.5	0.007
	2017-05-16		0.003	<0.05	0.109	39.6	0.000298	0.0163	0.0198	6.65	<0.00001	4.2	10.9	0.137
	2017-08-29		0.001	<0.02	0.031	30.0	<0.00002	<0.001	<0.0002	<0.06	<0.000002	2.5	5.3	0.015
	2018-05-28		0.002	<0.02	0.031	35.0	<0.00002	<0.001	0.0013	<0.06	<0.000002	2.8	6.5	0.022
	2018-08-22		0.001	<0.02	0.024	32.0	<0.00002	<0.001	0.00032	<0.06	<0.000002	2.8	6.1	0.009
	2019-05-29		0.002	<0.02	0.057	34.0	0.000099	0.014	0.013	4.5	<0.000002	3.5	7.9	0.066
	2019-08-28	not sampled	0.001	0.011	0.026	29.1	<0.000005	<0.0001	0.00033	<0.01	<0.000005	2.9	5.9	0.012
	2020-03-27	not sampled												
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
4/6	2010-05-18	No Recovery												
	2010-08-24	No Recovery												
	2011-05-31 2011-08-23	No Recovery No Recovery												
	2011-06-23													
	2013-05-22	Out of Service												
	2013-08-27	*	4.4	<0.05	<0.01	<1	<0.01	<0.1	9	8.09	110	0.14	2.2	220
	2014-05-20		4.8			2		<0.1	5	7.76	130	0.17	2.4	250
	2014-08-19		4	<0.0005	<0.005	<1	<0.01	<0.1	8	7.95	100	0.09	1.6	220
	2015-05-20		4.4			<1		<0.1	7	7.12	110	<0.05	1.6	210
	2015-08-18		4.2	<0.0005	<0.005	1.7	<0.01	<0.1	8.9	7.83	99	<0.05	1.5	200
	2016-05-10		4.8	0.009	0.06	1.2 <0.50	<0.02	0.03 <0.020	7.2	7.89	101	0.03	0.6 1.8	203
	2016-08-31 2017-05-16		4.23 4.56	<0.0002 0.0163		0.6	<0.002 <0.033	<0.020	7.3 6.1	8.10 7.77	116 102	0.07 0.05	1.3	210 210
	2017-03-10		4.30	<0.0002	<0.003	<0.50	<0.033	0.044	7.4	8.01	96.7	0.03	<13	204
	2018-05-28		4.6	<0.0002	<0.003	<0.50	<0.010	<0.010	4.5	7.82	56.9	<0.015	<0.50	201
	2018-08-22		4.7	<0.0002	<0.002	<0.50	< 0.033	<0.044	5.7	8.03	99.2	0.03	1.9	202
	2019-05-29		4.6	0.0049	0.025	1.3	<0.0099	<0.013	5.1	7.70	100	<0.015	1.2	210
	2019-08-28		4.44	<0.00005	<0.001	0.5	<0.010	<0.020	5.53	7.90	109	0.02	1.9	211
	2020-05-27	not sampled												
Monitor	2020-08-19 Date	not sampled QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Dhonole	Field pH	Field Cond			
WOIIILOI	ODWQS -	<u> </u>	500	TIXIV	Totali	COD	ВОВ	100	1 Hellola	6.5 - 8.5	Tiela Colla			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
4/6	2010-05-18													
	2010-08-24													
	2011-05-31													
	2011-08-23													
	2012-05-16	Out of Service Out of Service												
	2013-05-22	*	180	9.5	5.2	340	<2	6300	<0.001	7.73	317			
	2013-06-27		162	3.5	٥.٤	74	٠.	3300	-0.001	7.73	229			
	2014-08-19		144	7.7	2.5	210	<2		<0.001	8.07	294			
	2015-05-20		174			83	<2	1400		6.29	195			
	2015-08-18		154	0.1	0.97	25	<2		0.97	6.79	192			
	2016-05-20		84	0.8	0.39	63	<3	874	0.001	7.17	179			
	2016-08-31		150	0.9	1.28	267	<6.0	1900	<0.0010	0 =0	044			
	2017-05-16		146	2.0	0.71	74	<3	660	0.004	8.79	214			
	2017-08-29 2018-05-28		136 176	4.2 1.6	1.1 0.69	120 91	4 <6	1530 884	<0.002 0.0023	6.75 7.32	203 203			
	2018-05-28		148	0.2	0.69	26	<6	280	<0.0023	8.46	146			
	2019-05-29		140	0.4	0.15	20	2.2	160	<0.002	8.30	176			
I	2019-08-28		155	1.5	0.374	<20	<2	278	0.0066	8.98	169			
		l				i -						1		
	2020-05-27	not sampled												

2020-08-19 not sampled Notes: **Bold** denotes exceedance of ODWQS (2006) criteria

^{* -} first sample from newly constructed replacement well

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WIGHTED	ODWQS -	QA/QC	0.025	5	1	Ca	0.005	0.05	1	0.3	0.001	K	IVIG	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/17	2010-05-18				0.023	22.7				<0.02			4.3	
	2010-08-24		<0.001	<0.01	0.023	23.0	<0.0001	<0.005	0.005	<0.1	<0.0001	1.2	4.8	<0.002
	2011-05-31 2011-08-23		<0.001	<0.01 <0.01	<0.01 0.009	24.9	<0.0001	<0.00E	0.007	<0.05	<0.0001	1.2	4.4 4.5	<0.002
	2011-08-23	Dry	<0.001	<0.01	0.009	22.0	<0.0001	<0.005	0.007	<0.1	<0.0001	1.3	4.5	<0.002
	2012-08-29	Dry												
	2013-05-22	Dry												
	2013-08-27	Dry												
	2014-05-20	Dry												
	2014-08-19		<0.001	<0.01	0.010	25.0	<0.001	<0.005	0.0038	<0.1	<0.0001	1.1	5.2	<0.002
	2015-05-20 2015-08-18	Dry	<0.001	<0.01	0.012	23.0	<0.0001	<0.005	<0.0061	<0.1	<0.0001	1.5	4.8	0.0023
	2016-05-10		<0.001	0.050	0.012	32.8	<0.0001	0.005	0.168	5.49	<0.0001	2.5	8.0	0.0023
	2016-08-31		0.00016	0.050	0.014	27.4	<0.0001	0.0012	0.0028	<0.0050	<0.00010	1.2	5.5	<0.0010
	2017-05-16	Dry												
	2017-08-29	Dry												
	2018-05-28		<0.0002	<0.02	0.012	25.0	<0.00002	<0.001	0.0058	<0.06	<0.000002	1.6	4.8	<0.004
	2018-08-22		<0.0002	<0.02	0.013	24.0	<0.0002	<0.001	0.0051	<0.06	<0.000002	1.6	4.8	<0.004
	2019-05-29 2019-08-28	Dry	<0.0001	<0.01	0.015	23.6	0.000008	0.00076	0.00599	<0.010	<0.000005	1.7	5.3	0.00159
	2019-08-28		0.00014	<0.01	0.015	27.1	0.000008	0.00076	0.00099	<0.010	<0.000005	1.7	5.4	0.00159
	2020-03-27		0.00014	<0.01	0.014	24.3	<0.000005	0.00099	0.00312	0.014	<0.000005	1.3	5.4	0.00035
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
E/47	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
5/17	2010-05-18		3.8	40 000F	40 00F	1	10.01	<0.1	2	8.00	81	<0.05	1.3	164
	2010-08-24 2011-05-31		3.4	<0.0005	<0.005	1 <1	<0.01	0.2 <0.1	1	8.10 8.05	85 79	<0.05 <0.05	1.4 1.5	167 161
	2011-03-31		3.6	<0.0005	<0.005	1	<0.01	<0.1	2	7.99	81	<0.05	1.4	162
	2012-05-16	Dry	0.0	10.0000	10.000		10.01	-0.1		7.00	01	10.00		102
	2012-08-29	Dry												
	2013-05-22	Dry												
	2013-08-27	Dry												
	2014-05-20	Dry	0.0	-0.0005	10.005	-4	10.04	0.00	0	0.05	00	-0.05	4.4	400
	2014-08-19 2015-05-20	Dry	3.2	<0.0005	<0.005	<1	<0.01	0.33	2	8.05	90	<0.05	1.1	180
	2015-08-18	Diy	4.2	<0.005	0.021	1.2	<0.01	0.47	2.4	7.82	83	<0.05	1.3	170
	2016-05-10		4.6	0.0273	0.035	0.8	0.01	0.29	2.8	8.06	95	0.012	2.2	186
	2016-08-31		3.54	<0.0002		<0.50	0.168	0.168	2.2	8.09	92	<0.005	1.6	185
	2017-05-16	Dry												
	2017-08-29	Dry												
	2018-05-28 2018-08-22		4.3	<0.0002 <0.0002	0.012 0.058	1.8 2.3	<0.01 <0.010	1.1	<10 2.9	7.96 8.08	72 76	<0.015 <0.015	0.6 1.2	159 164
	2019-05-29	Dry	4.3	<u> </u>	0.036	2.3	<0.010	ı	2.9	0.00	70	<0.013	1.2	104
	2019-08-28	Diy	4.5	<0.00005	0.102	0.9	<0.010	1.8	2.59	8.04	106	<0.02	1.7	181
	2020-05-27		4.1	<0.00005	0.0894	0.5	<0.010	1.75	2.74	8.22	98	0.017	3.1	192
	2020-08-19		3.6	0.000063	0.0041	0.6	<0.01	1.01	2.07	8.08	94	0.0091	2.5	180
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols		Field Cond			
	ODWQS - Units -		500	ma/l	ma/l	mg/l	mg/l	ma/l	ma/l	6.5 - 8.5	uS/om			
5/17	2010-05-18		mg/L 114	mg/L	mg/L	mg/L 11	mg/L	mg/L	mg/L	mg/L 7.59	μS/cm 145			
]	2010-03-16		106	0.7	1.50	8			<0.001	11.16	170			
	2011-05-31		98			12				7.58	161			
	2011-08-23		100	<1	1.50	<4			<0.001	6.76	170			
	2012-05-16	Dry												
	2012-08-29	Dry												
	2013-05-22 2013-08-27	Dry Dry												
	2013-06-27	Dry												
	2014-08-19	,	126	0.44	0.37	9	<2		<0.001	7.73	216			
	2015-05-20	Dry												
	2015-08-18		134	<0.1	0.25	<4	<2		<0.001	7.08	161			
	2016-05-10		98	0.147	0.50	29	<3	791	0.002	7.11	156			
	2016-08-31	Dni	144	0.155	0.26	17	<6	585	0.0022					
	2017-05-16 2017-08-29	Dry Dry	-											
	2017-06-29	Diy	146	0.21	2.70	31	<6	1190	<0.002	6.98	186			
	2018-08-22		120	0.14	0.49	20	<6	562	<0.002	8.19	146			
	2019-05-29	Dry												
	2019-08-28		141	0.36	0.39	<20	<2	589	0.0062	8.65	142			
	2020-05-27		134	0.31	0.26	17	<2	327	0.0013	7.45	152			
	2020-08-19	eedance of ODW	143	0.197	1.70	87	<2.5	1260	0.0029	7.69	152	l		

2020-08-19 Bold denotes exceedance of ODWQS (2006) criteria Notes:

NA - Not Analyzed

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6/5	2010-05-18			<0.02	<0.02	14.7				<0.02			3.0	
	2010-08-24		<0.001	<0.02	0.012	15.0	<0.0001	<0.005	<0.001	<0.01	<0.0001	1.8	3.1	0.003
	2011-05-31			<0.02	<0.02	17.3				<0.05			3.3	
	2011-08-23		<0.001	< 0.02	0.013	16.0	<0.0001	<0.005	<0.001	<0.10	<0.0001	1.7	3.1	0.003
	2012-05-16			< 0.02	< 0.02	17.0				< 0.02			3.3	
	2012-08-29		<0.001	<0.01	0.017	18.0	<0.0001	<0.005	<0.001	<0.10	< 0.0001	2.1	3.8	<0.002
	2013-05-22			< 0.01	0.016	19.9				<0.10			3.9	
	2013-08-27		<0.2	< 0.02	0.015	17.7	< 0.005	< 0.01	<0.02	<0.02	< 0.0001	2.0	3.4	<0.01
	2014-05-20			< 0.02	0.017	19.0				<0.02			3.7	
	2014-08-19		<0.001	<0.01	0.013	15.0	<0.001	<0.005	<0.001	<0.02	<0.0001	1.7	3.1	0.0023
	2015-05-20			<0.01	0.015	17.0				<0.02			5.5	
	2015-08-18		<0.001	<0.01	0.015	15.0	<0.0001	<0.005	<0.001	<0.02	<0.0001	1.7	3.3	0.0085
	2016-05-10		0.001	0.050	0.045	17.2	0.0001	0.005	0.0101	2.23	0.0001	2.3	4.5	0.050
	2016-08-31		0.00041	<0.050	0.014	16.1	<0.0001	<0.001	0.00056	0.0069	<0.0001	1.8	3.3	<0.001
	2017-05-16		0.0618	<0.050	0.062	19.4	0.00004	0.0059	0.00030	2.97	<0.00001	2.1	5.1	0.0566
	2017-08-29		0.0004	<0.030	0.002	17.0	<0.00004	<0.003	0.00058	0.087	<0.00001	1.8	3.4	0.0064
	2018-05-28		0.0004	<0.02	0.015	19.0	<0.00002	<0.001	0.00038	<0.06	<0.000002	1.9	3.9	0.0004
	2018-08-22		<0.0002	<0.02	0.018	19.0	<0.00002	<0.001	0.00041	<0.06	<0.000002	2.0	3.7	0.036
	2019-05-29		0.0015	<0.02	0.091	21.0	0.00005	0.013	0.018	6.6	0.0000029	2.9	5.4	0.082
	2019-08-28		0.00045	<0.010	0.015	16.7	<0.000005	0.00059	0.00063	<0.010	<0.000005	2.1	3.8	0.00143
	2020-05-27		0.00043	<0.01	0.016	17.1	<0.000005	<0.0005	0.0000=	<0.01	<0.000005	1.7	3.6	<0.0005
	2020-08-19	01/00	0.00048	<0.01	0.152	16.8	<0.000005	0.00066	0.00035	0.012	<0.000005	1.9	3.8	0.00042
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250	"	10	500	6.5 - 8.5	500	,	5.0	01
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
6/5	2010-05-18		2.6			<1		0.1	6.0	7.90	51	<0.05	1.7	116
	2010-08-24		2.7	< 0.0005	< 0.005	<1	<0.01	0.1	6.0	8.00	52	0.09	1.7	118
	2011-05-31		2.6			<1		<0.1	5.0	7.81	54	0.05	1.7	119
	2011-08-23		2.7	<0.0005	<0.005	<1	<0.01	<0.1	9.0	7.59	52	<0.05	1.7	123
	2012-05-16		2.7	<u> </u>		<1		0.2	6.0	7.62	56	<0.05	1.9	130
	2012-08-29		3.1	<0.0005	<0.005	<1	0.038	0.2	6.0	7.10	65	0.28	2.5	140
	2013-05-22		3.5	ı İ		<1		0.2	8.0	7.94	63	0.14	1.8	150
	2013-08-27		3.0	< 0.05	<0.01	<1	0.014	0.23	6.0	7.88	58	0.08	1.8	140
	2014-05-20		3.0			<1		0.16	7.0	7.51	59	<0.05	1.5	130
	2014-08-19		2.7	<0.0005	<0.005	<1	<0.01	0.17	6.0	7.82	55	<0.05	1.6	120
	2015-05-20		2.8			<1		0.18	7.0	6.91	72	< 0.05	1.6	120
	2015-08-18		3.5	< 0.005	<0.005	<1	<0.01	0.2	7.2	7.62	56	<0.05	1.5	130
	2016-05-10		3.2	< 0.005	0.018	0.05	0.011	0.3	5.3	7.80	52	0.043	1.9	118
	2016-08-31		3.3	<0.00002		<0.50	0.003	0.31	4.7	7.99	56	0.02	1.8	127
	2017-05-16		3.1	0.00616		<0.50	< 0.033	1.70	5.1	8.01	58	0.035	1.2	125
	2017-08-29		2.9	<0.0002	<0.003	<0.50	<0.01	0.36	6.6	8.01	57	0.015	1.2	126
	2018-05-28		3.1	<0.0002	<0.003	<0.50	<0.01	0.39	6.2	8.06	57	<0.015	0.6	127
	2018-08-22		3.3	<0.0002	<0.003	<0.50	<0.01	0.37	4.8	8.12	59	0.02	1.4	126
	2019-05-29		3.6			0.00								
	2019-08-28		0.0	0.0083	0.019	1.6	<2			7 92				130
	2020-05-27		2.9	0.0083	0.019	1.6 0.3	<2 <0.010	1.8	6.3	7.92 8.20	55	<0.015	1.4	130 126
			2.9	<0.00005	<0.001	0.3	<0.010	1.8	6.3 5.5	8.20	55 64	<0.015 0.024	1.4	126
Monitor			2.8	<0.00005 <0.00005	<0.001 <0.001	0.3 0.3	<0.010 <0.01	1.8 0.38 0.47	6.3 5.5 5.0	8.20 8.01	55 64 62	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
IVICIONITOR	2020-08-19	QA/QC	2.8 2.9	<0.00005 <0.00005 <0.00005	<0.001 <0.001 <0.001	0.3 0.3 0.3	<0.010 <0.01 <0.01	1.8 0.38 0.47 0.43	6.3 5.5 5.0 5.0	8.20 8.01 7.85	55 64 62 62	<0.015 0.024	1.4	126
Monitor	2020-08-19 Date	QA/QC	2.8 2.9 Th TDS	<0.00005 <0.00005	<0.001 <0.001	0.3 0.3	<0.010 <0.01	1.8 0.38 0.47	6.3 5.5 5.0	8.20 8.01 7.85 Field pH	55 64 62	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
Wionitor	2020-08-19 Date ODWQS -	QA/QC	2.8 2.9 Th TDS 500	<0.00005 <0.00005 <0.00005 TKN	<0.001 <0.001 <0.001 Total P	0.3 0.3 0.3 COD	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols	8.20 8.01 7.85 Field pH 6.5 - 8.5	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19	QA/QC	2.8 2.9 Th TDS 500 mg/L	<0.00005 <0.00005 <0.00005	<0.001 <0.001 <0.001	0.3 0.3 0.3 COD	<0.010 <0.01 <0.01	1.8 0.38 0.47 0.43	6.3 5.5 5.0 5.0	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L	55 64 62 62 Field Cond μS/cm	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
6/5	2020-08-19 Date ODWQS - Units - 2010-05-18	QA/QC	2.8 2.9 Th TDS 500 mg/L 74	<0.00005 <0.00005 <0.00005 TKN mg/L	<0.001 <0.001 <0.001 Total P mg/L	0.3 0.3 0.3 COD mg/L <4	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76	<0.00005 <0.00005 <0.00005 TKN	<0.001 <0.001 <0.001 Total P	0.3 0.3 0.3 COD mg/L <4	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30	55 64 62 62 Field Cond µS/cm 94	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70	<0.00005 <0.00005 <0.00005 TKN mg/L	<0.001 <0.001 <0.001 Total P mg/L	0.3 0.3 0.3 COD mg/L <4 11 5	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols mg/L <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80	55 64 62 62 Field Cond µS/cm 94	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70	<0.00005 <0.00005 <0.00005 TKN mg/L	<0.001 <0.001 <0.001 Total P mg/L	0.3 0.3 0.3 COD mg/L <4 11 5	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27	55 64 62 62 Field Cond µS/cm 94 132 185	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-08-23 2011-08-23 2012-05-16	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7	<0.001 <0.001 <0.001 Total P mg/L 0.480	0.3 0.3 0.3 COD mg/L <4 11 5 5	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenois mg/L <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38	55 64 62 62 Field Cond µS/cm 94 132 185 172	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-08-23 2012-05-16 2012-08-29	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78	<0.00005 <0.00005 <0.00005 TKN mg/L	<0.001 <0.001 <0.001 Total P mg/L	0.3 0.3 0.3 COD mg/L <4 11 5 5 10	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenols mg/L <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58	55 64 62 62 Field Cond µS/cm 94 132 185 172 214	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1	<0.001 <0.001 <0.001 Total P mg/L 0.480 0.400	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21	<0.010 <0.01 <0.01 BOD mg/L	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.88	55 64 62 62 Field Cond µS/cm 94 132 185 172 214 166	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7	<0.001 <0.001 <0.001 Total P mg/L 0.480	0.3 0.3 0.3 COD mg/L <4 11 5 10 18 21 9.1	<0.010 <0.01 <0.01 BOD	1.8 0.38 0.47 0.43 TSS	6.3 5.5 5.0 5.0 Phenois mg/L <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.88 7.68	55 64 62 62 Field Cond μS/cm 94 132 185 172 214 166 159	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62	<0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540	0.3 0.3 0.3 COD mg/L <4 11 5 10 18 21 9.1 10	<0.010 <0.01 <0.01 BOD mg/L	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.88 7.68 6.77	55 64 62 62 Field Cond μS/cm 94 132 185 172 214 166 159 129	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-29 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2014-08-19	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1	<0.001 <0.001 <0.001 Total P mg/L 0.480 0.400	0.3 0.3 0.3 COD mg/L <4 11 5 10 18 21 9.1 10 <4	<0.010 <0.01 <0.01 BOD mg/L	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55	55 64 62 62 Field Cond µS/cm 94 132 185 172 214 166 159 129 144	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-08-27 2014-05-20 2014-08-19 2015-05-20	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51	<0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.400	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1	<0.010 <0.01 <0.01 BOD mg/L <	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenols mg/L <0.001 -0.0054 -0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55 6.33	55 64 62 62 Field Cond µS/cm 94 132 185 172 214 166 159 129 144 120	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25	<0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4	<0.010 <0.01 <0.01 BOD mg/L <	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenols mg/L <0.001 <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-08-18 2016-05-10	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56	<0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25	<pre><0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255</pre>	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 4.1 <4 22	<0.010 <0.01 <0.01 BOD mg/L <2 <2 <2 <2 <2 <3	1.8 0.38 0.47 0.43 TSS mg/L	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55 6.33	55 64 62 62 Field Cond µS/cm 94 132 185 172 214 166 159 129 144 120	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2015-05-20 2015-08-18 2016-05-10 2016-08-31	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80	<pre><0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279</pre>	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 4.1 <4 22 15	<0.010 <0.01 <0.01 BOD mg/L <2 <2 <2 <2 <2 <2 <42 <43 <46	1.8 0.38 0.47 0.43 TSS mg/L 180 490	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-08-19 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2	<0.010 <0.01 <0.01 BOD mg/L <22 <2 <2 <2 <3 <6 6 6	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2011-05-31 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16 2017-08-29	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 0.23 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 0.520 	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2 19	<0.010 <0.01 <0.01 BOD mg/L <2 <2 <2 <2 <2 <2 <42 <43 <46	1.8 0.38 0.47 0.43 TSS mg/L 180 490	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.004 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-08-19 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2	<0.010 <0.01 <0.01 BOD mg/L <22 <2 <2 <2 <3 <6 6 6	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2011-05-31 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16 2017-08-29	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 0.23 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 0.520 	0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2 19	<0.010 <0.01 <0.01 BOD mg/L <22 <2 <2 <2 <3 <6 6 6	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671 678	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.004 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45 8.55 7.16	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2015-08-18 2016-05-10 2016-08-31 2017-08-16 2017-08-29 2018-05-28	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76 84 104	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 0.23 0.28 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 0.520 0.790 	0.3 0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2 19 25	<0.010 <0.01 <0.01 BOD mg/L <2 <2 <2 <2 <2 <3 <6 6 6 6 <6	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671 678 655	6.3 5.5 5.0 5.0 Phenois mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.004 <0.002 0.0028	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45 8.55 7.16 7.41	55 64 62 62 Field Cond	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-08-23 2012-05-16 2012-08-29 2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2016-08-31 2017-05-16 2017-08-29 2018-05-28 2018-08-22 2019-08-29 2019-08-28	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76 84 104 98	 <0.00005 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 0.23 0.28 0.17 	 <0.001 <0.001 <0.001 Total P mg/L 0.480 0.400 0.540 0.250 0.290 0.255 0.316 0.600 0.520 0.790 0.600 	0.3 0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2 19 25 14	<0.010 <0.01 <0.01 BOD mg/L <2 <2 <2 <2 <2 <2 <3 <6 6 6 6 6 <6 <6 <6	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671 678 655 872	6.3 5.5 5.0 5.0 Phenols mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.004 <0.001 0.0044 <0.002 0.0028 <0.002	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.27 7.38 7.58 7.68 6.77 7.55 6.33 6.81 7.45 8.55 7.16 7.41 7.38	55 64 62 62 Field Cond μS/cm 94 132 185 172 214 166 159 129 144 120 124 99	<0.015 0.024 0.014	1.4 1.8 2.4	126 126
	2020-08-19 Date ODWQS - Units - 2010-05-18 2010-08-24 2011-05-31 2011-08-23 2012-08-29 2013-05-22 2013-05-22 2014-05-20 2014-08-19 2015-05-20 2016-08-31 2017-05-16 2017-08-29 2018-05-28 2018-08-22 2019-05-29	QA/QC	2.8 2.9 Th TDS 500 mg/L 74 76 70 92 78 96 92 122 108 90 62 102 56 80 76 84 104 98	 <0.00005 <0.00005 TKN mg/L 0.7 <1 0.62 0.51 0.25 0.1 0.31 0.279 0.24 0.23 0.28 0.17 0.27 	0.001 0.001 0.001 0.480 0.480 0.400 0.540 0.250 0.255 0.316 0.600 0.520 0.790 0.600 0.310	0.3 0.3 0.3 0.3 COD mg/L <4 11 5 5 10 18 21 9.1 10 <4 4.1 <4 22 15 7.2 19 25 14	<0.010 <0.01 <0.01 BOD mg/L <	1.8 0.38 0.47 0.43 TSS mg/L 180 490 336 822 671 678 655 872 640	6.3 5.5 5.0 5.0 Phenols mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.004 <0.001 0.0044 <0.002 0.0028 <0.002 <0.0015	8.20 8.01 7.85 Field pH 6.5 - 8.5 mg/L 7.54 11.30 6.80 6.27 7.38 7.58 7.88 7.68 6.77 7.55 6.33 6.81 7.45 7.16 7.41	55 64 62 62 Field Cond μS/cm 94 132 185 172 214 166 159 129 144 120 124 99	<0.015 0.024 0.014	1.4 1.8 2.4	126 126

29

0.590

<0.001

7.19

511

122

0.148 Bold denotes exceedance of ODWQS (2006) criteria Notes:

101

2020-08-19 NA - Not Analyzed

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WOTHLOT	ODWQS -	QA/QC	0.025	5	1	Ca	0.005	0.05	1	0.3	0.001	K	IVIG	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7/4	2001-06-01 2001-08-01		< 0.001	0.020	0.337	10.7 11.1	< 0.001	0.004	0.031	1.61 2.45	< 0.001	3.9	3.9 5.5	0.168
ŀ	2001-06-01		< 0.001	< 0.001	0.200	10.6	< 0.001	0.004	0.031	0.21	V 0.001	3.9	3.2	0.100
Į	2002-08-06		0.002	0.008	0.138	17.6	< 0.001	0.013	0.087	7.58	< 0.001	7.2	6.0	0.282
	2003-05-21			< 0.01	0.023	11.7				0.10			3.3	
	2003-08-06		0.022	0.006	0.022	11.0	< 0.0001	< 0.005	< 0.0005	0.05	<0.00005	3.1	3.3	
ŀ	2004-05-26 2004-08-24		< 0.002	<0.01 0.008	0.020	11.2 11.7	< 0.0001	< 0.005	0.0017	0.09	0.0001	3.2	4.0 3.2	0.198
ŀ	2005-08-03		₹ 0.002	0.008	0.022	11.7	< 0.0001	< 0.005	0.0017	0.16	0.0001	3.2	3.2	0.190
F	2005-09-01		< 0.001	< 0.01	0.017	11.0	< 0.0001	< 0.005	0.0043	< 0.05	< 0.0001	3.4	3.0	0.045
	2006-05-16			< 0.02	0.02	11.4				< 0.02			3.3	
ŀ	2006-08-29			< 0.02	0.02	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.3	3.2	
ŀ	2007-05-15 2007-08-14		< 0.001	< 0.02 < 0.01	< 0.02	10.2 12.0	< 0.0001	< 0.005	0.003	0.03 < 0.05	0.0001	3.6	2.9 3.5	0.21
ļ.	2008-05-21		10.001	< 0.01	< 0.02	11.1	- 0.0001	10.000	0.000	< 0.05	0.0001	0.0	3.0	0.21
	2008-08-19		< 0.001	< 0.01	0.019	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.2	3.7	0.2
	2009-05-19		. 0 004	<0.02	<0.02	9.0	. 0 0004	- 0.005	0.004	<0.05		0.0	2.5	0.40
ŀ	2009-08-18 2010-05-18		< 0.001	<0.02 <0.02	0.02 <0.02	11.0 10.7	< 0.0001	< 0.005	0.004	<0.05 0.03		3.2	3.0	0.19
ŀ	2010-08-24		<0.001	<0.01	0.022	11.0	<0.0001	<0.005	<0.001	<0.01	<0.0001	3.4	3.2	0.23
	2011-05-31			<0.01	<0.01	11.4				<0.05			3.0	
	2011-08-23		<0.001	<0.01	0.018	11.0	<0.0001	<0.005	0.003	<0.1	<0.0001	3.0	3.2	0.2
-	2012-05-16 2012-08-29		<0.001	<0.02 <0.01	<0.02 0.02	11.9 11.0	<0.0001	<0.005	2.8	<0.02 <0.2	<0.0001	3.2	3.2	0.2
ŀ	2017-10-05		0.0003	<0.02	0.02	9.9	<0.0001	<0.003	0.0034	0.075	<0.00001	2.9	2.9	0.18
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	,,		5.0	0,4
7/4	Units - 2001-06-01		mg/L 4.8	mg/L	mg/L	mg/L 2.4	mg/L	mg/L < 0.10	mg/L 7.5	n/a 7.46	mg/L 45	mg/L < 0.10	mg/L 2.2	μS/cm 116
1/4	2001-08-01		8.1	< 0.001	0.180	2.4	< 0.10	< 0.10	7.5	7.40	40	0.10	2.8	110
ı [2002-05-07		4.3			6.1		< 0.10	5.1	7.13	50	0.04	3.0	115
	2002-08-06		5.9	0.017	0.045	8.9	< 0.05	< 0.03	3.2	6.80	53	0.04	2.5	111.7
}	2003-05-21 2003-08-06		4.3	<0.0005	<0.005	< 0.5 0.6	< 0.2	< 0.2	< 0.5 8.1	7.01 7.91	49 108	0.06	2.8	127 227
ŀ	2003-06-06		4.4	<0.0003	<0.005	<0.5	₹ 0.2	<0.2	5.6	6.93	49	<0.03	3.6	110
. •	2004-08-24		4.5	0.001	< 0.005	1.0	< 0.2	0.40	5.6	6.98	50	0.08	3.9	125
	2005-08-03		4.8			< 1		2.30	8.0	7.53	40	< 0.05	3.3	95
.	2005-09-01 2006-05-16		4.8	< 0.0005	0.005	< 1 2.0	< 0.3	0.50	7.0 6	7.45 7.3	53 55	< 0.05 < 0.01	3.2	107 113
	2006-03-16		4.3	< 0.0005	< 0.005	1.0	< 0.01	0.2	6	7.3	53	0.1	3.8	107
ı İ	2007-05-15		4.3			2.0		< 0.1	6	7	49	< 0.05	4.8	111
	2007-08-14		4.8	< 0.0005	< 0.005	< 1	< 0.01	0.1	6	7.1	52	< 0.05	3.6	110
	2008-05-21 2008-08-19		3.9 4.7	< 0.0005	< 0.005	< 1 < 1	< 0.01	< 0.1	5 7	7.7 7.6	50 51	< 0.05 < 0.05	3.1	109 110
	2009-05-19		3.4	< 0.0005	< 0.005	<1	V 0.01	<0.1	4	6.6	42	< 0.05	2.8	94
ı	2009-08-18		4	< 0.0005	< 0.005	<1	< 0.01	<0.1	5	7	53	<0.05	3.6	112
	2010-05-18		4			1.0		<0.1	5	7.3	49	<0.05	3.3	109
.	2010-08-24 2011-05-31		4.7 3.9	<0.0005	<0.005	1 2	<0.01	<0.1 <0.1	5 9	7.1 7.14	51 46	<0.05 <0.05	3.8 2.9	116 101
	2011-03-31		4.4	<0.0005	0.006	1	<0.01	<0.1	7	6.74	48	<0.05	3.3	115
. •	2012-05-16		4.2	0.000	0.000	<1.0	0.0.	<0.1	7	6.99	50	<0.05	3.6	110
. [2012-08-29		4.6	<0.0005	<0.005	<1.0	<0.01	<0.1	5	6.86	53	<0.05	3.0	110
Manitan	2017-10-05	04/00	6.5 Th TDS	0.00046	<0.003	<0.5	<0.033	0.92	5.4	7.53	53.8	<0.015	3.3	110
Monitor	Date ODWQS -	QA/QC	500	TKN	Total P	COD	BOD	TSS	Phenois	Field pH 6.5 - 8.5	Field Cond			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
7/4	2001-06-01		185			25	2							
, }	2001-08-01		218	0.46	0.07	36 195		< 1	< 0.001	7.2 7.0	50 70			
	2002-05-07		730	0.07			< 1 < 1	13.47 4.55	< 0.001					
-				0.07		< 20 14		4.55	< 0.001	7.1 7.4	100			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06		730 146 180 132	0.07	< 0.05	< 20 14 9	< 1		< 0.001	7.1 7.4 7.3	100 90 90			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26		730 146 180 132 136	0.18		< 20 14 9 11	< 1 < 0.5	4.55	< 0.001	7.1 7.4 7.3 6.9	100 90 90 20			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24		730 146 180 132 136 140		< 0.05	< 20 14 9 11 13	< 1 < 0.5 < 0.5	4.55 3640		7.1 7.4 7.3 6.9 6.2	100 90 90 20 NA			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26		730 146 180 132 136	0.18		< 20 14 9 11	< 1 < 0.5	4.55	< 0.001	7.1 7.4 7.3 6.9	100 90 90 20			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16		730 146 180 132 136 140 410 247 68	0.18 0.32 0.70	1.14	< 20 14 9 11 13 22 15 13	< 1 < 0.5 < 0.5 < 3	4.55 3640	< 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0	100 90 90 20 NA 90			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29		730 146 180 132 136 140 410 247 68 82	0.18	1.14	< 20 14 9 11 13 22 15 13 13	< 1 < 0.5 < 0.5 < 3 < 2 < 2	4.55 3640 2400	< 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6	100 90 90 20 NA 90			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29 2007-05-15		730 146 180 132 136 140 410 247 68 82 72	0.18 0.32 0.70 0.5	1.14 2.99 1.6	< 20 14 9 11 13 22 15 13 13 5	< 1 < 0.5 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2	4.55 3640 2400	< 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9	100 90 90 20 NA 90 90			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29		730 146 180 132 136 140 410 247 68 82	0.18 0.32 0.70	1.14	< 20 14 9 11 13 22 15 13 13	< 1 < 0.5 < 0.5 < 3 < 2 < 2	4.55 3640 2400	< 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6	100 90 90 20 NA 90			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29 2007-05-15 2007-08-14 2008-08-21 2008-08-19		730 146 180 132 136 140 410 247 68 82 72 69 68 75	0.18 0.32 0.70 0.5	1.14 2.99 1.6	< 20 14 9 11 13 22 15 13 13 5 19 11 8	< 1 < 0.5 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5	100 90 90 20 NA 90 90			
-	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29 2007-05-15 2007-08-14 2008-05-21 2008-08-19		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60	0.18 0.32 0.70 0.5 < 1	1.14 2.99 1.6 3.4	<20 14 9 11 13 22 15 13 13 5 19 11 8	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.4	100 90 90 20 NA 90 90			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29 2007-05-15 2007-08-14 2008-08-19 2009-05-19		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60 72	0.18 0.32 0.70 0.5	1.14 2.99 1.6 3.4	<20 14 9 11 13 22 15 13 13 5 19 11 8 16 34	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.4 7.5	100 90 90 20 NA 90 90 105			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-08-29 2007-05-15 2007-08-14 2008-05-21 2008-08-19		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60	0.18 0.32 0.70 0.5 < 1	1.14 2.99 1.6 3.4	<20 14 9 11 13 22 15 13 13 5 19 11 8	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.4	100 90 90 20 NA 90 90			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2007-08-14 2008-05-21 2008-08-19 2009-08-18 2010-05-18 2010-08-18 2010-08-24 2011-05-31		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60 72 74 66	0.18 0.32 0.70 0.5 <1 1.2 1.6	1.14 2.99 1.6 3.4 1.3 2.2	<20 14 9 11 13 22 15 13 13 13 13 13 13 13 13 19 11 11 11 12 12 13 14 15 16 16 17 18 18	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.4 7.5 7.6 7.2 11.0 6.4	100 90 90 20 NA 90 90 105			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-05-15 2007-08-14 2008-05-19 2009-05-19 2009-05-19 2009-08-18 2010-05-18 2010-05-18		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60 72 74 74 66 100	0.18 0.32 0.70 0.5 <1 1.2	1.14 2.99 1.6 3.4 1.3	<20 14 9 11 13 22 15 13 5 19 11 8 16 34 13 13 11 18	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.6 7.5 7.6 7.2 11.0 6.4 6.3	100 90 90 20 NA 90 90 105 100 152 85 118 124			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2007-08-14 2008-08-19 2009-05-19 2009-05-19 2009-08-18 2010-08-28 2011-05-18 2011-05-31 2011-08-23 2012-05-16		730 146 180 132 136 140 410 247 68 82 72 69 68 77 74 74 74 66 60 100 90	0.18 0.32 0.70 0.5 < 1 1.2 1.6 0.6	1.14 2.99 1.6 3.4 1.3 2.2 0.79	<20 14 9 11 13 22 15 13 5 19 11 8 16 34 13 19 18 11 17	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.4 7.5 7.6 7.2 11.0 6.3 7.2	100 90 90 90 NA 90 90 105 100 152 85 118 124 112			
	2002-05-07 2002-08-06 2003-05-21 2003-08-06 2004-05-26 2004-08-24 2005-08-03 2005-09-01 2006-05-16 2006-05-15 2007-08-14 2008-05-19 2009-05-19 2009-05-19 2009-08-18 2010-05-18 2010-05-18		730 146 180 132 136 140 410 247 68 82 72 69 68 75 60 72 74 74 66 100	0.18 0.32 0.70 0.5 <1 1.2 1.6	1.14 2.99 1.6 3.4 1.3 2.2	<20 14 9 11 13 22 15 13 5 19 11 8 16 34 13 13 11 18	< 1 < 0.5 < 0.5 < 3 < 2 < 2 < 2 < 2 < 2 < 2	4.55 3640 2400 1100	< 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	7.1 7.4 7.3 6.9 6.2 3.3 4.4 7.0 6.6 6.9 7.1 7.5 7.6 7.5 7.6 7.2 11.0 6.4 6.3	100 90 90 20 NA 90 90 105 100 152 85 118 124			

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11/4	2010-05-18			<0.02	0.02	8.7				0.06			2.5	
	2010-08-24			0.18	0.850	7.6				0.03			2.3	
	2011-05-31			<0.02	<0.02	8.3				<0.05			2.5	
	2011-08-23 2012-05-16	Dry		<0.02	<0.02	9.0				<0.02			2.5	
	2012-03-10	Diy		<0.02	<0.02	9.3				0.03			2.6	
	2012-00-29	Dry		\0.02	~0.02	9.5				0.03			2.0	
	2013-08-27	Dry												
	2014-05-20	2.,		<0.02	0.021	8.8				0.02			2.5	
	2014-08-19		<0.001	<0.01	0.018	6.9	<0.001	<0.005	0.0014	<0.1	<0.0001	1.1	2.0	0.0024
	2015-05-20	Dry												
	2015-08-18		<0.001	<0.01	0.018	5.9	<0.0001	<0.005	0.0023	<0.1	<0.0001	1.2	1.9	0.0021
	2016-05-10		0.001	0.050	1.25	50.8	0.0002	0.05	0.197	29.9	0.0001	10.2	16.0	0.857
	2016-08-31		<0.0001	<0.050	0.0179	7.1	<0.00001	<0.001	0.00168	0.029	<0.00001	1.11	2.0	0.0026
	2017-05-16	Dry												
	2017-08-29	Dry												
	2018-05-28	Dry												
	2018-08-22 2019-05-29	Dry												
	2019-05-29	Dry Dry												
	2020-05-27	Diy	0.00024	<0.01	0.0216	10.0	0.000103	0.00073		<0.01	<0.000005	1.31	3.0	0.00418
	2020-03-27		0.00024	<0.01	0.0216	9.3	<0.000103	0.00073	0.00079	0.01	<0.000005	1.44	3.1	0.00418
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -	4,,,,,	200	0.01	5	250		10	500	6.5 - 8.5	500	10.10	5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
11/4	2010-05-18		6	, , , , , , , , , , , , , , , , , , ,	j	<1		<0.1	4	7.00	43	0.12	3.7	96
	2010-08-24		11.3			<1		0.1	4	6.80	43	<0.05	4.2	92
	2011-05-31		5.6			<1		<0.1	3	6.99	41	0.1	3.9	92
	2011-08-23		6.1			<1		<0.1	4	6.73	42	<0.05	3.9	92
	2012-05-16	Dry												
	2012-08-29		5.8			9		0.14	4	6.92	47	NA	4.6	100
	2013-05-22	Dry												
	2013-08-27	Dry	0.0			. 4		.0.4		0.74		.0.05	4.0	0.4
	2014-05-20		6.3	40 000E	٠, ٥,٥٠	<1 9	40.04	<0.1 <0.1	4	6.74	38	<0.05	4.0	84
	2014-08-19 2015-05-20	Dny	5.3	<0.0005	<0.005	9	<0.01	<0.1	4	6.79	35	0.066	4.0	83
	2015-03-20	Dry	5.6	<0.0005	<0.005	<1	<0.01	<0.1	4	6.54	34	0.058	5.7	76
	2016-05-10		9.86	0.057	0.188	20	0.003	0.085	60.1	7.27	35	0.033	5.4	88.3
	2016-08-31		5.52	<0.0002	0.100	0.7	0.086	0.073	4.1	7.62	34	0.0084	5.0	83.6
	2017-05-16	Dry	0.02	0.0002		0	0.000	0.070		7.02		0.000	0.0	00.0
	2017-08-29	Dry												
	2018-05-28	Dry												
	2018-08-22	Dry												
	2019-05-29	Dry												
	2019-08-28	Dry												
	2020-05-27		5.56	<0.00005	<0.001	0.7	<0.01	0.112	4.37	6.85	50	0.029	4.5	98.6
	2020-08-19	21/22	5.72	<0.00005	<0.001	0.7	<0.01	0.083	3.69	6.38	47	0.0176	4.1	99.8
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond	-		
	ODWQS - Units -		500	ma/l	mc/l	mc/l	ma/l	mg/l	ma/l	6.5 - 8.5	uS/om			
11/4	2010-05-18		mg/L 64	mg/L	mg/L	mg/L 83	mg/L	mg/L	mg/L	mg/L 7.52	μS/cm 91	1		
' '/-	2010-03-18		58			26	<u> </u>			11.15	91	1		
	2011-05-31		54			9				6.26	100	1		
	2011-08-23		74			11				6.51	93	1		
	2012-05-16	Dry									-			
	2012-08-29		NA			NA				6.30	136			
	2013-05-22	Dry												
	2013-08-27	Dry			_					6.99	112			
	2014-05-20		1270			21				7.56	78			
	2014-08-19		562	<1	25	11	<2		<0.001	7.24	105			
	2015-05-20	Dry	,	6.0:										
	2015-08-18		1750	0.24	12	4.7	<2	B1/A	<0.001	7.10	80	1		
	2016-05-10		56	0.505	14.5	113	<6	N/A	0.001	6.54	72	-		
	2016-08-31	Δ	518	1.09	11.1	186	<6	-	<0.0010					
	2017-05-16 2017-08-29	Dry Dry										1		
	2017-08-29	Dry Dry										ł		
	2018-08-22	Dry					<u> </u>					1		
	2019-05-29	Dry										1		
	2019-08-28	Dry										1		
	2020-05-27	•	303	0.18	4.82	93	<5	106000	<0.001	7.25	95	1		
1			1				1	1			1	1		

Bold denotes exceedance of ODWQS (2006) criteria Notes:

0.829

643

11.2

22

<3.3

29400 <0.001

7.72

118

2020-08-19 NA - Not Analyzed

Monitor	Date QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
womtor	ODWQS -	0.025	5	1	Ga	0.005	0.05	1 1	0.3	0.001	- N	IVIG	0.05
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16/15	2010-05-18 No Recove												
	2010-08-24 No Recove	ery											
	2011-05-31	10.004	<0.02	<0.02	17.5	10.0004	<0.005	<0.0001	<0.02	-0.0004	4.40	3.0	10.000
	2011-08-23 2012-05-16	<0.001	<0.02 <0.02	0.050 <0.02	15.0 15.0	<0.0001	<0.005	<0.0001	<0.1 <0.02	<0.0001	1.10	2.9 2.8	<0.002
	2012-03-10	<0.001	<0.02	0.052	14.0	<0.0001	<0.005	<0.0001	<0.02	<0.0001	1.00	3.0	<0.002
	2013-05-22	10.001	<0.02	0.005	15.7	-0.0001	10.000	0.0001	<0.02	-0.0001	1.00	3.0	10.002
	2013-08-27	<0.2	<0.02	0.005	15.7	<0.005	<0.01	<0.02	<0.02	<0.0001	1.00	3.1	<0.01
	2014-05-20		<0.02	0.008	17.0				<0.02			3.4	
	2014-08-19	<0.001	<0.01	0.008	17.0	<0.001	<0.005	0.0011	<0.1	<0.0001	1.10	3.1	0.006
	2015-05-20	10.004	<0.01	0.006	17.0	10.0004	-0.005	10.004	<0.02	10.0004	4.40	3.2	10.000
	2015-08-18 2016-05-10	<0.001 <0.001	<0.01 0.050	0.006 0.050	16.0 23.6	<0.0001 0.0001	<0.005 <0.005	<0.001 0.009	<0.1 2.4	<0.0001 <0.0001	1.10 2.13	3.3 5.4	<0.002 0.051
	2016-08-31	0.00021	<0.050	0.006	15.9	<0.0001	<0.003	0.0009	<0.0050	<0.0001	1.09	3.2	<0.001
	2017-05-16	0.00027	<0.050	0.024	25.1	0.000032	0.0024	0.00491	1.0	<0.00001	1.36	4.1	0.0251
	2017-08-29	<0.0002	<0.02	<0.01	17.0	<0.00002	<0.001	0.0005	<0.06	<0.000002	1.10	3.0	<0.004
	2018-05-28	<0.0002	<0.02	<0.01	17.0	<0.00002	<0.001	0.0004	<0.06	<0.000002	1.20	3.4	<0.004
	2018-08-22	<0.0002	<0.02	<0.01	17.0	<0.00002	<0.001	0.00072	<0.06	<0.000002	1.20	3.3	0.0051
	2019-05-29 2019-08-28	0.00039	<0.02	0.018	17.0	0.000022	0.0023	0.0037	0.74	<0.000002	1.30	3.4	0.014
	2019-08-28 2020-05-27	0.00018 0.00022	<0.01 <0.01	0.006 0.007	15.6 17.6	<0.000005 <0.000005	0.00049 <0.0005	0.00083	<0.01 <0.01	<0.000005 <0.000005	1.25 1.09	3.4	0.00046 <0.0005
	2020-05-27	0.00022	<0.01	0.007	17.0	<0.000005	0.00049	<0.0002	<0.01	<0.000005	1.09	3.6	0.0003
Monitor	Date QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -	200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
16/15	2010-05-18 No Recove												
	2010-08-24 No Recove 2011-05-31	2.9			1		0.3	3.0	7.85	53	<0.05	1.0	118
	2011-08-23	2.9	<0.0005	<0.005	1 <1	<0.01	0.3	3.0	7.85	51	<0.05	1.8 1.4	110
	2012-05-16	2.8	~ 0.0003	\0.003	<1	\0.01	0.14	3.0	7.72	52	<0.05	1.4	110
	2012-08-29	3.0	<0.0005	<0.005	<1	<0.01	0.21	3.0	7.71	55	<0.05	1.7	110
	2013-05-22	3.8			<1		0.22	3.0	8.06	53	0.08	1.4	110
	2013-08-27	3.2	<0.05	<0.01	<1	<0.01	0.29	3.0	8.20	54	<0.05	1.3	110
	2014-05-20	3.5			<1	2.24	0.34	3.0	7.77	56	<0.05	1.3	120
	2014-08-19	2.9	<0.0005	<0.005	<1 <1	<0.01	0.46	4.0	7.81	55 61	<0.05 <0.05	1.2 1.4	120 120
	2015-05-20 2015-08-18	3.2 3.0	<0.0005	<0.005	<1	<0.01	0.27	4.0 4.5	7.09 8.10	58	<0.05	1.4	120
	2016-05-10	3.6	0.0033	0.016	0.6	0.007	0.342	5.0	7.91	63	0.013	1.74	120
	2016-08-31	3.1	<0.0002		<0.50	<0.002	0.322	4.5	8.03	55	<0.005	1.16	122
	2017-05-16	3.3	0.00168		<0.50	<0.033	0.90	3.9	8.18	56	<0.015	0.78	118
	2017-08-29	3.1	<0.0002	0.0046	<0.50	0.07	0.27	4.2	8.10	62	0.016	0.75	115
	2018-05-28 2018-08-22	3.3	<0.0002	<0.003	<0.50	<0.01	0.14	3.3	8.21	55	<0.015	<0.50	114
	2019-05-29	3.3	<0.0002 0.00091	<0.003 <0.003	<0.50 1.1	<0.01 <0.0099	0.11	2.5 2.7	8.21 8.10	55 55	<0.015 0.019	1.2 1.1	114 120
	2019-08-28	3.1	<0.00005	<0.003	0.3	<0.0033	0.116	2.3	8.28	61	0.013	1.4	119
	2020-05-27	3.0	<0.00005		0.3	<0.01	0.191	4.0	8.13	66	<0.01	2.3	130
	2020-08-19	3.2	<0.00005	<0.001	0.3	<0.05	<0.01	4.0	8.07	64	<0.005	1.7	126
Monitor		Th TDS	TKN	Total P	COD	BOD	TSS	Phenois		Field Cond			
	ODWQS -	500	/I	/I	/I	/I	/I	/I	6.5 - 8.5	uS/cm			
16/15	Units - 2010-05-18 No Recove	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µ5/cm			
75, 10	2010-03-18 No Recove										1		
	2011-05-31	70			9				6.98	125	1		
	2011-08-23	84	<1	0.49	<4			<0.001	6.88	122]		
	2012-05-16	64			8.6								
	2012-08-29	76	3.4	0.25	4.4			<0.001	8.29	159			
	2013-05-22 2013-08-27	84 152	0.11	0.37	10 4.6	<2	290	0.002	8.43	122 122	-		
	2014-05-20	100	0.11	0.37	4.6 <4	~∠	290	0.002	8.41 8.6	102	-		
	2014-03-20	54	0.14	0.33	7.3	<2		<0.001	8.62	149	1		
	2015-05-20	86			4.1	<2	340		6.2	120	1		
	2015-08-18	102	<0.1	0.14	<4	<2		<0.001	7.22	116			
	2016-05-10	68	0.118	0.44	25	<3	289	<0.001	8.2	107			
	2016-08-31	98	0.057	0.29	36	<6	172	<0.001	0.50	400			
	2017-05-16 2017-08-29	96 82	0.066 0.083	0.16 0.24	40 16	<3 15	248 198	0.004 <0.002	8.59 7.59	109 106			
	2018-05-28	76	< 0.05	0.24	8	<3	260	0.0023	7.82	112	1		
	2018-08-22	74	<0.05	0.13	10	<6	563	<0.0023	8.51	99			
	2019-05-29	92	0.22	0.15	9.9	<2	200	0.0025	8.46	95]		
	2019-08-28	94	<0.15	0.09	<20	<2	113	0.0023	9.92	105			
1	2020 05 27	0.2	∠O 15	0.00	-10	-2	157	~0 001	0 12	105			

Notes: Bold denotes exceedance of ODWQS (2006) criteria

92

<0.15

<0.05

0.09

0.06

<10

<20

<2

<2

157

87

< 0.001

<0.001

8.42

8.2

105

115

2020-08-19 NA - Not Analyzed

2020-05-27

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	I
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			Ī
17/1E	Units -	Ma Dagguery	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Ļ
17/15	2010-08-24 2011-05-31	No Recovery		<0.02	0.040	26.3				<0.02			5.8	ł
	2011-08-23			<0.02	0.030	24.5				<0.02			5.5	t
	2012-05-16			<0.02	0.030	26.3				<0.02			5.7	Ī
	2012-08-29			<0.02	0.030	22.4				<0.02			4.8	Ļ
	2013-05-22 2013-08-27		<0.2	<0.02 <0.02	0.024	22.4 23.8	<0.005	<0.01	<0.02	<0.02 <0.02	<0.0001	2	4.8 5.2	ł
	2014-05-20		٧٥.٧	<0.02	0.030	23.0	٧٥.005	٧٥.٥١	10.02	<0.02	VO.0001		5.0	t
	2014-08-19		0.001	<0.01	0.033	24.0	<0.001	<0.005	0.0012	<0.1	<0.0001	1.8	5.6	İ
	2015-05-20			<0.01	0.037	27.0				<0.02			6.0	L
	2015-08-18		0.0013	<0.01	0.035	25.0	<0.0001	<0.005	0.0012	<0.1 0.23	<0.0001	2.1	6.1	Ļ
	2016-05-10 2016-08-31		0.0014 0.0011	0.050 <0.050	0.382	26.6 28.2	0.0003 0.00003	<0.005 <0.001	0.0039 0.00119	<0.005	<0.0001 <0.00001	2.4	6.8 6.5	ł
	2017-05-16		0.0111	<0.050	0.040	25.6	0.000094	0.0012	0.00504	0.29	<0.00001	2.1	6.5	t
	2017-08-29		0.00074	<0.02	0.036	26.0	0.000037	<0.001	0.0014	0.09	<0.000002	2.2	5.9	I
	2018-05-28		0.001	<0.02	0.035	28.0	<0.00002	<0.001	0.0015	<0.06	<0.000002	2.3	6.5	Ļ
	2018-08-22 2019-05-29		0.00095 0.0012	<0.02 <0.02	0.035	26.0 23.0	<0.00002 0.000003	<0.001 0.0022	0.00044 0.0048	<0.06 0.49	<0.000002 <0.000002	2.2 1.8	6.0 5.4	ŀ
	2019-03-29		0.00012	<0.02	0.037	21.4	<0.000005	0.0022	0.00203	<0.01	<0.000002	2.0	5.4	t
	2020-05-27		0.00106	<0.01	0.031	23.0	0.0000138	<0.0005	0.00200	<0.01	<0.000005	1.9	5.2	t
	2020-08-19		0.00105	<0.01	0.034	24.2	<0.000005	0.00037	0.0007	<0.01	<0.000005	2.2	6.1	I
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	ļ
	ODWQS - Units -		200 mg/L	0.01 mg/L	5 mg/L	250 mg/L	mg/L	10 mg/L	500 mg/L	6.5 - 8.5 n/a	500 mg/L	mg/L	5.0 mg/L	
17/15		No Recovery	mg/L	mg/L	mg/L	mg/L	IIIg/L	mg/L	mg/L	II/a	mg/L	mg/L	mg/L	l
	2011-05-31	,	3.3			<1		0.1	11.0	7.98	83	<0.05	2.4	T
	2011-08-23		3.1			<1		0.1	11.0	7.76	83	<0.05	2.3	L
	2012-05-16		3.3			<1		<0.1	10.0	7.74	84	<0.05	2.7	Ļ
	2012-08-29 2013-05-22		3.9			<1 <1		0.15 0.11	7.0 5.0	7.53 8.06	78 73	<0.05 0.07	3.3 2.7	ŀ
	2013-03-22		3.5	<0.05	<0.01	<1	<0.01	<0.11	7.0	8.11	80	<0.05	3.0	t
	2014-05-20		3.7			<1		0.1	5.0	7.76	74	<0.05	2.3	İ
	2014-08-19		3	<0.0005	<0.005	<1	<0.01	<0.1	13.0	7.97	86	<0.05	2.1	Ĺ
	2015-05-20		3.6	10.0005	10.005	<1	10.04	<0.1	12.0	7.20	85	<0.05	2.3	Ļ
	2015-08-18 2016-05-10		3.3 3.9	<0.0005 0.005	<0.005 0.007	<1 1.0	<0.01 <0.01	<0.1 0.1	14.0 10.4	8.02 7.88	87 81	<0.05 <0.05	2.5 2.3	H
	2016-08-31		3.5	<0.0002	0.007	<0.50	0.004	0.065	14.0	8.16	90	0.018	2.6	t
	2017-05-16		3.6	0.00093		<0.50	<0.010	0.14	12.0	8.03	87	<0.015	1.6	T
	2017-08-29		3.4	<0.0002	0.0037	0.6	<0.010	0.088	11.0	8.03	83	0.016	1.9	Ļ
	2018-05-28		3.8	<0.0002	0.0042	<0.50	<0.010	0.11	9.9	8.25	91	<0.015	1.4	ŀ
	2018-08-22 2019-05-29		3.7 3.5	<0.0002 0.00064	<0.003 <0.003	<0.50 1.0	<0.10 <0.0099	0.086 0.45	8.7 7.2	8.14 7.93	89 78	<0.015 0.026	2.1	ł
	2019-08-28		3.3	<0.00005	0.0026	0.3	<0.010	0.06	6.8	8.00	82	<0.02	2.8	t
	2020-05-27		3.3	<0.00005	0.0036	0.3	<0.01	0.069	7.2	8.01	88	<0.01	3.2	I
	2020-08-19		3.4	<0.00005	0.0015	0.4	<0.05	<0.01	9.7	7.80	91	<0.005	3.3	L
Monitor	ODWQS -	QA/QC	Th TDS 500	IKN	I otal P	COD	BOD	155	Phenois	6.5 - 8.5	Field Cond			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
17/15		No Recovery	Ĭ							Ĭ				
	2011-05-31		138			17				6.79	223			
	2011-08-23		128			8				6.44	197			
	2012-05-16 2012-08-29		110 104			16 15				7.96 7.99	233 240			
	2013-05-22		92			7.9				8.1	163			
	2013-08-27		130	0.2	0.064	4.7	<2	110	<0.001	7.72	183			
	2014-05-20		110	6.15	0.0	10				8.15	132			
	2014-08-19 2015-05-20		110 118	0.15	0.054	8.2 6.3	<2 <2	65	<0.001	7.71 5.81	189 180			
	2015-05-20		118	<0.1	0.044	4.1	<2 <2	00	<0.001	5.81 8.48	165			
	2016-05-10		76	0.11	0.040	<10	<3	67.8	0.001	7.4	149			
	2015-08-31		126	0.069	0.132	22	<6.0	140	<0.001					
	2017-05-16		80	0.095	0.048	17	<3	81.8	0.0037	8.24	152			
	2017-08-29		84	0.1	0.026	14	18	30.3	<0.002	7.38	169			
	2018-05-28 2018-08-22		126 178	0.065 0.064	0.033	<3 10	<3	57.8 273	0.0022 <0.002	7.29 7.37	172 149			
	2019-05-29		53	0.11	0.029	11	11	53	<0.002	8.49	130			
	2019-08-28		109	<0.15	0.046	<20	<2	38.7	0.0041	8.91	142			
1	2020-05-27		128	0.2	0.028	13	<2	42.8	<0.001	8.09	132			

Mn 0.05 mg/L

<0.01 ND <0.002 0.007 <0.001 0.0082 < 0.004 < 0.004 <0.004 0.0095 <0.0001 <0.0005 0.00079 Th Cond μS/cm 191 188 190 170 150 170 150 200 190 190 187 205 191 188 200 196 170 171 176 185

Notes: Bold denotes exceedance of ODWQS (2006) criteria

291

<0.05

0.023

<20

<2

118

<0.001

8.28

156

NA - Not Analyzed

2020-08-19

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
Monto	ODWQS -	Q/II/QO	0.025	5	1	<u> </u>	0.005	0.05	1	0.3	0.001		mg	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19/16	2010-05-18			<0.02	<0.02	39.5				<0.02			8.7	
	2010-08-24			<0.02	<0.02	37.5				<0.02			8.8	
	2011-05-31			<0.02	<0.02	39.8				<0.02			9.0	
	2011-08-23 2012-05-16			<0.02 <0.02	<0.02 <0.02	39.6 41.5				<0.02 <0.02			8.9 9.0	
	2012-03-10			<0.02	<0.02	41.7				<0.02			9.1	
	2013-05-22			<0.02	0.014	45.3				<0.02			10.2	
	2013-08-27		<0.2	<0.02	0.017	45.8	<0.005	<0.01	<0.02	<0.02	<0.0001	2.00	10.4	<0.01
	2014-05-20			<0.02	0.018	49.0				<0.02			11.0	
	2014-08-19		<0.001	<0.01	0.016	43.0	<0.001	<0.005	<0.001	<0.1	<0.0001	2.20	10.0	<0.01
	2015-05-20		.0.004	<0.01	0.018	45.0	0.0004	.0.005	.0.004	<0.02	.0.001	0.40	10.0	.0.000
	2015-08-18 2016-05-10		<0.001 0.001	<0.01 0.050	0.016 0.042	41.0 49.6	<0.0001 0.0002	<0.005 <0.005	<0.001 0.006	<0.1 1.55	<0.0001 <0.0001	2.10 2.99	9.9 12.0	<0.002 0.031
	2016-03-10		0.0007	<0.05	0.042	41.9	<0.0002	0.0019	0.00038	< 0.005	<0.0001	2.99	9.3	<0.001
	2017-05-16		0.00081	<0.05	0.0358	24.9	0.017	0.0034	0.00487	1.04	<0.00001	2.37	10.9	0.025
	2017-08-29		0.00044	<0.02	0.016	41.0	<0.00002	<0.001	0.00031	<0.060	<0.000002	4.30	9.3	<0.004
	2018-05-28		0.00057	<0.02	0.015	44.0	<0.00002	0.0013	0.001	<0.06	<0.000002	2.30	10.0	<0.004
	2018-08-22		0.00073	0.110	0.056	47.0	<0.00002	0.0013	0.00038	<0.06	<0.00002	2.50	11.0	<0.004
	2019-05-29		0.0012	<0.02	0.049	43.0	0.000023	0.0052	0.006	1.9	<0.000002	2.80	10.0	0.034
	2019-08-28		0.00074	<0.01	0.0173	42.3	0.000062 <0.000005	0.00169 <0.0005	0.00079	<0.01	<0.000005	2.53	10.6	0.0003
	2020-05-27 2020-08-19		0.00082	<0.01 <0.01	0.016 0.0154	39.3 38.5	<0.000005	<0.0005 0.00176	<0.0002	<0.01 <0.01	<0.000005 <0.000005	2.17 2.26	9.4 9.6	0.0005 0.0006
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	23
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
19/16	2010-05-18		4.3			2		0.1	5	8.20	137	<0.05	1.7	273
	2010-08-24		4.2			1		0.1	5	8.10	135	< 0.05	1.8	275
	2011-05-31		4			1		0.1	4	8.11	138	<0.05	1.9	278 279
	2011-08-23 2012-05-16		4.1			1 <1		0.1 0.12	4	7.99 8.04	142 140	<0.05 <0.05	1.6 1.9	280
	2012-08-29		4.1			<1		0.12	5	8.02	150	<0.05	2.9	290
	2013-05-22		5.3			<1		0.12	5	8.22	150	0.06	1.7	300
	2013-08-27		4.8	<0.05	<0.01	<1	<0.01	<0.1	5	8.28	160	0.05	1.6	310
	2014-05-20		5.1			2		<0.1	5	8.17	160	<0.05	1.5	300
	2014-08-19		4.4	<0.0005	<0.005	1	<0.01	0.1	5	8.15	160	<0.05	2.3	310
	2015-05-20		4.7	40 000E	40.00E	1.2	40.04	<0.1	6	7.75	160	<0.05	1.7	160
	2015-08-18 2016-05-10		4.3 5.1	<0.0005 0.002	<0.005 0.01	1.2	<0.01 0.005	<0.1 0.14	6.7 5.79	8.12 8.12	150 149	<0.05 0.03	1.4 2.3	300 291
	2016-08-11		4.1	<0.002	0.01	<0.50	<0.002	0.14	5.79	8.29	139	0.0069	1.8	281
	2017-05-16		4.6	0.0203		1	<0.010	0.24	7.8	8.16	141	<0.015	0.9	278
	2017-08-29		4.3	<0.0002	<0.003	8.0	<0.010	0.22	7.8	8.25	140	0.015	<1.0	287
	2018-05-28		4.6	<0.0002	<0.003	0.7	<0.01	0.19	6.1	8.35	152	<0.015	<0.50	290
	2018-08-22		5.7	<0.0002	<0.003	1.5	0.2	0.2	5.8	8.20	144	0.15	1.5	285
	2019-05-29		4.8	0.0025	0.0092	1.6	0.18	0.78	5.7	8.13	140	0.034	1.5	290
	2019-08-28		4.7	<0.00005	0.0026	0.6	<0.010	0.158	4.58	8.19	158	<0.02	2.0	292
	2020-05-27 2020-08-19		4.2	<0.00005 <0.00005	<0.001 <0.001	0.5	<0.01 <0.01	0.143	4.95 4.9	8.31 8.12	280 151	0.016 <0.0075	2.6 2.1	280 276
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond	<u>~0.0073</u>	۷.۱	2/0
	ODWQS -		500							6.5 - 8.5				
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
19/16	2010-05-18		186			6				8.07	274			
	2010-08-24		180			8				11.42	222			
	2011-05-31 2011-08-23		172			7				6.83	302			
	2011-08-23		190 142			<4 10				7.05 7.95	304 320			
	2012-03-10		156			8				7.92	374			
	2012-00-291			1						7.86	317	l		
	2012-06-29		180			4.3				7.00	317			
	2013-05-22 2013-08-27		310	0.110	0.32	<4	<2	290	<0.001	7.80	337			
	2013-05-22 2013-08-27 2014-05-20		310 186			<4 6.3		290		7.80 8.08	337 253			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19		310 186 176	0.110	0.32	<4 6.3 <4	<2		<0.001	7.80 8.08 8.33	337 253 300			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20		310 186 176 160	0.380	0.19	<4 6.3 <4 <4	<2 <2	290 390	<0.001	7.80 8.08 8.33 7.60	337 253 300 279			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18		310 186 176 160 198	0.380	0.19	<4 6.3 <4 <4 <4	<2 <2 <2 <2	390	<0.001	7.80 8.08 8.33 7.60 6.86	337 253 300 279 272			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18 2016-05-10		310 186 176 160 198 124	0.380 0.120 0.110	0.19 0.16 0.29	<4 6.3 <4 <4 <4 17	<2 <2	390 276	<0.001 <0.001 0.004	7.80 8.08 8.33 7.60	337 253 300 279			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18		310 186 176 160 198	0.380	0.19	<4 6.3 <4 <4 <4	<2 <2 <2 <2 <3	390	<0.001	7.80 8.08 8.33 7.60 6.86	337 253 300 279 272			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18 2016-05-10 2016-08-31		310 186 176 160 198 124 166	0.380 0.120 0.110 0.054	0.19 0.16 0.29 0.216 <0.015 0.42	<4 6.3 <4 <4 <4 17 44	<2 <2 <2 <3 <6	390 276 222	<0.001 <0.001 0.004 <0.0010	7.80 8.08 8.33 7.60 6.86 7.71	337 253 300 279 272 216			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16 2017-08-29 2018-05-28		310 186 176 160 198 124 166 142 158	0.380 0.120 0.110 0.054 0.093 0.071 0.120	0.19 0.16 0.29 0.216 <0.015 0.42 0.2	<4 6.3 <4 <4 <4 17 44 27 10 11	<2 <2 <2 <3 <6 <3 6 <3 <6 <3	390 276 222 221 422 617	<0.001 <0.001 0.004 <0.0010 0.0033 <0.002 0.0042	7.80 8.08 8.33 7.60 6.86 7.71 8.32 6.93 7.46	337 253 300 279 272 216 237 216 237			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2016-05-10 2016-08-31 2017-05-16 2017-08-29 2018-05-28 2018-08-22		310 186 176 160 198 124 166 142 158 160	0.380 0.120 0.110 0.054 0.093 0.071 0.120 0.190	0.19 0.16 0.29 0.216 <0.015 0.42 0.2 0.12	<4 6.3 <4 <4 <4 17 44 27 10 11 14	<2 <2 <2 <3 <6 <3 <6 <3 <6	390 276 222 221 422 617 177	<0.001 <0.001 0.004 <0.0010 0.0033 <0.002 0.0042 <0.002	7.80 8.08 8.33 7.60 6.86 7.71 8.32 6.93 7.46 8.36	337 253 300 279 272 216 237 216 237 223			
	2013-05-22 2013-08-27 2014-05-20 2014-08-19 2015-05-20 2015-08-18 2016-05-10 2016-08-31 2017-05-16 2017-08-29 2018-05-28		310 186 176 160 198 124 166 142 158	0.380 0.120 0.110 0.054 0.093 0.071 0.120	0.19 0.16 0.29 0.216 <0.015 0.42 0.2	<4 6.3 <4 <4 <4 17 44 27 10 11	<2 <2 <2 <3 <6 <3 6 <3 <6 <3	390 276 222 221 422 617	<0.001 <0.001 0.004 <0.0010 0.0033 <0.002 0.0042	7.80 8.08 8.33 7.60 6.86 7.71 8.32 6.93 7.46	337 253 300 279 272 216 237 216 237			

Notes: Bold denotes exceedance of ODWQS (2006) criteria

0.220

0.052

190

180

0.139

0.048

22

<20

<2

<2

198

116

<0.001

<0.001

8.19

8.19

186

213

2020-08-19 NA - Not Analyzed

2020-05-27

21/7 2001-06-01 0.062 0.297 25.7 2001-08-01 < 0.001 < 0.001 0.014 0.029 27.5 < 0.001 < 0.001 < 0.001 2002-08-06 0.002 0.023 0.054 35.8 < 0.001 0.003 0.0150 2003-05-21 0.020 0.043 28.9 2003-08-06 < 0.002 0.019 0.042 29.4 < 0.0001 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.00	Fe Hg 0.3 0.001 mg/L 0.27 0.45 < 0.001 1.88 < 0.001 0.03 < 0.00005 0.04 < 0.03 < 0.0001 < 0.03 < 0.0001 < 0.001 < 0.05 < 0.005 < 0.0001 < 0.05 < 0.0001 < 0.0001 < 0.05 < 0.0001 < 0.0001 < 0.05 < 0.0001 < 0.0001	mg/L 2.80 2.80 4.02 3.10	mg/L 7.2 5.9 9.1 6.5 7.0 6.1	0.05 mg/L 0.071 0.103
21/7 2001-06-01 0.062 0.297 25.7	0.27 0.45 < 0.001 1.88 < 0.001 0.03 < 0.03 < 0.00005 0.04 < 0.03 < 0.0001 < 0.05 < 0.0001 < 0.05 < 0.0001 < 0.02 < 0.0001	2.80 2.80 4.02 3.10	7.2 5.9 9.1 6.5 7.0 6.1	0.071
2001-08-01 < 0.001	0.45 < 0.001	2.80 4.02 3.10 2.90	5.9 9.1 6.5 7.0 6.1	
2002-08-06 0.002 0.023 0.054 35.8 < 0.001	1.88 < 0.001	3.10 2.90	9.1 6.5 7.0 6.1	
2003-05-21 0.020 0.043 28.9 2003-08-06 < 0.002	0.03	3.10	6.5 7.0 6.1	0.103
2003-08-06 < 0.002	<0.03 < 0.00005 0.04 <0.03 < 0.0001 <0.05 <0.05 <0.05 <0.02 <0.05 <0.001	2.90	7.0 6.1	
2004-05-26 0.020 0.032 26.0 2004-08-24 < 0.002	0.04 < 0.03 < 0.0001 < 0.05 < 0.05 < 0.0001 < 0.02 < 0.05 < 0.0001	2.90	6.1	
2004-08-24 < 0.002	< 0.03 < 0.0001 < 0.05 < 0.05 < 0.0001 < 0.02 < 0.05 < 0.0001			
2005-08-03 0.022 0.034 27.0 2005-09-01 < 0.001	< 0.05 < 0.05 < 0.02 < 0.05 < 0.0001		6.5	0.056
2005-09-01 < 0.001	< 0.05 < 0.0001 < 0.02 < 0.05 < 0.0001	2.50	6.0	0.000
2006-05-16 < 0.02	< 0.02 < 0.05 < 0.0001	3.50	7.4	0.069
2007-05-15 < 0.02			5.6	
14/08/2007 0.001 0.018 0.037 33.0 < 0.0001 < 0.001 < 0.001 2008-05-21 < 0.02	< 0.02	3.20	6.8	
2008-05-21			6.0	
2008-08-19 < 0.001 0.021 0.034 29.0 < 0.0001 < 0.005 < 0.001 <	< 0.02 < 0.0001	3.70	7.3	
	< 0.02		5.6	
2009-05-19	< 0.02 < 0.0001	3.20	7.4	0.055
	<0.02 <0.02	2.20	5.6	0.046
	<0.02	3.20	6.8	0.046
2010-03-16 0.02 0.03 20.0 2010-08-24 No Recovery	~0.02		0.1	
	<0.02		6.4	
	<0.1 <0.0001	3.30	7.2	0.042
	<0.02		6.6	
2012-08-29	<0.1 <0.0001	3.30	7.3	0.028
	<0.06 <0.000002	3.40	6.6	0.040
Monitor Date QA/QC Na Pb Zn CI- NO2-N NO3-N SO4	pH alk42	NH3-N	DOC	Th Cond
	5.5 - 8.5		5.0	
Units - mg/L mg/L mg/L mg/L mg/L mg/L mg/L	n/a mg/L	mg/L	mg/L	μS/cm
	8.05 110 7.89 100	< 0.10 < 0.10	4.5 2.2	230 210
	7.89 100 8.12 118	0.08	1.6	220
	7.90 106	< 0.03	2.3	227
	7.90 100	0.06	2.8	227
	7.95 93	0.03	2.4	187
	8.00 111	0.07	2.1	223
	8.19 110	0.11	3.1	208
2005-09-01 6.9 < 0.0005 0.0058 < 1 < 0.3 < 0.2 6.0	8.03 120	0.07	2.5	217
2006-05-16 6.1 1 < 0.1 6.0	8.20 121	< 0.05	1.9	230
	8.10 123	0.09	2.4	223
	8.00 113	< 0.05	2.4	229
	8.00 118	0.08	2.4	217
	8.00 113	< 0.05	1.9	228
	8.20 115 7.10 83	< 0.05	2.6	230 206
	7.10 83 7.80 119	0.06 0.14	2.3	230
	8.10 111	0.14	2.1	234
2010-08-24 No Recovery	0.10	0.10	2.1	204
	8.02 103	0.09	2.4	211
2011-08-23 6.3 <0.0005 <0.005 2 <0.01 <0.1 7.0	8.02 114	<0.05	2.4	231
2012-05-16 6.1 <1 <0.1 6.0	7.84 110	<0.05	2.5	230
2012-08-29 6.3 <0.0005 <0.005 1 <0.01 <0.1 6.0	7.76 120	<0.05	3.5	230
	8.08 98.9	0.06	1.8	204
	ield pH Field Cond	-		
	5.5 - 8.5			
Units - mg/L mg/L mg/L mg/L mg/L mg/L mg/L l	mg/L μS/cm	4		
2001-06-01 149 < 20 < 1 2001-06-01 230 0.26 0.01 22 15.00 < 0.001		1		
2002-08-06 180 < 0.05 56 1 6.52 < 0.001	8.3 180	1		
	7.9 170			
2003-08-06 160 0.19 < 0.05 11 < 0.5 8030	7.7 160			
2004-05-26 156 9	6.9 40			
2004-08-24 142 0.20 3.54 12 < 0.001	6.7 NA			
2005-08-03 350 64 < 3 410	3.9 170			
2005-09-01 220 0.80 7.50 36 < 0.001	6.1 200	4		
2006-05-16 154 < 4 < 2 8000	8.2	4		
	8.23	1		
	8.35 8.11 221	-		
	8.11 221	1		
	8.39	1		
	7.91 230	1		
	8.19 222	1		
2010-05-18 162 85				
2010-08-24 No Recovery				
2011-05-31 124 20	6.8 246			
	6.25 245			
	7.53 229			
	7.76 260			
2012-08-29		1		

Notes: Bold denotes exceedance of ODWQS (2006) criteria

NA - Not Analyzed

Monitor	Data	QA/QC	۸۵	В	D ₀	Ca	Cd	Cr	Cu	Ea	Ua	K	Ma	Mn
Monitor	Date ODWQS -	QA/QC	0.025	B	<u>Ва</u> 1	Ca	0.005	0.05	1 1	Fe 0.3	Hg 0.001	N.	Mg	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23/3	2010-05-18		J.	< 0.02	< 0.02	24	J.	<u> </u>	J.	< 0.02			5.5	J.
	2010-08-24			< 0.02	< 0.02	22				< 0.02			5.4	
	2011-05-31			<0.02	<0.02	29				<0.02			6.3	
	2011-08-23			<0.02	<0.02	25				<0.02			5.5	
	2012-05-16			<0.02	<0.02	27				<0.02			5.8	
	2012-08-29 2013-05-22			<0.02 <0.02	<0.02 0.016	25 28				<0.02 <0.02			5.5 6.3	
	2013-05-22		<0.2	<0.02	0.016	27	<0.005	<0.01	<0.02	<0.02	<0.0001	2	6.3	<0.01
	2014-05-20		٦٥.٧	1.90	0.54	190	10.000	١٥.٥٠	10.02	34	VO.0001		81.0	10.01
	2014-08-19		0.0014	0.13	0.045	39	<0.001	<0.005	<0.001	<0.1	<0.0001	14	11.0	0.2
	2015-05-20			0.12	0.046	40				<0.02			13.0	
	2015-08-18		0.0120	0.09	0.042	34	<0.0001	<0.005	<0.001	<0.1	0.00058	8.8	9.1	0.2
	2016-05-10		0.0120	1.28	0.367	132	0.0004	0.027	0.0383	56.5	<0.0001	76	52.2	1.3
	2016-08-31		0.0008	0.37	0.0653	48	0.00002	<0.001	0.00197	0.01	<0.00001	23	14.1	0.1
	2017-05-16		0.0643	0.17	0.00643	47	0.00026	0.0123	0.0357	14.9	<0.00001	14	16.7	0.2
	2017-08-29 2018-05-28		0.0008 0.0011	0.55 1.10	0.097 0.18	68 190	<0.00002 <0.00002	<0.001 <0.001	0.0005 <0.0002	0.1 5.0	<0.000002 <0.000002	32 72	24.0 66.0	0.3 1.4
	2018-08-22		0.0001	0.21	0.16	56	<0.00002	<0.001	<0.0002	< 0.06	<0.000002	15	16.0	0.2
	2019-05-29		0.0024	1.50	0.22	130	0.00011	0.014	0.018	42.0	0.000034	90	48.0	1.7
	2019-08-28		0.0024	1.06	0.16	111	0.0000089	0.00037	0.00164	0.02	<0.000005	88	47.4	0.5
	2020-05-27		0.0006	0.48	0.0809	74	0.00000083	<0.0005		0.03	<0.000005	13	21.6	0.3
	2020-08-19		0.0038	0.68	0.117	112	0.0000051	0.00086	<0.0002	0.6	<0.000005	59	27.3	0.7
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10	500	6.5 - 8.5	500	/	5.0	
23/3	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	µS/cm
23/3	2010-05-18 2010-08-24		3.5 3.3			1		0.1	8	8.10 8.10	85 86	0.5	1.3 2.1	184 186
	2010-08-24		3.5			1		0.2	9	8.06	87	0.43	1.4	189
	2011-08-23		3.4			2		0.1.	9	7.70	89	<0.05	1.5	189
	2012-05-16		3.7			1		<0.1	8	7.93	95	<0.05	1.4	200
	2012-08-29		3.4			<1		0.12	8	7.36	90	0.14	2.2	190
	2013-05-22		4.7			2		<0.1	11	8.04	93	0.22	2.0	200
	2013-08-27		4	<0.05	<0.01	2	<0.01	<0.1	6	7.89	93	<0.05	1.8	200
	2014-05-20		72			110		<0.1	300	7.30	750	11	97.0	2200
	2014-08-19		7.4	<0.0005	<0.005	9	<0.01	<0.1	25	7.78	150	0.54	4.6	360
	2015-05-20		8.9 6.5	<0.0005	<0.00E	10 5.1	<0.01	<0.1 <0.1	22 27	7.35 7.53	150 120	0.47 0.77	4.5 4.2	268 290
	2015-08-18 2016-05-10		31.9	0.00	<0.005 0.188	27	<0.01	<0.1	15.3	7.67	577	5.4	15.2	1150
	2016-08-31		10	<0.00002	0.100	6.7	0.002	0.042	22	8.15	194	1.2	8.1	439
	2017-05-16		8.53	0.0115		4.3	<0.010	0.068	14	7.66	203	0.7	3.7	422
	2017-08-29		14	<0.0002	<0.003	8.6	0.015	0.048	35	7.88	280	3.1	<13	626
	2018-05-28		29	<0.0002	<0.003	26	0.011	0.017	18	7.62	681	5.7	14.0	1260
	2018-08-22		8.4	<0.0002	<0.003	4	0.019	0.059	12	7.74	205	0.85	4.7	422
	2019-05-29		25	0.0043	0.037	13	0.011	0.055	28	7.41	500	6.8	11.0	1100
	2019-08-28		25.3	<0.00005	0.0015	8.3	0.011	0.065	28	7.44	399	7.35	18.4	792
	2020-05-27 2020-08-19		13.3 15.9	<0.00005 <0.00005	0.0102 0.0026	5.8 7.3	<0.01 <0.01	<0.02 <0.02	11 5	7.78 7.24	317 409	3.4 4.38	13.6 35.0	585 726
Monitor		QA/QC	Th TDS	TKN	Total P	COD	₹0.01 BOD	<0.02	Phenols	Field pH	Field Cond	4.30	33.0	120
	ODWQS -	Q/1/Q(U	500	7144	. Juli	305	203	100	1 11011013	6.5 - 8.5	7 IOIG CONG			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
23/3	2010-05-18		122			1800				7.92	170			
	2010-08-24		120			310				8.07	200			
	2011-05-31		118 136			740 25				7.01 6.44	209 204			
	2011-08-23 2012-05-16		136			45				7.82	204			
	2012-03-10		142			100				7.73	250			
	2013-05-22		216			220				7.92	226			
	2013-08-27		182	2.2	1.8	52	<2	2700	<0.001	7.41	246			
	2014-05-20		1560	4.0	0.00	380			0.0050	6.99	1130			
	2014-08-19 2015-05-20		222 268	1.2	0.69	34 29	<2 <2	740	0.0052	7.32 6.10	331 522			
	2015-03-20		200	1	2.5	69	<2	1 +0	0.095	6.22	375			
	2016-05-10		624	7.53	1.86	189	23	2660	0.0208	6.89	549			
	2016-08-31		222	4.77	2.38	221	<6	1580	0.0016					
	2017-05-16		264	2	1.1	56	10	2250	0.004	7.68	263			
	2017-08-29		344	4.9	2.1	46	62	3960 9230	<0.001	6.38	485			
	2018-05-28 2018-08-22		732 280	7.2	2.7	92 120	31 21	3060	0.011 0.0048	4.92 7.67	489 297			
	2019-05-29		690	13	2.7	270	12	5700	0.0046	6.96	516			
	2019-08-28		497	10	1.85	60	8.2	1370	0.011	8.10	479			
	2020-05-27		360	4.87	0.438	71	16.2	4000	<0.001	7.32	310			
	0000 00 40		507	8.11	0.824	209	8.7	7180	0.0032	7.73	401			
Notes:	2020-08-19 Bold denotes excee				0.02.									

Bold denotes exceedance of ODWQS (2006) criteria Notes:

NA - Not Analyzed

					_			_	_					
Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24/5	2010-05-18			< 0.02	0.03	16.1				<0.02			6.7	
	2010-08-24			< 0.02	0.03	16.0				< 0.02			6.6	
	2011-05-31			< 0.02	0.03	15.7				0.03			6.4	
	2011-08-23			< 0.02	0.02	16.0				< 0.02			6.4	
	2012-05-16			<0.02	0.03	16.4				<0.02			6.7	
	2012-08-29			<0.02	0.03	17.0				0.02			6.5	
	2013-05-22			<0.02	0.03	17.2				0.06			7.1	
	2013-03-22			\0.02	0.03	17.2				0.00			7.1	
	2014-05-20		0.004	0.04	0.000	45.0	0.004	0.005	0.0044	0.4	0.0004	0.0		
	2014-08-19		<0.001	<0.01	0.026	15.0	<0.001	<0.005	0.0041	<0.1	<0.0001	2.3	6.5	0.24
	2015-05-20			<0.01	0.026	15.0				<0.02			6.7	
	2015-08-18		<0.001	<0.01	0.026	15.0	<0.0001	<0.005	0.0046	<0.1	<0.0001	2.1	7.0	0.24
	2016-05-10		0.002	0.075	0.08	21.7	0.0001	0.006	0.021	9.7	<0.0001	5.2	8.9	0.41
	2016-08-31		0.00043	0.092	0.0435	18.4	0.000046	<0.001	0.00639	0.0223	< 0.00001	5.6	7.7	0.17
	2017-05-16		0.0012	< 0.05	0.0562	16.5	0.000072	0.0039	0.0202	3.18	<0.00001	3.73	7.6	0.35
	2017-08-29		0.00059	0.075	0.039	18.0	<0.00002	<0.001	0.0064	0.081	<0.000002	6.5	7.0	0.30
	2018-05-28		<0.0002	0.058	0.038	19.0	0.0001	<0.001	0.025	<0.06	<0.000002	4.8	7.6	0.23
	2018-08-22		0.00044	0.110	0.056	22.0	<0.00002	<0.001	0.0012	<0.06	<0.00002	9.5	7.9	0.36
	2019-05-29		0.0021	0.220	0.13	30.0	0.000021	0.015	0.31	10	0.000004	15	12.0	0.76
					0.13			0.013						
	2019-05-29		0.0039	0.140		29.0	0.00011		0.05	24	0.0000081	14	15.0	0.75
	2019-08-28	1	0.00058	0.243	0.0903	24.4	0.000144	0.00032	0.0916	0.037	<0.000005	21.4	7.2	0.17
	2020-05-27		0.00053	0.054	0.0353	16.3	0.00008	<0.0005	0.00-	0.103	<0.000005	6.23	6.1	0.07
	2020-08-19		0.00107	0.445	0.0639	35.8	0.000127	0.00065	0.0921	0.275	<0.00005	25	14.8	0.43
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
24/5	2010-05-18		5.8			1		< 0.01	5	7.60	78	0.07	4.0	164
	2010-08-24		5.9			<1		0.4	5	7.50	78	<0.05	4.4	106
	2011-05-31		5.3			1		<0.1	7	7.44	73	<0.05	0.5	156
	2011-08-23		5.7			<1		<0.1	5	7.25	78	<0.05	4.1	166
	2012-05-16		6.1			<1		<0.1	6	7.21	77	<0.05	4.9	100
	2012-03-10		5.8			<1		<0.1	5	6.96	80	0.16	5.8	170
	2013-05-22		6.9			7		<0.1	5	7.56	75	0.10	4.3	160
	2013-08-27													
	2014-05-20													
	2014-08-19		6.1	<0.0005	<0.005	<1	<0.01	<0.1	5	7.33	75	0.065	6.2	160
	2015-05-20		7.1			<1		<0.1	5	6.64	90	< 0.05	4.4	160
	2015-08-18		6.8	<0.0005	0.0052	<1	<0.01	<0.1	5.6	7.16	75	< 0.05	4.1	160
	2016-05-10		13.7	0.006	0.004	2.7	< 0.01	0.1	10.6	7.53	92	0.15	5.0	214
	2016-08-31		12.8	< 0.0002		1.8	< 0.002	0.03	11	7.91	98.9	0.22	6.9	223
	2017-05-16		8.78	0.00403		1.1	<0.010	0.021	5.3	7.36	83.7	0.048	4.5	177
	2017-08-29		37.0	<0.0002	0.011	2.4	<0.010	0.35	8.6	7.56	128	0.21	5.8	282
	2017-00-23		14.0	<0.0002	0.048	1.2	<0.010	0.039	4.8	7.30	94.8	0.03	4.1	195
	2018-08-22		19.0	<0.0002	<0.003	1.8	<0.010	<0.010	3.3	7.39	133	0.14	4.9	273
	2019-05-29		16.0	0.052	0.3	11	<0.0099	0.018	8.7	7.35	130	0.86	11.0	290
	2019-05-29	· ·	15.0	0.012	0.072	9.8	0.011	0.024	8.7	7.23	120	0.63	9.8	260
	2019-08-28		15.0	0.000938	0.441	2.2	<0.010	<0.020	3	7.04	120	0.166	13.1	236
	2020-05-27		50.7	0.0011	0.223	2.0	<0.01	<0.02	7.4	7.58	184	1.25	8.3	341
	2020-08-19		32.5	0.00314	0.271	3.8	<0.01	0.026	10.7	7.10	200	0.764	19.9	386
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -		500							6.5 - 8.5				
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
24/5	2010-05-18		112			17				7.45	103	1		
	2010-08-24		106			15				11.08		1		
	2010-00-24		102			9				6.90	196	1		
	2011-03-31		138			5				6.45	172			
	2011-06-23		232			22	1			7.51	155			
												-		
	2012-08-29		184			11	-			7.19	229	4		
	2013-05-22		162			10				7.59	132			
	2013-08-27						<u> </u>			7.26	226			
	2014-05-20													
	2014-08-19		288	3.4	1.6	7.5	< 2		< 0.001	7.33	160]		
	2015-05-20		236			6.7	<2	980		6.05	145			
	2015-08-18		228	0.15	0.64	8.1	<2		<0.001	7.0	155]		
	2016-05-10		146	0.77	0.48	45	<6	1180	0.0026	7.3	183	Ī		
	2016-08-31		178	0.731	1.4	108	<6	1410	<0.001			İ		
	2010-06-31		144	0.731	0.39	24	<3	928	0.0041	7.7	166			
	2017-05-16		204	0.59	0.59	47	9	798	<0.0041	6.1	270			
												ł		
	2018-05-28		176	0.47	0.9	38	<6	1010	<0.002	6.9	213			
	2018-08-22		234	0.53	1.1	63	<6	1310	0.0035	7.7	223			
	2019-05-29		220	2.7	0.27	63	4.3	910	0.0025	7.5	263			
	2019-05-29	Duplicate	190	2.1	1	59	5.2	1100	0.0091	7.5	263			
	2019-08-28		216	1.6	0.497	42	<2	917	0.0071	8.1	479			
	2020-05-27		231	1.42	0.305	51	2.5	845	0.0065	7.8	246	1		
Ī												1		
	2020-08-19		311	2 83	0.469	101	4.9	866	< 0.001	7.6	310			

Notes: Bold denotes exceedance of ODWQS (2006) criteria

2.83

0.469

4.9

<0.001

7.6

NA - Not Analyzed

2020-08-19

Monitor	Date	QA/QC	As	В	Ва	Са	Cd	Cr	Cu	Fe	Hg	K	Mq	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
KGS-2	2010-05-18			< 0.02	0.030	39.0				< 0.02			8.5	
	2010-08-24			< 0.02	0.040	35.3				< 0.02			8.2	
	2011-05-31			<0.02	0.050	45.4				<0.05			8.8	
	2011-08-23			<0.02	0.040	41.0				<0.03 <0.02			8.2 12.6	
	2012-05-16 2013-05-22			<0.02 <0.02	0.060 0.051	60.5 51.8				<0.02			10.9	
	2013-03-22		<0.2	<0.02	0.031	46.9	<0.005	<0.01	<0.02	<0.02	<0.0001	4	10.9	0.34
	2014-05-20		10.2	<0.02	0.037	46.0	10.000	10.01	10.02	<0.02	40.0001	-	9.7	0.04
	2014-08-19		<0.001	<0.01	0.037	44.0	<0.001	<0.005	<0.001	<0.1	<0.0001	4.2	9.7	0.24
	2015-05-20			<0.01	0.043	54.0				<0.02			11.0	
	2015-08-18		<0.001	<0.02	0.042	53.0	<0.001	<0.005	<0.001	<0.1	<0.0001	4.5	1.2	0.28
	2016-05-10		0.001	0.050	0.128	53.8	<0.001	0.015	0.024	14.8	<0.0001	7.1	15.0	0.63
	2016-08-31 2017-05-16		<0.001 0.00102	0.050 <0.050	0.049 0.188	69.3 36.6	<0.00005 0.00013	<0.001 0.0138	0.00044 0.025	<0.005 13.6	<0.00005 <0.00001	5.1 6.5	14.3 13.8	0.11 0.60
	2017-03-16		<0.00102	<0.030	0.186	36.0	<0.00013	<0.001	0.0025	< 0.06	<0.00001	4.0	7.4	0.07
	2018-05-28		<0.0002	<0.02	0.031	37.0	<0.00002	<0.001	0.0023	<0.06	<0.000002	4.3	8.1	0.07
	2018-08-22		<0.0002	<0.02	0.033	36.0	<0.00002	<0.001	0.0007	<0.06	<0.000002	4.3	7.6	0.09
	2019-05-29		0.0022	<0.02	0.150	41.0	0.00010	0.027	0.029	18	<0.000002	6.4	11.0	0.60
	2019-08-28		0.00019	<0.01	0.030	34.6	0.00001	<0.0001	0.00053	<0.01	<0.000005	4.4	8.1	0.02
	2020-05-27		0.0048	0.151	0.243	207	<0.0005	<0.0005		0.02	<0.000005	9.9	54.3	0.21
	2020-08-19		0.00046	0.284	0.302	251	0.00001	0.00075	0.00035	0.041	0.000086	11.2	67.0	0.35
Monitor	Date ODWQS -	QA/QC	Na 200	Pb 0.01	Zn 5	CI- 250	NO2-N	NO3-N 10	SO4 500	pH 6.5 - 8.5	alk42 500	NH3-N	DOC 5.0	Th Cond
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 n/a	mg/L	mg/L	mg/L	μS/cm
KGS-2	2010-05-18		3.8	mg/L	mg/L	9	mg/L	< 0.01	52.0	8.00	82	0.14	1.7	303
	2010-08-24		9.6			7		< 0.01	40.0	8.00	85	< 0.05	2.2	291
	2011-05-31		3.9			5			34.0	7.97	108	0.12	2.0	306
	2011-08-23		4.2			9		<0.01	43.0	7.92	93	<0.05	2.2	288
	2012-05-16		5.4			11		<0.01	67.0	7.49	130	0.09	3.5	420
	2013-05-22		5.6	.0.05	.0.04	11	.0.04	<0.10	67.0	8.03	97	0.26	2.4	370
	2013-08-27 2014-05-20		4.5 4.7	<0.05	<0.01	10 7	<0.01	<0.10 <0.1	67.0 46.0	7.89 7.76	83 100	<0.05 0.07	2.9	340 310
	2014-03-20		4.1	<0.0005	<0.005	7	<0.01	<0.1	53.0	8.02	94	0.07	2.4	320
	2015-05-20		4.7	10.0000	10.000	13	-0.01	<0.1	89.0	7.17	88	<0.05	2.2	390
	2015-08-18		4.7	<0.0005	<0.005	14	<0.01	<0.1	97.0	7.86	83	0.11	2.8	390
	2016-05-10		4.8	0.02	0.044	7	<0.002	<0.020	50.8	8.03	101	0.05	2.3	306
	2016-08-31		4.7	<0.0002		8	<0.00002	<0.00002	25.0	8.35	204	0.04	3.0	445
	2017-05-16		4.5	0.0243		3	<0.033	0.1	25.0	8.21	104	0.07	2.5	259
	2017-08-29 2018-05-28		3.6 3.9	<0.0002 <0.0002	<0.003 <0.003	1	<0.010 <0.010	0.017 0.027	22.0 21.0	8.31 8.17	100 104	0.04 0.02	1.3 <0.50	251 229
	2018-03-28		3.8	<0.0002	<0.003	2	<0.010	<0.044	20.0	7.97	97	0.02	2.9	230
	2019-05-29		4.4	0.014	0.003	2	<0.0099	0.023	22.0	8.09	99	<0.015	1.2	240
	2019-08-28		3.9	<0.00005	<0.001	1	<0.010	<0.020	19.6	7.92	113	0.03	3.3	257
	2020-05-27		34.6	0.000055	0.002	39	<0.02	<0.04	13.4	7.98	536	0.04	21.0	1020
	2020-08-19		46	0.000086	0.002	80	<0.05	<0.10	5.8	7.04	1070	0.06	24.0	1980
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois		Field Cond			
	ODWQS - Units -		500 mg/L	mg/L	mg/L	mg/L	mg/L	ma/l	mg/L	6.5 - 8.5	μS/cm			
KGS-2	2010-05-18		204	mg/L	mg/L	10	mg/L	mg/L	mg/L	mg/L 7.79	404			
	2010-08-24		184			16				8.00				
	2011-05-31		192			15				6.99	364			
	2011-08-23		20			<4		_		6.32	301			
	2012-05-16		262			32				7.33	491			
	2013-05-22		306	0.40	0.75	48	-22	1400	ZO 001	7.36	448			
	2013-08-27 2014-05-20		256 292	0.49	0.75	<4 10	<2	1400	<0.001	7.66 7.69	413 284			
	2014-03-20		234	2.60	1.2	11	<2		<0.001	7.09	337			
	2015-05-20		266			13	<2	570	3.001	8.22	348			
	2015-08-18		286	0.27	1.7	20	<2		<0.001	6.85	359			
	2016-05-10		154	0.39	0.742	41	<3	1150	0.0023	7.50	240			
	2016-08-31		264	0.31	0.97	62	<6.0		0.001					
	2017-05-16		160	0.62	1.1	25	<3	2060	0.0027	8.40	214			
	201 / 00 20	1	190	0.39	1.8 1.1	59 35	<3	4570	<0.002 0.0033	6.60	240			
	2017-08-29		100			1.7	<6	1700	เ บ.บบจจ	7.17	183	ı		
	2018-05-28		198 174	0.50			<6	1200			210			
	2018-05-28 2018-08-22		174	0.39	1.8	94	<6 <2	1200 1700	<0.002	8.07	219 196			
	2018-05-28						<6 <2 <2	1200 1700 2220	<0.002 0.0023 <0.01		219 196 193			
	2018-05-28 2018-08-22 2019-05-29 2019-08-28 2020-05-27		174 160	0.39 0.45	1.8 0.23 0.356 0.995	94 45	<2 <2 2.4	1700	<0.002 0.0023	8.07 8.08	196 193 313			
Notes:	2018-05-28 2018-08-22 2019-05-29 2019-08-28		174 160 195 599 1240	0.39 0.45 0.22 0.88 1.03	1.8 0.23 0.356	94 45 <20	<2 <2	1700 2220	<0.002 0.0023 <0.01	8.07 8.08 8.35	196 193			

2020-08-19 1240 1.03

Bold denotes exceedance of ODWQS (2006) criteria

NA - Not Analyzed



APPENDIX E

Ground Water Levels

		Surface	Trigger	Background				Groun	d Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	01-May-02	01-Jun-02	01-Jul-02	01-Aug-02	01-Sep-02	01-Oct-02	01-May-03	01-May-04	01-Aug-04
1/17	Till	351.44		350.87	350.66			350.23			350.74	350.74	NA
2/9	Till	351.07		350.08	350.32	350.26	350.17	350.16	350.32	349.62	349.62	350.62	350.36
2/13	Bedrock	350.85		350.06	350.10			349.93			350.18	350.35	350.15
3/8	Till	351.51		350.44	349.86	350.17	350.06	350.06	350.36	350.30	350.34	350.51	350.21
4/6	Till	351.48		350.36	350.13			349.93			349.79	350.18	350.08
5/17	Till / Bedrock	370.13	361.75	355.57	353.08	352.82	352.63	N/A	352.43	352.58	353.59	353.83	357.10
6/5	Till	351.09		349.90	349.77			349.55			349.71	349.97	349.87
11/4	Till	366.45	366.45		361.36	361.34	361.41	N/A	361.34	362.11	361.95	363.85	363.19
13/6	Till	355.02			348.62	348.90	348.90	348.81	349.09	349.58		350.37	350.26
13/14	??	354.72			349.27	350.00	349.15	348.72	349.62	349.87		351.22	350.63
14/6	Till	348.91			346.07	346.50	346.48	346.33	346.91	347.66		348.19	347.92
14/21	??	348.68			345.18	345.50	345.45	345.30	345.92	346.53		347.18	346.91
15/5	Till	352.17			350.50	349.80	350.37	350.38	349.80	350.88		351.42	350.73
15/17	??	352.08			350.58	350.60	350.47	350.47	350.85	350.83		351.99	350.80
16/15	??	362.25	362.25		350.37	350.07	349.95	349.94		350.27	350.51	350.55	351.04
17/15	??	359.99			350.37			350.14			350.72	350.99	351.79
19/6	Till	364.15	364.15		357.60	357.54	364.15	N/A			357.54	357.45	dry
23/3	Peat	351.19			350.33			350.12			350.46	350.39	351.00
24/5	Till	352.01			350.56			350.80			350.89	351.01	350.91
KGS-2	??	351.38		350.37	349.93			349.66			350.08	350.08	350.08

		Surface	Trigger	Background				Groun	d Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	01-Aug-05	01-Sep-05	01-Oct-05	01-May-06	01-Aug-06	01-May-07	01-Aug-07	01-May-08	01-Aug-08
1/17	Till	351.44		350.87	NA	NA	NA	350.66	350.04	350.38	351.44	348.09	no access
2/9	Till	351.07		350.08	350.23	350.32	349.62	349.95	349.77	349.82	349.85	349.64	349.79
2/13	Bedrock	350.85		350.06	350.13	350.13	350.14	350.10	349.93	350.06	350.02	350.30	350.07
3/8	Till	351.51		350.44	350.19	350.13	350.16	350.17	349.80	350.12	350.26	350.28	350.11
4/6	Till	351.48		350.36	350.06	350.00	350.39	350.05	349.73	350.13	350.16	349.58	350.23
5/17	Till / Bedrock	370.13	361.75	355.57	357.77	357.18	356.10	dry	dry	Dry	354.91	353.68	354.88
6/5	Till	351.09		349.90	349.79	349.75	349.79	349.73	349.02	349.65	349.75	349.84	349.55
11/4	Till	366.45	366.45		363.41	363.01	362.05	dry	dry	Dry	362.75	361.89	362.82
13/6	Till	355.02			350.22	349.90	349.52	349.41	348.67	348.56	350.50	349.10	350.10
13/14	??	354.72			350.78	350.27	350.22	350.07	348.39	349.09	350.35	348.06	350.16
14/6	Till	348.91			347.81	347.57	347.41	347.31	346.32	345.05	347.32	347.11	347.27
14/21	??	348.68			346.72	346.32	346.37	346.33	345.33	344.20	346.30	347.08	346.26
15/5	Till	352.17			350.69	350.51	350.52	350.57	350.12	349.45	350.87	350.75	350.58
15/17	??	352.08			358.59	358.57	359.53	350.66	350.26	350.56	350.82	350.78	350.67
16/15	??	362.25	362.25		352.05	352.13	351.56	350.50	350.19	349.60	350.63	350.69	350.91
17/15	??	359.99			352.47	352.09	351.53	350.58	350.23	349.72	351.40	350.59	350.99
19/6	Till	364.15	364.15		dry	353.02	dry	dry	dry	Dry	Dry	Dry	Dry
23/3	Peat	351.19			350.27	350.25	350.30	350.22	349.85	350.17	350.32	349.83	350.32
24/5	Till	352.01			350.79	350.79	351.01	350.79	350.53	350.52	350.75	350.09	350.89
KGS-2	??	351.38		350.37	350.20	350.20	349.34	349.98	349.79	349.84	no access	349.39	no access

	Water Bever	Surface	Trigger	Background				Ground	l Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	01-May-09	01-Aug-09	10-May-10	10-Aug-10	09-Jun-11	23-Aug-11	16-May-12	29-Aug-12	21-May-13
1/17	Till	351.44		350.87	no access	349.99	349.47	350.00	349.50	351.44	349.02	349.22	349.02
2/9	Till	351.07		350.08	349.86	349.84	349.74	349.74	349.72	349.67	349.57	349.57	349.57
2/13	Bedrock	350.85		350.06	350.12	350.15	350.08	350.18	350.16	350.07	350.07	350.06	350.07
3/8	Till	351.51		350.44	350.38	350.31	350.22	350.26	350.25	350.13	350.09	350.08	350.09
4/6	Till	351.48		350.36	350.85	350.58	350.52	350.54	350.52	N/A	N/A	N/A	NA
5/17	Till / Bedrock	370.13	361.75	355.57	353.28	356.27	353.65	356.05	353.58	354.68	352.43	352.73	352.43
6/5	Till	351.09		349.90	349.87	349.84	349.74	349.84	349.80	349.48	349.62	349.30	349.62
11/4	Till	366.45	366.45		362.61	363.45	362.22	363.57	362.53	362.58	361.24	361.59	361.24
13/6	Till	355.02			349.77	350.62	349.48	350.57	349.63	349.62	348.73	349.33	348.73
13/14	??	354.72			350.02	350.77	350.22	350.76	350.26	349.63	348.96	349.28	348.96
14/6	Till	348.91			347.50	348.08	347.41	347.91	347.61	346.98	346.11	346.46	346.11
14/21	??	348.68			346.55	347.03	346.43	347.86	347.56	346.00	345.16	345.49	345.16
15/5	Till	352.17			351.07	350.97	350.71	350.88	350.73	350.56	350.62	350.53	350.62
15/17	??	352.08			350.95	350.92	350.73	350.90	350.75	350.66	350.53	350.59	350.53
16/15	??	362.25	362.25		350.46	351.41	350.62	356.58	350.70	350.93	349.71	350.41	349.71
17/15	??	359.99			350.62	351.64	350.59	351.84	350.83	351.05	350.04	350.29	350.04
19/6	Till	364.15	364.15		Dry	Dry	dry	357.56	dry	dry	dry	dry	350.31
23/3	Peat	351.19			350.44	350.63	349.79	350.48	350.57	350.50	350.46	350.45	350.46
24/5	Till	352.01			341.74	351.04	350.61	351.01	351.01	350.79	350.69	350.84	350.69
KGS-2	??	351.38		350.37	351.38	no access	348.45	349.08	349.97	348.95	348.74	348.83	348.74

	Water Bever	Surface	Trigger	Background				Ground	Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	26-Aug-13	20-May-14	19-Aug-14	19-May-15	25-Aug-15	10-May-16	30-Aug-16	15-May-17	29-Aug-17
1/17	Till	351.44		350.87	349.22	348.00	348.19	347.66	347.76			350.27	348.49
2/9	Till	351.07		350.08	349.57	349.77	349.60	349.58	349.57	inacce	essible	349.67	349.65
2/13	Bedrock	350.85		350.06	350.06	350.34	350.17	350.17	350.16			350.30	350.25
3/8	Till	351.51		350.44	350.08	350.45	350.19	350.22	350.16	350.30	350.23	350.28	350.26
4/6	Till	351.48		350.36	350.08	349.90	348.94	348.98	348.98	349.43	349.41	349.37	349.34
5/17	Till / Bedrock	370.13	361.75	355.57	352.73	352.44	355.79	352.83	353.07	355.06	358.76	354.91	355.94
6/5	Till	351.09		349.90	349.30	349.93	349.67	349.75	349.54	349.86	350.08	349.89	349.81
11/4	Till	366.45	366.45		361.59	361.95	362.93	dry	361.75	363.38	363.50	362.90	362.87
13/6	Till	355.02			349.33	349.57	350.07	348.58	349.34	350.03	349.96	349.82	349.82
13/14	??	354.72			349.28	349.88	350.11	348.93	349.61	350.11	349.97	349.89	349.79
14/6	Till	348.91			346.46	346.99	347.12	345.94	346.76	347.87	347.75	347.88	347.38
14/21	??	348.68			345.49	346.10	346.07	345.04	345.73	346.80	346.73	346.84	346.38
15/5	Till	352.17			350.53	351.34	350.68	350.59	350.59	350.91	350.68	350.78	350.72
15/17	??	352.08			350.59	351.11	349.75	350.69	350.69	350.08	350.77	350.89	350.84
16/15	??	362.25	362.25		350.41	350.35	350.95	350.27	350.42	351.05	353.17	351.24	351.49
17/15	??	359.99			350.29	350.47	351.52	350.17	350.17	350.91	352.62	351.14	351.35
19/6	Till	364.15	364.15		350.75	350.57	351.84	350.52	350.73	351.55	353.88	351.95	352.24
23/3	Peat	351.19			350.45	350.14	349.28	349.06	349.23	349.68	349.95	349.74	349.77
24/5	Till	352.01			350.84	350.40	349.65	349.41	349.66	350.11	350.23	349.99	350.07
KGS-2	??	351.38		350.37	348.83	347.91	347.56	347.38	347.44	347.77	348.00	348.78	347.79

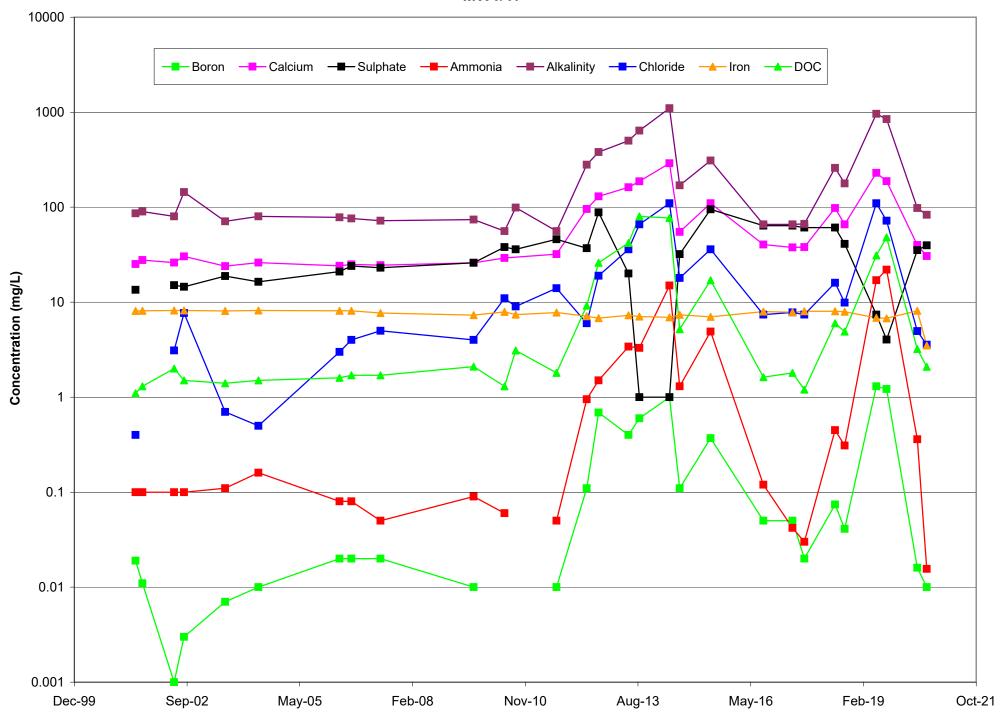
		Surface	Trigger	Background		G	round Wate	er Elevation	าร		3.5	3.51	
		Elevation	Elevation								Maximum	Minimum	Fluctuation
Monitor	Target Zone	(masl)		Fenco (10/96)	28-May-18	21-Aug-18	29-May-19	27-Aug-19	26-May-20	18-Aug-20	(masl)	(masl)	(m)
1/17	Till	351.44		350.87	350.27	no access	348.09	347.89	348.29	348.25	351.44	347.66	3.78
2/9	Till	351.07		350.08	349.67	349.52	349.64	349.52	349.50	349.48	350.62	349.48	1.14
2/13	Bedrock	350.85		350.06	350.30	350.20	350.30	350.22	350.32	350.29	350.35	349.93	0.42
3/8	Till	351.51		350.44	350.28	350.13	350.28	350.24	350.28	350.26	350.51	349.80	0.71
4/6	Till	351.48		350.36	349.37	349.05	349.58	349.41	Dam	aged	350.85	348.94	1.91
5/17	Till / Bedrock	370.13	361.75	355.57	354.91	353.93	353.68	353.71	354.87	353.71	358.76	352.43	6.33
6/5	Till	351.09		349.90	349.89	349.44	349.84	349.71	349.71	349.71	350.08	349.02	1.06
11/4	Till	366.45	366.45		362.90	361.85	361.89	361.73	362.30	361.73	363.85	361.24	2.61
13/6	Till	355.02			349.82	349.12	349.10	349.22	348.92	349.22	350.62	348.56	2.06
13/14	??	354.72			349.89	349.12	348.06	349.15	349.12	349.15	351.22	348.06	3.16
14/6	Till	348.91			347.88	346.66	347.11	346.68	346.56	346.68	348.19	345.05	3.14
14/21	??	348.68			346.84	345.61	347.08	345.66	346.23	345.66	347.86	344.20	3.66
15/5	Till	352.17			350.78	350.75	350.75	350.62	350.72	350.62	351.42	349.45	1.97
15/17	??	352.08			350.89	350.43	350.78	350.69	350.84	350.69	359.53	349.75	9.78
16/15	??	362.25	362.25		351.24	350.60	350.69	350.56	350.93	350.56	356.58	349.60	6.98
17/15	??	359.99			351.14	350.49	350.59	350.17	350.71	350.17	352.62	349.72	2.90
19/6	Till	364.15	364.15		351.95	dry	351.34	350.94	350.56	350.94	364.15	350.31	13.84
23/3	Peat	351.19			349.74	349.41	349.83	349.69	350.14	349.69	351.00	349.06	1.94
24/5	Till	352.01			349.99	349.64	350.09	349.86	350.31	349.86	351.04	341.74	9.30
KGS-2	??	351.38		350.37	348.78	347.48	349.39	347.59	347.85	347.59	351.38	347.38	4.00

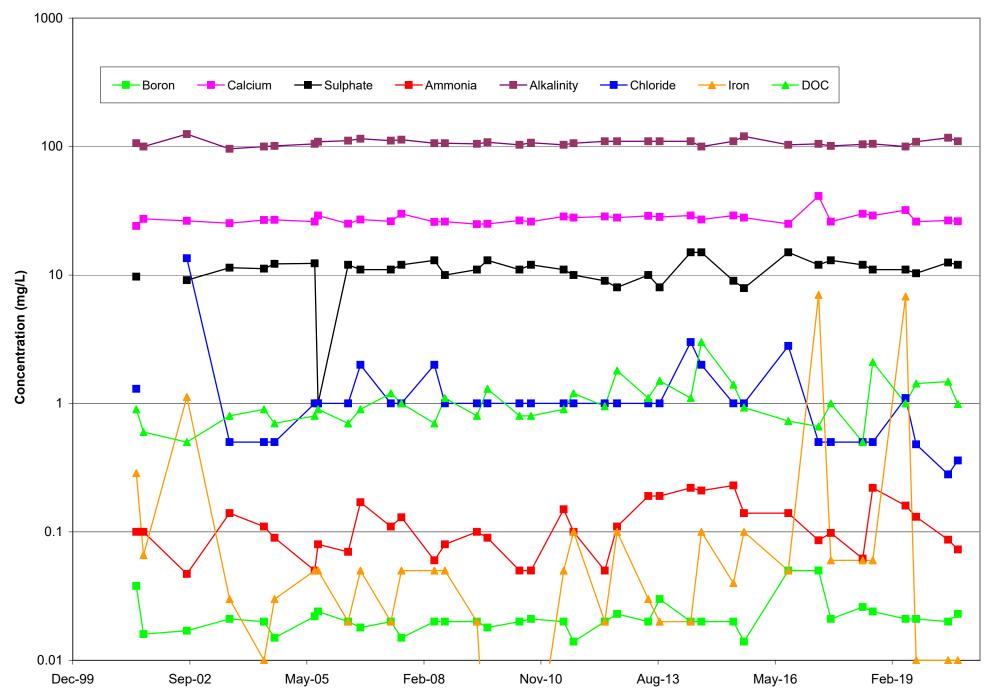


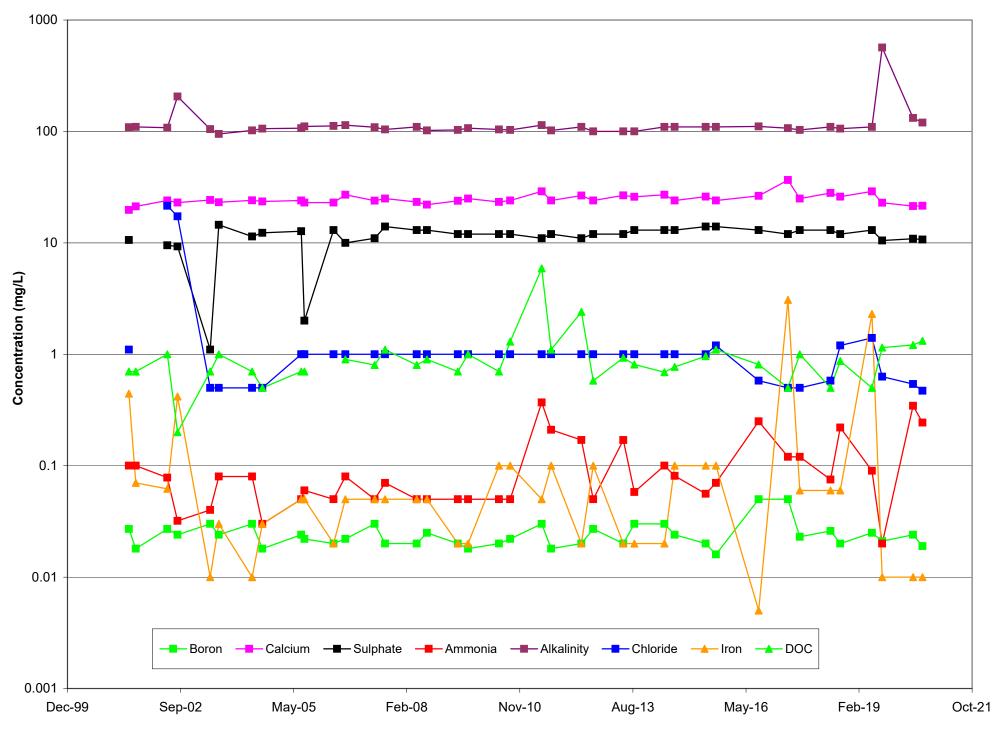
APPENDIX F

Ground Water Chemistry Over Time

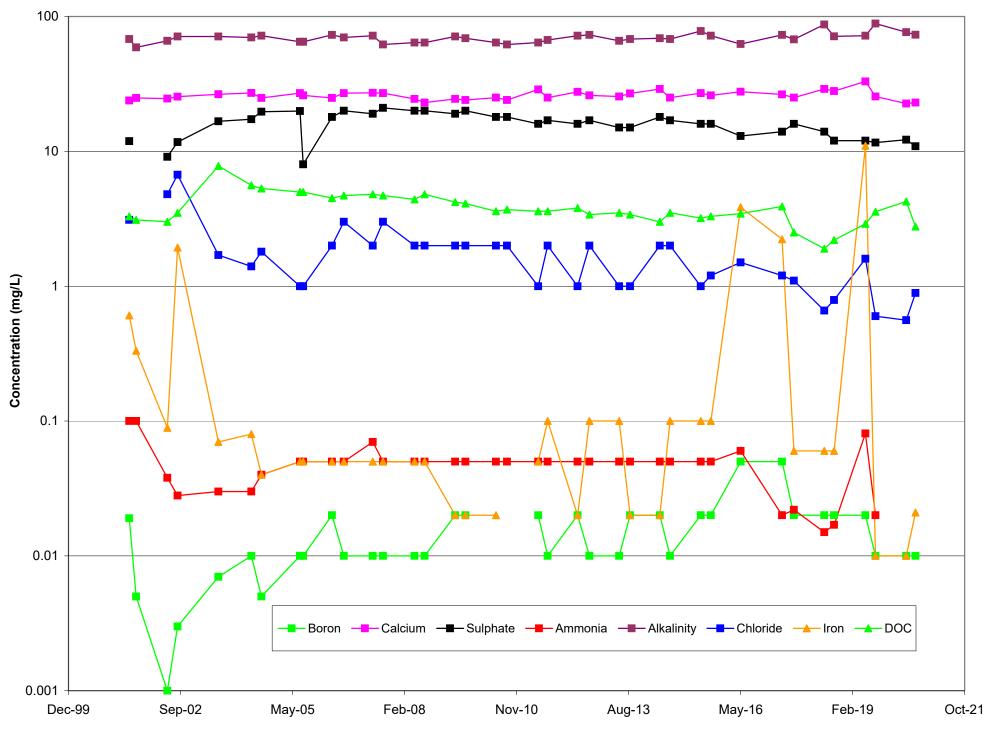
MW1/17

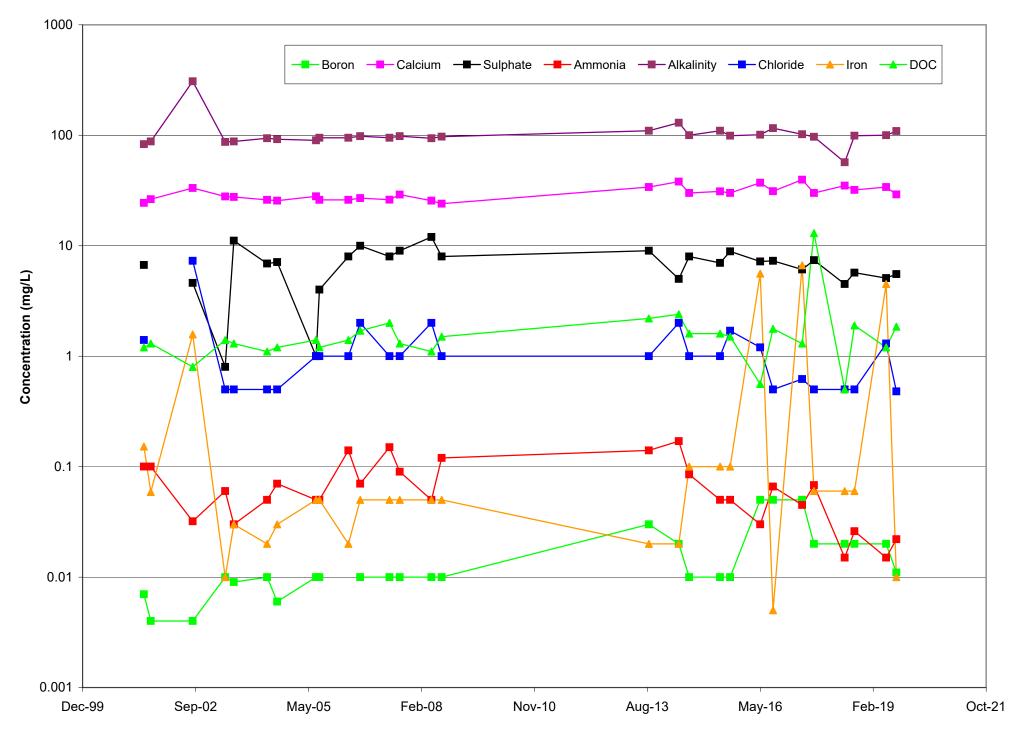


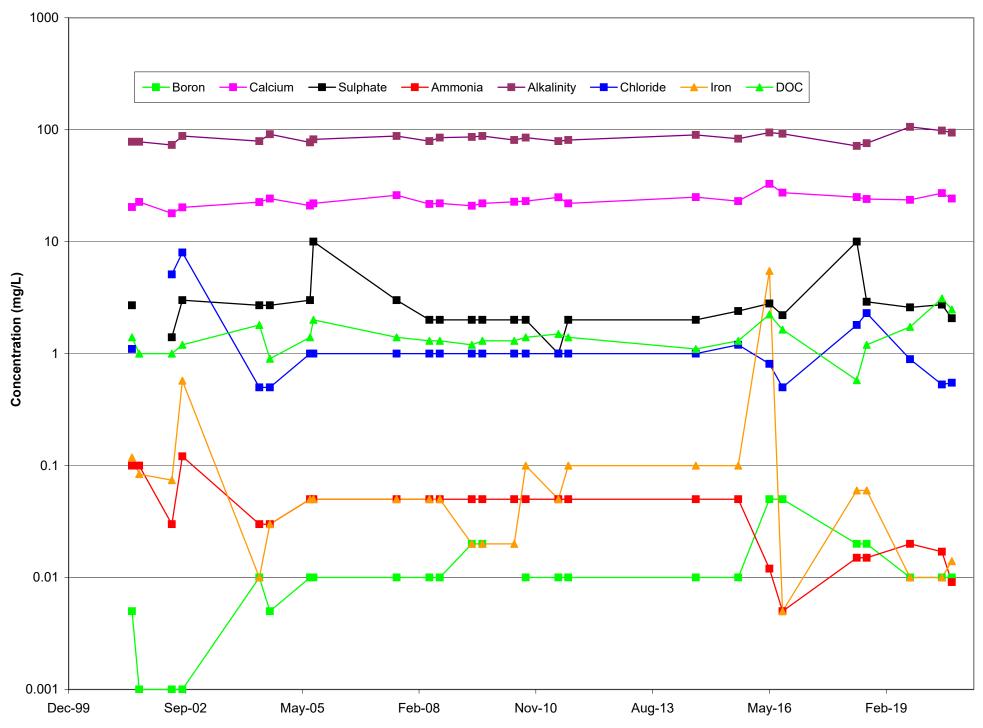




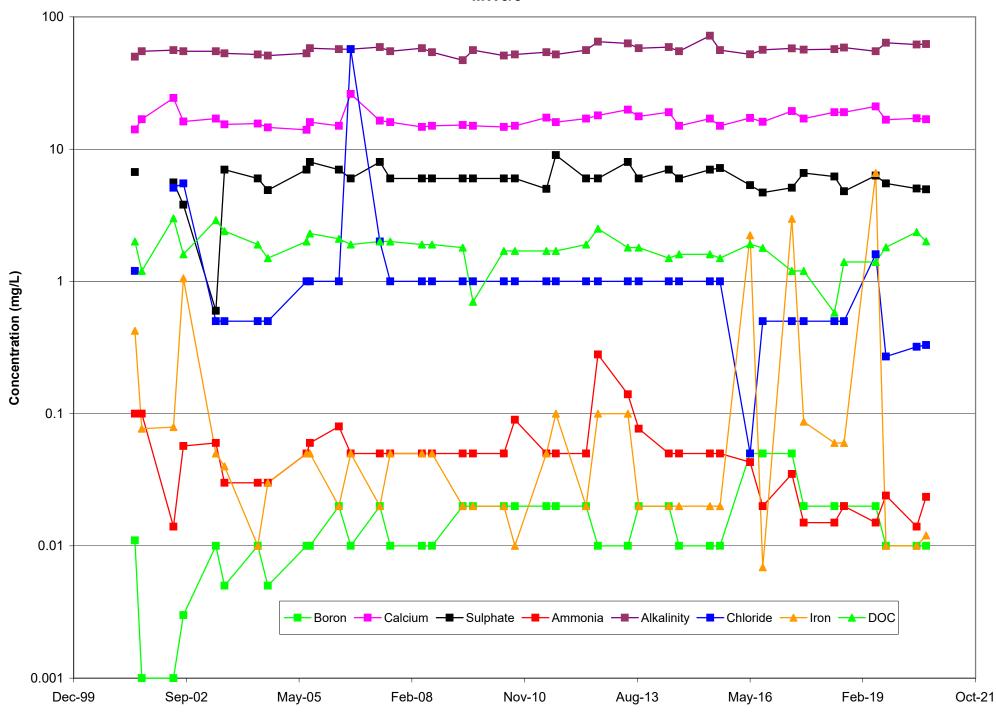


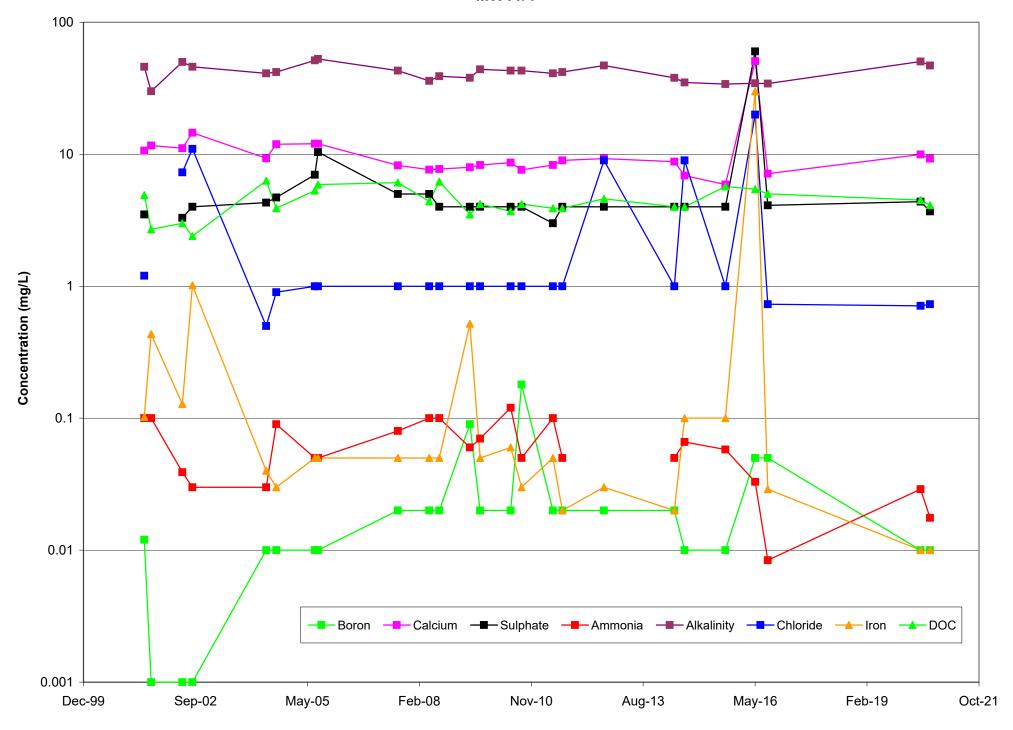


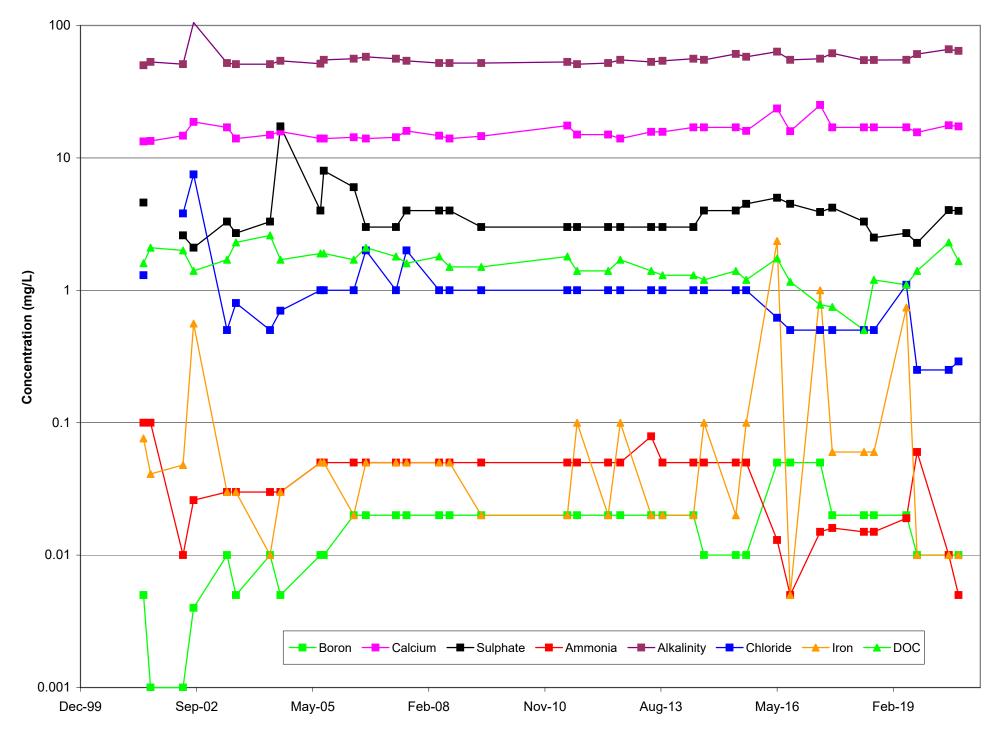


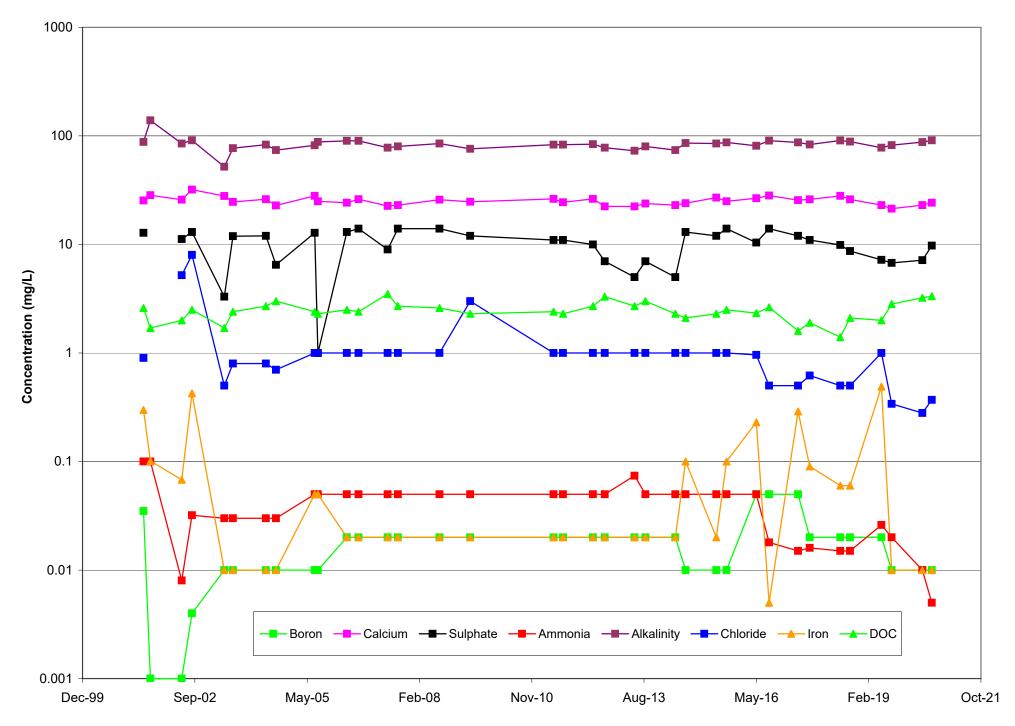


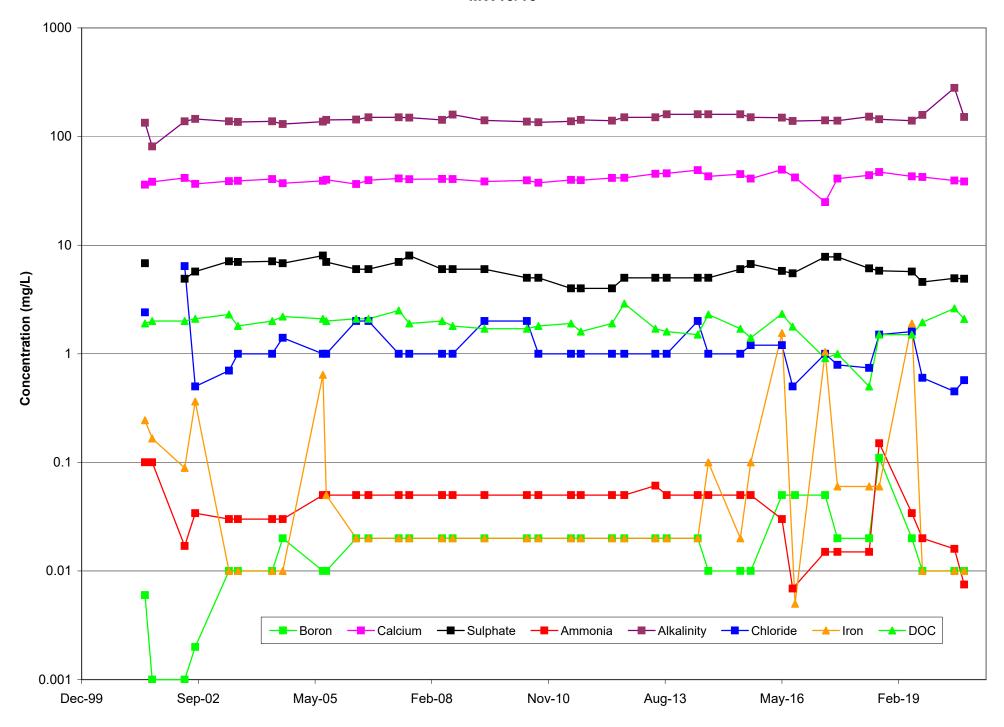
MW6/5

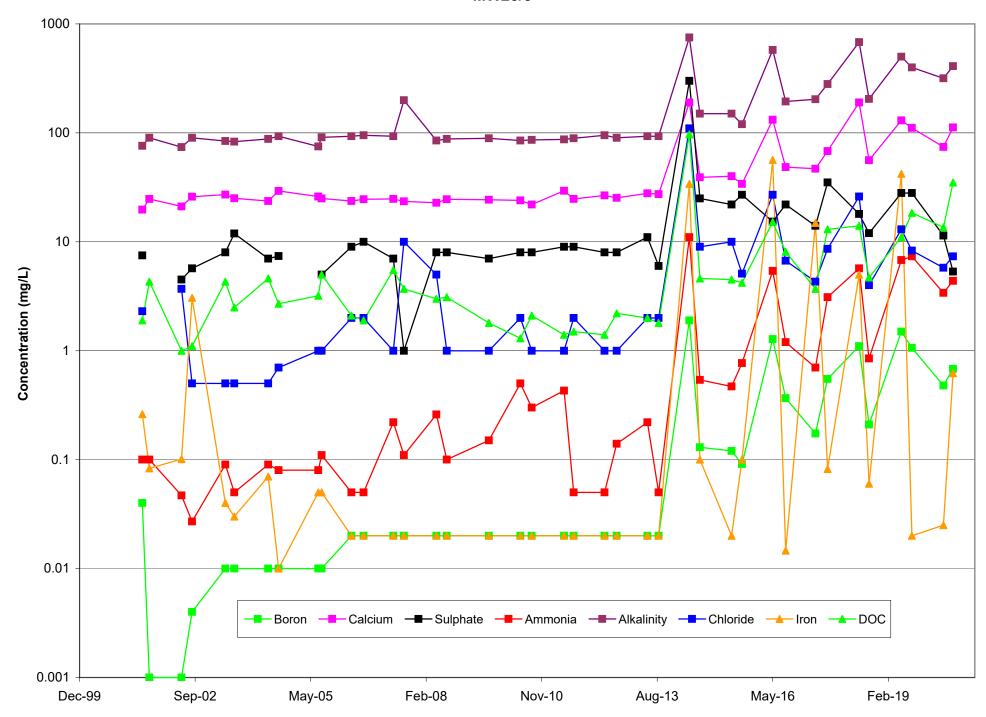


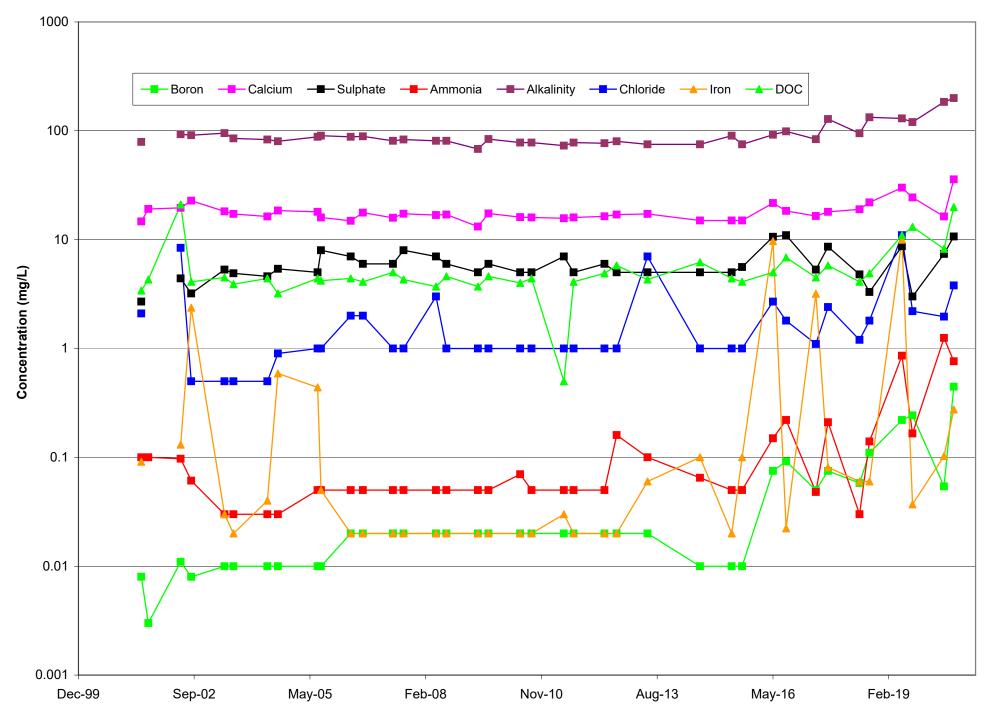


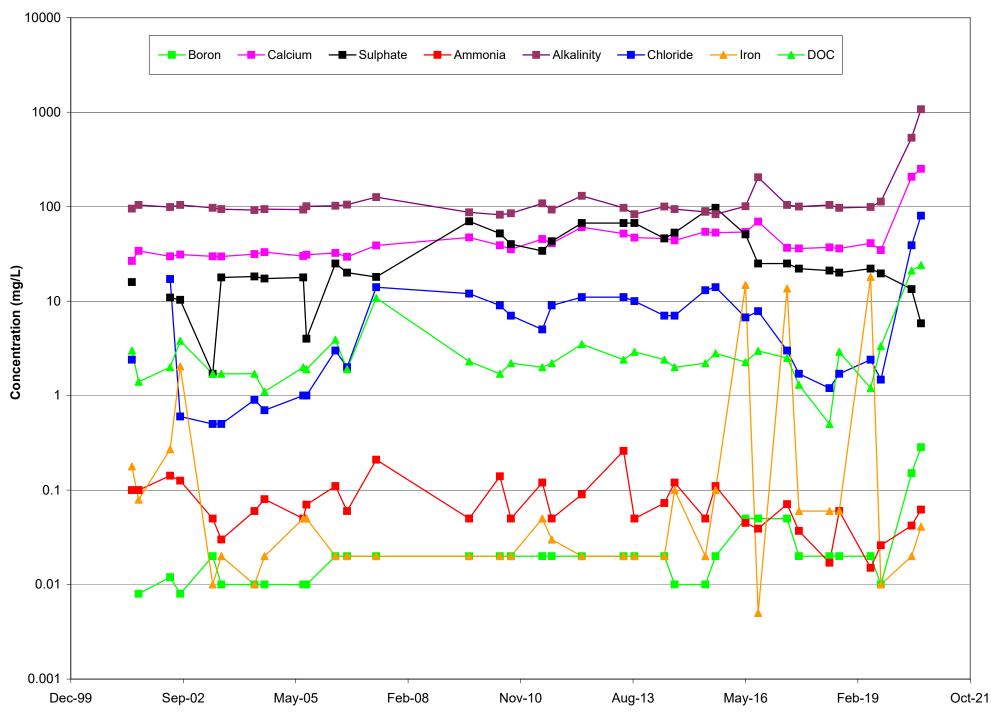














APPENDIX G

Detected Volatile Organic Compounds

Summary Table of Detected Volatile Organic Compounds

Monitor	Date	Toluene (mg/L) 0.024 (ODWQS, 2006)	1,4 dichloro-benzene (mg/L) 0.001 (ODWQS, 2006)
4/18	August, 2001	-	0.001
1/17	August, 2002	0.001	-
2/9	August, 2002	0.0006	-
3/8	August, 2002	0.0026	-
4/6	August, 2002	0.0013	-
4/18	August, 2002	0.003	-
5/17	August, 2002	0.0005	-
6/5	August, 2002	0.0021	-
20/4	August, 2004	0.0002	-
4/6-II	August, 2008	0.0004	-
SW-2	August, 2010	0.001	-
SW-2	August, 2018	0.0018	

All results for all other required sampling parameters were below laboratory detection limits.

In 2006, VOC samples were collected at monitors: 1/17, 2/9, 2/13, 3/8, 4/6, 4/18, 6/14, 7/4,16/15, 20/4, 21/7 and SW-2

 $In \ 2007, \ VOC \ samples \ were \ collected \ at \ monitors: \ 2/9, \ 2/13, \ 3/8, \ 4/6, \ 4/18, \ 5/17, \ 6/5, \ 6/5 \ II, \ 6/14, \ 7/4, 16/15, \ 20/4, \ \ 21/7 \ and \ SW-2 \ \ 1/2, \$

In 2008, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 4/6, 4/6-II, 4/18, 5/17, 6/5, 6/14, 7/4, 16/15, 20/4, 21/7 and SW-2

In 2009, VOC samples were collected at monitors: 1/17, 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4, 20/4, 21/7 and SW-2

In 2010, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4 and SW-2

In 2011, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4, 16/15, 21/7 and SW-2

 $In \ 2012, \ VOC \ samples \ were \ collected \ at \ monitors: \ 2/9, \ 2/13, \ 3/8, \ 5/17, \ 6/5, \ 6/14, \ 7/4, \ 16/15, \ 21/7 \ and \ SW-2 \$

In 2013, VOC samples were collected at monitors: 2/9 and SW-2

In 2014, VOC samples were collected at monitors: $\,$ 2/9 and SW-2 $\,$

In 2015, VOC samples not collected



APPENDIX H

Surface Water Quality Data

Station:																
	neter -	As	В	Ba	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -		0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
Action**	QA/QC		3.0													158
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2010-08-25	no sample															28
2010-10-21	i	<0.2	0.130	0.040	< 0.005	< 0.01	< 0.02	0.38	< 0.0001	506	1.50	0.210	90	<2	1	19
2011-05-31								0.39			1.50	0.210	89	<2	4	27
2011-06-09		< 0.2	0.040	0.040	< 0.005	< 0.01	< 0.02	8.2	< 0.0001	213	1.40	0.061	54	5.0	9	14
2011-08-24	il .	<0.2	0.330	0.040	<0.005	<0.01	<0.02	0.51	<0.0001	470	2.00	0.400	110	<2	3	24
2011-10-25		<0.2	0.130	0.030	<0.005	<0.01	<0.02	0.88	<0.0001	344	2.00	0.200	110	<2	2	26
2012-05-18		\0.2	0.130	0.030	<0.003	<0.01	<0.02	0.29	<0.0001	344	1.80	0.150	90	<2	3	61
		-0.0	0.050	0.070	-0.005	-0.04	-0.00		-0.0004	750						
2012-08-30		<0.2	0.250	0.070	<0.005	<0.01	<0.02	2.5	<0.0001	752	3.40	0.810	160	4.0	54	62
2012-10-23	3	<0.2	0.230	0.040	<0.005	<0.01	<0.02	0.26	<0.0001	696	1.80	0.370	120	<2	2	31
2013-05-24	l .							0.24			2.80	0.004	110	<2	2	68
2013-08-29	9	<0.2	0.470	0.470	<0.005	<0.01	<0.02	7.3	<0.0001	780	4.70	0.830	150		56	60
2013-10-17	7	<0.2	0.390	0.070	<0.005	<0.01	<0.02	1.9	< 0.0001	680	2.10	0.370	130	2.0	7	29
2014-05-23	3							0.4			2.40	0.150	96	<2	5	90
2014-08-21		<0.2	0.810	0.150	<0.005	< 0.01	< 0.02	6.8	< 0.0001	1230	4.40	0.940	180	11.0	55	71
2014-10-09)	<0.2	0.610	0.075	< 0.005	< 0.01	< 0.02	1.9	< 0.0001	788	2.30	0.290	110	<2	3	39
2015-05-21	i							0.5			1.60	0.170	100	<2	5	43
2015-08-25	5	<0.2	0.750	0.027	< 0.005	< 0.01	< 0.02	0.57	< 0.0001	762	1.60	0.600	140	<2	<1	100
2015-10-20)	<0.2	0.820	0.053	< 0.005	< 0.01	<0.02	0.33	< 0.001	1040	1.80	0.260	130	2.0	3	47
2016-05-10)			0.000	0.000			0.48			4.15	0.161	104		19.3	60
2016-09-08		0.002	0.995	0.036	<0.00001	0.0002	0.001	0.46	<0.00001	676	2.58	0.480	151	<6	<4.0	44
2016-11-01	1	0.002	0.730	0.030	<0.00001	0.0002	0.0004	0.246	<0.00001	414	1.58	0.171	105	<6	<4.0	48
2016-11-01		0.001	0.836	0.001	-0.00001	0.001	0.0004	0.240	-0.00001	714	1.00	0.771	100	~0	~ 4 .0	48
2016-11-18																34
	Duplicate		0.828					0.46			1.60	0.170	99	<3	<4	35
2017-05-17			0.860					0.46			1.60	0.170	99	<3	<4	
2017-05-17	Duplicate	0.001	0.882	0.000	.0.00000	.0.001	0.0000		0.000000	000	0.00	0.000	100	N/ *	_	50
2017-08-29	1	0.001	0.990	0.038	<0.00002	<0.001	0.0002	0.47	0.0000035	602	2.00	0.043	130	NA	6	42
2017-10-24	l .	0.001	0.820	0.030	<0.00002	<0.001	<0.0002	0.31	<0.000002	522	1.40	0.120	92	<3	<4.0	
2018-05-29	9		0.920					0.34			1.50	0.210	110	<6	<4	32
2018-08-22	2	0.001	1.200	0.053	<0.00002	0.001	0.0008	0.31	0.0000028	662	2.50	0.580	150	12.0	125	49
2018-08-22	Duplicate	0.001	1.200	0.047	<0.00002	< 0.0001	0.0015	0.34	0.0000023	650	2.40	0.490	140	25.0	60	49
2018-10-16	6	0.002	0.970	0.022	<0.00002	0.001	0.0005	0.11	0.0000033	524	1.70	0.150	120	4.0	10	44
2019-05-29)	0.001	0.840	0.022	< 0.00002	0.002	0.0010	0.24			1.40	0.077	92	<2	1.3	38
2019-08-28	3	0.002	1.150	0.030	0.000009	0.002	0.0010	0.589	< 0.000005	553	2.67	0.279	162	<2	3.1	40
2019-10-29	9	0.001	0.603	0.023	0.000008	0.002	0.0013	0.345	< 0.000005	404	1.66	0.099	96	3.6	3.6	29
2020-05-27	7		0.526					0.499		474	3.26	0.111	111	<2	6.9	32
2020-08-18	3	0.001	0.747	0.033	< 0.000005	0.002	0.0006	0.83	< 0.000005	454	2.11	0.183	133	<3.3	3.8	25
	3				0.000000				<0.000005			0.087				
2020-10-06	5	0.001	0.926	0.032	0.000006	0.002	0.0006	0.479	<0.000005	546	2.03		125	<2	3.3	40
2020-10-06		0.001	0.926	0.032	0.000006	0.002	0.0006	0.479	<0.000005	546 Unionized	2.03	0.087	125	<2	3.3	40
					0.000006 NO3-N		0.0006 pH		<0.000005 <0.000005 NH3-N	546 Unionized NH3-N						
2020-10-06 Param PWQO -		0.001 Pb	0.926 Zn	0.032	0.000006	0.002	0.0006	0.479	<0.000005	546 Unionized	2.03	0.087 Phenols	125	<2	3.3	40
Param PWQO - Action**		0.001 Pb 0.003	0.926 Zn 0.02	0.032 NO2-N	0.000006 NO3-N	0.002 SO4	0.0006 pH 6.5 - 8.5	0.479 alk42	<0.000005 NH3-N	546 Unionized NH3-N 0.02 0.8	2.03 Cond.	0.087 Phenols 0.001	125 DO	<2	3.3	40
Param PWQO - Action** Units -		0.001 Pb 0.003 mg/L	0.926 Zn 0.02 mg/L	0.032 NO2-N mg/L	0.000006 NO3-N	0.002	0.0006 pH 6.5 - 8.5 n/a	0.479	<0.000005 NH3-N mg/L	546 Unionized NH3-N 0.02 0.8 mg/L	Cond.	0.087 Phenols 0.001 mg/L	125	<2 Field pH	3.3	40 Field Cond
Param PWQO - Action** Units - 2010-10-21		0.001 Pb 0.003	0.926 Zn 0.02	0.032 NO2-N mg/L <0.01	0.000006 NO3-N mg/L <0.1	0.002 SO4 mg/L 85.0	0.0006 pH 6.5 - 8.5 n/a 8.01	0.479 alk42 * mg/L 254	<0.000005 NH3-N mg/L <0.05	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005	2.03 Cond. mg/L 779	0.087 Phenols 0.001 mg/L <0.001	125 DO mg/L 9	<2 Field pH	3.3 Field T	Field Cond
Param PWQO - Action** Units - 2010-10-21 2011-05-31		0.001 Pb 0.003 mg/L <0.05	0.926 Zn 0.02 mg/L <0.01	0.032 NO2-N mg/L <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1	0.002 SO4 mg/L 85.0 54.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88	0.479 alk42 * mg/L 254 182	<0.000005 NH3-N mg/L <0.05 <0.05	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005	2.03 Cond. mg/L 779 552	0.087 Phenols 0.001 mg/L <0.001 <0.001	125 DO mg/L 9 4	<2 Field pH 7.94 7.42	3.3 Field T 5.1 11.8	784 490
PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24		0.001 Pb 0.003 mg/L <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1	0.002 SO4 mg/L 85.0 54.0 27.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02	0.479 alk42 * mg/L 254 182 262	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005	2.03 Cond. mg/L 779 552 691	0.087 Phenols 0.001 mg/L <0.001 <0.001 <0.001	125 DO mg/L 9 4 6	7.94 7.42 8.14	3.3 Field T 5.1 11.8 18.1	784 490 699
PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25		0.001 Pb 0.003 mg/L <0.05	0.926 Zn 0.02 mg/L <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1	0.002 SO4 mg/L 85.0 54.0 27.0 13.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71	0.479 alk42 * mg/L 254 182 262 185	<pre><0.000005 NH3-N mg/L <0.05 <0.05 <0.05 0.22</pre>	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 0.00139	2.03 Cond. mg/L 779 552 691 502	0.087 Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.007	125 DO mg/L 9 4 6 4	7.94 7.42 8.14	3.3 Field T 5.1 11.8 18.1 4.9	784 490 699 509
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-05-18		0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	0.002 SO4 mg/L 85.0 54.0 27.0 13.0 31.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76	0.479 alk42 * mg/L 254 182 262 185 170	<pre>MH3-N mg/L <0.05 <0.05 <0.05 0.22 <0.05</pre>	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 0.00139 <0.0005	2.03 Cond. mg/L 779 552 691 502 510	0.087 Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.007 0.007	125 DO mg/L 9 4 6 4 10	7.94 7.42 8.14 7	5.1 11.8 18.1 4.9	784 490 699 509 540
PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30		0.001 Pb 0.003 mg/L <0.05 <0.05 <0.0001	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	0.002 SO4 mg/L 85.0 54.0 27.0 13.0 13.0 13.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18	0.479 alk42 * mg/L 254 182 262 185 170 400	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.02 <0.05 0.3	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628	2.03 Cond. mg/L 779 552 691 502 510 1000	0.087 Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.007 0.007 <0.001	125 DO mg/L 9 4 6 4 10 9	7.94 7.42 8.14 7 6.6 7.68	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4	784 490 699 540 1259
Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23		0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 SO4 mg/L 85.0 54.0 27.0 13.0 31.0 71.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84	0.479 alk42 * mg/L 254 182 262 185 170 400 310	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 0.22 <0.05 0.3 0.092	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083	2.03 Cond. mg/L 779 552 691 502 510 1000 960	0.087 Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.007 0.007 <0.001 <0.001 <0.001	125 DO mg/L 9 4 6 4 10 9 9	7.94 7.42 8.14 7 6.6 7.68 7.76	3.3 Field T 5.1 11.8 18.1 4.9 19.4 5.7	784 490 699 509 540 1259 694
Param PWQO - Action** Units - 2010-10-21 2011-08-31 2011-08-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24		0.001 Pb 0.003 mg/L <0.05 <0.05 <0.0001 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.025	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 SO4 mg/L 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.76 8.18 7.84 7.94	0.479 alk42 * mg/L 254 182 262 185 170 400 310 220	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.63	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083 0.01050	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620	0.087 Phenots 0.001 mg/L <0.001 <0.001 <0.001 0.007 0.007 <0.001 0.001 0.004	125 DO mg/L 9 4 6 4 10 9 9 10	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6	784 490 699 509 540 1259 694 604
Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-08-24 2013-08-24 2013-08-29		0.001 Pb 0.003 mg/L <0.05 <0.001 <0.05 <0.005 <0.005 <0.005 <0.005	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 SO4 Mg/L 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76	0.479 alk42 * mg/L 254 182 262 185 170 400 310 220 440	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 0.22 <0.05 0.3 0.092 0.63 1.0	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083 0.01050 0.00843	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 0.007 0.007 <0.001 <0.001 0.004 <0.001	125 DO mg/L 9 4 6 6 4 10 9 10 6	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37	5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8	784 490 699 509 540 1259 694 604 1297
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-05-18 2012-08-20 2012-10-23 2013-05-24 2013-08-29 2013-10-17		0.001 Pb 0.003 mg/L <0.05 <0.05 <0.0001 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.025 <0.01 0.025	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 SO4 Mg/L 85.0 54.0 27.0 13.0 13.0 71.0 9.0 <1 20.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.96 7.96	0.479 alk42 * mg/L 254 182 262 185 170 400 310 220 440 340	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 0.022 <0.05 0.03 0.092 0.63 1.0 0.16	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00683 0.01050 0.00843 0.00110	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100 940	0.087 Phenois 0.001 mg/L <0.001 <0.001 0.007 0.007 <0.001 <0.001 <0.001 0.004 <0.001 0.004 0.001 0.001	mg/L 9 4 6 4 10 9 9 10 6 6	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7	784 490 699 509 540 1259 694 604 1297 801
Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-08-29 2013-08-29 2013-10-17 2014-05-23		0.001 Pb 0.003 mg/L <0.05 <0.0001 <0.05 <0.005 <0.005 <0.005	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	0.002 SO4 Mg/L 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.87	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 340 210	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 0.22 <0.05 0.3 0.63 1.0 0.16 1.5	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.01139 <0.0005 0.01628 0.00083 0.01050 0.00843 0.00110 0.01625	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100 940 580	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.011	125 DO mg/L 9 4 6 4 10 9 10 6 8	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8	784 490 699 509 540 1259 694 604 1297 801 566
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24 2013-08-24		0.001 Pb 0.003 mg/L <0.05 <0.001 <0.05 <0.0001 <0.05 <0.005 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.070	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 SO4 mg/L 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.76 7.96 7.87	0.479 alk42 * mg/L 254 182 262 185 170 400 220 440 340 210 570	 <0.000005 NH3-N MB3-N <0.05 /ul>	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083 0.01050 0.00843 0.00110 0.01625 0.01625	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100 940 580 1400	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 <0.001	125 DO mg/L 9 4 6 4 10 9 10 6 6 8 6	7.94 7.42 8.14 7.66 7.68 7.76 9.51 7.37 7.65 7.61 8.37	5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9	784 490 699 509 540 1259 694 604 1297 801 566 1290
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-108-30 2012-108-30 2012-108-30 2012-108-30 2014-08-21 2014-08-23 2014-08-21 2014-10-09		0.001 Pb 0.003 mg/L <0.05 <0.0001 <0.05 <0.005 <0.005 <0.005	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.032 NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.05 <0.01 <0.05	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	mg/L 85.0 85.0 54.0 13.0 13.0 13.0 77.0 9.0 <1 20.0 30.0 <1 20.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.96 7.87 7.96	0.479 alk42 * mg/L 254 182 262 185 170 400 310 220 440 340 210 380	 <0.000005 NH3-N mg/L <0.05 <0.03 <0.01 <0.02 <0.05 <0.03 <	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.00139 0.00083 0.01050 0.00843 0.00100 0.01625 0.01060 0.01625 0.01060	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100 940 580 1400 1000	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.017	125 DO mg/L 9 4 6 6 4 10 9 9 10 6 6 8 8 6 4	7.94 7.42 8.14 7.66 7.76 9.51 7.37 7.65 7.61 8.37 7.54	5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 1.8 7.7 14.8 19.9 6.6	784 490 699 509 540 1259 604 604 1297 801 566 1290 886
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-08-18 2012-08-18 2012-08-29 2013-10-17 2014-08-29 2013-10-17 2014-08-21 2014-10-09 2015-08-21		0.001 Pb 0.003 mg/L <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 0.070 0.020	NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.05 <0.05	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	mg/L 8504 854 0 54 0 27.0 13.0 71.0 9.0 <1 20.0 30.0 <1 20.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.94 7.87 7.94 7.87 7.94	0.479 alk42 ** mg/L 254 182 262 185 170 400 210 570 380 200	 <0.000005 NH3-N mg/L <0.05 <0.03 <0.06 <0.16 <0.15 <0.32 <0.03 <0.05 	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083 0.000843 0.00105 0.01626 0.01060 0.01626 0.01060 0.01060 0.00164	2.03 Cond. mg/L 779 552 691 1000 960 620 11100 940 580 1400 1000 600	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 0.007 <0.001 <0.004 <0.001 0.011 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 4 6 4 10 9 9 10 6 6 8 6 4 7	7.94 7.42 8.14 7 6.6 7.66 9.51 7.37 7.61 8.37 7.54	5.1 11.8 18.1 19.4 19.6 18.8 19.7 10.6 18.8 7.7 14.8 19.9 6.6	784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-23 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-08-21 2014-08-21 2014-10-09 2015-08-25		0.001 Pb 0.003 mg/L <0.05 <0.001 <0.05 <0.0001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10	mg/L 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 41 20.0 18.0 41 20.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.96 7.87 7.92	0.479 alk42 ** ** ** ** ** ** ** ** **	C	546 Unionized WH3-N WH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0008 0.01090 0.0008 0.01090 0.0008 0.01090 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 940 940 1400 1400 1400 1400 740	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 9 10 6 6 8 6 4 7 6	7.94 7.49 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-31 2011-08-32 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2014-08-21 2014-08-21 2014-08-21 2014-08-21 2015-08-20 2015-08-20 2015-08-20 2015-08-20	neter -	0.001 Pb 0.003 mg/L <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 0.070 0.020	NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.05 <0.05	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 30.0 <1 20.0 18.0 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.94 7.87 7.92 8.09	0.479 alk42 ** mg/L 254 182 262 185 170 310 220 440 340 210 570 380 200 280 590	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.3 <0.09 <0.09 <0.05 <0.3 <0.09 <0.05 <0.3 <0.05 <0.33 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0013 0.00130 0.00130 0.00180 0.000843 0.00084 0.001625 0.01060 0.001625 0.01060 0.001625 0.001600 0.00140	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 1100 940 580 1400 1000 600 740 1600	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 4 6 4 10 9 9 10 6 6 6 6 4 7 6	7.94 7.42 8.14 7.66 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6	784 490 699 509 540 1259 694 604 1297 880 1296 886 1290 886 537 626
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-24 2013-08-24 2013-08-20 2013-10-17 2014-08-21 2014-10-09 2015-08-25 2015-08-25 2015-08-25 2015-10-20 2016-08-10	neter -	0.001 Pb 0.003 mg/L <0.05 <0.0001 <0.05 <0.005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.5 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 18.0 41.8 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.76 7.96 7.87 7.94 7.87 7.92 8.09	0.479 alk42 ** ** ** ** ** ** ** ** **	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.06 <0.3 <0.63 <1.0 <0.16 <1.5 <0.32 <0.03 <0.092 <0.63 <0.092 <0.63 <0.092 <0.092 <0.092 <0.092 <0.092 <0.092 <0.093 <0.092 <0.092 <0.093 <0.094 <0.094 <0.094 <0.097 <0.098 <0.098 <0.094 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <0.098 <	546 Unionized Whi3-N Unionized Wh3-N Unionized Wh3-N Unionized Wh3-N Unionized Wh3-N Unionized U	2.03 Cond. mg/L 779 552 691 502 510 1000 940 940 940 1400 1400 740 1600 740 8853	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.011 0.011 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 9 10 6 6 8 6 4 7 6	7.94 7.49 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-3 2012-08-30 2012-10-3 2013-08-24 2013-08-22 2013-08-22 2014-10-09 2015-08-25 2015-10-20 2016-08-10 2016-08-10	neter -	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 18.0 41.2 20.0 18.0 41.2 45.0 18.4 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 7.99 8.09 7.99 8.26	0.479 alk42 ** mg/L 254 182 262 185 170 310 220 440 340 210 570 380 200 280 590 330 390	CO,000005 NH3-N mg/L	546 Unionized Wh3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.01050 0.01628 0.01080 0.01080 0.01080 0.00181 <0.0005 0.00140 0.00663	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 620 1100 600 740 1600 853 976	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 0.007 <0.001 <0.001 0.007 <0.001 0.001 0.001 0.001 0.011 0.011 0.011 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 10 6 6 6 8 6 4 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-30 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-08-22 2014-10-09 2015-08-25 2015-08-25 2015-10-20 2016-09-08	neter -	0.001 Pb 0.003 mg/L <0.05 <0.0001 <0.05 <0.005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.5 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 18.0 41.8 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.76 7.96 7.87 7.94 7.87 7.92 8.09	0.479 alk42 ** ** ** ** ** ** ** ** **		546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.00139 0.00162 0.00083 0.01050 0.00083 0.01050 0.00083 0.01050 0.00843 0.00160 0.00843 0.00160 0.00863 0.00083	2.03 Cond. mg/L 779 552 691 502 510 1000 940 940 940 1400 1400 740 1600 740 8853	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.011 0.011 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 9 10 6 6 6 6 4 7 6	7.94 7.42 8.14 7.66 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6	784 490 699 509 540 1259 694 604 1297 880 1296 886 1290 886 537 626
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-21 2011-08-25 2012-08-30 2012-10-23 2013-08-24 2013-08-22 2013-08-22 2013-08-25 2014-08-22 2013-08-25 2015-08-25 2015-08-25 2015-08-25 2016-09-08 2016-09-08 2016-01-01 2016-09-08	neter -	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 18.0 41.2 20.0 18.0 41.2 45.0 18.4 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 7.99 8.09 7.99 8.26	0.479 alk42 ** mg/L 254 182 262 185 170 310 220 440 340 210 570 380 200 280 590 330 390	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	546 Unionized Wh3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0008 0.01090 0.0008	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 620 1100 600 740 1600 853 976	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 0.007 <0.001 <0.001 0.007 <0.001 0.001 0.001 0.001 0.011 0.011 0.011 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 10 6 6 6 8 6 4 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-30 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-08-22 2014-10-09 2015-08-25 2015-08-25 2015-10-20 2016-09-08	neter -	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 18.0 41.2 20.0 18.0 41.2 45.0 18.4 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.76 7.94 7.79 7.94 7.87 7.92 8.09 7.99 8.26 8.12	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 290 288		546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.00139 0.00162 0.00083 0.01050 0.00083 0.01050 0.00083 0.01050 0.00843 0.00160 0.00843 0.00160 0.00863 0.00083	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 940 580 1400 600 740 1600 853 976 758	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.008 0.008 0.005 0.002	mg/L 9 4 6 4 10 9 10 6 6 6 8 6 4 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8	784 490 699 509 540 1259 604 604 1297 801 566 1290 886 537 626 1146 542
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-21 2011-08-25 2012-08-30 2012-10-23 2013-08-24 2013-08-22 2013-08-22 2013-08-25 2014-08-22 2013-08-25 2015-08-25 2015-08-25 2015-08-25 2016-09-08 2016-09-08 2016-01-01 2016-09-08	neter -	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 18.0 41.2 20.0 18.0 41.2 45.0 18.4 45.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 7.99 8.09 7.99 8.26	0.479 alk42 ** mg/L 254 182 262 185 170 310 220 440 340 210 570 380 200 280 590 330 390	<0.000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	546 Unionized Wh3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0008 0.01090 0.0008	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 620 1100 600 740 1600 853 976	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 0.007 <0.001 <0.001 0.007 <0.001 0.001 0.001 0.001 0.011 0.011 0.011 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 9 4 6 4 10 9 10 6 6 6 8 6 4 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-08-21 2014-10-09 2015-08-25 2015-08-20 2016-08-10 2016-08-10 2016-08-10 2016-08-10 2016-08-10 2016-11-11 2016-11-11	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 30.0 <1 41.5 30.0 <1 45.0 18.4 7.5 30.2	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.76 7.94 7.79 7.94 7.87 7.92 8.09 7.99 8.26 8.12	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 290 288	CO,000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	546 Unionized Wh3-N H3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0008 0.01050 0.01628 0.01060 0.00083 0.01060 0.001625 0.01060 0.00140 0.00160 0.00020 0.00140 0.00020 0.00140 0.00020 0.00023	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 940 580 1400 600 740 1600 853 976 758	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.008 0.008 0.005 0.002	mg/L 9 4 6 4 10 9 10 6 8 6 7 7	7.94 7.42 8.14 7.66 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 8.89 8.01 8.53	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6	784 490 699 509 540 1259 604 604 1297 801 566 1290 886 537 626 1146 542
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-23 2011-08-24 2011-10-23 2012-08-30 2012-10-23 2013-08-24 2013-08-24 2013-08-24 2014-08-22 2014-10-09 2015-05-21 2016-08-10 2016-09-08 2016-11-10 2016-11-18 2016-11-18	neter -	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 85.0 85.0 95.4 13.0 13.0 13.0 9.0 <1 20.0 30.0 <1 20.0 18.0 45.0 45.0 18.4 7.5 30.2	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.79 8.09 7.99 8.09 7.99 8.26 8.12	0.479 alk42 mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 590 330 288	CO,000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	546 Unionized Wh3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.00180 0.00181 <0.0006 0.00181 <0.0006 0.00181 <0.0006 0.00180 0.00082 <0.0002 <0.0002 <0.0002	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 620 1100 600 740 1600 853 976 758	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.007 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 <0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	125 DO mg/L 9 4 6 4 10 9 10 6 6 6 6 7 7 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-08-23 2014-08-23 2014-08-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2016-11-11 2016-11-18 2017-08-17 2017-08-29	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.050 <0.050 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000	NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.24 <0.5 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.1	mg/L 85.0 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 30.0 <1 20.0 18.0 <1 45.0 18.4 7.5 30.2 16.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.79 7.94 7.87 7.92 8.09 7.99 8.26 8.12	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 340 570 380 200 280 590 390 288 284 254	CO,000005 NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 <	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00139 <0.0006 0.00139 <0.0006 0.00130 0.00162 0.0006	2.03 Cond. mg/L 779 552 691 502 510 960 620 1100 940 940 1000 600 740 1600 853 976 758	0.087 Phenois 0.001 mg/L <0.001 0.007 0.007 0.007 0.007 0.004 <0.001 0.011 0.017 0.001 0.017 0.001 0.017 0.001 0.017 0.001 0.017 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 4 7 7 7 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 8.8 8.8 8.8 8.8	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 296 1290 886 537 626 1146 542 408 408
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-21 2011-08-25 2012-08-30 2012-10-23 2013-08-24 2013-08-22 2013-08-20 2013-10-17 2014-05-22 2013-08-25 2015-08-25 2015-08-25 2015-08-25 2016-08-10 2016-08-08 2016-11-01 2016-11-18 2016-11-18 2017-08-27	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	0.002 804 85.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 41 20.0 30.0 41 20.0 18.0 41 45.0 18.4 7.5 30.2	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 7.99 8.26 8.12	0.479 alk42 ** mg/L 254 182 262 170 400 310 220 240 340 210 570 380 200 280 590 288 254 360 300	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	546 Unionized Whi3-N Unionized Whi3-N Unionized Whi3-N Unionized Whi3-N Unionized Whi3-N Unionized Unioniz	2.03 Cond. mg/L 779 552 691 502 510 1000 620 1100 940 580 1400 1400 600 740 1600 853 976 758	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 4 7 7 7 7	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.11 8.53 7.56 8.4 8.4 8.4 8.4 8.43	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6 8.8 8.8 15.2 4.7	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 582 585
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-25 2012-08-30 2012-10-32 2013-08-24 2013-08-24 2013-08-24 2013-08-25 2014-08-21 2014-10-09 2015-05-21 2016-05-10 2016-05-10 2016-09-08 2016-11-18 2016-11-18 2017-08-77 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-08-79 2017-10-24 2018-08-29 2017-10-24	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10	mg/L 85.0 54.0 27.0 13.0 31.0 9.0 <1 20.0 30.0 <1 41 45.0 18.4 7.5 30.2 16.0 2.6 17.0 6.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.94 7.87 7.92 8.09 7.99 8.26 8.12 8.00 7.90 8.00 8.24	0.479 alk42 ** mg/L 254 182 262 185 170 400 210 220 440 210 570 380 200 280 590 330 390 288 254 360 300 251	CO,000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	546 Unionized Wh3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0008 0.01620 0.0008 0.01625 0.01625 0.01625 0.01626 0.00140 0.00140 0.00023 0.00023 <0.00023 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	2.03 Cond. mg/L 779 552 691 502 510 1000 960 620 11100 940 1400 600 740 1600 853 976 758 643	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 0.007 <0.001 0.007 <0.001 0.004 <0.001 0.011 0.011 0.011 <0.001 0.001	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 7 7 7 7 7 9	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56 8.4 8.4 8.43 6.83 7.27	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6 8.8 8.8 15.2 4.7 21.7	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 582 585
2020-10-06 Param PWQO - Action** Units - 2011-01-21 2011-05-31 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-08-22 2014-08-21 2014-08-22 2015-08-25 2015-08-25 2015-08-20 2016-09-08 2016-11-01 2016-11-18 2016-11-18 2016-11-17 2017-08-29 2017-10-24 2018-08-22 2017-10-24	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.0001 <0.005 <0.0001 <0.05 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.020 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.010 <0.010 <0.010 <0.010 <0.010 <0.033	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <	0.002 804 85.0 85.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 45.0 18.4 7.5 30.2 16.0 2.6 17.0 6.0 2.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.96 7.97 7.92 8.09 8.26 8.12 8.00 7.90 8.09 8.24	0.479 alk42 ** mg/L 254 182 262 185 170 400 340 210 340 210 220 280 590 288 590 288 254 360 300 251 408	CO,000005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	546 Unionized Whi3-N WH3-N 0.02 0.8 mg/L <0.0005 0.0005 0.0005 0.0005 0.0003	2.03 Cond. 779 552 691 502 510 1000 940 1100 940 1100 1400 1400 1400	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.011 0.001 0.003 0.006 0.002	125 DO mg/L 9 4 6 4 10 9 10 6 6 6 7 7 7 7 7 9 9 3	7.94 7.42 8.14 7 6.6 7.68 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.7 7.47	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 6 16.1 14.4 6.6 8 8.8 8.8 8.8 8.8 8.8 7.7 17.2	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 408 582 585 4441 529
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-25 2012-05-18 2012-05-30 2012-10-23 2013-08-29 2013-08-20 2013-10-17 2014-05-23 2014-05-23 2014-05-20 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2016-11-18 2016-11-18 2017-05-17 2017-08-25 2017-08-26 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.005 <0.005 <0.005 <0.005 <0.005 <0.05 <0.05 <0.05 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.0	mg/L 85.0 85.4 85.0 27.0 13.0 13.0 9.0 <1 20.0 30.0 <1 20.0 18.0 45.0 45.0 18.4 7.5 30.2 26.0 16.0 2.0 16.0 2.0 16.0	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 7.99 8.26 8.12 8.00 7.90 8.09 8.24 8.04	0.479 alk42 mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 590 380 288 254 408 360 251 408 400 410	NH3-N mg/L <0.005 <0.00005 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	546 Unionized Windows WH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.000843 0.01090 0.000843 0.01090 0.00100 0.00100 0.00161 <0.0005 0.00161 <0.0005 0.00161 0.00020 0.00161 0.00020	2.03 Cond. mg/L 779 552 691 502 510 1000 620 11000 620 11000 600 740 1400 1600 680 758 643 976 758	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 0.001 0.011 0.011 0.011 0.011 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 4 7 7 7 7 7 9 3 3	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.33 7.56	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6 8 8 8.8 8.8 15.2 4.7 21.7 17.2	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 537 626 1146 542 317 408 408 408 582 585 4441 529 529
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-08-18 2012-08-18 2012-08-32 2013-08-29 2013-10-17 2014-08-23 2014-08-23 2014-08-23 2016-08-08 2016-08-08 2016-11-01 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2016-11-08 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.020 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.	NO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 0.55**	mg/L 85.0 85.0 85.0 95.1 31.0 13.0 9.0 <1 20.0 30.0 <1 20.0 18.0 18.4 7.5 30.2 16.0 2.6 17.0 2.6 17.0 2.7 18.0 2.7 18.0 2.7 18.0 2.7 18.0 2.7 18.0 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.79 7.94 7.87 7.92 8.09 7.99 8.26 8.12 8.00 7.90 8.09 8.04 8.04 8.04	0.479 alk42	COUNTY C	546 Unionized NH3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01050 0.01050 0.01050 0.00162 0.00065 0.00067 0.00067 0.00067 0.0007	2.03 Cond. mg/L 779 552 691 502 5100 960 620 1100 940 940 1400 1000 6853 976 758 643 937 774 612 960 955	0.087 Phenois 0.001 mg/L <0.001 0.007 0.007 0.007 0.007 0.004 <0.001 0.011 0.017 <0.001 0.011 0.017 0.001 0.008 0.001 0.008 0.001 0.008 0.001 0.008 0.001 0.008 0.008 0.001 0.008	125 DO mg/L 9 4 6 4 10 9 9 10 6 6 8 7 7 7 7 7 7 9 3 3 9	7.94 7.42 8.14 7 6.6 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56 8.4 8.4 8.4 8.4 8.4 8.43 6.83 7.27 7.47 7.47 7.37	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 8.8 8.8 8.8 15.2 4.7 21.7 17.2 2	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 1266 1290 886 537 626 1146 542 317 408 408 408 552 585 4411 529 529
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-32 2011-08-32 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-08-22 2013-08-29 2013-10-17 2014-08-21 2014-08-21 2014-08-21 2015-08-25 2015-08-20 2016-08-10 2016-08-10 2016-11-01 2016-11-08 2017-08-17 2017-08-17 2017-08-29 2017-10-24 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.050 <0.0001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003	MO2-N MO2-N MO32 MO2-N MO3	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.55*	0.002 804 85.0 85.0 95.4 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 14.0 15.0 16.0 16.0 16.0 17.0 6.0 2.0 1.6 27.0 4.5	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.76 7.96 7.87 7.92 8.09 8.26 8.12 8.00 7.90 8.09 8.24 8.02 7.86	0.479 alk42 ** mg/L 254 182 262 170 400 310 220 240 340 210 570 380 200 280 590 288 254 360 300 251 408 410 276	COUNTY C	546 Unionized Whi3-N Wh3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.00130 0.00130 0.00161 0.00161 0.00161 0.00161 0.00062 0.00020 0.000020 0.000020 0.000020 0.000000	2.03 Cond. mg/L 779 552 691 502 510 1000 940 1100 940 1400 1000 600 740 1600 853 976 758 643 937 774 612 960 955 748 600	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.001 <0.001 <0.001 <0.001 0.011 0.011 0.011 0.011 0.010 <0.001 <0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.002	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 4 7 7 7 7 7 9 3 3 9 7	7.94 7.42 8.14 7 6.6 7.78 7.765 7.61 8.37 7.54 8.17 8.53 7.56 8.53 7.56 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.8 8.8 8.8	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 6.6 6 6 8.8 8.8 15.2 4.7 21.7 17.2 2 10.5	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 408 582 585 441 529 529 529 324
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-24 2011-10-5-18 2011-08-24 2011-10-23 2012-08-30 2012-10-23 2013-08-24 2013-08-22 2013-08-29 2013-10-17 2014-08-22 2014-10-09 2015-05-21 2016-08-10 2016-08-10 2016-11-18 2016-11-18 2016-11-18 2017-08-17 2017-08-29 2017-10-5-72 2018-08-22 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-6-2 2018-10-16-2 2018-10-6-2 2018-10-6-2 2018-10-6-2	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 0.00002 0.00002 0.00002 0.00002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.020 0.020 0.040 0.029	mg/L 85.0 85.0 85.0 85.0 95.0 13.0 13.0 13.0 9.0 <1 20.0 30.0 18.0 <1 45.0 18.0 47.5 30.2 16.0 2.6 17.0 2.6 17.0 4.5 30.2 2.6 17.0 4.5 5.3	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 8.18 7.84 7.94 7.76 8.18 7.87 7.72 8.09 7.99 8.26 8.12 8.00 7.90 8.09 8.09 7.90 8.09 7.90 8.09 7.90 8.00 8.00	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 590 330 288 254 408 410 276 230 335	COUNTY C	546 Unionized Whi3-N M-3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.0105 0.01628 0.0105 0.01626 0.0013 0.0105 0.0013 0.0105 0.0013 0.0002 0.00140 0.0006 0.0002 0.0002 0.0002 0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012 <0.00012	2.03 Cond. mg/L 779 552 691 502 510 1000 620 11000 620 11000 600 740 1600 853 976 758 643 937 774 612 960 965 955 748 600 700	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.007 <0.007 <0.001 <0.001 <0.001 0.007 <0.001 0.001 0.011 0.011 0.011 <0.001 0.001	125 DO mg/L 9 4 6 4 10 9 10 6 8 8 6 4 7 7 7 7 7 7 7 9 3 3 9 7 9	7.94 7.42 8.14 7 6.6 7.68 7.765 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56 8.4 8.4 8.43 8.43 6.83 7.27 7.47 7.38 8.03 8.23	3.3 Field T 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6 8.8 15.2 4.7 17.2 17.2 17.2 17.2 10.5 13.1	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 537 626 1146 542 317 408 408 582 585 441 529 324 357 371
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-32 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-12 2014-05-23 2014-08-21 2014-10-09 2015-08-25 2015-08-20 2016-08-08 2016-11-01 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-08-29 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.050 <0.0001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 804 85.0 85.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 45.0 30.2 16.0 27.0 17.0 6.0 27.0 4.5 5.3 8.3	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.96 7.97 7.92 8.09 8.26 8.12 8.00 7.90 8.09 8.24 8.02 7.86 7.88 7.89 7.99	0.479 alk42 ** mg/L 254 182 262 185 170 400 340 210 340 210 280 590 288 590 288 254 360 300 251 408 410 276 230 335 264	COUNTY C	546 Unionized Whi3-N WH3-N 0.02 0.8 mg/L <0.0005 0.0005 0.0005 0.0003 0.00139 <0.0006 0.00083 0.0105 0.00083 0.0105 0.00083 0.00162 0.00083 0.00160 0.00083 0.00160 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00084 0.00085	2.03 Cond. mg/L 779 552 691 502 510 1000 940 1100 940 1100 1400 1400 1400	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.011 0.001 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004	125 DO mg/L 9 4 6 4 10 9 10 6 6 6 7 7 7 7 7 7 9 3 3 9 7 9 11	7.94 7.42 8.14 7 6.6 7.68 9.51 7.37 7.65 7.61 8.37 7.54 8.14 8.53 7.56 8.9 8.01 8.53 7.56	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 8.8 8.8 8.8 8.8 15.2 4.7 21.7 21.7 22 10.5 13.1 0.5	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 408 582 585 441 529 529 324 357 371 243
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-08-21 2011-08-25 2012-08-30 2012-10-23 2013-08-24 2013-08-20 2013-10-17 2014-08-21 2014-08-21 2014-08-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2016-01-08-25 2017-08-26 2017-08-26 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-28 2019-08-28 2019-08-28 2019-08-28 2019-08-28 2019-08-28 2019-08-28 2019-08-28	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.0002 <0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.014 <0.02 <0.019 <0.019 <0.010 <0.019 <0.010 <0.029 0.040 0.029 1.040 0.049	mg/L 85.0 85.4 95.4 95.0 13.0 13.0 13.0 13.0 13.0 14.0 20.0 30.0 41 20.0 30.0 41 45.0 18.4 7.5 30.2 16.0 2.0 16.0 2.0 16.0 2.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.96 7.87 7.92 8.09 8.26 8.12 8.00 7.90 8.24 8.04 8.02 7.86 7.89 7.89 7.89	0.479 alk42 ** mg/L 254 182 262 185 170 400 310 220 440 210 570 380 200 280 590 280 390 288 254 400 251 400 300 251 400 261 360 261 360 261 360 261 360 261 360 261 408 360 261 408 360 261 408 261 408 262 400 264 264	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	546 Unionized Whi3-N Wh3-N 0.02 0.8 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.01628 0.000843 0.01050 0.00843 0.01050 0.00843 0.0006 0.00161 <0.0006 0.00161 <0.0006 0.00161 0.00020 0.00160 0.00020 0.00010000000000	2.03 Cond. mg/L 779 552 691 502 510 1000 620 11000 620 11000 630 1400 1000 600 740 1600 853 976 758 643 937 774 612 960 700 700 612	0.087 Phenois 0.001 mg/L <0.001 <0.001 0.007 0.007 <0.001 0.004 0.001 0.011 0.011 0.011 0.011 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	125 DO mg/L 9 4 6 4 10 9 10 6 8 6 4 7 7 7 7 7 7 9 3 3 9 7 9 11 8	7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 7.56 8.83 7.56 8.4 8.43 8.43 8.43 8.43 8.43 8.43 8.43	3.3 Field T 11.8 18.1 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 6 6 8 8 8.8 15.2 4.7 21.7 17.2 2 17.2 2 10.5 13.1 0.5 14.3	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 408 582 585 441 529 324 324 337 243
2020-10-06 Param PWQO - Action** Units - 2010-10-21 2011-05-31 2011-08-32 2011-08-24 2011-10-25 2012-08-30 2012-10-23 2013-05-12 2014-05-23 2014-08-21 2014-10-09 2015-08-25 2015-08-20 2016-08-08 2016-11-01 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-08-29 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22	Duplicate	0.001 Pb 0.003 mg/L <0.05 <0.05 <0.001 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 0.00002 0.00002 0.00002 0.00002	0.926 Zn 0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	MO2-N mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	0.000006 NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	0.002 804 85.0 85.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 45.0 30.2 16.0 27.0 17.0 6.0 27.0 4.5 5.3 8.3	0.0006 pH 6.5 - 8.5 n/a 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.96 7.97 7.92 8.09 8.26 8.12 8.00 7.90 8.09 8.24 8.02 7.86 7.88 7.89 7.99	0.479 alk42 ** mg/L 254 182 262 185 170 400 340 210 340 210 280 590 288 590 288 254 360 300 251 408 410 276 230 335 264	COUNTY C	546 Unionized Whi3-N WH3-N 0.02 0.8 mg/L <0.0005 0.0005 0.0005 0.0003 0.00139 <0.0006 0.00083 0.0105 0.00083 0.0105 0.00083 0.00162 0.00083 0.00160 0.00083 0.00160 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00083 0.00084 0.00085	2.03 Cond. mg/L 779 552 691 502 510 1000 940 1100 940 1100 1400 1400 1400	0.087 Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.011 0.011 0.011 0.011 0.001 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.003 0.004 0.003 0.003 0.004 0.003 0.004	125 DO mg/L 9 4 6 4 10 9 10 6 6 6 7 7 7 7 7 7 9 3 3 9 7 9 11	7.94 7.42 8.14 7 6.6 7.68 9.51 7.37 7.65 7.61 8.37 7.54 8.14 8.53 7.56 8.9 8.01 8.53 7.56	3.3 Field T 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6 8 8.8 8.8 8.8 8.8 15.2 4.7 21.7 21.7 22 10.5 13.1 0.5	40 Field Cond 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537 626 1146 542 317 408 408 408 582 585 441 529 529 324 357 371 243

0.00012 0.005 <0.010 <0.0

Bold denotes exceedance of PWQO (1994) criteria
NA - Not Analyzed
Underline indicates exceedance of Action Criteria
*Nitrate plus Nitrite

* should not be decreased by more than 25% of the natural concentration * - action level according to trigger mechanism

Station:						_										
Param	ieter -	As	В	Ва	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -		0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
Trigger -			1.5													187
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2010-05-18								0.58			1.40	0.019	75	<2	4	14
2010-08-25		<0.2	0.04	0.03	< 0.005	<0.01	<0.02	1.8	<0.0001	200	1.70	0.073	97	<2	2	14
2010-10-21		<0.2	0.03	0.03	< 0.005	<0.01	<0.02	0.36	<0.0001	192	0.70	0.016	64	<2	<1	14
2011-05-31								0.51			1.30	0.050	72	<2	3	13
2011-08-24		<0.2	0.05	0.03	< 0.005	<0.01	<0.02	0.97	<0.0001	228	1.30	0.090	91	<2	228	13
2011-10-25		<0.2	0.03	0.02	< 0.005	<0.01	<0.02	0.4	<0.0001	224	7.30	0.042	68	<2	2	13
2012-05-18								0.44			1.10	0.081	72	<2	2	16
2012-08-30		<0.2	0.05	0.03	< 0.005	< 0.01	< 0.02	0.89	< 0.0001	180	1.70	0.099	96	<2	11	13
2012-10-23		< 0.2	0.03	< 0.02	< 0.005	< 0.01	< 0.02	0.37	< 0.0001	184	1.30	0.011	78	<2	<1	14
2013-05-24								0.30			1.50	0.043	69	<2	<1	26
2013-08-29		<0.2	0.06	0.048	< 0.005	< 0.01	< 0.02	1.5	< 0.0001	334	1.90	0.130	110		6	23
2013-10-17		<0.2	0.05	0.028	< 0.005	< 0.01	< 0.02	0.9	< 0.0001	272	1.40	0.049	96	2	<1	15
2014-05-23								0.26			1.20	0.032	79	<2	<1	25
2014-08-21		<0.2	0.1	0.065	< 0.005	< 0.01	<0.02	3.8	< 0.0001	382	2.20	0.310	120	2	10	26
2014-10-09		<0.2	0.09	0.038	< 0.005	< 0.01	<0.02	1.4	< 0.0001	292	1.30	0.065	75	2	9	13
2015-05-21								0.45			1.10	0.042	68	<2	<1	21
2015-08-25		<0.2	0.14	0.035	< 0.005	<0.01	<0.02	2.6	<0.0001	348	1.60	0.140	98	2	5	28
2015-10-20		<0.2	0.14	0.034	<0.005	<0.01	<0.02	2.3	<0.001	322	1.00	0.110	95	<2	4	18
2016-05-10		0.2	0	0.001	0.000	0.01	10.02	0.704	0.001	022	1.18	0.050	82		6	25
2016-09-08		0.0009	0.297	0.025	<0.00001	<0.001	0.0003	0.544	<0.00001	292	1.53	0.097	104	<6	<4.0	28
2016-11-01		0.0005	0.210	0.028	<0.00001	<0.001	0.0004	0.236	<0.00001	276	1.21	0.030	89	<6	<4.0	26
2016-11-18		0.0000	0.202	0.020	-0.00001	10.001	0.0004	0.200	-0.00001	210	1.21	0.000	- 00	-0	17.0	27
2016-11-18	Duplicate		0.217													16.8
2017-05-17	Duplicate		0.217					0.38			1.20	0.053	72	<3	<4	16.9
2017-05-17	Duplicate		0.199					0.30			1.20	0.000	12	~3	~ 4	17
	Duplicate	0.0000		0.035	<0.00002	<0.001	0.0002	2.1	0.000003	276	1.90	0.042	110	NA	<4	20
2017-08-29 2017-10-24	-	0.0008	0.360 0.320	0.035	<0.00002	<0.001	0.0002		0.000003	276	1.40	0.042	94	8.0	<4 <4	∠∪
		0.0010		0.030	<0.00002	<0.001	0.0002	1	0.000002	2/4						40
2018-05-29		0.0040	0.360	0.005	-0.00000	-0.004	0.0040	0.71	0.000000	000	1.40	0.100	97	<6	<4	18
2018-08-22		0.0010	0.420	0.035	<0.00002	<0.001	0.0012	0.87	0.000003	292	2.80	0.320	130	9.0	72	16
2018-10-16		0.0007	0.410	0.019	<0.00002	<0.001	0.0005	0.13	0.000003	262	1.50	0.048	91	4.0	<4	19
2019-05-29		0.0009	0.370	0.021	<0.00002	0.0018	0.0014	0.71			1.50	0.060	80	2.1	4.9	22
2019-08-28		0.0010	0.379	0.029	<0.000005	0.0008	<0.0005	1.77	<0.000005	276	1.75	0.166	123	2.7	3.1	16.3
2019-10-29		0.0007	0.342	0.017	0.0000053	0.001	<0.001	0.572	<0.000005	221	0.94	0.033	90	<2	2.4	14.8
2020-05-27			0.331					0.53		284	1.60	0.060	80	3.1	4.8	25
2020-08-18		0.001	0.349	0.026	<0.000005	0.001	<0.0005	0.932	<0.000005	289	1.86	0.118	103	2.4	<3	14
2020-10-06		0.001	0.370	0.022	< 0.000005	0.001	< 0.0005	0.838	< 0.000005	246	1.80	< 0.075	100	<2	<3	14
										Unionized						
Param	neter -	Pb	Zn	NO2-N	NO3-N	SO4	pН	alk42	NH3-N		Cond.	Phenols	DO	Field pH	Field T	Field Cond
Param PWQO -	neter -	Pb 0.003	Zn 0.02	NO2-N		SO4	pH 6.5 - 8.5	alk42		Unionized	Cond.	Phenois 0.001	DO	Field pH	Field T	Field Cond
PWQO -	eter -			NO2-N		SO4		alk42		Unionized NH3-N	Cond.		DO	Field pH	Field T	Field Cond
	neter -			NO2-N mg/L	NO3-N			*	NH3-N	Unionized NH3-N 0.02 0.02		0.001		Field pH	Field T	Field Cond
PWQO - Trigger -	eter -	0.003	0.02			SO4 mg/L <1	6.5 - 8.5	# mg/L 67		Unionized NH3-N 0.02	Cond. mg/L 177		DO mg/L 8	Field pH	Field T	Field Cond
PWQO - Trigger - Units - 2010-05-18	neter -	0.003 mg/L	0.02 mg/L	mg/L <0.01	MO3-N mg/L <0.1	mg/L <1	6.5 - 8.5 n/a 7.40	* mg/L 67	NH3-N mg/L 0.05	Unionized NH3-N 0.02 0.02 mg/L	mg/L 177	0.001 mg/L <0.001	mg/L 8	7.63	17	
PWQO - Trigger - Units - 2010-05-18 2010-08-25	neter -	0.003 mg/L <0.05	0.02 mg/L <0.01	mg/L <0.01 <0.01	MO3-N mg/L <0.1 <0.1	mg/L <1 <1	6.5 - 8.5 n/a 7.40 7.70	* mg/L 67 123	MH3-N mg/L 0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005	mg/L 177 301	0.001 mg/L <0.001 <0.001	mg/L	7.63 7.30	17 18.6	
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21	neter -	0.003 mg/L	0.02 mg/L	mg/L <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1	mg/L <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55	* mg/L 67 123 109	mg/L 0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005	mg/L 177 301 587	0.001 mg/L <0.001 <0.001	mg/L 8 5 7	7.63 7.30 8.17	17 18.6 6.7	171
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31	neter -	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59	* mg/L 67 123 109 74	mg/L 0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005	mg/L 177 301 587 199	0.001 mg/L <0.001 <0.001 <0.001	mg/L 8 5 7	7.63 7.30 8.17 7.18	17 18.6 6.7 11.4	171
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24	neter -	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.63	* mg/L 67 123 109 74 122	mg/L 0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292	0.001 mg/L <0.001 <0.001 <0.001 <0.001	mg/L 8 5 7 7 6	7.63 7.30 8.17 7.18 8.19	17 18.6 6.7 11.4 18.1	171 199 306
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25	neter -	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.93	* mg/L 67 123 109 74 122 111	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 292	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 0.003	mg/L 8 5 7 7 6	7.63 7.30 8.17 7.18 8.19 7.66	17 18.6 6.7 11.4 18.1 4.3	171 199 306 337
PWQ0 - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18		0.003 mg/L <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48	* mg/L 67 123 109 74 122 111 100	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0	mg/L 177 301 587 199 292 292 260	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005	mg/L 8 5 7 7 6 10	7.63 7.30 8.17 7.18 8.19 7.66 6.29	17 18.6 6.7 11.4 18.1 4.3	171 199 306 337 540
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-02-5 2012-05-18 2012-08-30		0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74	* mg/L 67 123 109 74 122 111 100 130	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 1777 301 587 199 292 292 260 320	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.003 0.005 <0.001	mg/L 8 5 7 7 6 10 8	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50	17 18.6 6.7 11.4 18.1 4.3 18 18.3	171 199 306 337 540 435
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23		0.003 mg/L <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74 7.37	* mg/L 67 123 109 74 122 111 100 130 72	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 292 292 260 320 210	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 <0.001	mg/L 8 5 7 7 6 10 8 7	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3	171 199 306 337 540 435 216
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2012-05-18 2012-08-30 2012-10-23 2013-05-24		0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74 7.37	* mg/L 67 123 109 74 122 111 100 130 72 88	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.076 0.073	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 1777 301 587 199 292 292 260 320 210 250	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 <0.001 0.005	mg/L 8 5 7 7 6 10 8 7 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6	171 199 306 337 540 435 216 278
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-08-24 2013-08-29		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.48 7.74 7.37 7.66 7.80	* mg/L 67 123 109 74 122 111 100 130 72 88 160	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0	mg/L 177 301 587 199 292 292 260 320 210 250 420	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.003 0.005 <0.001 <0.005 <0.001 <0.005 <0.001 <0.005	mg/L 8 5 7 7 6 10 8 7 9 8	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3	171 199 306 337 540 435 216 278 545
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-02-25-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-08-10-17		0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70	mg/L 67 123 109 74 122 111 100 130 72 88 160	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 <-0.0005 <-0.0005 <-0.0005 <-0.0005 0.0019 0.00023 0.00070 0.00179 <-0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.0001 0.005 0.0001 0.0001 0.0001 0.0001	mg/L 8 5 7 7 6 10 8 7 9 8 5	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5	171 199 306 337 540 435 216 278 545 314
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-24 2011-10-3-3 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46	* mg/L 67 123 109 74 122 111 100 130 72 88 120 96	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 40.0005	mg/L 1777 301 587 292 292 260 320 210 250 420 340 270	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 <0.001 0.006 0.009	mg/L 8 5 7 7 6 10 8 7 9 8 5 7	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5	171 199 306 337 540 435 216 278 545 314 313
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-25 2012-05-18 2012-05-18 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2013-05-23 2014-05-23 2014-08-21		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.70	* mg/L 67 123 109 74 122 111 100 130 72 88 160 120 96 160	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 0.096	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 189 292 292 260 320 210 250 420 340 270 410	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.006 <0.001 0.006 <0.001 0.006 <0.001 0.006 0.009 <0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1	171 199 306 337 540 435 216 278 545 314 313 468
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-0-25-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-00-09		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 41	6.5 - 8.5 n/a 7.40 7.70 7.59 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64	mg/L 67 123 109 74 122 111 100 130 72 88 160 120 96 160 140	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.005 <0.001 0.006 0.006 0.009 0.009 0.0001 0.0001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 9 8	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1	171 199 306 337 540 435 216 278 545 314 313 468 352
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2014-05-21 2014-10-10 2015-05-21		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.44 7.77 7.66 7.80 7.70 7.46 7.71 7.64 6.88	* mg/L 67 123 109 74 122 111 100 130 72 88 120 96 160 140 75	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.002 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00079 <0.00079 <0.00079 <0.00079 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.	mg/L 1777 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.006 0.009 <0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 9 8 5 7 7 7 9 8 7 9 9 9 9 9 9 9 9 9 9 9 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1	171 199 306 337 540 435 216 278 545 314 313 468 352 197
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-01-10-23 2014-08-21 2014-08-21 2014-08-21 2014-08-21 2014-08-21		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.59 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.64 6.88 7.31	* mg/L 67 123 109 74 122 111 100 130 72 88 160 140 96 160 1410 75 110	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 <0.05 <0.05 0.096 0.096 0.096	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00079 <0.00079 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.000	mg/L 1777 301 587 199 292 292 260 210 250 420 270 410 370 200 310	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.006 0.009 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 9 8 5 7 9 8 5 7 9 8 6 6 6 7 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 3012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2014-05-23 2015-05-21 2015-08-25 2015-10-20		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 41	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.60 7.70 7.46 6.88 7.31 7.74	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 140	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.0001 <0.0001 0.003 0.005 <0.001 <0.001 0.006 <0.001 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 5 7 6 10 8 7 9 8 5 7 7 6 6 6 6 6	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-05-24 2013-05-21 2014-08-21 2014-08-21 2014-08-21 2014-10-09 2015-05-21 2015-10-20 2016-05-10 2016-05-10 2016-05-10 2016-05-10		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 41	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90	mg/L 67 123 109 74 122 111 100 130 72 88 160 120 96 160 140 75 110 140 129	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.05 0.058 0.076 0.073 0.083 <0.05 <0.05 <0.05 0.096 0.096 0.062 0.063	Unionized NH3-N 0.02 0.02 mg/L 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00019 0.000179 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0009 0.0009	mg/L 177 301 587 199 292 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.005 <0.001 0.006 0.009 <0.001 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 9 8 5 7 9 8 5 7 9 8 6 6 6 7 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-24 2011-08-24 2011-02-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2014-08-20 2014-10-09 2015-05-21 2015-08-25 2015-08-25 2015-10-20 2016-05-10 2016-05-0		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.68 7.71 7.71 7.68 7.71 7.72 7.70	* mg/L 67 123 109 74 122 111 100 130 72 88 160 140 75 110 140 129 155	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.083 <0.076 0.073 0.083 <0.05 <0.05 <0.05 <0.05 0.096 0.096 0.096 0.096 0.062 <0.05 0.086	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 260 320 210 250 420 340 270 410 310 400 3310 400 338	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.006 0.009 <0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 9 8 6 6 6 6 6 6 6 6 6 6 6 6 6	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 8.35 7.40 6.52 6.54 7.32 8.88	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	171 199 306 337 540 216 278 545 314 313 468 352 197 295 367 297
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2014-05-23 2015-08-25 2015-10-20 2016-05-10 2016-05-10 2016-09-08 2016-11-01		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 41	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90	mg/L 67 123 109 74 122 111 100 130 72 88 160 120 96 160 140 75 110 140 129	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 0.096 0.062 <0.05 0.088 0.044	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.005 <0.001 0.006 0.009 <0.001 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 6 10 8 7 9 8 5 7 7 6 6 6 6 6	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-30 2012-08-30 2012-10-23 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2015-08-25 2015-05-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2016-11-18		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.68 7.71 7.71 7.68 7.71 7.72 7.70	* mg/L 67 123 109 74 122 111 100 130 72 88 160 140 75 110 140 129 155	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.062 <0.05 0.063 0.086 0.062 0.086 0.084 <0.02	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 260 320 210 250 420 340 270 410 310 400 3310 400 338	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.006 0.009 <0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 9 6 6 6 6 6 6 6 6 6 6 6 6 6	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 8.35 7.40 6.52 6.54 7.32 8.88	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	171 199 306 337 540 216 278 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-05-24 2013-05-21 2014-08-21 2014-08-21 2014-08-20 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-05-10 2016-05-10 2016-11-11 2016-11-18 2016-11-18		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.79 7.96 8.02	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 129 155 186	mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.063 0.073 0.083 <0.05 <0.05 <0.05 0.096 0.096 0.096 0.096 0.096 0.086 0.044 <0.02 <0.02	Unionized NH3-N 0.02 0.002 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 8 7 9 8 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 6.52 6.54 7.32 8.88	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-05-24 2013-05-24 2013-05-25 2014-05-23 2014-05-23 2014-05-25 2015-10-20 2016-05-10 2016-05-10 2016-09-08 2016-11-18 2017-05-17 2014-10-19 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2016-05-10 2016-05-10 2016-05-10 2016-11-18 2017-05-17 2015-11-18 2017-05-17 2015-05-18 2015-05-	Duplicate	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.68 7.71 7.71 7.68 7.71 7.72 7.70	* mg/L 67 123 109 74 122 111 100 130 72 88 160 140 75 110 140 129 155	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 0.096 0.062 <0.05 0.088 0.044 <0.02 0.081	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 260 320 210 250 420 340 270 410 310 400 3310 400 338	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.006 0.009 <0.001 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 7 6 10 8 8 7 9 9 8 5 7 7 8 9 9 9 9 10	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11	171 199 306 337 540 435 216 218 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-05-24 2013-05-21 2014-08-21 2014-08-21 2014-08-20 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-05-10 2016-05-10 2016-11-11 2016-11-18 2016-11-18	Duplicate	 0.003 mg/L <0.05 <0.00 <	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90 7.96 8.02	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 129 155 186	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 <0.05 0.062 <0.05 0.088 0.044 <0.02 <0.081	Unionized NH3-N 0.02 0.02 mg/L 0.0004 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00109 0.0005 0.00064 0.00064 0.00060 0.00029 0.000190 0.00096	mg/L 1777 301 587 199 292 292 292 260 320 210 250 420 340 270 410 370 200 330 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 <0.001 0.006 0.009 0.001 <0.001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 8 7 9 8 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-05-24 2013-05-24 2013-05-25 2014-05-23 2014-05-23 2014-05-25 2015-10-20 2016-05-10 2016-05-10 2016-09-08 2016-11-18 2017-05-17 2014-10-19 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2016-05-10 2016-05-10 2016-05-10 2016-11-18 2017-05-17 2015-11-18 2017-05-17 2015-05-18 2015-05-	Duplicate	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.005 <0.005 <0.005 <0.0002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.79 7.96 8.02	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 129 155 186	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 0.096 0.062 <0.05 0.088 0.044 <0.02 0.081	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 5 7 7 6 10 8 8 7 9 9 8 5 7 7 8 9 9 9 9 10	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11	171 199 306 337 540 435 216 218 545 314 313 468 352 197 295 367 297
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-02-5-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2014-05-23 2015-05-21 2015-05-21 2015-05-21 2015-05-10 2016-09-08 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-05-17	Duplicate	 0.003 mg/L <0.05 <0.00 <	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90 7.96 8.02	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 140 75 111 110 140 129 155 186 138	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 <0.05 0.062 <0.05 0.088 0.044 <0.02 <0.081	Unionized NH3-N 0.02 0.02 mg/L 0.0004 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00109 0.0005 0.00064 0.00064 0.00060 0.00029 0.000190 0.00096	mg/L 1777 301 587 199 292 292 292 260 320 210 250 420 340 270 410 370 200 330 340 440 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 <0.001 0.006 0.009 0.001 <0.001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 8 9 9 6 6 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-24 2011-0-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2015-05-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2016-11-18 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-05-17 2017-08-29	Duplicate	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.005 <0.005 <0.005 <0.0002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.01 <0.01 <0.00 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90 7.96 8.02 8.05	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 140 75 110 140 129 155 186 138	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.062 <0.05 0.063 0.084 0.044 0.02 0.081 0.081 0.081	Unionized NH3-N 0.02 0.002 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00079 <0.00079 <0.00079 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0	mg/L 1777 301 587 199 292 292 292 292 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.006 0.009 <0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 8 7 9 9 9 10 10 4	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11.8	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2012-05-18 2012-05-20 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-05-10 2016-11-18 2017-05-17 2017-08-29 2017-08-29 2017-08-29 2017-08-29 2017-10-24	Duplicate	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.005 <0.005 <0.005 <0.0002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.01 <0.01 <0.00 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.31 7.74 7.90 7.96 8.02 8.05	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 140 75 110 140 129 155 186 138	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.080 0.073 0.083 <0.05 0.096 0.096 0.096 0.096 0.096 0.044 <0.02 0.081 0.041 0.041 0.036 <0.015	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 0.003 0.002 0.004	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 8 7 9 6 6 6 9 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11.1 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-28 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-20 2015-08-25 2015-10-20 2016-09-08 2016-11-18 2016-11-18 2016-11-18 2017-08-17 2017-08-17 2017-08-29 2017-10-24 2018-08-29 2017-10-24 2018-08-29 2017-10-24 2018-08-29 2018-08-	Duplicate	 0.003 mg/L <0.05 <0.005 <0.000 <0.0002 	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 6.88 7.71 7.64 6.88 7.31 7.74 7.90 7.96 8.02	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 140 140 129 155 186 160 140 140 129 155 186 160 140 140 129 155 186 160 140 140 140 140 140 140 140 140 140 14	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.083 <0.05 0.096 0.096 0.096 <0.05 0.062 <0.05 0.088 0.044 <0.02 <0.02 0.041 0.36 <0.096	Unionized NH3-N 0.02 0.022 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 0.001 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L 8 5 7 6 10 8 8 7 9 8 5 7 8 7 9 9 9 10 10 4 11 7	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290 277 277 358 226 344
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-25 2015-08-10-16	Duplicate	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.0002 <0.0002 <0.0002 0.0002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.70 7.46 6.88 7.71 7.90 7.96 8.02 8.05 7.50 7.95 7.69	mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 129 155 186	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.073 0.083 <0.05 <0.05 0.096 0.096 0.096 0.096 0.096 0.081 0.044 <0.02 <0.02 0.081 0.091 0.096 <0.015 0.093 <0.015 0.094 0.041 0.041 0.036 <0.015 0.093 <0.015 0.093 <0.015 0.094 0.041 0.041 0.036 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 <0.015 0.093 0.094 0.044 0.034 0.044	Unionized NH3-N 0.02 0.02 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 0.002 0.004 0.002 0.004 0.004	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 8 7 9 9 6 6 9 9 9 10 10 10 4 11 7 4 10	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11.8 11.8 11.8 17.1 5.8 25.9 15.8 2.2	171 199 306 337 540 435 216 278 314 313 468 352 197 295 367 297 290 277 277 277 277 277 277 277 27
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2014-05-23 2014-05-23 2014-05-23 2014-05-20 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-11-18 2016-11-18 2017-05-17 2017-05-17 2017-05-17 2017-05-17 2017-05-17 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2019-05-29	Duplicate	 0.003 mg/L <0.05 <0.00 <0.00 <0.000 <0.0002 	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.0003	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.81 7.74 7.90 7.90 8.02 8.05 7.90 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 120 96 160 140 75 110 140 129 155 186 160 140 140 129 155 186 160 140 140 129 155 186 160 140 140 140 140 140 140 140 140 140 14	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.083 <0.05 0.096 0.097 0.097	Unionized NH3-N 0.02 0.022 mg/L 0.00040 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 177 301 587 199 292 292 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.006 0.009 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 0.004 0.002 0.004 0.008 0.002	mg/L 8 5 7 7 6 10 8 8 5 7 7 8 5 7 9 9 9 10 10 4 11 7 4 10 8	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 218 545 314 313 468 352 197 295 367 297 297 277 277 277 358 226 344 307 206 273
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-24 2011-0-25-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-18 2017-05-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2017-08-17 2018-08-29 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2019-08-28	Duplicate	 0.003 mg/L <0.05 <0.00 <l><0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0</l>	 0.02 mg/L <0.01 <0.00 <0	mg/L	MO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.80 7.70 7.46 8.88 7.31 7.74 7.90 7.96 8.02 8.05 7.50 7.69 7.69 7.69	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 140 129 155 186 140 140 143 98.3 1110 143	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.058 0.076 0.073 0.083 <0.05 0.096 0.096 0.096 <0.05 0.062 <0.02 <0.02 <0.02 <0.02 <0.03 0.081 0.041 0.36 <0.015 0.092 0.164	Unionized NH3-N 0.02 0.02 mg/L 0.0004 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00109 0.0007 0.00179 0.0005 0.00064 0.00064 0.00064 0.0002 0.00099 0.00044 0.00024 0.00054 0.00055	mg/L 177 301 587 199 292 292 292 290 210 250 420 340 270 410 370 200 310 400 330 388 467 409 357 331 361 350 320 320 320	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 <0.001 0.009 <0.001 <0.001 0.009 0.001 0.0001	mg/L 8 5 7 7 6 10 8 7 9 8 7 7 9 9 6 6 9 9 10 10 4 11 7 4 10 8 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 6.52 6.54 7.32 8.88 7.25 9.16 9.16 7.33 7.56 7.55 7.72 8.32 8.88	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290 277 277 358 226 344 307 206 344 307 206
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2012-05-18 2012-05-20 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2015-05-21 2014-08-21 2014-08-21 2014-08-21 2014-08-21 2014-08-21 2016-05-10 2016-05-10 2016-05-10 2016-11-01 2016-11-18 2016-11-18 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-05-17 2017-05-17 2017-05-17 2017-05-29 2018-05-29 2018-05-29 2018-05-29 2019-05-	Duplicate	 0.003 mg/L <0.05 <0.00 <0.00 <0.000 <0.0002 	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.0003	mg/L	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.71 7.90 7.96 8.02 8.05 7.90 7.90 7.96 7.90 7.90 7.96 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 140 75 110 140 129 155 186 160 140 140 143 98.3 110 143 123	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.062 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.062 <0.05 <0.063 0.086 0.044 <0.02 <0.02 <0.02 0.081 0.041 0.36 <0.015 0.09 0.34 0.047 0.92 0.164 0.039	Unionized NH3-N 0.02 0.002 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 292 292 210 250 420 340 270 410 370 200 310 400 330 388 467 409 357 331 361 350 320 320 2283	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.000	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 9 9 9 10 10 4 11 7 4 10 8 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 6.54 7.32 8.88 7.25 9.16 9.16 7.33 7.58 7.58 7.55 7.72 8.32 8.88 8.96	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 299 297 290 277 277 358 226 344 307 206 273 253 166
PWQQ - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-08-29 2013-08-29 2013-08-29 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-21 2015-05-20 2016-05-10 2016-05-10 2016-05-10 2016-11-18 2017-05-17 2017-05-17 2017-05-17 2017-05-17 2017-05-20 2018-08-22 2018-10-16 2019-05-29 2019-08-28 2019-05-29 2020-05-27	Duplicate	 0.003 mg/L <0.05 <0.005 <0.005 <0.005 <0.000 <0.0002 <0.00009 	 0.02 mg/L <0.01 <0.00 <0	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.80 7.70 7.46 7.80 7.71 7.64 6.88 7.74 7.90 7.96 8.02 8.05 7.99 7.96 7.99 7.96 8.02	* mg/L 67 123 109 74 122 111 100 130 72 88 160 120 96 160 140 129 155 186 160 140 141 143 98.3 110 143 123 185	NH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.083 <0.05 0.096 0.096 0.096 0.096 0.096 0.044 <0.02 0.081 0.041 0.036 0.096 0.096 0.096 0.044 0.02 0.015 0.096 0.096 0.044 0.02 0.015 0.096 0.041 0.041 0.036 0.041 0.041 0.036 0.041 0.041 0.039 0.171	Unionized NH3-N 0.02 0.022 mg/L 0.00040 0.0005	mg/L 177 301 189 292 292 292 292 260 320 210 250 420 340 370 200 310 400 330 388 467 409 357 331 361 360 320 320 320 320 320 320 320 320 323	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.001 <0.001 0.001	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 8 7 9 9 6 6 6 9 9 10 10 10 4 11 7 4 10 8 9 7	7.63 7.30 8.17 7.18 8.19 7.62 7.50 7.71 7.80 8.35 7.40 6.52 6.54 7.32 8.88 7.25 9.16 9.16 7.32 8.88 7.56 7.55 7.49 7.70 8.35 7.40 8.35 7.40 8.36 8.88	17 18.6 6.7 11.4 18.1 4.3 18 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 297 277 277 277 277 277 27
PWQO - Trigger - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2015-08-25 2015-10-20 2016-05-10 2016-11-01 2016-11-18 2016-11-18 2016-11-18 2017-05-17 2017-05-17 2017-05-17 2017-05-17 2017-08-29 2018-08-22 2018-10-16 2019-05-29 2018-05-29 2018-05-29 2019-05-	Duplicate Duplicate	 0.003 mg/L <0.05 <0.00 <l><0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0</l>	 0.02 mg/L <0.01 <0.00 <0	mg/L	NO3-N mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.40 7.70 7.55 7.63 7.93 7.48 7.74 7.37 7.66 7.70 7.46 7.71 7.64 6.88 7.71 7.90 7.96 8.02 8.05 7.90 7.90 7.96 7.90 7.90 7.96 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90 7.90	* mg/L 67 123 109 74 122 1111 100 130 72 88 160 140 75 110 140 129 155 186 160 140 140 143 98.3 110 143 123	MH3-N mg/L 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.062 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.062 <0.05 <0.063 0.086 0.044 <0.02 <0.02 <0.02 0.081 0.041 0.36 <0.015 0.09 0.34 0.047 0.92 0.164 0.039	Unionized NH3-N 0.02 0.002 mg/L 0.00040 0.0005	mg/L 177 301 587 199 292 292 292 292 210 250 420 340 270 410 370 200 310 400 330 388 467 409 357 331 361 350 320 320 2283	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.006 0.009 <0.001 <0.001 0.000	mg/L 8 5 7 7 6 10 8 7 9 8 5 7 7 9 9 9 10 10 4 11 7 4 10 8 9 9	7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.35 6.54 7.32 8.88 7.25 9.16 9.16 7.33 7.58 7.58 7.55 7.72 8.32 8.88 8.96	17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 11 5.7	171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290 277 277 358 226 344 307 206 277 206 273 206 273 266 277 277 277 277 277 277 277

Notes:

Bold denotes exceedance of PWQO (1994) criteria

^{*} should not be decreased by more than 25% of the natural concentration

NA - Not Analyzed
Underline indicates exceedance of Trigger Criteria
*Nitrate plus Nitrite

Parameter -	As	В	Ва	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -	0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2010-05-18		.0.00	0.00		.0.04	.0.00	5.7	0.0004	40	4.3	0.67	190	2	95	1
2010-08-25 2010-10-21	<0.2 <0.2	<0.02	<0.02 <0.02	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	9.1 1.5	<0.0001 <0.0001	46 36	1.7	0.097 0.035	110 60	3 <2	21 43	1
2011-05-31	10.2	VO.02	40.02	40.000	١٥.٥١	10.02	2.1	40.0001	30	2.6	0.190	110	<2	5	1
2011-08-24	<0.2	<0.02	0.03	<0.005	<0.01	<0.02	12	<0.0001	80	3.0	0.360	120	7	25	2
2011-10-25	<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.86	<0.0001	58	1.3	0.058	52	<2	15	<1
2012-05-18							3.7			3.5	0.038	150	18	84	2
2012-08-30 <i>Dry</i> 2012-10-23	<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	1.5	<0.0001	122	1.5	0.032	84	<2	<1	2
2013-05-24	-0.2	-0.02	-0.02	10.000	-0.01	-0.02	1.2	-0.0001	122	1.5	0.070	76	<2	4	1
2013-08-29 Dry															
2013-10-17	<0.2	<0.02	0.065	<0.005	<0.01	<0.02	7.3	<0.0001	132	4.4	0.340	220	3	190	2
2014-05-23 2014-08-21 <i>Dry</i>							1.7			1.4	0.250	67	3	26	2
2014-10-09	<0.2	<0.02	0.025	<0.005	<0.01	<0.02	2.3	<0.0001	118	1.3	0.056	80	2	6	1
2015-05-21	0.2	0.02	0.020	0.000	0.01	0.02	1.6	0.0001		1.2	0.200	110	<2	87	1
2015-08-25	<0.2	<0.02	0.021	<0.005	<0.01	<0.02	1.2	<0.0001	122	1.2	0.055	85	<2	<1	1.6
2015-10-20	<0.2	<0.02	0.058	<0.005	<0.01	<0.02	8	<0.0001	126	1.00	0.400	210	<2	180	1
2016-05-10 2016-09-08	0.0006	<0.05	0.014	<0.00001	0.0017	0.004	1.7 0.96	<0.00001	68	1.17 1.43	0.097 0.083	84 98	<6	17 74	2.2 3
2016-11-01	0.0003	<0.05	0.014	<0.00001	0.0017	0.004	0.45	<0.00001	24	1.68	0.003	113	<6	109	2.7
2017-05-17	0.0000	<0.02	0.010	0.00001	0.0011	0.000	1.60	0.00001		1.30	0.084	95	9.0	31.3	<0.5
2017-08-29	0.0007	<0.02	0.013	<0.00002	<0.001	0.001	1.90	0.000004	66	1.50	0.018	97	NA	38.5	0.53
2017-10-24	0.0008	<0.02	0.014	<0.00002	0.0014	0.002	0.90	0.000007	94	1.20	0.080	88	12.0	47	0.65
2018-05-29 2018-08-22 Dry							0.58			1.50	0.079	100	<6	12.5	<0.5
2018-10-16	0.0006	<0.02	0.014	0.00003	0.0018	0.003	0.31	0.000004	116	0.83	0.029	75	3.0	<4	<0.5
2019-05-29	0.0007	0.022	0.018	<0.00002	0.0035	0.004	1.10			1.30	0.042	80	4.1	4.1	1.8
2019-08-28	0.0011	0.017	0.029	0.00002	0.0018	0.003	3.89	<0.000005	122	2.25	0.083	110	12.8	83	0.31
2019-10-29	0.0032	<0.01	0.160	0.00012	0.0332	0.025	20.10	0.000040	103	5.30	0.845	206	17.4	743	1.4
2020-05-27 2020-08-18	0.001	<0.01 0.240	0.036	<0.000005	0.001	0.0006	1.9 1.79	<0.000005	80 236	1.09 2.00	0.042 0.074	74 126	3.1 4.6	9.2 58.6	0.56 11
2020-10-06	0.001	0.113	0.023	0.000021	0.002	0.0019	3.11	<0.000005	134	4.45	0.280	142	5.9	39.3	5
									Unionized						
Parameter -	Pb	Zn	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	NH3-N	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -	0.003	0.02				6.5 - 8.5	*		NH3-N 0.02		0.001		Field pH	Field T	Field Cond
			MO2-N mg/L <0.01	NO3-N mg/L <0.1	SO4 mg/L 30		alk42 * mg/L 6	NH3-N mg/L 0.07	NH3-N	Cond. mg/L 43		mg/L	Field pH	Field T	Field Cond
PWQO - Units -	0.003	0.02	mg/L	mg/L <0.1 <0.1	mg/L 30 <1	6.5 - 8.5 n/a	* mg/L 6 34	mg/L 0.07 <0.05	NH3-N 0.02 mg/L	mg/L 43 75	0.001 mg/L	mg/L 10 13			41
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21	0.003 mg/L	0.02 mg/L	mg/L <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1	mg/L 30 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79	* mg/L 6 34 28	mg/L 0.07 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005	mg/L 43 75 59	0.001 mg/L <0.001 0.004 <0.001	mg/L 10 13 7	7.25 6.30 8.48	16.3 16.5 6.8	41 80
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48	* mg/L 6 34 28 9	mg/L 0.07 <0.05 <0.05 0.08	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0006	mg/L 43 75 59 35	0.001 mg/L <0.001 0.004 <0.001 <0.001	mg/L 10 13 7 6	7.25 6.30 8.48 6.87	16.3 16.5 6.8 13	41 80 34
PWQ0 - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 9	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61	* mg/L 6 34 28 9 40	mg/L 0.07 <0.05 <0.05 0.08 0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007	mg/L 43 75 59 35 104	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019	mg/L 10 13 7 6 3	7.25 6.30 8.48 6.87 7.43	16.3 16.5 6.8 13 17.9	80 34 100
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48	* mg/L 6 34 28 9	mg/L 0.07 <0.05 <0.05 0.08	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0006	mg/L 43 75 59 35	0.001 mg/L <0.001 0.004 <0.001 <0.001	mg/L 10 13 7 6	7.25 6.30 8.48 6.87	16.3 16.5 6.8 13	41 80 34
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-08-24 2011-05-18 2012-05-18	0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47	* mg/L 6 34 28 9 40 15 26	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019 0.002	mg/L 10 13 7 6 3 10 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50	16.3 16.5 6.8 13 17.9 2.8 24.7	80 34 100 97 99
PWQ0 - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23	0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47	* mg/L 6 34 28 9 40 15 26	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019 0.002 0.006	mg/L 10 13 7 6 3 10 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50	16.3 16.5 6.8 13 17.9 2.8 24.7	80 34 100 97 99
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24	0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47	* mg/L 6 34 28 9 40 15 26	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019 0.002	mg/L 10 13 7 6 3 10 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50	16.3 16.5 6.8 13 17.9 2.8 24.7	80 34 100 97 99
PWQ0 - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23	0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47	* mg/L 6 34 28 9 40 15 26	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019 0.002 0.006	mg/L 10 13 7 6 3 10 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50	16.3 16.5 6.8 13 17.9 2.8 24.7	80 34 100 97 99
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry	0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5 9 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13	* mg/L 6 34 28 9 40 15 26 8.4 8.9	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 0.073 0.072	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 37	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.019 0.002 0.006 <0.001	mg/L 10 13 7 6 3 10 11 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50 6.84 9.67	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5	41 80 34 100 97 99 65 45
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 pry 2012-10-23 2013-05-24 2013-08-29 pry 2013-10-17 2014-05-23 2014-08-21 pry	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 9 18 5 9 1 <1 <1 2 2	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 59 37 62 35	0.001 mg/L <0.001 0.004 <0.001 <0.001 <0.001 0.002 0.006 -0.001 0.004	mg/L 10 13 7 6 3 10 11 9 12	7.25 6.30 8.48 6.87 7.43 6.94 6.50 	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5	80 34 100 97 99 65 45 51 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2014-10-09	0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44	mg/L 6 34 28 9 40 15 26 8.4 8.9	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.073 0.072 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00001 0.00007	mg/L 43 75 59 35 104 84 84 87 89 37 62 35	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.009 0.006 <0.001 0.004 0.006 0.006 0.006	mg/L 10 13 7 6 3 10 11 9 12 6 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50 	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6	41 80 34 100 97 99 65 45 51 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-21 2011-08-24 2011-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2015-05-21	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5 9 1 <1 <1 2	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.073 0.072 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 59 37	0.001 mg/L <0.001 0.004 <0.001 0.019 0.002 0.006 <0.001 0.004 0.007 0.006 0.008 <0.001	mg/L 10 13 7 6 3 10 11 9 12 6 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50 6.84 9.67 7.06 7.52	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6	80 34 100 97 99 65 45 51 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2014-10-09	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44	mg/L 6 34 28 9 40 15 26 8.4 8.9	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.073 0.072 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00001 0.00007	mg/L 43 75 59 35 104 84 84 87 89 37 62 35	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.009 0.006 <0.001 0.004 0.006 0.006 0.006	mg/L 10 13 7 6 3 10 11 9 12 6 11	7.25 6.30 8.48 6.87 7.43 6.94 6.50 	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6	41 80 34 100 97 99 65 45 51 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-05-23 2014-05-21 2015-08-25 2015-08-25 2016-05-10	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 1 1 1 1 1 1 6	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.009 0.006 <0.001 0.004 0.007 0.006 0.008 <0.001 <0.001 0.008 0.0001 0.0001 0.0001 0.0001	mg/L 10 13 7 6 3 10 11 9 12 6 11 5 10 6	7.25 6.30 8.48 6.87 7.43 6.94 6.50 6.84 9.67 7.06 7.52	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6	41 80 34 100 97 99 65 45 51 61 61 38 36
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-21 2011-08-24 2011-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2015-08-25 2015-08-25 2015-08-25 2015-08-25 2015-08-25 2015-10-20 2016-09-08	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 30 <1 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 1 1 6 <0.5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005	mg/L 43 75 59 35 104 84 84 59 37 62 35 59 37 33 66 31	0.001 mg/L <0.001 0.004 <0.001 0.019 0.002 0.004 <0.001 0.004 0.007 0.006 0.008 <0.001 <0.001 0.008 0.008 0.001 0.002 0.002	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5	41 80 34 100 97 99 65 45 51 61 61 38 36 53 31
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2015-08-25 2015-08-25 2015-08-25 2016-05-10 2016-09-08 2016-11-01	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 9 18 5 9 1 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.55 6.44 6.03 6.08 6.66 6.43 6.55 6.44	* mg/L 6 34 28 9 40 15 26 26 25 9 15 7.8 6.6 27 7.53 10.7 6.66	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 59 37 62 35 59 37 33 66 31 37 38	0.001 mg/L <0.001 0.004 <0.001 0.002 0.006 0.007 0.006 0.008 <0.001 <0.001 0.008 0.0001 0.002 0.001 0.002 0.001 0.0001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5	41 80 34 100 97 99 65 45 51 61 61 38 36 53 31
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 pry 2012-10-23 2013-05-24 2013-08-29 pry 2013-10-17 2014-05-23 2014-08-21 pry 2015-05-21 2015-08-25 2015-08-25 2015-09-08 2016-09-08 2016-09-08 2016-05-10 2017-05-17	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.0002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 9 18 5 1 <1 2 <1 1 1 1 1 6 <0.5 1.2	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.55 6.44 6.03 6.08 6.64 6.08 6.64 6.08 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.47 6.58	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76	mg/L 0.07 0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 0.072 <0.05 <0.05 <0.05 <0.05 0.073 0.072 <0.05 <0.05 <0.05 0.086 <0.05 <0.05 <0.05 0.083 0.043 0.043	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33	0.001 mg/L <0.001 0.004 <0.001 <0.001 0.002 0.006 -0.001 0.004 0.007 0.008 -0.001 -0.001 0.002 0.002 0.001 0.001 0.002	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 4.5 6.5 8.5	41 80 34 100 97 99 65 45 51 61 61 38 36 53 31
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2015-08-25 2015-08-25 2015-08-25 2016-05-10 2016-09-08 2016-11-01	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 9 18 5 9 1 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.55 6.44 6.03 6.08 6.66 6.43 6.55 6.44	* mg/L 6 34 28 9 40 15 26 26 25 9 15 7.8 6.6 27 7.53 10.7 6.66	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 59 37 62 35 59 37 33 66 31 37 38	0.001 mg/L <0.001 0.004 <0.001 0.002 0.006 0.007 0.006 0.008 <0.001 <0.001 0.008 0.0001 0.002 0.001 0.002 0.001 0.0001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5	41 80 34 100 97 99 65 45 51 61 61 38 36 53 31
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-01 2017-08-29 2017-10-24 2018-05-29	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.01 0.001	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 <1 9 18 5 1 <1 2 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.47 6.58	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27	mg/L 0.07 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00005 0.00005 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 38 33 65	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 -0.001 0.004 -0.001 0.006 -0.001 0.008 -0.001 -0.001 0.002 0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 6.5 8.5 13.9	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 38 92
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-08-21 2011-08-24 2011-08-24 2011-10-25 2012-08-30 2012-08-30 2013-08-29 2013-08-29 2013-08-29 2014-08-21 2015-08-25 2015-08-25 2016-09-08 2016-09-08 2017-08-29 2017-08-29 2017-08-29 2018-08-22 2018-08-29 2018-08-22 2018-08-29 2018-08-22	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.0000000000	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.02 0.020 0.020	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 9 18 5	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.55 6.44 6.03 6.66 6.43 6.56 6.44 6.08 6.66 6.60 6.60	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 11.4 9.82	mg/L 0.07 0.08 0.05 <0.05 0.08 0.05 <0.05 <0.05 0.07 0.072 <0.05 <0.05 <0.05 0.073 0.072 <0.05 0.086 0.05 <0.05 0.086 0.05 0.053 0.043 0.047 <0.015 0.028	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 33 83 33 65 41	0.001 mg/L <0.001 0.004 <0.001 0.002 0.006 -0.001 0.004 0.007 0.006 -0.001 0.008 -0.001 -0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	mg/L 10 11 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5 6.5 8.5 13.9 2.9 26.5	41 80 34 1000 97 99 65 45 51 61 61 38 36 53 31 38 38 92 34 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 2013-08-29 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-01 2017-05-17 2017-08-29 2018-08-22 Dry 2018-08-22 Dry 2018-08-29 2018-08-29 2018-08-29 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-01-16	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.0002 <0.0002 0.0002 0.0003	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.020 0.005 0.024	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.033 <0.010 <0.010 <0.010 <0.022	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.66 6.60 6.60	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 11.4 9.82 5.63	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 -0.001 0.004 -0.001 0.006 -0.001 0.006 -0.001 -0.006 -0.001 -0.001 -0.001 -0.002 0.001 -0.001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 6.5 8.5 13.9 2.9 26.5	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 38 92 34 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-08-24 2012-05-18 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2017-05-17 2017-08-29 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-22 2018-08-29 2018-08-22 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.0000000000	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.02 0.020 0.020	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.020 <0.033	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 1 1 1 6 <0.5 <0.5 1 2 <0.50 0.7 1.0	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.44 6.03 6.08 6.66 6.43 6.58 6.47 6.58 6.60 6.60 6.60	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 11.4 9.82 5.63 8.2	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.00006 0.00007 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41 37	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 -0.006 -0.001 0.008 -0.001 -0.001 -0.001 0.002 0.001 -0.001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8 10 9	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5 6.5 8.5 13.9 2.9 26.5	41 80 34 100 97 99 65 45 51 61 61 38 36 53 31 38 38 39 92 34 61
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 2013-08-29 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-01 2017-05-17 2017-08-29 2018-08-22 Dry 2018-08-22 Dry 2018-08-29 2018-08-29 2018-08-29 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-08-22 Dry 2018-01-16	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.0002 <0.0002 0.0002 0.0003	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.020 0.005 0.024	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.033 <0.010 <0.010 <0.010 <0.022	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.66 6.60 6.60	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 11.4 9.82 5.63	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 -0.001 0.004 -0.001 0.006 -0.001 0.006 -0.001 -0.006 -0.001 -0.001 -0.001 -0.002 0.001 -0.001	mg/L 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 6.5 8.5 13.9 2.9 26.5	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 38 92 34 61
PWQO - Units - 2010-05-18 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-08-21 Dry 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2017-05-17 2017-08-29 2017-10-24 2018-08-22 Dry 2018-10-16 2019-05-29 2019-08-28 2019-08-28 2019-08-28 2019-08-28 2019-08-29 2019-08-28 2019-08-29 2019-08-28 2019-08-29 2019-08-28 2019-08-29 2019-08-28	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.0002 <0.0002 <0.0002 0.0003 0.0006 0.0005	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 0.01 0.020 0.005 0.024 0.007 0.005	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.60 6.66 6.60 6.60 6.25 5.99 6.26 5.84 6.33	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 11.4 9.82 19.8 11.8 5.1	mg/L 0.07 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41 37 42 36 44 40 27	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 0.006 0.007 0.006 0.008 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.003 0.003 0.003 0.003 0.003 0.009	mg/L 10 11 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8 10 9 6 6 9	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 6.5 8.5 13.9 2.9 26.5	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 38 92 34 61 34 28 45 17 45
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-08-24 2012-05-18 2012-05-18 2012-05-18 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 Dry 2013-10-17 2014-05-23 2014-05-21 2015-08-25 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-01 2017-05-17 2017-08-29 2018-08-22 Dry 2018-08-22 Dry 2018-08-29 2018-08-29 2018-08-29 2019-08-29 2019-08-28 2019-08-29 2019-08-28 2019-10-29 2020-08-18	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.0002 <0.0002 0.0002 0.0003 0.0006 0.0005 0.00078	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.001 0.005 0.024 0.005 0.091	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 9 18 5 9 1 <1 2 <1 1 1 1 - 1 6 <0.5 <0.5 1.2 <0.50 0.7 1.0 6.8 <1 2.01 <0.30	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.47 6.58 6.60 6.60 6.60 6.60 6.60 6.25 5.99 6.26 5.84 6.33 7.23	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 8.7 6.66 8.76 27 11.4 9.82 19.8 11.8 5.1 105	mg/L 0.07 <0.05 <0.05 0.08 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.0006 0.00007 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41 37 42 36 44 40 27 242	0.001 mg/L <0.001 0.004 <0.001 0.009 0.006 0.006 0.006 0.007 0.006 0.008 0.001 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002	mg/L 10 13 7 6 3 10 11 9 12 6 11 5 10 6 8 8 6 10 9 7 4 8 8 8 8 10 9 6 6 6 9 9	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5 6.5 8.5 13.9 2.9 26.5 3 13.4 13.1 0.4 24.5 20.2	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 39 23 461 34 28 45 45 247
PWQO - Units - 2010-05-18 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 Dry 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 Dry 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08 2016-11-01 2017-08-29 2017-10-24 2018-05-29 2018-10-16 2019-05-29 2019-08-28 2019-10-29 2020-05-27	0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.005 <0.000 <0.0002 0.0002 0.0003 0.0006 0.0007 0.00017 0.00045	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.02 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 30 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 6.00 6.70 6.79 6.48 6.61 6.80 6.47 6.13 6.65 6.55 6.44 6.03 6.08 6.66 6.43 6.58 6.60 6.66 6.60 6.60 6.25 5.99 6.26 5.84 6.33	* mg/L 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53 10.7 6.66 8.76 27 41.1 11.8 5.63 8.2 19.8 11.8 5.1 105 69.6	mg/L 0.07 0.07 0.08 0.08 0.05 0.05 0.07 0.07 0.07 0.07 0.07 0.07	NH3-N 0.02 mg/L 0.00002 <0.0005 <0.0005 0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 43 75 59 35 104 84 84 84 59 37 62 35 59 37 33 66 31 37 38 33 65 41 37 42 36 44 40 27	0.001 mg/L <0.001 0.004 <0.001 0.002 0.006 0.008 0.001 0.001 0.0001 0.001 0.002 0.001 0.002 0.001 0.002 0.003 0.003 0.003 0.009 <0.001 0.002 <0.001 0.002 0.003 0.003 0.009 <0.001 0.002 0.003 0.003 0.009 <0.001 0.002 0.001	mg/L 10 11 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6 9 7 4 8 8 8 10 9 6 6 9	7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52 7.45 6.21 6.86 6.96 8.29 7.18 8.39 6.29 7.24 7.19	16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 6.5 8.5 13.9 2.9 26.5	41 80 34 100 97 99 65 45 51 61 38 36 53 31 38 38 92 34 61 34 28 45 17 45

^{*} should not be decreased by more than 25% of the natural concentration

Param	neter -	As	В	Ва	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -		0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2010-05-18		-0.0	-0.00	-0.00	-0.005	-0.04	-0.00	0.03	10.0004	0.4	0.40	<0.002	13	<2	2	<1
2010-08-25 2010-10-21		<0.2 <0.2	<0.02 <0.02	<0.02 <0.02	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.04 0.05	<0.0001 <0.0001	24 22	0.40	0.004 0.005	13 <4	<2 <2	3	<1 <1
2011-05-31		~0.2	~0.02	~U.UZ	<0.003	~0.01	~0.02	0.03	~0.0001	22	0.40	0.003	15	<2	2	<1
2011-08-24		<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.12	<0.0001	30	0.50	0.015	24	<2	12	3
2011-10-25		<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.03	<0.0001	24	0.30	0.003	13	<2	<1	<1
2012-05-18								<0.02			0.39	0.011	12	<2	<1	<1
2012-08-30		<0.2 <0.2	<0.02	<0.02 <0.02	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.04 <0.02	<0.0001 <0.0001	28 40	0.38	0.018	13	-0	7 15	<1 <1
2012-10-23		~ 0.2	\0.02	\0.02	<0.003	\0.01	\0.02	0.02	<0.000 i	40	0.34	<0.004 0.009	25 13	<2 <2	4	<1
2013-08-29		<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	<0.02	<0.0001	42	0.38	0.010	10	<2	5	<1
2013-10-17		<0.2	<0.02	0.007	< 0.005	<0.01	<0.02	0.14	<0.0001	48	0.59	0.023	31	<2	16	<1
2014-05-23								0.06			0.40	<0.002	10	<2	2	<1
2014-08-21		<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	0.03	<0.0001	34	0.34	0.008	12	<2	160	<1
2014-10-09 2015-05-21		<0.2	<0.02	0.011	< 0.005	<0.01	<0.02	0.37 0.07	<0.0001	44	0.77 0.27	0.019 0.014	8.7 6.9	<2 <2	21 3	<1 <1
2015-03-21		<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	0.07	<0.0001	46	0.27	0.014	13	<2	2	<1
2015-10-20		<0.2	<0.02	0.006	<0.005	<0.01	<0.02	0.05	<0.001	16	0.18	0.011	4.2	<2	<1	<1
2016-05-10								0.04			0.23	0.004	<10		<4	1
2016-09-08		0.0001	<0.05	0.006	<0.00001	<0.001	0.0007	0.08	<0.00001	24	0.29	0.005	28	<6	14	1.1
2016-11-01		0.0002	<0.05	0.007	<0.00001	<0.001	0.0005	0.08	<0.00001	26	0.30	0.012	22	<2	<4	1.4
2017-05-17 2017-08-29		<0.0002	<0.02	<0.010	<0.00002	<0.001	0.0008	0.08 <0.06	<0.000002	<10	0.21	0.005 0.005	12 8.4	<3 NA	<4 <4	0.62 0.59
2017-08-29		0.0002	<0.02	<0.010	<0.00002	<0.001	0.0008	<0.06	<0.000002	18	0.19	0.005	13	13.0	29.3	0.59
2018-05-29		0.0000	10.02	40.010	40.00002	40.001	0.00+1	<0.06	-0.000002	10	0.18	0.010	24	<6	12.5	0.59
2018-08-22		0.0010	<0.02	<0.010	<0.02	<0.001	0.0003	<0.06	<0.000002	12	0.22	0.006	9.1	<6	11	0.54
2018-10-16		<0.0002	<0.02	<0.010	<0.02	<0.001	0.0004	<0.06	<0.000002	24	0.74	0.040	53	3.0	54	0.7
2019-05-29		<0.0002	<0.02	<0.010	<0.00002	0.001	0.0006	<0.06			0.20	0.024	8.9	<2	<1	1.4
2019-08-28		0.0002	<0.01	0.006	<0.000005	0.0004	0.0007	0.06	<0.000005	33 27	0.35 <0.15	0.009	20	<2 2.3	22.8	0.87 0.85
2019-10-29 2020-05-27		0.0002	<0.01	0.006	<0.000005	<0.0005	<0.001	0.06 0.033	<0.000005	35	0.24	0.007 0.004	<20 15	<2.3	<2 35	0.66
2020-03-27		0.003	<0.01	0.005	<0.000005	0.0002	<0.0005	0.037	<0.000005	24	0.35	0.007	<20	<2	<3	0.62
2020-10-06		0.000	<0.02	0.006	<0.000005	0.0002	<0.0005	0.046	<0.000005	11.1	0.30	0.006	<20	<2	11.1	0.58
										Unionized						
Param	neter -	Pb	Zn	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	Unionized NH3-N	Cond.	Phenols	DO	Field pH	Field T	Field Cond
PWQO -	neter -	0.003	0.02				6.5 - 8.5	alk42	NH3-N	Unionized NH3-N 0.02	Cond.	Phenols 0.001		Field pH		Field Cond
PWQO - Units -		0.003 mg/L	0.02 mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 n/a	alk42 * mg/L	NH3-N mg/L	Unionized NH3-N 0.02 mg/L	Cond.	Phenols 0.001 mg/L	mg/L		Field T	Field Cond
PWQO -		0.003	0.02				6.5 - 8.5	alk42	NH3-N	Unionized NH3-N 0.02	Cond.	Phenols 0.001		7.97 8.55		Field Cond
PWQO - Units - 2010-08-25		0.003 mg/L <0.05	0.02 mg/L <0.01	mg/L <0.01	mg/L <0.1	mg/L 3.0	6.5 - 8.5 n/a 7.10	alk42 * mg/L 12	MH3-N mg/L <0.05	Unionized NH3-N 0.02 mg/L <0.0005	Cond. mg/L 37	Phenols 0.001 mg/L <0.001	mg/L 8	7.97	Field T	
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24		0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01	mg/L <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59	alk42 * mg/L 12 13 11 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005	mg/L 37 37 37 35	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9	7.97 8.55 7.60 8.23	16.8 8.3 13.7 21	65 30 36
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25		0.003 mg/L <0.05 <0.05	0.02 mg/L <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37	* mg/L 12 13 11 12 13	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005	mg/L 37 37 37 37 35 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003	mg/L 8 11 10 9	7.97 8.55 7.60 8.23 7.32	16.8 8.3 13.7 21 6.9	65 30 36 90
PWQ0 - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18		0.003 mg/L <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63	alk42 * mg/L 12 13 11 12 13 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 37 37 37 35 38 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002	mg/L 8 11 10 9 10	7.97 8.55 7.60 8.23 7.32 6.04	16.8 8.3 13.7 21 6.9 20	65 30 36 90 43
PWQ0 - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30		0.003 mg/L <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37	alk42 * mg/L 12 13 11 12 13 12 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 37 37 37 35 38 38 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001	mg/L 8 11 10 9 10 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13	16.8 8.3 13.7 21 6.9 20 20.1	65 30 36 90 43 75
PWQ0 - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18		0.003 mg/L <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63	alk42 * mg/L 12 13 11 12 13 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 37 37 37 35 38 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002	mg/L 8 11 10 9 10	7.97 8.55 7.60 8.23 7.32 6.04	16.8 8.3 13.7 21 6.9 20	65 30 36 90 43
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13	mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0	mg/L 37 37 37 35 38 38 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5	65 30 36 90 43 75 38 38
PWQO - Units - 2010-08-25 2010-10-21 2011-08-21 2011-08-24 2011-10-25 2012-05-18 2012-05-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83	alk42 * mg/L 12 13 11 12 13 12 11 12 11 12 13 12	MH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 35 38 38 37 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9	65 30 36 90 43 75 38 38 65
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46	alk42 mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 11 12 13 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 35 38 37 38 37 37 37 37 36	Phenols 0.001 mg/L <0.001 <0.001 0.003 0.002 0.001 <0.001 <0.001 <0.001 <0.001 0.002 0.001 0.002	mg/L 8 11 10 9 10 9 8 10 12 8 11 10	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1	65 30 36 90 43 75 38 38 65 38
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11	alk42 * mg/L 12 13 11 12 13 11 12 13 12 11 12 13 11 12 13 11 13	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 37 38 37 37 37 37 37 37 37 36	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 7.92 8.30 7.90 8.58	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22	65 30 36 90 43 75 38 38 65 38 65
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-32 2012-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2014-05-23 2014-05-23		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66	alk42 * mg/L 12 13 11 12 13 12 11 12 11 12 13 12 13 12 11 13 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00039 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 36 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002	mg/L 8 111 10 9 10 9 8 10 12 8 11 10 9	7.97 8.55 7.60 8.23 6.04 8.13 7.57 8.30 7.92 8.30 7.90 8.58 8.69	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9	65 30 36 90 43 75 38 65 38 78 51 33
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11	alk42 * mg/L 12 13 11 12 13 11 12 13 12 11 12 13 11 12 13 11 13	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 37 38 37 37 37 37 37 37 37 36	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 7.92 8.30 7.90 8.58	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22	65 30 36 90 43 75 38 38 65 38 65
PWQO - Units - 2010-08-25 2010-10-825 2011-08-24 2011-08-24 2011-05-18 2012-05-18 2012-05-3 2013-05-24 2013-05-24 2013-08-29 2013-10-17 2014-08-23 2014-08-21 2014-08-23		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14	alk42 * mg/L 12 13 11 12 13 12 11 12 11 12 13 12 11 12 13 12 11 13 12 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.06 <0.05 <0.06 <0.05 <0.05 <0.06 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 38 38 38 37 37 37 36 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9	65 30 36 90 43 75 38 38 65 38 78 51 33 29
PWQO - Units - 2010-08-25 2010-10-21 2011-08-25 2011-08-24 2011-10-25 2012-05-18 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-05-23 2014-05-23 2015-08-25 2015-08-25 2015-08-25 2015-08-25 2015-10-20 2016-05-10		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20	alk42 * mg/L 12 13 11 12 13 12 11 12 11 12 13 12 13 12 11 13 12 <1 11 13 11 11 11 11 11 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 38 38 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5	65 30 36 90 43 75 38 38 65 38 78 51 33 29
PWQO - Units - 2010-08-25 2010-10-825 2011-08-24 2011-08-24 2011-05-18 2012-05-18 2012-05-18 2013-05-24 2013-05-24 2013-08-29 2013-10-17 2014-08-21 2014-08-21 2015-08-25 2015-10-20 2016-05-10 2016-09-08		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 12 11 13 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 38 38 38 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 10 9 11 11 11 10 9 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8	65 30 36 90 43 75 38 38 65 38 78 51 33 29 31 29
PWQO - Units - 2010-10-825 2010-10-21 2011-08-24 2011-08-24 2011-10-23 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-09-08		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.01 <0.05 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.26	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 13 11 13 12 <11 13 13 11 11 11 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 10 9 11 11 11 11 11 10 11 11 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8	65 30 36 90 43 75 38 38 65 38 78 51 33 29 31 29 34
PWQO - Units - 2010-10-825 2010-10-21 2011-08-25 2011-08-25 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2015-08-25 2015-08-25 2015-08-25 2016-09-08 2016-09-08 2016-09-08 2016-09-08 2016-09-01 2016-09-01		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.01 <0.01 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.25 7.32	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 12 11 13 12 <11 13 12 <11 13 12 11 11 11 12 11 13 12 11 11 11 11 11 11 11 11 11 11 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.064 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002	mg/L 8 111 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 11 10 10 11 11 11 10 10 11 11 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11	65 30 36 90 43 75 38 65 38 65 38 71 33 29 31 29 34
PWQO - Units - 2010-10-825 2010-10-21 2011-08-24 2011-08-24 2011-10-23 2012-08-30 2012-10-23 2013-08-29 2013-10-17 2014-05-23 2014-08-21 2014-10-09 2015-05-21 2015-08-25 2015-10-20 2016-09-08		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.05 <0.01 <0.01 <0.05 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.26	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 13 11 13 12 <11 13 13 11 11 11 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 10 9 11 11 11 11 11 10 11 11 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.69 7.24 6.30 8.41 8.18	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8	65 30 36 90 43 75 38 38 65 38 78 51 33 29 31 29 34
PWQO - Units - 2010-08-25 2010-10-21 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-29 2013-10-17 2014-05-23 2014-05-21 2015-08-25 2015-08-20 2016-05-10 2016-09-08 2016-11-01 2017-08-29		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.01 <0.01 0.01 <0.01 0.01 0.01 <0.01 0.01	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.01 <0.00 <0.01 <0.00 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.26 7.32 7.20	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 13 12 <1 13 12 <1 11 13 12 <1 13 12 <1 11 13 12 <1 13 12 <1 13 12 <1 13 12 <1 13 12 <1 13 12 <1 13 12 <1 13 13 11 11 11 12 11 12	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 37 38 38 38 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8	65 30 36 90 43 75 38 65 38 78 51 33 29 31 29 34
PWQO - Units - 2010-08-25 2010-10-21 2011-08-25 2010-10-21 2011-08-24 2011-08-25 2012-08-18 2012-08-30 2012-08-23 2013-08-29 2013-10-17 2014-08-21 2014-08-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2017-08-29 2017-10-24 2018-08-22 2017-10-24 2018-08-29 2018-08-22 2018-08		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 0.000 <0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.03 <0.033 <0.033	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.20 7.32 7.32 7.32 7.32 7.34 7.34	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 13 12 11 13 12 11 13 12 11 13 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002 0.001 0.002	mg/L 8 11 10 9 10 9 8 10 12 8 11 11 10 9 11 11 11 10 9 11 11 10 9 11 11 10 9 11 10 9 10 9 9 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18 7.69 8.85 9.18 8.13 5.72	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8 7.7 22.5	65 30 36 90 43 75 38 65 38 78 51 33 29 31 29 34
PWQO - Units - 2010-08-25 2010-10-21 2011-08-24 2011-08-25 2012-05-18 2012-05-18 2012-08-30 2012-10-23 2013-05-24 2013-08-24 2013-08-24 2013-08-24 2013-08-20 2016-05-21 2015-08-25 2015-10-20 2016-09-08 2016-11-01 2017-08-29 2018-05-20 2018-05-18 2018-05-20 2018-05		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.00	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.01 <0.03 <0.03 <0.033 <0.033	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 6.71 6.66 6.14 6.78 7.15 7.20 7.25 7.20 7.25 7.20 7.32 7.32 7.32 7.32 7.34 7.40 7.34 7.11	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 13 12 <1 13 12 <1 11 11 12 11 11 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 37 38 38 38 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.002 <0.002 <0.002	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 12 10 9 10 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18 7.69 8.85 9.18 8.13 5.72 13.83	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8 7.7 22.5 19 3.4	65 30 36 90 43 75 38 65 38 78 51 33 29 31 29 34 31 38 28 58 52 36
PWQO - Units - 2010-08-25 2010-10-82-5 2010-10-82-5 2010-10-82-5 2011-08-24 2011-08-25 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-05-24 2013-05-24 2013-05-24 2015-05-21 2015-05-21 2015-05-21 2015-05-20 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-10 2016-05-20 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2019-05-29		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.00002 <0.00002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 0.004 0.005	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.002 <0.002 <0.003 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.26 7.32 7.20 7.34 7.40 7.34 7.11 6.88	alk42 * mg/L 12 13 11 12 13 12 11 12 13 12 11 12 13 12 11 13 12 11 11 12 11 11 12 11 11 11 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 35 38 38 37 37 37 37 37 37 37 36 37 37	Phenols 0.001 mg/L <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 10 9 11 11 10 9 11 10 9 11 10 9 11 10 9 11 10 9 11 10 9 9 9 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18 7.69 8.85 9.18 8.13 5.72 13.83 14	16.8 8.3 13.7 21 6.9 20 17.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8 17.7 22.5 19 3.4	65 30 36 90 43 75 38 38 65 38 78 51 33 29 31 29 34 31 38 28 58 58 58 58
PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2013-05-24 2013-10-17 2014-05-23 2014-08-21 2015-05-21 2015-05-21 2015-05-10 2016-05-10 2016-09-08 2016-11-01 2017-05-17 2017-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2019-05-29 2019-05-29 2019-05-29 2019-05-29 2019-05-29 2019-08-28		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.00002 <0.00002 <0.00002 <0.00002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.03 <0.03 <0.03 <0.03 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 0.003 <0.003 <0.003 <0.003 0.003 <0.003 <0.003 0.	mg/L <0.01 <0.01 0.050 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.001 <0.001 <0.002 <0.002 <0.003 <0.010 <0.003 <0.010 <0.003 <0.010 <0.003 <0.010 <0.003	mg/L <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	mg/L 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.76 7.19 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15 7.20 7.25 7.20 7.32 7.20 7.34 7.40 7.34 7.11 6.88 7.40 7.34 7.41 6.88 7.40 7.	alk42 * mg/L 12 13 11 11 12 13 12 13 12 11 11 12 13 13 11 11 12 11 13 13 11 11 12 11 11 12 11 11 12 11 11 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 37 37 37 37 38 38 38 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003	mg/L 8 11 10 9 10 9 8 10 12 8 11 10 9 11 10 9 11 10 9 11 10 9 11 12 10 9 11 12 10 9 11 10 9 11 10 9 11 10 9 10 9 10 9 10 9 9 9 9	7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18 7.69 8.85 9.18 8.13 5.72 13.83 14 13.49 12.65	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8 12.2 17.8 11 21 12.3 12.6 15.6	65 30 36 90 43 75 38 38 65 38 78 51 33 29 31 29 34 31 29 34 31 31 38 38 49 38 51 38 51 38 51 38 51 38 51 51 51 51 51 51 51 51 51 51 51 51 51
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PWQO - Units - 2010-08-25 2010-10-21 2011-05-31 2011-05-31 2011-05-31 2011-08-24 2011-10-25 2012-05-18 2012-05-18 2012-05-18 2012-05-19 2013-05-24 2013-08-29 2013-10-17 2014-08-21 2014-08-21 2014-08-21 2015-08-20 2016-05-10 2016-09-08 2016-11-01 2017-05-17 2017-08-29 2017-10-24 2018-05-29 2018-05-29 2018-05-29 2018-05-29 2019-05-29 2019-05-29 2019-05-29 2019-05-27		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0005	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 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PWQO - Units - 2010-08-25 2010-10-21 2011-08-25 2010-10-21 2011-08-24 2011-08-25 2012-05-18 2012-08-30 2012-08-30 2013-08-29 2013-08-29 2013-08-20 2015-08-25 2016-08-20 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2018-08-29 2019-08-28 2019-10-29		0.003 mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002 <0.0002 <0.0002 <0.0002 <0.00002 <0.00002 <0.00002 <0.00002 <0.00002	0.02 mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.03 <0.03 <0.03 <0.03 <0.03 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 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12 11 13 12 11 11	NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <	Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 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<0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0	Cond. mg/L 37 37 37 37 38 38 38 37 37 37	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 0.003 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 <0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.0017	mg/L 8 11 10 9 10 9 8 11 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 12 10 9 11 12 9 12 9	7.97 8.55 7.60 8.23 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18 7.69 8.85 9.18 8.13 14 13.49 12.65 8.2	16.8 8.3 13.7 21 6.9 20 20.1 7.9 17.3 23.5 9.9 15.1 22 8.9 12.7 19.5 8.8 11 8 12.2 17.8 7.7 22.5 19 3.4 3.6 3.9	65 30 36 90 43 75 38 65 38 78 33 29 31 29 31 31 38 28 55 38 51 29 34

NA - Not Analyzed *Nitrate plus Nitrite

Parai PWQO -	meter -	As 0.1	B 0.2	Ва	0.0001	Cr 0.1	Cu 0.005	Fe 0.3	Hg 0.0002	TDS	TKN	7otal P 0.03	COD	BOD	TSS	CI-
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2001-05-24	1	< 0.001	0.004	0.009	< 0.001	< 0.001	< 0.001	0.16	< 0.001	29	0.40	0.011	mg/L	mg/L	< 3	3.30
2001-07-23								0.07			0.21		31	< 1.0	< 3	3.10
2001-08-10	-							0.00			0.41	. 0 005	42			2.60
2001-08-31 2001-09-28								0.06 0.06			0.24	< 0.005 < 0.005	25	1.0	< 3	2.90
2001-09-20		< 0.001	< 0.001	0.007	< 0.001	< 0.001	< 0.001	0.00	< 0.001	45	0.39	< 0.005	20	1.5	59	2.90
2002-05-13								0.17			0.37	< 0.010	42	2.0	21	3.6
2002-07-03								0.17			0.37	< 0.020	20	1.0	< 0.01	2.5
2002-08-06		< 0.001	0.002	0.006	< 0.001	< 0.001	0.005	0.13	< 0.001	44	0.61	0.054	20	1.0	4	3.1
2002-09-04 2002-10-06		< 0.001	0.003	0.008	< 0.001	< 0.001	< 0.001	0.13 0.16	< 0.001	< 20	0.46 0.38	0.051 0.039	20	< 1.0 1.0	6 31	3.1
2002-10-00		V 0.001	0.003	0.000	< 0.001	V 0.001	V 0.001	0.10	< 0.001	\ 20	0.30	0.039	20	1.0	31	3.0
2003-05-21		< 0.002	0.005	0.006	<0.0001	< 0.005	0.001	0.17	< 0.00005	34	0.56	0.019	25	2.0	3	2.6
2003-06-10								0.10			0.43	0.010	23	0.9	3	3.1
2003-07-17		< 0.000	0.000	0.000	< 0.0004	< 0.00E	0.000	0.18	< 0.000E	200	0.52	0.016	28	< 0.5	5	3.3
2003-08-06 2003-09-25		< 0.002	0.008	0.008	< 0.0001	< 0.005	0.290	0.29 0.22	< 0.0005	36	0.47	0.013 0.015	24 35	1.0 0.8	3	2.6 3.0
2003-10-28		< 0.002	0.005	0.007	< 0.0001	< 0.005	0.001	0.20	< 0.00005	48	0.36	0.017	25	0.9	1	2.8
2004-08-19	9	< 0.002	< 0.005	0.006	< 0.0001	< 0.005	0.001	0.17	< 0.0001	42	0.36	0.011	28	0.6	2	2.8
2005-09-01		< 0.001	< 0.010	0.008	< 0.0001	< 0.005	0.024	0.30	< 0.0001	58	0.40	0.019	22	< 2	6	4.0
2006-08-29		< 0.001	< 0.010	0.006	< 0.0001	0.006	0.002	0.071	< 0.0001	19	0.50	0.009	17	< 2	1 <1	5.0 < 1
2007-08-15 2008-08-20		< 0.001	< 0.01	< 0.001	< 0.0001	< 0.005	< 0.001	0.17 0.09	< 0.0001	37 27	0.60	0.016 0.009	28 24	< 2 < 2	< 1 1	< 1 5.0
2008-08-20		< 0.001	< 0.01	< 0.001	< 0.0001	< 0.005	< 0.001	0.09	< 0.0001	25	0.60	0.009	17	< 2	2	5.0
2010-08-25	Dry Dry															
2011-08-24		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.27	<0.0001	26	0.50	<0.1	32	<2	<1	4.0
2012-08-31		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.1	<0.0001	38	0.42	0.017	23	<2	1	4.0
2013-08-29 2014-08-21	1	<0.2 <0.2	<0.02 <0.02	0.006 0.007	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.05 0.13	<0.0001 <0.0001	42 52	0.43	0.009	22 22	<2 <2	<1 1	5.0 5.0
2014-08-21	5	<0.2	<0.02	0.007	<0.005	<0.01	<0.02	0.13	<0.0001	58	0.40	0.008	23	<2	<1	4.6
2016-09-08		0.0003	<0.05	0.007	<0.00001	<0.001	0.001	0.223	<0.00001	34	0.40	0.010	28	<6.0	<4	5.6
2017-08-29		0.0002	<0.02	<0.01	<0.00002	<0.001	0.0004	0.096	0.000002	12	0.32	0.007	21	NA	<4	5.0
2018-08-22		0.0004	<0.02	<0.01	<0.00002	<0.001	0.0008	0.1	<0.000002	34	0.53	0.016	22	<6	<4	4.3
2019-08-28 2020-08-18		0.0004	<0.01	0.005	<0.000005	0.0003	<0.0005	0.143	<0.000005	32	0.41	0.013	26	<2	<3	4.3
2020-00-10																
		0.0004	~0.01	0.000	0.00000	0.0000	-0.0000	0.143	<0.000003		0.41	0.013			-,5	
	meter -	Pb	Zn	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	Unionized NH3-N	Cond.	Phenols	DO	Field pH	Field T	Field Cond
										Unionized						
Parai PWQO - Units -	meter -	Pb 0.003 mg/L	Zn 0.02 mg/L	NO2-N mg/L	NO3-N mg/L	SO4	pH 6.5 - 8.5 n/a	alk42 * mg/L	NH3-N mg/L	Unionized NH3-N	Cond.	Phenols	DO mg/L	Field pH	Field T	Field Cond
PwQO - Units - 2001-05-24	meter -	Pb 0.003	Zn 0.02	MO2-N mg/L < 0.10	NO3-N mg/L 0.20	SO4 mg/L 2.8	pH 6.5 - 8.5 n/a 7.10	* mg/L	MH3-N mg/L < 0.01	Unionized NH3-N 0.02	Cond.	Phenols 0.001 mg/L	DO			
Pwqo - Units - 2001-05-24 2001-07-23	meter -	Pb 0.003 mg/L	Zn 0.02 mg/L	mg/L < 0.10 < 0.10	MO3-N mg/L 0.20 0.10	mg/L 2.8 2.3	pH 6.5 - 8.5 n/a	alk42 * mg/L	mg/L < 0.01 < 0.01	Unionized NH3-N 0.02	Cond.	Phenols 0.001 mg/L < 0.001	mg/L	Field pH	Field T 15.0	Field Cond
PwQO - Units - 2001-05-24	meter -	Pb 0.003 mg/L	Zn 0.02 mg/L	MO2-N mg/L < 0.10	NO3-N mg/L 0.20	SO4 mg/L 2.8	pH 6.5 - 8.5 n/a 7.10	* mg/L	MH3-N mg/L < 0.01	Unionized NH3-N 0.02	Cond.	Phenols 0.001 mg/L	DO mg/L	Field pH	Field T	Field Cond
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-10 2001-08-31 2001-09-28	meter -	Pb 0.003 mg/L < 0.001	Zn 0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10	mg/L 2.8 2.3 2.1	pH 6.5 - 8.5 n/a 7.10 6.59	* mg/L 11 10 11 8	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	Unionized NH3-N 0.02	Cond. mg/L 36 33 36 36	Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001	mg/L 20	6.5 6.7	15.0 19.0 23.0	Field Cond
Parai PWQO - Units - 2001-05-24 2001-07-23 2001-08-10 2001-09-28 2001-11-02	meter -	Pb 0.003 mg/L	Zn 0.02 mg/L	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10	mg/L 2.8 2.3 2.1 1.4 1.8	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90	* mg/L 11 10 11 8 11	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	Unionized NH3-N 0.02 mg/L	mg/L 36 33 36 36 36 38	Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001	po mg/L 20 9 26	6.5 6.7 6.7	15.0 19.0 23.0	20 30
Parai PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13	meter -	Pb 0.003 mg/L < 0.001	Zn 0.02 mg/L < 0.001	MO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69	* mg/L 11 10 11 8 11 10.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01	Unionized NH3-N 0.02 mg/L	Cond. mg/L 36 33 36 36 38 36	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26	6.5 6.7 6.7	15.0 19.0 23.0 3.0 5.5	20 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-10 2001-09-28 2001-111-02 2002-05-13 2002-07-03	meter -	Pb 0.003 mg/L < 0.001 < 0.001	Zn 0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.00	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85	alk42 * mg/L 11 10 11 8 11 10.0 9.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03	Unionized NH3-N 0.02 mg/L 0.00001 0.00007	mg/L 36 33 36 36 36 38 36 38 36 35	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9	6.5 6.7 6.7 6.60 7.10	15.0 19.0 23.0 3.0 5.5 20.5	20 30 10 30
Parai PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13	meter -	Pb 0.003 mg/L < 0.001	Zn 0.02 mg/L < 0.001	MO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69	* mg/L 11 10 11 8 11 10.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01	Unionized NH3-N 0.02 mg/L	Cond. mg/L 36 33 36 36 38 36	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26	6.5 6.7 6.7	15.0 19.0 23.0 3.0 5.5	20 30
Paral PWQO - Units - 2001-05-24 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06	meter -	Pb 0.003 mg/L < 0.001 < 0.001	Zn 0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.010 < 0.010 < 0.010 < 0.001	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.010 < 0.01	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03 0.04	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028	Cond. mg/L 36 33 36 36 38 36 38 37	Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 14 9 11	6.5 6.7 6.7 6.7 7.10	15.0 19.0 23.0 3.0 5.5 20.5 25.0	20 30 10 30 30 30
Paral PWQ0 - Units - 2001-05-24 2001-08-10 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001	2n 0.02 mg/L < 0.001 0.006 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.5 < 0.05 < 0.05	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 < 0.03	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 < 2.0 < 2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.01 0.03 0.04 < 0.05	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004	Cond. mg/L 36 33 36 36 36 38 36 37 37 37	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.002	9 26 14 9 11 9 9	6.5 6.7 6.7 6.7 7.10 7.30 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0	20 30 10 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21	meter -	Pb 0.003 mg/L < 0.001 < 0.001	Zn 0.02 mg/L < 0.001 0.006	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.50	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.0 2.0 < 2.0 1.8	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.89 6.85 7.13 7.00 6.82	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03 0.04 < 0.01	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001	Cond. mg/L 36 33 36 36 36 36 37 37 37 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 114 9 111 9 9 16	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0	20 30 10 30 30 30 30 30 30 20
Paral PWQ0 - Units - 2001-05-24 2001-07-23 2001-08-10 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001	2n 0.02 mg/L < 0.001 0.006 0.013	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.5 < 0.50 < 0.50	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 38 38	Phenois 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 11 9 9 116 14 14	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0	20 30 30 10 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001	2n 0.02 mg/L < 0.001 0.006 0.013	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.50	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.0 2.0 < 2.0 1.8	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.89 6.85 7.13 7.00 6.82	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.01 0.03 0.04 < 0.05	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004	Cond. mg/L 36 33 36 36 36 36 37 37 37 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 114 9 111 9 9 16	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0	20 30 10 30 30 30 30 30 30 20
Paral PWQ0 - Units - 2001-05-24 2001-05-24 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005	Zn 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.50 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.08 6.92 6.86 6.92	alk42 * mg/L 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11.0 10.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 14 9 11 9 9 16 14 9 12	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90	15.0 19.0 23.0 3.0 5.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5	20 30 10 30 30 30 30 30 30 30 30 30 30 40
Paral PWQ0 - Units - 2001-05-24 2001-07-23 2001-08-10 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06 2003-09-25 2003-10-28	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5	pH 6.5 - 8.5 n/a 7.10 6.59 	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 0.05 0.05 0.05 0.06	0.00001 0.00007 0.00004 0.00001 0.00004 0.00011	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 9 9 16 14 9 9	6.5 6.7 6.7 6.7 7.10 7.30 7.40 6.60 6.40 6.90 6.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0	20 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-09-04 2003-05-21 2003-06-10 2003-09-04 2003-09-25 2003-09-25 2003-09-25 2003-09-25 2003-09-25	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05 0.05	0.00001 0.00001 0.00001 0.00004 0.00003 0.0003 0.0003 0.0003	Cond. mg/L 36 33 36 38 36 37 37 38 38 41 43 40 44 41	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 9 9 12 12 19	6.5 6.7 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQ0 - Units - 2001-05-24 2001-07-23 2001-08-10 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06 2003-09-25 2003-10-28	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.1 3.6 2.5 2.2 10.4	pH 6.5 - 8.5 n/a 7.10 6.59 	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 0.05 0.05 0.05 0.06	Unionized NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 9 9 12 12 19 13	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90	15.0 19.0 23.0 3.0 5.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5	20 30 10 30 30 30 30 30 30 30 30 30 30 40
Paral PWQO - Units - 2001-05-24 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-12 2003-06-10 2003-06-10 2003-09-04 2003-09-04 2003-09-04 2003-09-09-09-09-09-09-09-09-09-09-09-09-09-	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <	Zn 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.021 0.0066	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.00 < 0.00 < 0.00 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 1.60	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	0.00001 0.00001 0.00007 0.00004 0.00001 -0.00003 -0.0003 -0.0003 -0.0003 -0.0003	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44 41 38	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 14 9 11 9 9 12 12 19	6.5 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-09-04 2002-09-04 2002-09-04 2003-04-08 2003-05-21 2003-06-10 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05 2003-09-05	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.014 < 0.0066 0.013	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.00 < 0.00 < 0.00 < 0.00 < 0.05 < 0.05 < 0.05 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.02 < 0.01 < 0.01 < 0.01 < 0.01	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.02 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.02 < 0.16 < 0.16 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 2.0 2.0 2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.72 7.02 6.86 6.741 7.14 6.97 7.80 7.20	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.05 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.05 NA < 0.05 < 0.05	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00003 <0.0003 <0.0003 <0.0003 <0.0005 0.0005 0.00021 <0.0005	Cond. mg/L 36 33 36 38 36 38 37 37 38 41 43 40 44 41 38 44 41	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 19 9 12 19 13 13 13 9 10	6.5 6.7 6.7 6.60 7.10 7.30 7.40 6.60 6.40 6.90 6.40 5.90 6.20 5.10 7.20 7.30 7.18	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8	20 30 30 10 30 30 30 30 30 30 30 30 30 3
Paral PWQO - Units - 2001-05-24 2001-08-31 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06 2003-09-25 2003-10-28 2004-08-29 2007-08-15 2008-08-20 2009-08-18	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.021 0.006 0.013	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.10 < 0.01 < 0.01 < 0.01	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.20 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.00	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 11.0 11.0 11.	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 < 0.05 NA < 0.05 NA < 0.05 0.05	Unionized NH3-N 0.02 mg/L 0.0001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003 0.00018 <0.0005 0.00021	Cond. mg/L 36 33 36 36 38 36 38 36 37 37 38 38 41 43 40 44 41 38 38 44	Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 14 9 16 14 9 12 19 13 13 9	6.5 6.7 6.7 6.7 6.7 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6	20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2002-05-13 2002-07-03 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06 2003-09-01 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2009-08-18	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	Zn 0.02 mg/L <0.001 0.006 0.013 0.188 <0.005 0.014 0.006 0.013 <0.011 <0.001 <0.001	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.00 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 6 0.1 6 0.1 6 0.1 6 0.1 7 0.200 < 0.1 6 0.1	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.0 <.0 <.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 <.2.0 <.2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.89 6.85 7.13 7.00 6.82 7.08 6.92 7.08 6.92 7.08 6.92 7.08 6.741 7.14 6.97 7.80 7.00 7.20 7.00	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 10.0 11.0 11.0 11.0 11.0 12.0 8.0 14.0 8.0 9.0	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	Unionized NH3-N 0.02 mg/L 0.0001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003 <0.00018 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44 41 40 40	Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 9 9 16 14 9 12 19 10 8 8	6.5 6.7 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-08-31 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-07-17 2003-08-06 2003-09-25 2003-10-28 2004-08-29 2007-08-15 2008-08-20 2009-08-18	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.014 < 0.0066 0.013	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.00 < 0.00 < 0.00 < 0.00 < 0.05 < 0.05 < 0.05 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.02 < 0.01 < 0.01 < 0.01 < 0.01	MO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.02 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.02 < 0.16 < 0.16 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 2.0 2.0 2.0	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.72 7.02 6.86 6.741 7.14 6.97 7.80 7.20	alk42 * mg/L 11 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.05 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.05 NA < 0.05 < 0.05	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00003 <0.0003 <0.0003 <0.0003 <0.0005 0.0005 0.00021 <0.0005	Cond. mg/L 36 33 36 38 36 38 37 37 38 41 43 40 44 41 38 44 41	Phenois 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 19 9 12 19 13 13 13 9 10	6.5 6.7 6.7 6.60 7.10 7.30 7.40 6.60 6.40 6.90 6.40 5.90 6.20 5.10 7.20 7.30 7.18	15.0 19.0 23.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8	20 30 10 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-09-25 2003-10-28 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2009-08-18	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	2n 0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.014 < 0.001 < 0.01 < 0.01	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.00 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.11 < 0.11	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 2.0 < 2.0 < 2.0 <	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 0.04 < 0.01 0.05 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44 41 40 40	Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 16 14 9 12 19 10 8 8	6.5 6.7 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 21.7 22.5 20.6 26.8 19.8	20 30 30 30 30 30 30 30 30 30 30 30 30 30
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Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-09-25 2003-10-28 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2009-08-18 2010-08-25 2011-08-24 2012-08-31 2013-08-24 2012-08-31 2013-08-25	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0	Zn 0.02 mg/L < 0.001	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.00 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.15 < 0.5	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.0 < 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 < 2.0 < 1 2.0 < 2.0 < 1 2.0 < 2.0	pH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00 6.98 6.38 7.11 6.72 6.34	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 36 33 36 36 38 36 37 37 38 38 41 43 40 44 41 41 40 41 42 46 43 47	Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	9 26 14 9 11 9 9 10 13 13 9 10 8 9 10 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30 7.18 8.75 7.42 7.45 7.99	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 30 30 30 30 30 30 30 30 30 30 30 40 30 30 40 40 30 40 41 48 48 48 132 87
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-09-31 2001-09-31 2001-09-31 2002-09-04 2002-09-04 2002-10-06 2003-04-08 2003-06-10 2003-09-17 2003-08-06 2003-09-25 2003-10-28 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2011-08-24 2011-08-24 2011-08-25 2011-08-24 2011-08-25 2011-08-21 2015-09-08	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.00	Zn 0.02	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.01 < 0.011 < 0.011 < 0.011 < 0.015 < 0.005 < 0.005 < 0.005	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.10 < 0.10 < 0.10 < 0.10 < 0.03 < 0.03	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 <1 1.0 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 2.0 <1 2.0 2.0 2.0 3.0 4.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 6.97 7.80 7.00 7.20 7.00 6.98 6.38 7.11 6.72 7.01	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11.0 12.0 8.0 14.0 8.0 9.0 10.0 9.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 8	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05 <	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 36 36 36 36 36 36 38 35 37 38 38 44 41 43 44 41 40 44 41 40 41 42 46 43 47 45	Phenols 0.001	9 26 14 9 9 11 13 13 9 10 8 9 10 8 8 9 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 7.10 7.30 7.40 7.40 5.90 6.20 7.10 7.20 7.30 7.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.6	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 19.0 10.5 4.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8 23.2 22.6 24.1 23.3 20.7	20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-08-31 2001-09-28 2001-11-02 2002-05-13 2002-07-03 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-08-06 2003-09-01 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2009-08-18 2010-08-25 2011-08-24 2012-08-31 2013-08-29 2014-08-21 2015-08-25 2011-08-24 2012-08-31 2013-08-29 2014-08-21 2015-08-25 2011-08-24	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.00	Zn 0.02	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.010 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.16 < 0.11 0.200 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.10 < 0.10	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 <1.0 2.0 <1.0 1.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.89 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 6.98 6.38 7.11 6.72 6.34 7.11 6.9	alk42 * mg/L 11 10 11 8 11 10.0 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11.0 12.0 14.0 8.0 14.0 8.0 9.0 10.0 10.0 14.0 8.0 8.0 10	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	Cond. mg/L 36 36 36 36 36 36 38 35 37 38 38 41 43 40 44 41 38 44 41 40 41 42 46 43 47 45 38	Phenols 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	9 26 14 9 11 9 9 16 14 9 12 19 13 13 9 10 8 9 8 8 9 9	6.5 6.7 6.7 6.7 6.7 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20 7.18 8.75 7.42 7.45 7.99 8.85 6.68	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8 23.2 22.6 24.1 23.3 20.7	20 30 30 30 30 30 30 30 30 30 30 30 30 40 30 30 40 40 30 40 41 48 48 48 48 49 48 48 49 49 48 48 48 48 48 48 48 48 48 48 48 48
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2002-05-13 2002-08-30 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-08-10 2003-09-11 2003-09-12 2003-09-12 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2011-08-25 2011-08-25 2011-08-25 2016-09-08	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.00	Zn 0.02	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.01 < 0.011 < 0.011 < 0.011 < 0.015 < 0.005 < 0.005 < 0.005	NO3-N mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03 1.00 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.10 < 0.10 < 0.10 < 0.10 < 0.03 < 0.03	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 <1 1.0 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 < 2.0 <1 2.0 2.0 <1 2.0 2.0 2.0 3.0 4.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 6.97 7.80 7.00 7.20 7.00 6.98 6.38 7.11 6.72 7.01	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11.0 12.0 8.0 14.0 8.0 9.0 10.0 9.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 10.0 8.0 8	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05 <	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	Cond. mg/L 36 36 36 36 36 36 38 35 37 38 38 44 41 43 44 41 40 44 41 40 41 42 46 43 47 45	Phenols 0.001	9 26 14 9 9 11 13 13 9 10 8 9 10 8 8 9 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 7.10 7.30 7.40 7.40 5.90 6.20 7.10 7.20 7.30 7.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.40 6.60 6.6	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 19.0 10.5 4.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8 23.2 22.6 24.1 23.3 20.7	20 30 30 30 30 30 30 30 30 30 30 30 30 30
Paral PWQO - Units - 2001-05-24 2001-07-23 2001-08-10 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2001-08-31 2002-07-03 2002-08-06 2002-09-04 2002-10-06 2003-04-08 2003-05-21 2003-06-10 2003-08-16 2003-09-25 2003-10-28 2004-08-19 2005-09-01 2006-08-29 2007-08-15 2008-08-20 2011-08-25 2011-08-25 2011-08-25 2011-08-25 2011-08-25 2011-08-25 2011-08-25 2011-08-29 2014-08-29 2014-08-29 2014-08-29	meter -	Pb 0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.00005 < 0.00005 < 0.00002 < 0.00002 < 0.000005	Zn 0.02	NO2-N mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.010 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	NO3-N mg/L 0.20 0.10 0.10 <0.10 <0.10 <0.10 <0.10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	\$04 mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 <1.0 2.0 <1.0 1.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	PH 6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.89 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 6.98 6.38 7.11 6.72 6.34 7.11 6.9	alk42 * mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11.0 11.0 11.0 10.0 7.5 9.7 7.3 10.0 8.5 8.5 10.7	NH3-N mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05 <	Unionized NH3-N 0.02 mg/L 0.0001 0.00001 0.00007 0.00028 <0.0001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	Cond. mg/L 36 36 36 36 36 36 38 35 37 38 38 44 41 43 44 41 42 46 43 47 42 42	Phenois 0.001	9 26 14 9 11 9 9 16 14 9 12 19 13 13 9 10 8 9 8 8 9 9	6.5 6.7 6.7 6.7 6.7 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20 7.18 8.75 7.42 7.45 7.99 8.85 6.68	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8 23.2 22.6 24.1 23.3 20.7	20 30 30 30 30 30 30 30 30 30 30 30 30 40 30 30 40 40 30 40 41 48 48 48 48 49 48 48 49 49 48 48 48 48 48 48 48 48 48 48 48 48

Additional Locations

Monitor	Parar	meter -	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn	TDS	TKN	Total P	COD	BOD	TSS
	PWQO -		0.1	0.2			0.0001	0.1	0.005	0.3	0.0002						0.03			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RW-1	2017-04-11		0.015	3.48	0.125	189	0.00002	0.0093	0.0011	0.14	<0.00001	526	104	0.279	2560	59	1.80	340	<30	81.3
RW-1	2018-06-12			1.70						0.25							2.40	190	51	
RW-1	2020-08-18		0.005	3.50	0.201		<0.000025	0.0060	<0.0025	1.14	<0.000005				1670	17.7	1.45	243	33	843
RW-2	2017-04-11		0.004	1.36	0.047	65	0.00001	0.0025	0.0011	0.17	<0.00001	175	48	0.225	932	16	0.86	150	24	55
RW-2	2018-06-12			6.20						<0.06							1.40	440	21	
RW-2	2018-06-12	DUP		5.80						0.098							1.40	390	24	
RW-2	2018-10-16		0.005	3.60	0.092	120	<0.000002	0.0081	0.0012	0.2	<0.000002	450	76	0.230	2500	41.0	0.55	260	55	6
RW-2	2019-05-29		0.053	5.30	0.130	160	0.000023	0.0110	0.0017	0.61		560	92	0.430		60.0	0.93	310	15	17
RW-2	2019-08-28		0.007	5.61	0.107		0.000011	0.0109	0.0009	0.345	<0.000005				2530	53.2	1.15	370	12	148
RW-2	2019-10-29		0.023	5.86	0.126		<0.00005	0.0243	<0.010	0.44	<0.000005				2710	73.7	2.15	383	13	30
RW-2	2020-05-27									0.24					2150	80.4	1.65	377	33	18
RW-2	2020-08-18		0.009	6.40	0.151		0.000035	0.0120	<0.0025	0.622	0.0000055				3030	75.1	1.88			112
RW-3	2017-10-05		0.001	1.60	0.044	48		0.0011	<0.0002	0.18	<0.000002	200	37	0.059	798	2.5	0.47	150	12	59
RW-3	2018-06-12			2.90						0.14							0.75	220	38	
RW-3	2018-10-16		0.003	2.40	0.049	54	<0.000002	0.0022	0.0003	0.16	<0.000002	270	45	0.610	1180	9.0	1.20	590	51	1200
RW-3	2020-08-18		0.005	0.20	0.290		0.000016	0.0059	0.001	0.625	<0.000005				1730	12.3	1.01	258	57	455
RW-4	2020-08-18		0.005	0.84	0.205		0.000421	0.0074	0.016	5.47	0.0000156				729	3.8	1.66	115	7	327
RW-5	2019-10-29		0.001	0.27	0.017		<0.000005	0.0010	<0.001	0.63	<0.000005				190	0.9	0.03	83	<2	<2
RW-5	2020-08-18		<0.0005	<0.05	0.007		<0.000025	<0.0005	<0.0025	0.257	<0.000005				47	0.7	0.02	36	<2	<3
													Unionized							
Monitor		meter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	NH3-N	DOC	Cond.	Phenols	DO	Field pH	Field T	Field Cond
Monitor	PWQO -	meter -	Na	Pb 0.003	Zn 0.02	CI-	NO2-N	NO3-N	SO4	pH 6.5 - 8.5	alk42	NH3-N	NH3-N 0.02	DOC	Cond.	Phenols 0.001	DO	Field pH	Field T	Field Cond
	PWQO - Units -	neter -	mg/L	0.003 mg/L	0.02 mg/L	mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 n/a	* mg/L	mg/L	0.02 mg/L	DOC mg/L	mg/L	0.001 mg/L	DO mg/L	Field pH	Field T	Field Cond
RW-1	PWQO - Units - 2017-04-11	neter -		0.003	0.02	mg/L 180	mg/L <0.22	mg/L <0.16	mg/L 23.0	6.5 - 8.5 n/a 7.99	* mg/L 2070	mg/L 70	0.02 mg/L 1.25		mg/L 4170	0.001	mg/L			
RW-1 RW-1	PWQO - Units - 2017-04-11 2018-06-12	neter -	mg/L	0.003 mg/L <0.0002	0.02 mg/L 0.0053	mg/L 180 67	mg/L <0.22 <0.033	mg/L <0.16 <0.089	mg/L 23.0 2.8	6.5 - 8.5 n/a 7.99 8.06	* mg/L 2070 475	mg/L	0.02 mg/L 1.25 <0.015		mg/L 4170 1100	0.001 mg/L 0.016 0.006	mg/L	14.00	15.8	619
RW-1 RW-1 RW-1	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18	neter -	mg/L 182	0.003 mg/L <0.0002	0.02 mg/L 0.0053	mg/L 180 67 131	mg/L <0.22 <0.033 <0.01	mg/L <0.16 <0.089 <0.02	mg/L 23.0 2.8 14.1	6.5 - 8.5 n/a 7.99 8.06 7.96	* mg/L 2070 475 1090	mg/L 70 <0.015 4	0.02 mg/L 1.25 <0.015 1.25		mg/L 4170 1100 2280	0.001 mg/L 0.016 0.006 0.002	mg/L			
RW-1 RW-1 RW-1 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11	neter -	mg/L	0.003 mg/L <0.0002	0.02 mg/L 0.0053	mg/L 180 67 131 62	mg/L <0.22 <0.033 <0.01 0.68	mg/L <0.16 <0.089 <0.02 0.09	mg/L 23.0 2.8 14.1 9.3	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22	* mg/L 2070 475 1090 768	mg/L 70 <0.015 4 14	0.02 mg/L 1.25 <0.015 1.25 0.42		mg/L 4170 1100 2280 1650	0.001 mg/L 0.016 0.006 0.002 0.008	mg/L	14.00	15.8 19.2	619 798
RW-1 RW-1 RW-1 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12		mg/L 182	0.003 mg/L <0.0002	0.02 mg/L 0.0053	mg/L 180 67 131 62 200	mg/L <0.22 <0.033 <0.01 0.68 0.079	mg/L <0.16 <0.089 <0.02 0.09 0.54	mg/L 23.0 2.8 14.1 9.3 28.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02	* mg/L 2070 475 1090 768 1910	mg/L 70 <0.015 4 14 79	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50		mg/L 4170 1100 2280 1650 3980	0.001 mg/L 0.016 0.006 0.002 0.008 0.049	9 6	14.00 6.83	15.8 19.2 16.8	619 798 1019
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002	0.02 mg/L 0.0053 0.018 0.0052	mg/L 180 67 131 62 200 200	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46	mg/L 23.0 2.8 14.1 9.3 28.0 25.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96	* mg/L 2070 475 1090 768 1910 1850	mg/L 70 <0.015 4 14 79 65	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80		mg/L 4170 1100 2280 1650 3980 3950	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050	9 6 8 8 8	14.00 6.83 8.97 8.97	15.8 19.2 16.8 16.8	619 798 1019 1019
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002	0.02 mg/L 0.0053 0.018 0.0052	mg/L 180 67 131 62 200 200 190	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01	* mg/L 2070 475 1090 768 1910 1850 1780	mg/L 70 <0.015 4 14 79 65 42	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379		mg/L 4170 1100 2280 1650 3980 3950 3820	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016	9 6 8 8 9	14.00 6.83 8.97 8.97 11.50	15.8 19.2 16.8 16.8 0.9	619 798 1019 1019 430
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-05-29	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00032	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069	mg/L 180 67 131 62 200 200 190	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77	* mg/L 2070 475 1090 768 1910 1850 1780 1600	mg/L 70 <0.015 4 14 79 65 42 52	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455		mg/L 4170 1100 2280 1650 3980 3950 3820 3800	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016	mg/L 9 6 8 8 9 5	14.00 6.83 8.97 8.97 11.50 7.09	15.8 19.2 16.8 16.8 0.9 7.3	619 798 1019 1019 430 602
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-05-29 2019-08-28	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046	mg/L 180 67 131 62 200 200 190 160 188	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81	* mg/L 2070 475 1090 768 1910 1850 1780 1600 1750	mg/L 70 <0.015 4 14 79 65 42 52 40	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455		mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014	9 6 8 8 9 5 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97	15.8 19.2 16.8 16.8 0.9 7.3 12.0	619 798 1019 1019 430 602 672
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-05-29 2019-08-28 2019-10-29	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00032	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069	mg/L 180 67 131 62 200 200 190 160 188 210	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94	* mg/L 2070 475 1090 768 1910 1850 1780 1600 1750 2140	mg/L 70 <0.015 4 14 79 65 42 52 40 73	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558		mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710 4170	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014 0.020	mg/L 9 6 8 8 9 5 9 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60	15.8 19.2 16.8 16.8 0.9 7.3 12.0	619 798 1019 1019 430 602 672 421
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-08-28 2019-08-28 2019-10-29	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03	mg/L 180 67 131 62 200 200 190 160 188 210	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08	* mg/L 2070 475 1090 768 1910 1850 1780 1600 1750 2140 1900	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555		mg/L 4170 1100 2280 1650 3980 3950 3820 3820 2710 4170 3710	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014	mg/L 9 6 8 8 9 5 9 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3	619 798 1019 1019 430 602 672 421 545
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-05-29 2019-02-29 2020-05-27 2020-08-18	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03	mg/L 180 67 131 62 200 200 190 160 188 210 185 237	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.20	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 <0.4 1.93	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92	* mg/L 2070 475 1090 1850 1780 1600 1750 2140 1900 2190	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55	0.02 mg/L 1.25 <0.015 1.25 1.25 1.80 0.379 0.455 0.558 0.555 2.10	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710 4170 3710 4350	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014 0.020	mg/L 9 6 8 8 9 5 9 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60	15.8 19.2 16.8 16.8 0.9 7.3 12.0	619 798 1019 1019 430 602 672 421
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-10-16 2019-05-29 2019-08-28 2019-10-29 2020-05-21 2020-08-18	DUP	mg/L 182 66	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.011 0.099 <0.2 <0.2 <0.2 0.039	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 1.93 0.41	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31	* mg/L 2070 475 1090 768 1910 1850 1780 1600 1750 2140 1900 517	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55 0.13	0.02 mg/L 1.25 <0.015 1.25 1.25 1.80 0.379 0.455 0.558 0.555 2.10 1.76		mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710 4170 3710 4350 1230	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.014 0.020 0.006	8 8 8 9 5 9 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07	15.8 19.2 16.8 16.8 16.8 12.0 0.8 15.3 20.2	619 798 1019 1019 430 602 672 421 545 961
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-10-16 2019-05-29 2019-08-28 2019-10-29 2020-05-27 2020-08-18 2017-10-05 2018-06-12	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69 98	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.2 0.39 0.280	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 1.93 0.41 2.40	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31	* mg/L 2070 475 1090 768 1910 1850 1750 2140 1900 2190 517 762	mg/L 70 <0.015 4 14 79 65 42 40 73 65 55 0.13 1.3	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555 2.10 1.76 0.0022	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 3820 3710 4170 3710 4350 1230	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.014 0.020 0.006 0.008	mg/L 9 6 8 8 9 5 9 9 9 9 10	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2	619 798 1019 1019 430 602 672 421 545 961
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-10-16 2019-05-29 2019-08-28 2019-10-29 2020-05-27 2020-08-18 2017-10-05 2018-06-12 2018-06-12	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69 98 110	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.20 0.280 0.066	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 1.93 0.41 2.40 0.92	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0 51.0	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31 8.40 7.71	* mg/L 2070 475 1090 768 1910 1850 1780 1600 1750 2140 1900 2190 517 762 693	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55 0.13 1.3	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555 2.10 1.76 0.0022 0.122	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 2710 4170 3710 4350 1230 1730	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.016 0.020 0.006 0.008	mg/L 9 6 8 8 9 5 9 9 9 9 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2	619 798 1019 1019 430 602 672 421 545 961
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-10-16 2019-05-29 2019-08-28 2019-10-29 2020-05-27 2020-08-18 2018-10-16 2018-10-16	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00005 0.00190 <0.0002 <0.0002 0.0002	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69 98 110 117	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.20 0.039 0.280 0.066 <0.01	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 1.93 0.41 2.40 0.92 <0.02	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0 51.0 19.2	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.78 7.81 7.94 8.08 7.92 8.31 8.40 7.71	* mg/L 2070 475 1090 768 1910 1850 1780 1750 2140 1900 2190 517 762 693 1060	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55 0.13 1.3 0.222 1.86	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555 2.10 1.76 0.0022 0.1022 0.0010	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 3820 2710 4170 3710 4350 1230 1730 1790 2310	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014 0.020 0.006 0.008	mg/L 9 6 8 8 9 5 9 9 9 9 10 9 6	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07 7.88 7.16 6.95	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2 20.5 1.3	619 798 1019 1019 430 602 672 421 545 961 585 431 761
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-08-28 2019-08-28 2019-10-29 2020-08-18 2018-10-16 2020-08-18	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005 0.00190 <0.0002 <0.0002 0.0002 0.0004 0.00089	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69 98 110 117 22	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.20 0.039 0.280 0.066 <0.01 0.052	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 1.93 0.41 2.40 0.92 <0.02	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0 51.0 19.2 71.1	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31 8.40 7.71 8.09 8.06	* mg/L 2070 475 1090 1990 1990 1990 2190 2190 517 762 693 1060 494	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55 0.13 1.3 0.22 1.86 1.22	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555 2.10 1.76 0.0022 0.122 0.0010 0.0811 0.0448	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710 4170 3710 4350 1230 1730 1790 2310	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014 0.020 0.008	mg/L 9 6 8 8 9 5 9 9 9 10 0 6 5	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07 7.88 7.86 6.95 11.13	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2 20.5 1.3 19.1	619 798 1019 1019 430 602 672 421 545 961 585 431 761 451
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-10-16 2019-05-29 2019-10-29 2020-05-18 2018-10-16 2018-06-12 2018-10-16 2020-08-18 2020-08-18	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00025 0.00025 0.00005 0.00190 <0.0002 <0.0002 0.0004 0.0089 0.0001	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003 0.016 0.012 0.116 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 188 210 185 237 69 98 110 117 22 11	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.011 0.099 <0.2 <0.2 <0.2 0.039 0.280 0.066 <0.01 0.052 <0.01	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 <0.010 0.01 <0.4 <1.93 0.41 2.40 0.92 <0.02 0.07 0.03	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0 51.0 19.2 71.1 2.3	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31 8.40 7.71 8.09 8.06	* mg/L 2070 475 1090 768 1910 1850 1750 2140 1900 2190 517 762 693 1060 494 107	mg/L 70 <0.015 4 14 79 65 42 40 73 65 55 0.13 1.3 0.22 1.86 1.22 0.065	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.455 0.558 0.555 2.10 1.76 0.0022 0.122 0.0010 0.0811 0.0448 0.0002	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 2710 4170 3710 4350 1230 1730 1790 2310 1010	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.014 0.020 0.006 0.008	mg/L 9 6 8 8 9 5 9 9 9 9 10 9 6 5 9	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07 7.88 7.16 6.95 11.13	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2 20.5 1.3 19.1 17.6 1.9	619 798 1019 1019 430 602 672 421 545 961 585 431 761 451
RW-1 RW-1 RW-1 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2 RW-2	PWQO - Units - 2017-04-11 2018-06-12 2020-08-18 2017-04-11 2018-06-12 2018-06-12 2018-10-16 2019-08-28 2019-08-28 2019-10-29 2020-08-18 2018-10-16 2020-08-18	DUP	mg/L 182 66 150 180	0.003 mg/L <0.0002 0.00113 <0.0002 0.00032 0.00025 0.00007 <0.0005 0.00190 <0.0002 <0.0002 0.0002 0.0004 0.00089	0.02 mg/L 0.0053 0.018 0.0052 0.0068 0.0069 0.0046 <0.03 0.017 <0.003	mg/L 180 67 131 62 200 200 190 160 188 210 185 237 69 98 110 117 22	mg/L <0.22 <0.033 <0.01 0.68 0.079 0.14 0.14 0.011 0.099 <0.2 <0.2 <0.20 0.039 0.280 0.066 <0.01 0.052	mg/L <0.16 <0.089 <0.02 0.09 0.54 0.46 2.60 <0.010 0.01 <0.4 <0.4 1.93 0.41 2.40 0.92 <0.02	mg/L 23.0 2.8 14.1 9.3 28.0 25.0 55.0 <1 12.6 10.3 6.1 11.5 10.0 21.0 51.0 19.2 71.1	6.5 - 8.5 n/a 7.99 8.06 7.96 8.22 8.02 7.96 8.01 7.77 7.81 7.94 8.08 7.92 8.31 8.40 7.71 8.09 8.06	* mg/L 2070 475 1090 1990 1990 1990 2190 2190 517 762 693 1060 494	mg/L 70 <0.015 4 14 79 65 42 52 40 73 65 55 0.13 1.3 0.22 1.86 1.22	0.02 mg/L 1.25 <0.015 1.25 0.42 2.50 1.80 0.379 0.455 0.558 0.555 2.10 1.76 0.0022 0.122 0.0010 0.0811 0.0448	mg/L	mg/L 4170 1100 2280 1650 3980 3950 3820 3800 2710 4170 3710 4350 1230 1730 1790 2310	0.001 mg/L 0.016 0.006 0.002 0.008 0.049 0.050 0.016 0.014 0.020 0.008	mg/L 9 6 8 8 9 5 9 9 9 10 0 6 5	14.00 6.83 8.97 8.97 11.50 7.09 7.97 7.60 7.70 6.07 7.88 7.86 6.95 11.13	15.8 19.2 16.8 16.8 0.9 7.3 12.0 0.8 15.3 20.2 20.5 1.3 19.1	619 798 1019 1019 430 602 421 545 961 585 431 761 451

Bold denotes exceedance of PWQO (1994) criteria

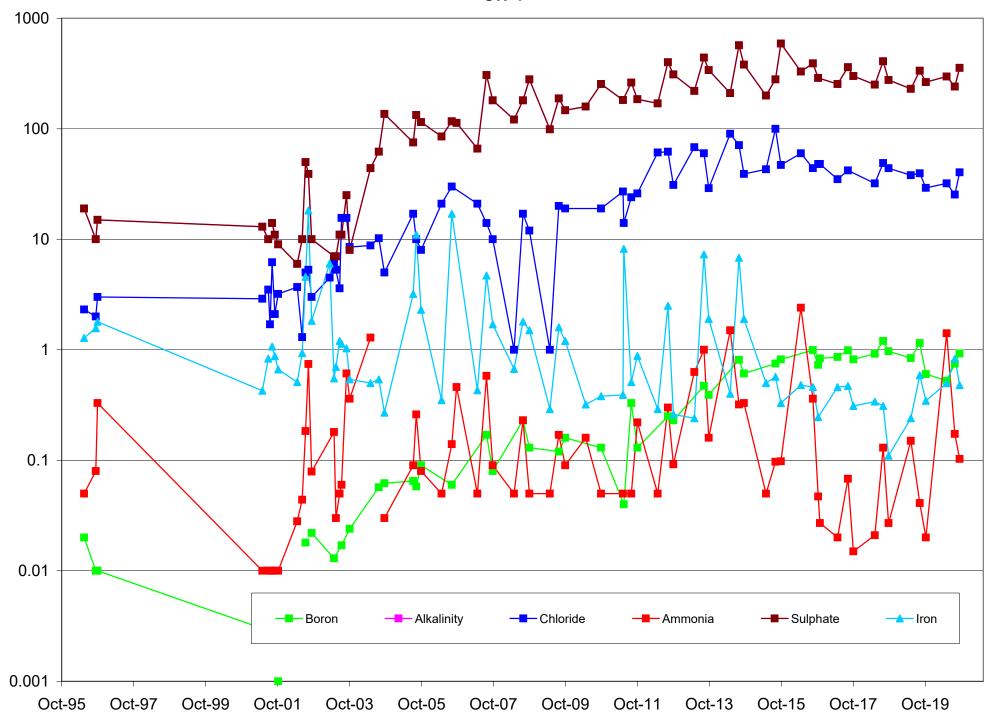
* should not be decreased by more than 25% of the natural concentration

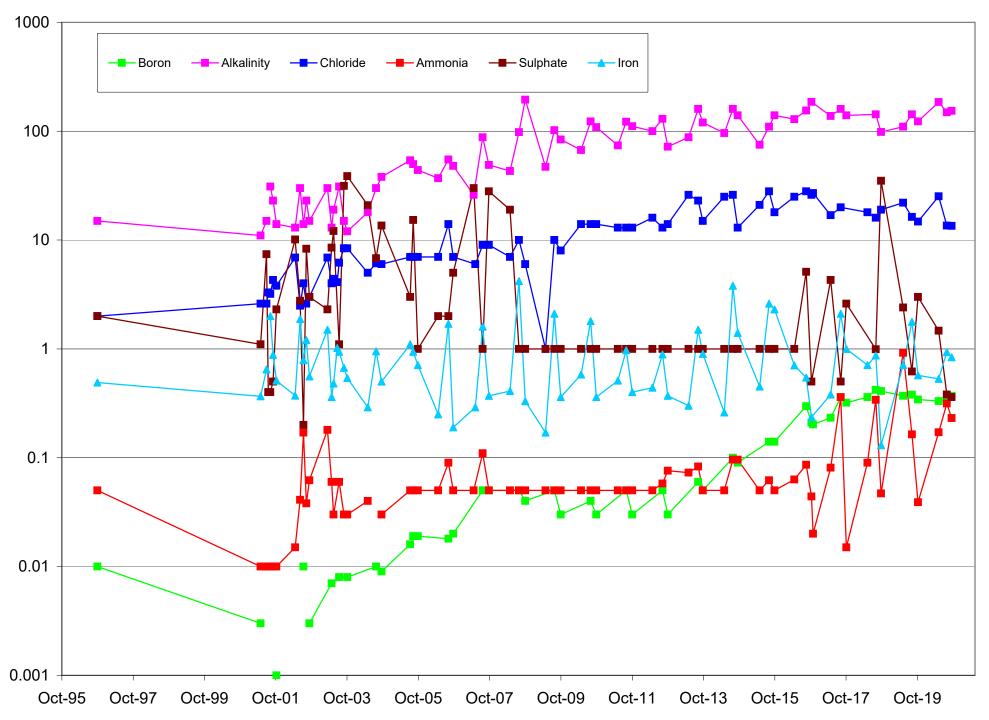
NA - Not Analyzed

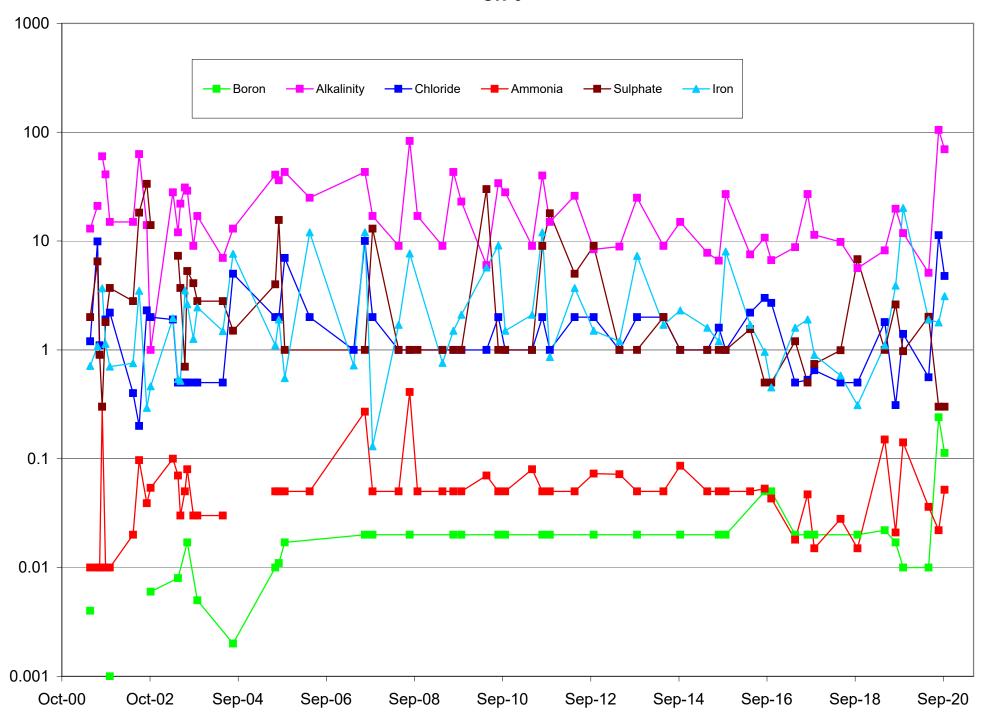


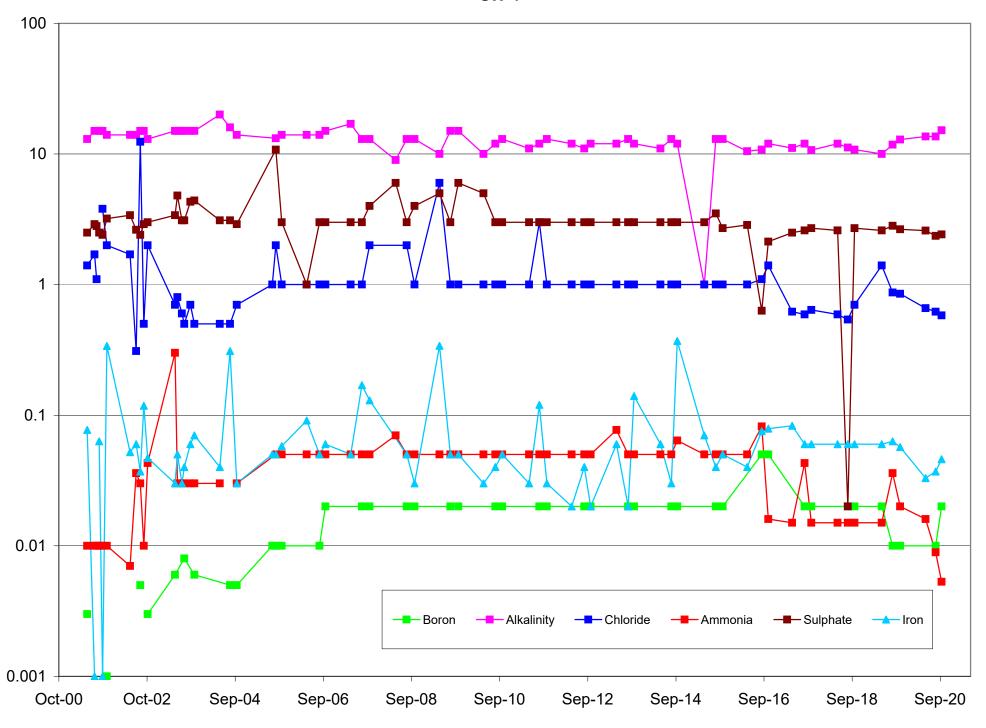
APPENDIX I

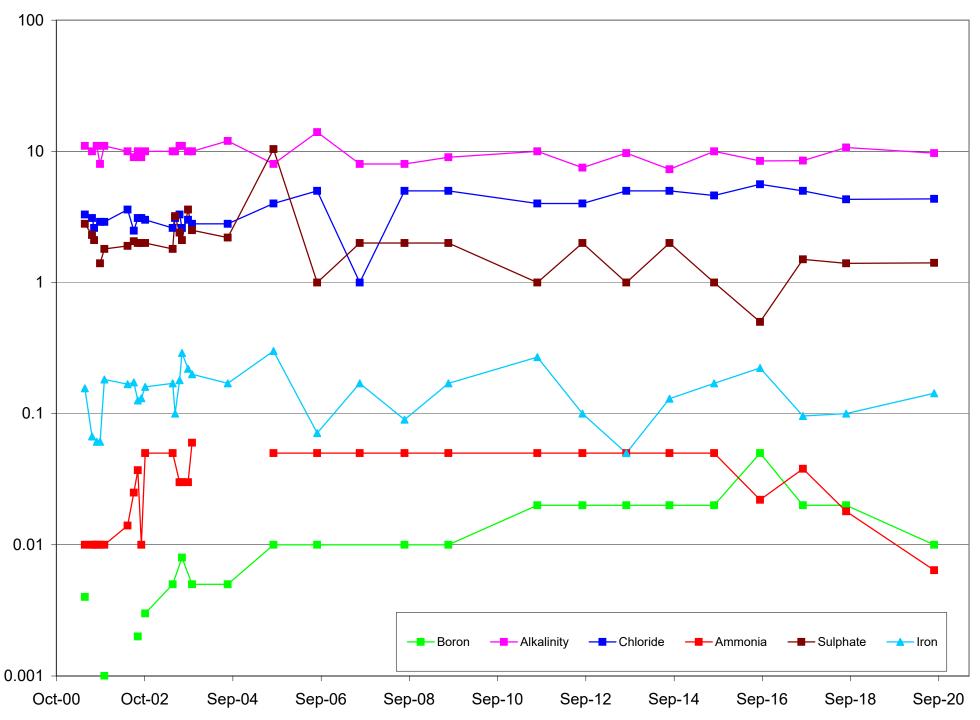
Surface Water Quality Over Time

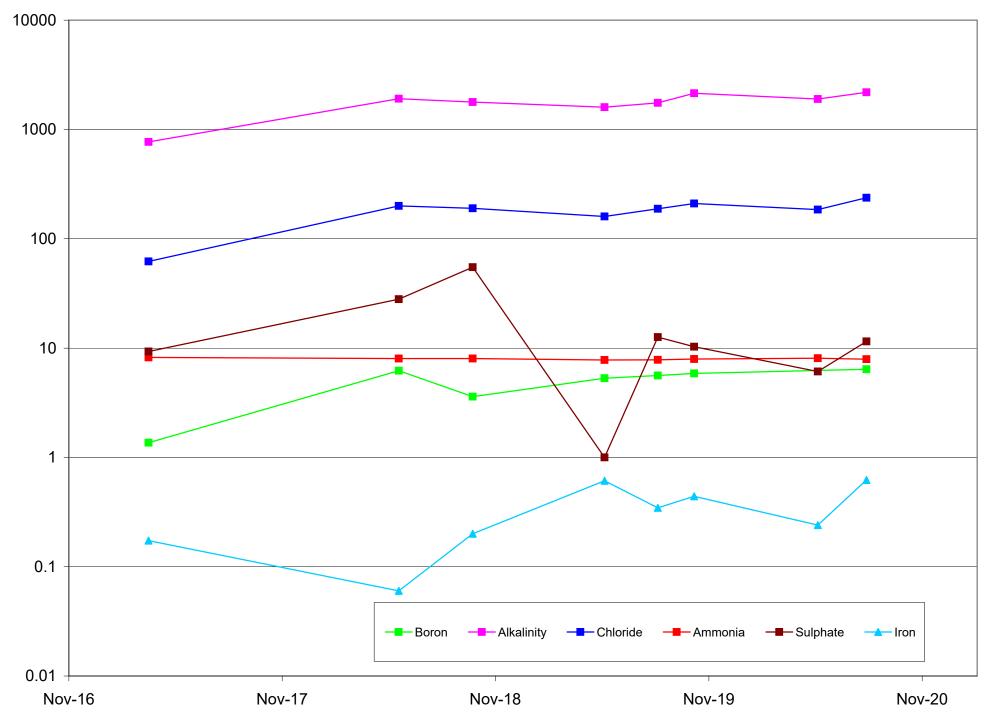


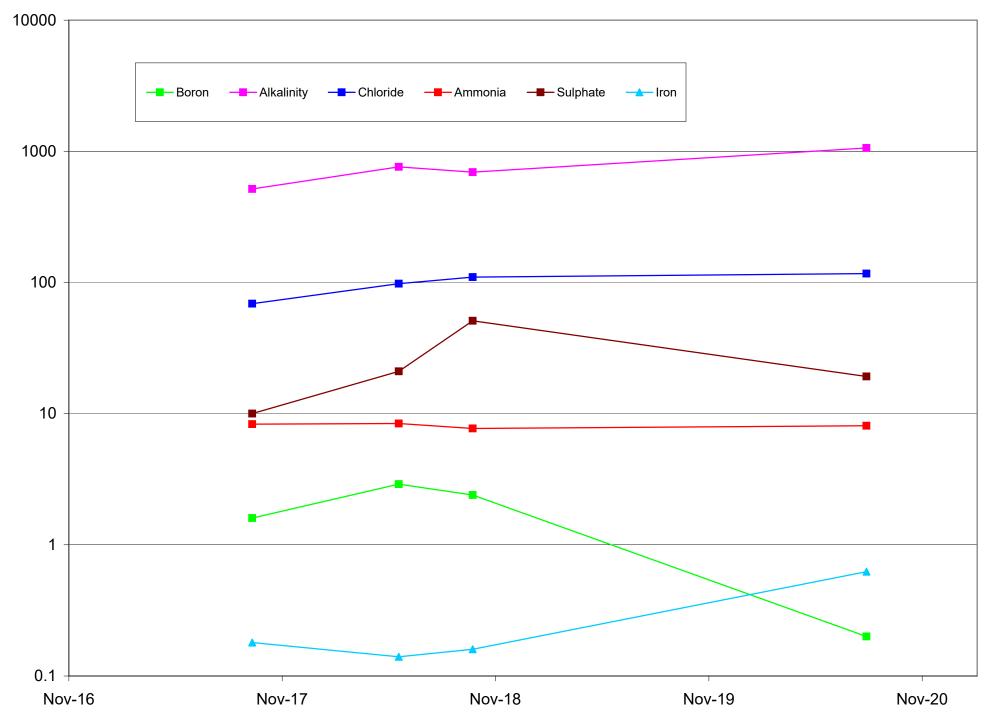














APPENDIX J

MECP Landfill Reporting Submission Forms

Appendix D-Monitoring and Screening Checklist General Information and Instructions

General Information: The checklist is to be completed, and submitted with the Monitoring Report.

Instructions: A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

Definition of Groundwater CEP:

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the *Professional Engineers Act*; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary, member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

Definition of Surface water CEP:

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

Monitoring Report and Site Information			
Waste Disposal Site Name	Kenora Area Waste Disposal Site (Jones Road Landfill)		
Location (e.g. street address, lot, concession)	Part Lot 1 & 2, Concession II, Township of PettyPiece.		
GPS Location (taken within the property boundary at front gate/front entry)	412895 , 5521124		
Municipality	District of Kenora		
Client and/or Site Owner	City of Kenora		
Monitoring Period (Year)	2018-2020		
This N	This Monitoring Report is being submitted under the following:		
Certificate of Approval No.:	A612018		
Director's Order No.:	Type Here		
Provincial Officer's Order No.:	Type Here		
Other:	Type Here		

Report Submission Frequency	○ Annual	Specify (Type Here): every three years
The site is:	C	Active Inactive Closed
If closed, specify C of A, control or aut	horizing document closure date:	Select Date
Has the nature of the operations at the site changed during this monitoring period?) Yes) No
If yes, provide details:	Type Here	
Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i. e. exceeded the LEL for methane)		Yes No

Groundwater WDS Verification: Based on all available information about the site and site knowledge, it is my opinion that:					
Sa	Sampling and Monitoring Program Status:				
1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:	• Yes • No	If no, list exceptions (Type Here):			
2) All groundwater, leachate and WDS gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by Certificate(s) of Approval or other relevant authorizing/control document(s):	Yes● NoNot Applicable	If no, list exceptions below or attac	ch information.		
Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)		Date		
see table 2 of report for omitted monitors			Select Date		
			Select Date		
			Select Date		

a) Some or all groundwater, leached monitoring requirements have be outside of a ministry C of A, authors b) If yes, the sampling and monitor the monitoring period being reported in accordance with estallocations, and parameters develop Guidance Document:	en established or defined rizing, or control document. ring identified under 3(a) for rted on was successfully ablished protocols, frequencies,	 Yes No Not Applicable 	If no, list exceptions below or attach additional information.
Groundwater Sampling Location	Description/Explanation for cha (change in name or location, add		Date
see previous page	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
4) All field work for groundwater investigations was done in accordance with standard operating procedures as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	YesNo	If no, specify (Type Here):	

	Sampling and Monitoring Program Results/WDS Conditions and Assessment:			
5)	The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.	YesNo	If no, the potential design and ope exceptions are as follows (Type Ho	
6)	The site meets compliance and assessment criteria.	YesNo	If no, list and explain exceptions (Type Here): t
7)	The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.	YesNo	If no, list exceptions and explain re (Type Here):	eason for increase/change
1)	Is one or more of the following risk reduction practices in place at the site: (a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/treatment; or (b) There is a predictive monitoring program in-place (modeled indicator concentrations projected over time for key locations); or (c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation): i.The site has developed stable leachate mound(s) and stable leachate plume geometry/concentrations; and ii.Seasonal and annual water levels and water quality fluctuations are well understood.	YesNo	Note which practice(s):	☐ (a) ☑ (b) ☑ (c)
9)	Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):	YesNoNot Applicable	If yes, list value(s) that are/have be action taken (Type Here):	een exceeded and follow-up

Groundwater CEP Declarati	on:
defined in Appendix D under Instruction relied on individuals who I believe to b	or a registered professional geoscientist in Ontario with expertise in hydrogeology, as ons. Where additional expertise was needed to evaluate the site monitoring data, I have be experts in the relevant discipline, who have co-signed the compliance monitoring report and who have provided evidence to me of their credentials.
to the site. I have read and followed th Technical Guidance Document (MOE, 2 amended from time to time. I have rev identified in this checklist. Except as o been undertaken by a laboratory which	cate of Approval and any other environmental authorizing or control documents that apply the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water 2010, or as amended), and associated monitoring and sampling guidance documents, as viewed all of the data collected for the above-referenced site for the monitoring period(s) otherwise agreed with the ministry for certain parameters, all of the analytical work has the is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General ting and calibration laboratories, or as amended from time to time by the ministry.
opinion that these exceptions and con- Where this is not the case, the circumst	s have been noted in the questions in the checklist attached to this declaration, it is my cerns are minor in nature and will be rectified for the next monitoring/reporting period. tances concerning the exception or potential concern and my client's proposed action have nistry of the Environment District Manager in a letter from me dated:
8-Jun-2021	
Recommendations:	
Based on my technical review of the me	onitoring results for the waste disposal site:
No changes to the monitoring program are recommended	
The following change(s) to the	
No Changes to site design and operation are recommended	Type Here
The following change(s) to the site design and operation is/ are recommended:	

Name:	Colin Ross		
Seal:	Add Image		
Signature:	Date: 8-Jun-2021		
CEP Contact Information:	Colin Ross		
Company:	Azimuth Environmental Consulting Inc.		
Address:	642 Welham Road, Barrie, ON L4N 9A1		
Telephone No.:	705-721-8451 Fax No.: 705-5721-8926		
E-mail Address:	colin@azimuthenvironmental.com		
Co-signers for additional expertise provided:			
Signature:	Date: Select Date		
Signature:	Date: Select Date		

Surface Water WDS Verification:				
Provide the name of surface water body/bodies potentially receiving the WDS effluent and the approximate distance to the waterbody (including the nearest surface water body/bodies to the site):				
Name (s)	Morgan Lake & associated wetlan	d		
Distance(s)	3.2 & 2.5km			
Based on all available information an	d site knowledge, it is my opinio	n that:		
Sa	ampling and Monitoring	g Program Status:		
1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:	• Yes • No	If no, identify issues (Type Here): a locations have been added to asse exceedances		
2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the Certificate(s) of Approval or relevant authorizing/control document(s) (if applicable):	 Yes No Not applicable (No C of A, authorizing / control document applies) 	If no, specify below or provide det	ails in an attachment.	
Surface Water Sampling Location		anation for change tion, additions, deletions)	Date	
see report section 3.4 / 3.5			Select Date	
Type Here	Type Here		Select Date	
Type Here	Type Here		Select Date	
Type Here	Type Here		Select Date	

a) Some or all surface water samp requirements for the monitoring outside of a ministry C of A or aut	period have been established	YesNoNot Applicable	
b) If yes, all surface water samplin under 3 (a) was successfully comp established program from the site frequencies, locations and param Technical Guidance Document:	e, including sampling protocols,	YesNoNot Applicable	If no, specify below or provide details in an attachment.
Surface Water Sampling Location		anation for change ion, additions, deletions)	Date
see report section 3.4 / 3.5	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
4) All field work for surface water investigations was done in accordance with standard operating procedures, including internal/external QA/QC requirements, as established/outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	YesNo	If no, specify (Type Here):	

Sampling and Monitoring Program Results/WDS Conditions and Assessment:				
5) The receiving water body meets so i.e., there are no exceedances of commanagement Policies, Guidelines criteria (e.g., CWQGs, APVs), as no (Section 4.6):	riteria, based on MOE legislation and Provincial Water Quality Ob	, regulations, Water jectives and other assessment	YesNo	
If no, list parameters that exceed criteria outlined above and the amount/percentage of the exceedance as per the table below or provide details in an attachment:				
Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance Background E		
e.g. Nickel	e.g. C of A limit, PWQO, background	e.g. X% above PWQO		
phenols	0.001 mg/L	>100%		
Type Here	Type Here	Type Here		
6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?	YesNo	phenols have been noted in backs they could at least be partially nat		

7)	All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.	• Yes • No	previous increasing trends are noted at SW-1 and SW-2 for leachate indicator parameters have become more stable since 2017.
8)	For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g., PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):	YesNoNot KnownNot Applicable	
9)	Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):	YesNoNot Applicable	see report section 3.4 / 3.5

Surface Water CEP Declaration: I, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period. I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry. If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated: 8-Jun-2021 **Recommendations:** Based on my technical review of the monitoring results for the waste disposal site: No Changes to the monitoring program are recommended Addition of two additional surface water monitoring locations to refine leachate quality distribution within the CAZ. See section 4 of report. The following change(s) to the monitoring program is/are recommended: No changes to the site design and operation are recommended Type Here The following change(s) to the site design and operation is/are

recommended:

CEP Signature		
Relevant Discipline	Water Quality Assessor	
Date:	9-Jun-2021	
CEP Contact Information:	Colin Ross	
Company:	Azimuth Environmental Consulting Inc.	
Address:	642 Welhar Road, Barrie, ON. L4N 9A1	
Telephone No.:	705-721-8451	
Fax No.:	705-721-8926	
E-mail Address:	colin@azimuthenvironmental.com	
Save As		Print Form



APPENDIX K

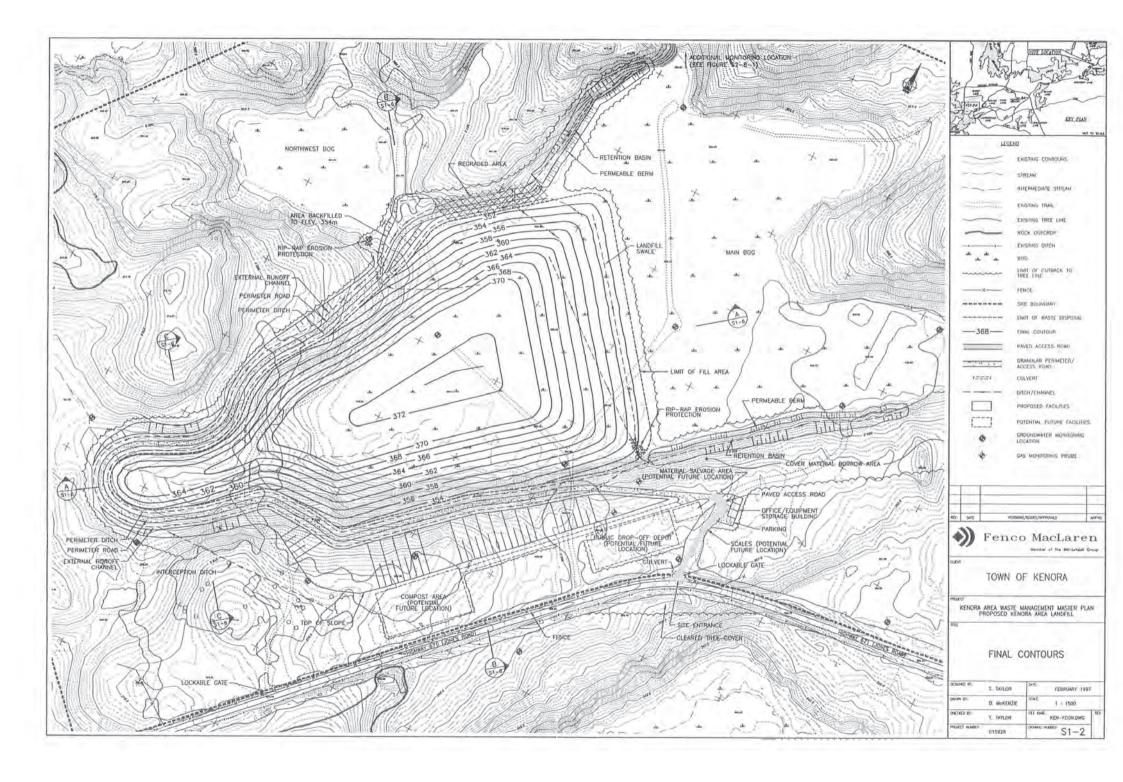
Benthic Invertebrate Monitoring

Benthic Sampling Results - Jones Road Landfill Site													
Biological Endpoints	SB-1					SB-2				SB-R			
Biological Enupoints	Aug-00	Aug-01	Aug-02	Aug-03	Aug-00	Aug-01	Aug-02	Aug-03	Aug-00	Aug-01	Aug-02	Aug-03	
Density (as number of organisms per square													
meter) of total benthic invertebrates	752	376	406	1540	731	969	928	4217	1612	434	507	4866	
Density by taxon (as number of Families per													
station)	8	1	5	6	6	4	8	17	12	4	8	12	



APPENDIX L

Final Contours Design Drawing





APPENDIX M

Borehole Logs

Project_		Kenora WMMP No.: 015926	Borehole No.	BH-1/17
Partie and the second		6/2/12 - 96/2/14 Dritter: Paddock Drilling See Figure S2-3-1	Piezometers <u>MW</u> -	1/17
				. 1.3
		S. Bricks	Sheet	1 of 2
Drilling		Hollow Stem Augers to 5.9 m;	SS Split Spoon Sample	RX Rock Core
Piezomet		HQ Coring to 16.9 m	WA Wash Sample	GR Grab Sample
		51 mm Dia. Sch. 40 Threaded PVC	AU Auger Sample CN Continuous Sample	Piezometer Screen
Type of	Screen _	51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN Continuous Sample SH Shelby Tube Sample	₩ Water Level Elev. m (with date)
Scale	Elev. (m GSD)	Geological Log	## m o	ole ole
(ft.) (m)	Depth (m)	Description	Monitor Detail	Sample No. Plot Sample Type Vapour Conc.
		Ground Surface Elevation: 350.57 m		
5 2 3		GRAVELLY SILTY SAND - grey-rust mottled, becoming grey below 2.3 m - with cobbles and some boulders - locally TILL-LIKE - wet below 0.8 m - generally compact; locally dilatant, becoming more dense with depth		1 N SS 14 2 N SS 7 3 N SS 41/23cm
15 5			Holeplug ar Cave	5 \ SS 55/15cm 5 \ SS 67 6 \ SS 102 7 \ SS1p0/25cm
20 - 6 - 7 - 7 - 8 - 8 - 8		- auger refusal at 5.9 m; changed to HQ coring	O CANAGE AND THE STATE OF THE S	1 III RX
30 - 9 - 10 - 10 - 11				3
40 12		- becomes very sandy, less till-like below 12.2 m		5 RX
45 — 14 — 15				6 II RX
-16			Cave	7 RX
Borehole Record	е	S. Bricks H. Jac Prepared by Checke		Fenco MacLaren 97/2/19

Project_		Kenora WMMP No.: 015926			le No.		[-1/17		-,
			Cor	ntin	uation	Sheet 2 o	f 2		1
Scale	Elev. (m GSD) Depth	Geological Log		Strat.	Mon	itor Details	a l de	Sample Type	Vapour
ft.) (m)	(m)	Description	i	Str			San	San	Vap
55	333.7		7						
17	16.9	End of Borehole @ 16.9 m							
5018									
19									
55 — 20									
-21									
0-									
5——23									
24									(
5 — 26									
-									
—28 —									
5 — 29									
30									
-31									
5 — 32									
-									
0 = 33									
34					-1				
7 1				_					=(
Borehole I	Record						Fenco	MacLa	iren
							9	7/2/19	,

Project_		Kenora WMMP No.: 015926	Bo	rehol	e No. BI	I-2/10	(-,	-,5
Date Dri	lled9	06/1/30 - 96/1/30 Driller: Paddock Drilling	Pie	ezome	ters MW-2/9			
Borehole	Location	See Figure S2-3-1						
Drilling	Supervis	sed by: S. Bricks			Sheet 1 o	f 1		
Drilling	Method _	Hollow Stem Augers to 9.6 m			5 0 0			_
,				German.		Roci		
Type of I	S SELECT	#4 TO 1 10 TO 1 10 TO 1 1 1 TO 1 TO 1 TO 1	AU			Piezor	neter	Screen
	70.00	51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN SH	Shell	inuous Sample	Water m (wit	Level th dat	Elev. e)
Scale	Elev. (m GSD)	Geological Log		o t	John Market	<u>e</u> .	1 - 0 o	un d
(ft.) (m)	Depth (m)	Description		Plo	Monitor Details	Samp I	Sample	Vapour Conc.
		Ground Surface Elevation: 350.33 m						
5—1		PEAT/ORGANICS - frozen to 0.6 m, wet below - dark brown to black	1			1	FGRA F F F	В
10 -3	347.2		3			2	SS	1
=	3.1	CLAYEY SILT - bluish grey				3	SS	push
4		- very soft - increasing silt content with depth, becoming SILT, SOME			Holeplug	4	SS	push
15		CLAY below 5.5 m - wet				5	\ ss	push
+						6	Ss	2
206	344.0 6.3	SAND				7	\ ss	3
7		- trace to some silt - grey				8	SS	6
25 — 8		 generally fine to medium, locally medium to coarse wet 				9	SS S	2
30 - 9	341.7 8.6 340.7 9.6	SILT-SAND TILL - grey - gravelly - compact; wet			Cave	10	∑ ss	24
35 — 11 		End of Borehole @ 9.6 m						
Borehole	e	S. Bricks H. Jacks	on			Fenc	o MacI	Laren
Record		Prepared by Checked b					97/2	DLV.

Project.		Kenora WMMP No.: 015	5926 B	orehol	e No. BH	[-2/13		
Date Dri	lled	96/2/7 - 96/2/7 Driller: Paddock Drill	ling P	iezome	ters MW-2/13	3		Ξ(
Borehole	Location	see Figure S2-3-1						
Drilling	Supervi	sed by: S. Bricks			Sheet 1 o	f 1		
Drilling	Method .	Hollow Stem Augers to 11.4 m;						
		HQ Coring to 13.3 m	SS WA		t Spoon Sample RX Sample GR	Rock		
Piezomet			AU			Piezom		
Type of		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN CN	Cont	inuous Sample by Tube Sample in	Water I	Level	Elev.
Type of	Elev.				by rube sample = 1		1 01	_
Scale	(m GSD) Depth	Geological Log		Strat. Plot	Monitor Details	Sample No.	Sample	Vapour Conc.
t.) (m)	(m)	Description		Str		San	San	Car Car
		Ground Surface Elevation: 350.11 m						
0 — 3 — 4 5 — 5 — 7 5 — 8 — 10 — 10 — 12 — 13	339.4 10.7 338.7 11.4	SILT-SAND TILL - grey - with coarse sand and fine gravel - dense to very dense - wet BEDROCK - granodiorite - RQD = 100%		上(((((((((((((((((((((((((((((((((((((Holeplug Cave Holeplug Silica Sand	1A \(\sum_{2} \)	SS 5	0/15cm
14 15 15 Borehole Record			. Jackson			-	MacL	
		C. C. C. C. C. C. C. C. C. C. C. C. C. C					97/2/	19

	Kenora WMMP No.: 015926	Во	rehole	No. BH	I-3/11		
		Pi	ezomete	MW-3/8			_
				Chart 1			
		-		sneet 1 0	1		
Detail	s 51 mm Dia. Sch. 40 Threaded PVC	WA AU	Wash S Auger	sample GR	Grab Piezon	Samp neter :	le Screen
lev.				Tube Sample =	101	11 01	10
GSD) epth			Tot M	onitor Details	Mp le	TO TO TO	Vapour Conc.
(m)			Ç.		Sa	Sa	20
250.2	T CALL CONTROL			888			
0.5	- black SAND TILL - some silt to silty, some gravel to gravelly - brown, becoming grey below 1.5 m - evidence of roots to 2.7 m - wet - generally compact - augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below 8 m.			Holeplug Cave Geosock on Screen	1 2 3 4 5 6 7 8	X ss X ss X ss X ss X ss X ss X ss	11 15 14 19 9 18 30 20
10.7	S. Bricks Prepared by H. Jackson Checked by				Fenc	o MacL 97/2	
	d 9 cation pervise chod cation pervise chod cation pervise chod cation pervise chod cation ca	See Figure S2-3-1 Servised by: S. Bricks Solid Stem Augers to 10.7 m Setails Solid Stem Augers to 10.7 m Setails Solid Stem Augers to 10.7 m Setails Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Geological Log Geological Log BEAT/ORGANICS - black SAND TILL - some silt to silty, some gravel to gravelly - brown, becoming grey below 1.5 m - evidence of roots to 2.7 m - wet - generally compact - augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below 8 m. S. Bricks H. Jackso H. Jackso	See Figure S2-3-1 Servised by: S. Bricks Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: Solid Stem Augers to 10.7 m See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: See Figure S2-3-1 Servised by: Ser	ation: See Figure S2-3-1 servised by: S. Bricks shod Solid Stem Augers to 10.7 m setails solid Stem Augers to 10.7 m setails solid Stem Augers to 10.7 m setails solid Stem Dia. Sch. 40 Threaded PVC seeps1 mm Dia. Threaded PVC, #10 Slot with Geosock selvens Geological Log septh Description Ground Surface Elevation: 350.63 m Ground Surface Elevation: 350.63 m PEAT/ORGANICS - black SAND TILL - some silt to sily, some gravel to gravelly - brown, becoming grey below 1.5 m - evidence of roots to 2.7 m - wet - generally compact - augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below 8 m. S. Bricks H. Jackson	See Figure S2-3-1 Servised by: S. Bricks Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Solid Stem Augers to 10.7 m Ground Surface Elevation: 350.63 m PEAT/ORGANICS - bake Solid Stem Augers to 10.7 m - evidence of mots to 2.7 m - evidence of mots to 2.7 m - ever - generally compact - augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below 8 m. Solid Stem Augers to 10.7 m British Solid Stem Augers to 10.7 m - augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below Solid Stem Augers Solid Stem Augers Sample RM Wash Sample RM Wa	See Figure S2-3-1 Servised by: S. Bricks Solid Stem Augers to 10.7 m See Split Spoon Sample RX Rock Mash Sample RY Rock Mash S	Piezometers MW-3/8 Sation: See Figure S2-3-1 Servised by: S. Bricks Solid Stem Augers to 10.7 m See Figure S2-3-1 Solid Stem Augers to 10.7 m SS Split Spoon Sample RX Rock Core Wash Sample Simm Dia. Sch. 40 Threaded PVC Geogli mm Dia. Threaded PVC, #10 Slot with Geosock Solid Stem Augers and the Sample Simm Dia. Threaded PVC Simm Dia. Threaded PVC, #10 Slot with Geosock Geogli Description Ground Surface Elevation: 350.63 m Description Ground Surface Elevation: 350.63 m SAND TILL TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SAND TILL SA

Project.		Kenora WMMP No.: 0	15926 B	orehole No.	B1	H-4/6		
6336 500		06/1/26 - 96/1/26 Driller: Paddock Dr	illing p	iezometers	MW-4/6			_(
		See Figure S2-3-1				3 57		-
		sed by: S. Bricks			Sheet 1 o	f 1		
Piezometo Type of I	er Detail	Hollow Stem Augers to 5.8 m s 51 mm Dia. Sch. 40 Threaded PVC 51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	SS WA	Wash Samp Auger Samp	ole	Grab Piezom	Samp eter	le Screen
	Elev. (m GSD)	Geological Log		++		u	l o	١ ٠
Scale (ft.) (m)	Depth	Description		A Monit	tor Details	Sample No.	amp	Vapour Conc.
(ici) (iii)	(m)	Ground Surface Elevation: 350.75 m		0		S	S	20
5—1	348.5	PEAT/ORGANICS - black, wet			II. linda	1 2	ss	push push
10 -3	2.3	CLAYEY SILT - green-brown to grey-brown - with trace, very thin silty fine sand layers - soft to very soft			Holeplug	3	SS SS	5
15 —	346.2	- wet				5	Ss	push
5	4.6 345.0	SAND TILL - some silt, some gravel and cobbles - grey - loose			Silica Sand and Cave	0	SS	11
20 6 7	5.8	- wet End of Borehole @ 5.8 m	/					
25 — 8								
30 9 10								
35 — 11								
40 — 12								
45 — 14								
50 ————————————————————————————————————								ζ
Borehole		S. Bricks	H. Jackson			Fenco	MacL	aren
Record		Prepared by	Checked by				97/2/	

L

Drilling Supervi	on: See Figure S2-3-1		ezometers	MW-4/1	8		
	C Deigles				1.5		_
of fitting method	sed by: S. Bricks Hollow Stem Augers to 5.8 m;			Sheet 1 c	of 2		
	HQ Coring to 18.3 m	SS		oon Sample R			
Piezometer Detai		AU CN	Auger Sa Continuo		Piezome Water L	ter Sc	ree
Elev.	0.1.7.11			ube sampte -	0	l nı	
Scale (m GSD) Depth			Plot.	itor Details	Sample No.	Sample	Vapour
t.) (m) (m)	Ground Surface Elevation: 350.56 m		σ .	1	S	S	>
5—1 5—2 ——3 ——3 ——4 5——5				Holeplug			
344.8 5.8 5.8					1 I	RX	
-10 -11			478-78-78-78-78-78-78-78-78-78-78-78-78-7		3	RX	
			4 75 75 75 75 75 75 75 75 75 75 75 75 75	Cave	4 II	RX	
15 16		7	28.788.788.788.3 1.38.38.38.38.38.38.38.38.38.38.38.38.38.		6 10	RX	
Borehole Record	S. Bricks Prepared by	H. Jackson Checked by			Fenco	MacLa 97/2/1	

Project_		Kenora WMMP No.: 01592	Continuation Sheet	
Scale	Elev.	Geological Log	Sheet 2 of 2	Sample Type Vapour Conc.
(ft.) (m)	Depth (m)	Description	Sam Sam	San Vap
55 — 17 — 18 60 — 18 60 — 20 — 21 70 — 21 70 — 22 75 — 23 — 24 80 — 25 — 25 — 27 90 — 28 — 29 — 30 — 31 — 31 — 34 — 34	332.3 18.3	End of Borehole @ 18.3 m	2	O RX
Borehole F	Record			MacLaren 7/2/19

Project_		Kenora WMMP No.:	15926 E	Borehole No.	BI	I-5/17		
		6/1/23 - 96/1/25	rilling p	Piezometers	MW-5/1	7		
		sed by: S. Bricks			- T			-
		Solid Stem Augers to 6.6 m;			Sheet 1 o	f 2		
		HQ Coring to 17.5 m	ss	Split Spo	on Sample RX	Rock	Core	
Piezomete			WA		. =	Grab		
Type of F	Pipe	51 mm Dia. Sch. 40 Threaded PVC	AU CN			Piezome		
Type of S	Screen _	51 mm Dia. Sch. 40 Threaded PVC, #10 Slo	SH	Shelby Tu	s Sample De Sample De Sample	water i	evel dat	e)
Scale	(m GSD)	Geological Log		Strat.	tor Details	9 .	p e	Vapour Conc.
(ft.) (m)	Depth (m)	Description		PI BI	tor betaits	Sample No.	Sample	Vap
		Ground Surface Elevation: 369.35 m						
10 - 3 - 4 15 - 5 - 5 - 8 - 7 25 - 8 - 10 - 35 - 11 - 13 - 45 - 14 - 15		- some silt to silty - with gravel and cobbles - grey-brown - dry to damp - loose to crumbly texture - auger refusal at 6.6 m; continued with HQ coring		brand of the form	Holeplug Silica Sand	2	SS SS SS SS RX RX	
Borehole Record	;	S. Bricks Prepared by	H. Jackson Checked by			7 Fenco	MacI	700

Project_		Kenora WMMP	No.:015926	Borehole	No. BI	I-5/17		
				Continua	tion Sheet			1
					Sheet 2 c			
Scale	Elev. (m GSD)	Geol	ogical Log	Strat.		Sample No.	o e	Vapour
(ft.) (m)	Depth (m)	De	escription	Str	Monitor Details	Samp	Sal	Japo
	N.W.					107	1	
55	352.7 16.6	probable DEDDOCV						
17	351.9	probable BEDROCK - granodiorite - RQD = 63%		3	Cave	8	RX	
18	17.5	End of Borehole @ 17.5 m						
60								
19								
65								
-20						1 1		
7.1	3 1							
70 — 21								
-22								
1								
75 ————————————————————————————————————								
+								
30 — 24								- (
- 23								
85 ——26				1 1	1.40			
7								
	1							
0 -								
28								
5 -29								
4								
0 -								
31								
32								
0 -								
34								
-								
								-
Borehole R	ecord					Fenco	MacLa	ıren
200000000000000000000000000000000000000	72.00					-		

Project_			Bore	hole No F	BH-6/6	
		6/1/25 - 96/1/25	Piez	ometers <u>MW-6/5</u>	5	
		sed by: S. Bricks		Ob A	4 4	-
		Solid Stem Augers to 5.8 m		Sheet 1	01 1	
Piezomete Type of F	er Detail		AU A	uger Sample	R Grab Samp Piezometer	ole Screen
Carlo	Elev. (m GSD)	Geological Log			In II a	1.
Scale ft.) (m)	Depth (m)	Description	Strat.	Monitor Details	Sample No. Plot Sample	Vapour
	7.07	Ground Surface Elevation: 350.34 m	0,		0, 0,	
10 - 3 - 4 - 15 5 10 - 3 10 - 3 11 12 - 13 14 - 14 - 14 - 14	347.3 3.1 344.6 5.8	- locally with thin sand or silt laminae - grey to brown, with rust discolouration to 1.5 m - root traces noted to 1.9 m - wet - loose to compact SILTY SAND TILL - with some thin sand laminae - some gravel to gravelly - grey - wet End of Borehole @ 5.8 m		Holeplug Cave Geosock on Screen	1 \ SS 2 \ SS 3 \ SS 4 \ SS 5 \ SS 6 \ SS	14 24 34 38/23ci
0 — 15 0 — 16 Borehold Record		S. Bricks Prepared by Checked			Fenco Mac	

Project_		Kenora WMMP No.: 015926	Во	orehole	No. BI	H-6/15		
		96/2/5 - 96/2/5 Dritter: Paddock Drilling	_ P	ezomet	MW-6/1	4		_(
		See Figure S2-3-1						-
		sed by: S. Bricks	-		Sheet 1 o	f 1		
Drilling	Method _	Hollow Stem Augers to 4.6 m;	- 00	Split	Spoon Sample R)	(Rock	Coro	
_		HQ Coring to 14.8 m	- WA			Grab		
Piezomete			AU		Sample	Piezom		
Type of S		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	_ CN	Cont i	nuous Sample y Tube Sample	Water m (wit	Level h date	Elev.
Scale	Elev. (m GSD)	Geological Log				l au	La	,
ft.) (m)	Depth (m)	Description		Strat.	Monitor Details	Sample No.	Sample	Vapour Conc.
	(III)	Ground Surface Elevation: 349.96 m		0,		10,	0,	_
10 — 3 — 2 — 3 — 4 15 — 5 — 5 — 7 20 — 6 — 7 25 — 8 — 10 — 35 — 11 — 12 — 13 45 — 14 — 15	345.4 4.6	SILTY SAND TILL - some gravel to gravelly - some cobbles with depth - grey - wet		HSP TRITE TE TE TE TE TE TE TE TE TE TE TE TE T	Holeplug and Cave		O RX O RX O RX O RX	
50 —		End of Borehole @ 14.8 m						(
Borehole		S. Bricks H. Jack				P	No.	
Record		S. Bricks H. Jack Prepared by Checked				renco	97/2/	

Project_		Kenora WMMP	015926 B	orehol	e No. BF	I-7/4		
		06/1/26 - 96/1/26	Prilling P	iezome	ters <u>MW-7/4</u>			-
		sed by: S. Bricks			Shoot 1 of			-
		Solid Stem Augers to 4.4 m	7.1		Sheet 1 of	-1		_
Piezomete Type of F	er Detail Pipe		AU CN	Wash Auge	r Sample	Grab Piezom	Samp meter	le Screen
	Elev. (m GSD)	Geological Log				Lav	110	T.
Scale (ft.) (m)	Depth (m)	Description		Strat.	Monitor Details	Sample No.	Sample	Vapour Conc.
		Ground Surface Elevation: 349.47 m				0,	100	
+	349.0	PEAT/ORGANICS		227		1	GRA	В
-i	0.5	CLAYEY SILT		HH			÷	
5—	347.8				Holeplug	2	₹ SS	20
-2	1.7	- wet SILTY SAND and GRAVEL (TILL-LIKE)			Попорлад	12.5		
		- grey-brown - loose to compact				3	SS	20
10 3		- wet			Cave	4	SS	17
-4					Geosock on Screen	5	SS SS	13/23cm
20 — 6 — 7 25 — 8 — 8 — 9 — 10 35 — 11 — 12 40 — 12 — 13 45 — 14 — 15	4.4	End of Borehole @ 4.4 m						
Borehole Record	e	S. Bricks Prepared by	H. Jackson Checked by			Fenc	o Mac	

Date Drilled	S. Bricks em Augers to 13.8 m; 21.6 m a. 40 Threaded PVC	WA Wash Sar AU Auger Sa CN Continuo SH Shelby 1	Sheet 1 o	f 2	Samp	le Screen
Drilling Supervised by: Drilling Method Solid St HQ Coring to Piezometer Details Type of Pipe 51 mm Dia. Sch. 40 Elev.	S. Bricks em Augers to 13.8 m; 21.6 m a. 40 Threaded PVC Threaded PVC, #10 Slot	WA Wash Sar AU Auger Sa CN Continuo SH Shelby 1	poon Sample RX mple GR ample bus Sample	Rock Grab	Samp	le Screen
Prilling Method Solid St HQ Coring to Piezometer Details Type of Pipe 51 mm Dia. Sch. 40 Elev.	em Augers to 13.8 m; 21.6 m a. 40 Threaded PVC Threaded PVC, #10 Slot	WA Wash Sar AU Auger Sa CN Continuo SH Shelby 1	poon Sample RX mple GR ample bus Sample	Rock Grab	Samp	le Screen
HQ Coring to Piezometer Details Type of Pipe 51 mm Dia. Sch. 40 Elev.	21.6 m 1. 40 Threaded PVC Threaded PVC, #10 Slot	WA Wash Sar AU Auger Sa CN Continuo SH Shelby 1	mple GR ample bus Sample	Grab Piezome	Samp	le Screen
Type of Screen51 mm Dia. Sch. 40	a. 40 Threaded PVC Threaded PVC, #10 Slot	WA Wash Sar AU Auger Sa CN Continuo SH Shelby 1	mple GR ample bus Sample	Grab Piezome	Samp	le Screen
Type of Pipe51 mm Dia. Sch. 40	1. 40 Threaded PVC Threaded PVC, #10 Slot	AU Auger Sa CN Continuo SH Shelby 1	ample bus Sample	Piezome	ter :	Screen
Type of Screen51 mm Dia. Sch. 40	Threaded PVC, #10 Slot	SH Shelby 1	ous Sample Tube Sample	Water L	evel	Elev.
Elev.	Geological Log				date	e)
Scale (m GSD)		##		01	01	
(ft.) (m) (m)	Description	Strat.	nitor Details	Sample No.	Sample	Vapour Conc.
Ground Surface Ele	vation: 358.96 m					
SAND to SILTY SAND - some gravel to gravell - brown, becoming grey - compact to very comp - damp to moist, wet be - with numerous thin (10 3 20 6 7 25 30 9 - 10 35 - 11 - 10	y below 1.2 m act	anders of the second se	Holeplug	1	SS 6 SS 5 SS 1 SS 5 SS 7 SS 1	78 54 70 90/23cm 80/15cm 80 57 10/25cm 75 60/15cm 00/15cm 00/15cm 00/15cm
- soils too loose to continuity m; continued with HQ co	gravel lens at approximately 13.7 m ue with solid stem augers below 13.8 ring	an a a manana a a manana a manana a manana a manana a manana a manana a manana a manana a manana a manana a ma I manana manana manana manana manana a manana a manana a manana a manana a manana a manana a manana a manana a	Cave	15 X	SS1	10/23cm
Borehole S. Bricks	H. Jackson			Fenco	MacI	aren
Record Prepared by	Checked by			-	97/2/	

Project_		Kenora WMMP	_ No.:015926	Borehol		I-8/22
				Continu	ation Sheet Sheet 2 o	f 2
Scale	Elev. (m GSD) Depth	Geological I		Strat.	Monitor Details	Sample No. Plot Sample Type
(ft.) (m)	(m)	Description	on	÷ 0		S S S
55 — 17 — 18 60 — 19 65 — 20 — 21 70 — 23 — 22 75 — 23 — 24 80 — 25 — 25 — 27 90 — 28 — 29 — 30 00 — 31 — 34 — 34	337.3 _ 21.6	End of Borehole @ 21.6 m			Cave	
Borehole F	Record					Fenco MacLaren

Date Dri	lled9	Kenora WMMP No.: 015926 6/2/15 - 96/2/15 Dritter: Paddock Drilling See Figure S2-3-1	Borehole No. Piezometers MW-9	BH-9/6
		sed by: S. Bricks	Sheet 1	of 1
Drilling	Method _	Hollow Stem Augers to 1.5 m;	- 1777	EN E TAR
		HQ Coring to 5.8 m	SS Split Spoon Sample WA Wash Sample	RX Rock Core GR Grab Sample
De 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	er Detail Pipe	s 51 mm Dia, Sch. 40 Threaded PVC	AU Auger Sample	Piezometer Screen
		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN Continuous Sample SH Shelby Tube Sample	Water Level Elev. m (with date)
Scale	Elev. (m GSD)	Geological Log	Monitor Details	Sample No. Plot Sample Type Vapour Conc.
(ft.) (m)	Depth (m)	Description	Monitor Details	Sample No. Plot Sample Type Vapour. Conc.
		Ground Surface Elevation: 352.98 m		
5-1	351.5 1.5	Primarily SILT TILL, with numerous interbeds of silt and sand - grey - dry BEDROCK - granodiorite	Holeplug	1 SS 18/15cn 2 SS 70/23cn 1 RX
10 3		- RQD = 94% - subvertical fracturing noted	Silica Sand	2 RX 3 RX 4 RX 5 RX 6 RX
206	347.2 5.8	End of Borehole @ 5.8 m		7 I RX
25 — 8				
30 9 10				
35 ————————————————————————————————————				
40				
45 — 14 — 15 50 — 15				
-16	=			
Borehole Record	2	S. Bricks H. Jacks Prepared by Checked b		Fenco MacLaren 97/2/19

Project_		Kenora WMMP No.: 0159)26 B	orehole No. Bl	H-10/17
		6/2/16 - 96/2/16 priller: Paddock Drilli		iezometers MW-10	/17
Borehole	Location	See Figure S2-3-1			
Drilling	Supervis	sed by: S. Bricks		Sheet 1	of 2
Drilling	Method _	Hollow Stem Augers to 5.2 m;		19 SR USB 4	X 45 (36) T
		HQ Coring to 16.6 m	SS WA	Split Spoon Sample F Wash Sample	RX Rock Core GR Grab Sample
Piezomete			1	Auger Sample	Piezometer Screen
		51 mm Dia. Sch. 40 Threaded PVC	CN	Continuous Sample	Unkan Land etan
Type of S		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	SH		m (with date)
Scale	(m GSD)	Geological Log		# → Monitor Details	ple ple our
(ft.) (m)	Depth (m)	Description		Monitor Details	Sample No. Plot Sample Type Vapour Conc.
		Ground Surface Elevation: 361.83 m		1141274	
10 — 3 — 4 15 — — — — — — —		- some gravel to gravelly, some cobbles and boulders - brown to grey - compact to dense - damp to moist - auger refusal at 5.2 m; continued with HQ coring		Holeplug and Cave	1 N SS 47 2 N SS 42 3 N SS 85 4 N SS 80/23cm 5 N SS 90/23cm 6 N SS 80/15cm 1 N RX 2 N RX 4 N RX
16					
Borehole Record			Jackson		Fenco MacLaren
record		Prepared by Ch	ecked by		97/2/19

Project_		Kenora WMMP	No.: 015926	Borehole No	ВН	-10/17	
				Continuatio	n Sheet		(
					Sheet 2 o	f 2	
	Elev. (m GSD)	Geological L	og	+++	Carlo T. Carlo	a L	a a L
Scale	Depth	Descriptio		Strat.	onitor Details	Sample No. Plot	Sample Type Vapour
ft.) (m)	(m)	Descriptio	п	Ø	T	S	0 >
-	345.2						
55 — 17	16.6	End of Borehole @ 16.6 m					
+				1 1			
18							
-							
				1.1			
5———20							
+							
-21							
-							
22	1						
5——23							
1 1							
-24							1
-							1
25							
-26							
1 20				1 1			
-					1.		
-28							
7				1.1			
-29							
7 1							
31							
+							
-32							
± 33							
+	- 4						
							(
D 1 1 =						Fenco M	lacT ass=
Borehole F	lecord					renco M	acLaren
					1	97/	2/19

Submitted to:

City of Kenora

IN-SITU SHEAR STRENGTH TESTING

JONES ROAD LANDFILL SITE KENORA, ONTARIO



JULY 2020

FILE NO.: 20-415-01



"Engineering and Testing Solutions That Work for You"

420 Turenne Street Winnipeg, Manitoba Canada R2J 3W8



Phone: (204) 233-1694 Facsimile: (204) 235-1579 e-mail: engtech@mymts.net www.eng-tech.ca

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FIGURES

Figure 1 – Site Location Plan Figure 2 – Test Hole Locations

APPENDICES

Appendix A – Photographs (4) Appendix B – Test Hole Logs (2)

reports.

ENG-TECH Consulting Limited (ENG-TECH) completed the in-situ shear strength testing of the soils at the Jones Road Landfill Site. The purpose of the testing was to determine the in-situ shear strengths of the soil in order to verify that values obtained were as recommended in previous

The Jones Road landfill Site is located on the north side of Highway 671 (i.e., Jones Road) approximately 22 km northwest of the City of Kenora. The Site is located within part of Lots 1 and

2 of Concession I, and part of Lots 1 and 2 of Concession II, in the Townships of Pettypiece and Jackman, of the District of Kenora.

1.1 Scope of Work

ENG-TECH completed the following scope of work:

Reviewed existing information related to the project.

- Drilled two (2) test holes at locations selected by the City of Kenora and completed vane shear strength tests at select depths.
- Collected soil samples at selected depths and compared these samples with existing information.
- Completed a laboratory testing program on select soil samples consisting of moisture contents, Atterberg limits and particle size analysis.
- Prepared a report on the summarizing the results of the field program and providing conclusions and recommendations.

1.2 Background Information

ENG-TECH has conducted several investigations at the Site. The following were previously completed:

Previous Reports

Date of Report	Name
2014-AUG-08	In-Situ Shear Strength Testing and Piezometer Installation, City of Kenora ENG-TECH File No. 14-415-01
2009-AUG-19	In-Situ Shear Strength Testing, City of Kenora ENG-TECH File No. 09-415-01
2001-JAN	Geotechnical Investigation, Wardrop Engineering Inc. ENG-TECH File No. 00-071-03

2.0 FIELD PROGRAM AND LABORATORY TESTING

ENG-TECH supervised the drilling of two (2) test holes at the Site on June 12, 2020. The drilling was conducted by Maple Leaf Drilling Ltd. using an Acker MP5 track-mounted drill rig using 125-mm solid stem augers. The test holes (TH1 and TH2) were drilled to depths of 12.2 and 10.7 metres below grade (mbg), respectively. Both of the test holes were backfilled with auger cuttings and bentonite.

In-Situ Shear Strength Testing – Jones Road Landfill Site, Kenora, Ontario

The soil stratigraphy was visually classified at the time of drilling using the modified Unified Soil Classification System (USCS). Soil samples were collected off the auger flights at regular depths during drilling. All soil samples collected were retained for testing in ENG-TECH's Winnipeg laboratory.

Page 2

Moisture contents were determined on all collected soil samples (6), with two (2) Atterberg limits and one (1) hydrometer test completed on select samples. Five (5) shear vane tests were conducted at various depths in the clay and peat. The analytical results are presented on the test hole summary logs in Appendix B. Photographs taken during the field program are presented in Appendix A.

3.0 DISCUSSION

3.1 Stratigraphy

The stratigraphy at the site consisted of waste fill, sand fill, peat, clay and clay till to the depths explored. The following table summarizes the stratigraphy based on the two test holes from the current investigation:

Stratigraphy

Depth Range (m)	Description			
0.0 – 0.3	Sand Fill, medium brown, moist, medium dense			
0.4 – 3.4 Waste Fill, dark grey/black, saturated, loose, some sand, wood pieces, nuisance				
3.4 – 5.5	Sand/Wood Fill, saturated, loose, trace silt/clay			
5.5 – 7.2	Peat (Category 5), dark brown, moist, predominantly amorphous granular, containing non-woody fine fibres, held in a woody, fine-fibrous framework			
7.2 – 9.8	Clay, light grey, moist, very soft, highly plastic, with silt, trace sand			
9.8 – 12.2	Clay Till, medium grey, wet, dense, low plastic, with sand, with silt, trace gravel			

The depths to the various stratigraphic layers were shallower to the north (TH2) when compared to the south (TH1). Seepage was observed from the waste fill layer; groundwater levels were at depths ranging from 0.9 to 1.8 mbg immediately after the completion of drilling.

The stratigraphic details are presented on the test hole summary logs in Appendix B.

In-Situ Shear Strength Testing 3.2

The in-situ undrained shear strength was measured in the field by conducting vane shear tests with a trapezoidal vane with dimensions of 63.5 mm x 114.3 mm (2½" x 4½"). Results of the in-situ vane shear tests on the clay soil ranged from 22 to 50 ft-lb (29.8 to 67.8 N-m) for initial shear strength and 10 to 20 ft-lb (13.6 to 27.1 N-m) for rebound shear strength.

The plasticity index of the silty clay ranged from 34% to 60%. Using the higher of the two values (i.e., 60%), the shear strength values were corrected using Bjerrum's corresponding correction factor (μ) of 0.75. The resulting corrected values for undrained shear strength $[(S_{\mu})_{tv}]$ ranged from 24 to 56 kPa and 11 to 22 kPa for rebound shear strength [(S_{ur})_{fv}].

CONCULSIONS AND RECOMMENDATIONS

The in-situ shear strength values are greater than the minimum recommended value of 5.5 kPa by R. Kerry Rowe Inc. in their report Kenora Landfill, dated February 21, 1997. Based on the soil stratigraphy and shear strength values obtained on site, ENG-TECH concluded that the results comply with the values as stated in our previous reports. Therefore, ENG-TECH supports the loading as recommended by R. Kerry Rowe Inc. in Stage 14 of the Jones Road Landfill Development Plan.

5.0 THIRD PARTY USE AND STATEMENT OF LIMITATIONS

This report has been prepared for the City of Kenora and any use a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third party. ENG-TECH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions undertaken based on this report.

The findings and recommendations presented in this report were based on the scope of work outlined for the purpose of the geotechnical investigation and were prepared in accordance with generally accepted principles and practices. The findings and recommendations are based on the results of field and laboratory investigations, combined with the soil and groundwater conditions encountered. Other materials or compounds not investigated or addressed or beyond the scope of work could be present at the Site. If conditions encountered during construction appear to be different from that reported by ENG-TECH or if the assumptions stated herein are not in keeping with the design, this office should be notified in order that the recommendations can be reviewed and modified if necessary.

6.0 CLOSURE

This report was based on the scope of work outlined for the purpose of the investigation, and was prepared in accordance with acceptable professional engineering principles and practices. If you have any questions, please contact the undersigned.

Sincerely,

ENG-TECH Consulting Limited

Walter Holowka, C.E.T., NCSO Senior Geoenvironmental Technologist

CDH/wgh

Professional Engineers Ontario Certificate of Authorization ENG-TECH Consulting Limited No. 100036802

Clark Hryhoruk, M.Sc., P. Eng.

Principal

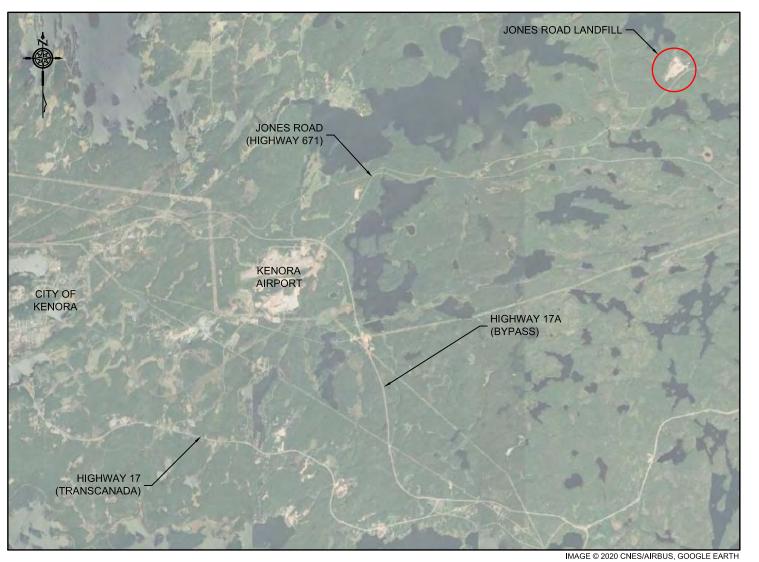


FIGURES

Figure 1: Site Location Plan Figure 2: Test Hole Locations







NO. DATE ISSUE / REVISION

O JUL 2020 REPORT

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Phone: (204) 233-1694
Fax: (204) 235-1579

ENG. STAMP:

Professional Engineers
Ontario

Certificate of Authorization
ENG-TECH Consulting Limited
No. 10036802

CLIENT:

CITY OF KENORA

PRO IEC

INSITU SHEAR STRENGTH TESTING JONES ROAD LANDFILL NORTHEAST OF KENORA, ONTARIO

DWG DESCRIPTION:

SITE LOCATION PLAN

1:100,000

DRAWN BY: DATE:
WGH JULY 2020

FILE No.: CLIENT DWG/FIG. No.: 20-415-01

ENG-TECH DWG/FIG. No.:

1

NO.:
0

GPS COORDINATES OF TEST HOLES									
TEST	COORDINATE D	ATUM: WSG84							
HOLE	UTM	15U							
TH1	5521292	412688							
TH2	5521365	412628							

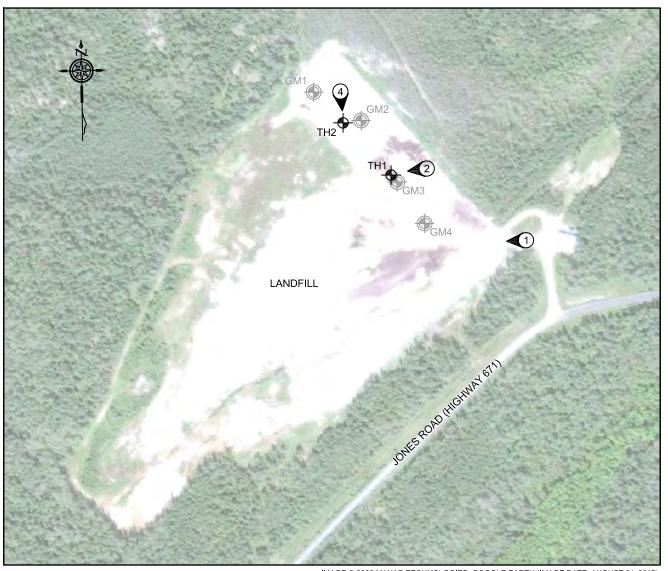


IMAGE © 2020 MAXAR TECHNOLOGIES, GOOGLE EARTH (IMAGE DATE: AUGUST 31, 2015)



LEGEND

TH1

TEST HOLE



GROUNDWATER
MONITORING WELL
(PREVIOUSLY INSTALLED)



PHOTOGRAPH DIRECTION AND NUMBER

NO. DATE | ISSUE / REVISION

O JUL 2020

ENG-TECH
CONSULTING LIMITED

REPORT

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NG. STAMP:



Certificate of Authorization ENG-TECH Consulting Limited No. 10036802

CLIENT

CITY OF KENORA

PRO IECT

INSITU SHEAR STRENGTH TESTING JONES ROAD LANDFILL NORTHEAST OF KENORA, ONTARIO

DWG DESCRIPTION:

TEST HOLE LOCATIONS

SCAL

1:5,000

DRAWN BY: DA

FILE No.: CLIENT DWG/FIG. No.:

20-415-01

ENG-TECH DWG/FIG. No.: 0

JULY 2020

P:\2020\415(City of Kenora)\01(Kenora Landfill - Jones Rd)\Report\Figures\20-415-01 Figure 2 Site Plan.dwg

APPENDICES

Appendix A – Site Photographs Appendix B – Test Hole Logs

APPENDIX A

Site Photographs (4)



PHOTOGRAPH #1: View of the Site as seen facing west.



PHOTOGRAPH #2: View of TH1 during drilling with GM-3 on the left side of the photograph.



PHOTOGRAPH #3: Waste materials on the auger during the drilling on TH1.





PHOTOGRAPH #4: View of TH2 during drilling as seen facing south.



APPENDIX B

Test Hole Logs (2)



Engineering And Testing Solutions That Work For You Test Hole #: TH1

Client: City of Kenora

Site: See Figure 1

File No.: 20-415-01

Date Drilled: June 12, 2020

Grade Elevation: 100.0 m

Location: James Road Landfill, Kenora, ON Water Elevation: -

Project: Insitu Shear Strength Testing

SUBSURFACE PROFILE					S	AMPI	LE DAT	ΓΑ		SHEAR	R STRENGT	TH (kPa)
Depth (m)	Well Data	Soil Symbol	Description	Elevation (m)	Sample No.	Sample Type	Moisture Content (%)	Blows/300 mm	Moisture Content (%) PL I I LL 50 150 250 350 450	P. Pen	(Su)Fv / (Sur)Fv	Torvane
0.0_			Ground Surface	100.0								-
0.0 1.0 2.0 3.0 4.0 5.0			Sand Fill (SP) - medium brown, moist, medium dense, poorly graded (fine), some gravel, trace silt. Waste Fill - dark grey/black, saturated, loose, some sand, wood pieces, nuisance odour. Sand and Wood Fill - dark grey, saturated, loose, trace silt, trace clay. Peat (Category 5) - dark brown, moist, predominantly	99.0 98.0 97.0 96.0 95.0 94.0	S1	1						
3.0			amorphous granular, containing non-woody fine fibres, held in a woody, fine-fibrous framework. Clay (CH) - light grey, moist, very soft, high	93.0	S2		326.6 95.6	3				15
_			plastic, with silt, trace sand.								24/22	,,,
1.0				90.0	S4	\$	66.6				56/22	15
2.0			Clay Till (CL) - grey, wet, dense, low plastic, with sand, with silt, trace gravel.	88.0								
.0			- test hole completed at 12.2 m below grade seepage and sloughing observed from waste fill layer water at 1.5 m, slough at 3.7 m	87.0 86.0 85.0								
.0-			immediately after drilling test hole backfilled with auger cuttings and bentonite upon completion of drilling.	84.0								
3.0				82.0								

{\rtf1\ansi\deff0\deftab254{\fonttbl

Logged by: WGH

Reviewed by:

Drilled By: Maple Leaf Drilling Ltd.

Drill Rig: Acker MP5

Auger Size: 125 mm

Completion Depth: 12.2 m Completion Elevation: 87.8 m

Sheet: 1 of 1



Engineering And Testing Solutions That Work For You Test Hole #: TH2

Client: City of Kenora

Site: See Figure 1

File No.: 20-415-01

Date Drilled: June 12, 2020

Grade Elevation: 100.0 m

Location: James Road Landfill, Kenora, ON Water Elevation: -

Project: Insitu Shear Strength Testing

SUBSURFACE PROFILE					SAMPLE DATA					SHEAF	STRENGT	'H (kPa)
Depth (m)	Well Data	Soil Symbol	Description	Elevation (m)	Sample No.	Sample Type	Moisture Content (%)	Blows/300 mm	Moisture Content (%) PL IXI LL 50 150 250 350 450	P. Pen	(Su)Fv / (Sur)Fv	Torvane
0.0-			Ground Surface	100.0								
1.0 1.0		A SA SA SA SA SA SA SA SA SA SA SA SA SA	Sand Fill (SP) - medium brown, moist, medium dense, poorly graded (fine), some gravel, trace silt. Waste Fill - dark grey/black, saturated, loose, some sand, wood pieces, nuisance odour. Sand and Wood Fill - dark grey, saturated, loose, trace silt, trace clay. Peat (Category 5) - dark brown, moist, predominantly amorphous granular, containing non-woody fine fibres, held in a woody, fine-fibrous framework. Clay (CH) - light grey, moist, very soft, high plastic, with silt, trace sand. Clay Till (CL) - grey, wet, dense, low plastic, with sand, with silt, trace gravel. End of Test Hole - test hole completed at 10.7 m below grade. - seepage and sloughing observed from waste fill layer. - water at 0.9 m, slough at 1.2 m immediately after drilling. - test hole backfilled with auger cuttings and bentonite upon completion of drilling.	99.0 98.0 97.0 96.0 95.0 94.0 93.0 91.0 89.0 88.0 87.0 86.0 85.0 84.0 83.0 82.0	\$1 \$2	\$	350.9 56.2				28/11	20

{\rtf1\ansi\deff0\deftab254{\fonttbl

Logged by: WGH

Reviewed by: \$37

Drilled By: Maple Leaf Drilling Ltd.

Drill Rig: Acker MP5

Auger Size: 125 mm

Completion Depth: 12.2 m Completion Elevation: 87.8 m

Sheet: 1 of 1



420 Turenne Street, Winnipeg, Manitoba R2J 3W8
Phone: (204) 233-1694 Fax: (204) 235-1579
E-mail: engtech@mymts.net
www.eng-tech.ca

June 15, 2021,

File No. 20-415-01

City of Kenora 60 14th Street Kenora, Ontario P9N 4A9

Attention:

Mukesh Pokharel, P.Eng.

RE:

Jones Road Landfill, Kenora Ontario

ENG-TECH Consulting Limited (ENG-TECH) is following up on your request to review the piezometric data and interpret if the landfill loading is complying with the insitu shear strengths that was determined in the ENG-TECH July 2020 report.

Attached are two drawings that summarize the eight (8) piezometer readings for the monitoring program. It is understood that the final stage of loading of the landfill (stage 14) is underway.

Based on the fact that groundwater levels have not significantly changed for all of the piezometers over the history of loading of the landfill it can be concluded that pore water pressure has remained stable. As such, the insitu shear strength values that were measured are unchanged. ENG-TECH's recommendation is still valid that the in-situ shear strength values are greater than the minimum recommended value of 5.5 kPa by R. Kerry Rowe Inc. in their report *Kenora Landfill*, dated February 21, 1997.

If you have any questions or require additional information, please contact the undersigned.

Sincerely,

ENG-TECH Consulting Limited

Clark Hryhoruk, M.Sc., P. Eng. President, Geotechnical Engineer

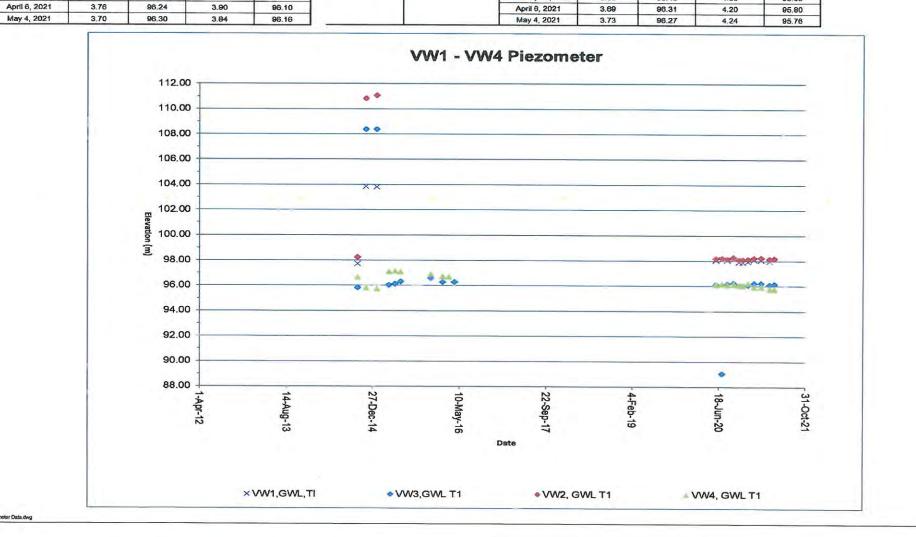
CDH/cdh

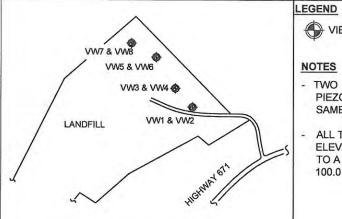
Attachments:

Figure 1 of 2 Piezometer Data (VW1 to VW4) Figure 2 of 2 Piezometer Data (VW5 to VW8)

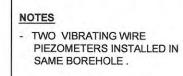


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ID	Installation Elevation (m)	Date (mm/dd/yyyy) & Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwater Elevation (m)	ID	Installation Elevation (m)	Date (mm/dd/yyyy) & Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwate Elevation (m	
		October 1, 2014	2.17	97.83	2.27	97.73			October 1, 2014	1.67	98.33	1.77	98.23	
		November 18, 2014	-3.98	103.98	-3.84	103.84	VW2		November 18, 2014	-10.99	110.98	-10.84	110.84	
		January 20, 2015	-3.96	103.96	-3.82	103.82			January 20, 2015	-11.22	111.22	-11.08	111.08	
		June 2, 2020	1.86	98.14	1.95	98.05			June 2, 2020	1.70	98.30	1.82	98.18	
		June 3, 2020	1.86	98.14	1.95	98.05			June 3, 2020	1.70	98.30	1.81	98.19	
	4	July 7, 2020	1.76	98.24	1.85	98.15		4	July 7, 2020	1.67	98.33	1.78	98.22	
		August 5, 2020	1.85	98.15	1.94	98.06			August 5, 2020	1.74	98.26	1.84	98.16	
VW1	95.5	September 11, 2020	1.75	98.25	1.84	98.16		97.3	September 11, 2020	1.62	99.38	1.73	98.27	
		October 13, 2020	1.99	98.01	2.08	97.92			October 13, 2020	1.79	98.21	1.90	98.10	
		November 3, 2020	2.03	97.97	2.12	97.88			October 13, 2020	1.81	98.19 98.19	1.91	98.09	
	3	December 3, 2020	1.98	98.02	2.07	97.93			November 3, 2020	1.76	98.19	1.91	98.09	
		January 8, 2021	1.82	96.18	1.91	98.09			December 3, 2020	1.67	98.33	1.78	98.13	
		February 18, 2021	1.85	98.15	1.94	98.06			January 8, 2021 February 18, 2021	1.64	98.36	1.75	98.25	
		April 6, 2021	1.94	98.08	2.03	97.97			April 6, 2021	1.72	98.28	1,84	98.16	
		May 4,2021	1.85	98.15	1.94	98.08			May 4, 2021	1.71	98.29	1.82	98.18	
				11000000	a a to still a						00.20	1.02	00.10	
	Installation Elevation (m)	ation Date (mm/dd/yyyy) & Time	Using AB	Using ABC Factors		Factors		Installation Elevation	Date (mm/dd/yyyy)				sing Ti Factors	
ID			Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwater Elevation (m)		(m)	& Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwate Elevation (n	
		October 1, 2014	4.01	95.99	4.16	95.84	VW4		October 1, 2014	2.84	97.16	3.33	96.67	
	92.5	November 18, 2014	-8.57	108.57	-8.39	108.39			November 18, 2014	3,61	96.39	4.17	95.83	
		January 20, 2015	-8.57	109.57	-8.39	108.39			January 20, 2015	3.70	96.30	4.28	95.74	
		March 31, 2015	3.82	96.18	3.97	96.03			March 31, 2015	2.35	97.65	2.87	97.13	
		May 6, 2015	3.73	96.27	3.88	96.12		4.5	May 6, 2015	2.30	97.70	2.83	97.17	
		June 6, 2015	3.55	96.45	3.69	96.31			June 6, 2015	2.35	97.65	2.90	-	
		November 27, 2015	3.26	96.74	3.41	96.59			November 27, 2015	_	-		97.10	
		February 3, 2016	3.57	96.43	3.72	96.28		1		2.54	97.46	3.09	96.91	
		April 10, 2016	3.56	96.44	3.72	96.28		95.5	February 3, 2016	2.75	97.25	3.27	96.73	
					721100				March 10, 2016	2.79	97.21	3.29	96.71	
VW3		June 2, 2020	3.73	98.27	3.88	96.12			June 2, 2020	3.35	96.65	3.85	96.15	
****		June 3, 2020	3.73	96.27	3.87	96.13			June 3, 2020	3.35	96.65	3.87	96.13	
		July 7, 2020	10.79	89.21	10.93	89.07			July 7, 2020	3.27	96.73	3.80	96.20	
		August 5, 2020	3.68	96.32	3.82	96.18			August 5, 2020	3.34	98.66	3.86	96.14	
		September 11, 2020	3.59	96.41	3.74	96.26			September 11, 2020	3.32	96.68	3.83	96.17	
		1 O-1-1 40 0000	3.79	96.21	3.93	96.07			October 13, 2020	3.39	96.61	3.89	96.11	
		October 13, 2020											The second secon	
		November 3, 2020	3.83	96.17	3.97	96.03			November 3, 2020	3.45	98.55	3.94	96.06	
			3.83 3.78	96.17 96.22	3.97 3.93	96.03 96.07		C1	November 3, 2020 December 3, 2020	3.45 3.22	98.55 98.78		96.06 96.27	
		November 3, 2020						5.				3.94 3.73 4.05	96.06 96.27 95.96	



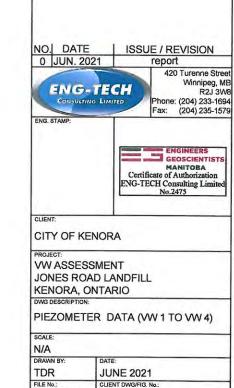


SITE PLAN



ALL TEST HOLE GRADE ELEVATION ARE REFERENCED TO A LOCAL ELEVATION OF 100.0 m.

VIBRATING WIRE PIEZOMETER



20-415-01 ENG-TECH DWG/FIG. N 1 OF 2

P:\2020\415(City of Kenora)\01(Kenora Landfill - Jones Rd)\VW Assessment\0rawing 1- VW Plezometer Data.dw

	March Street Control	Live and Live and		C Factors	Using TI Factors		
(ID	Installation Elevation (m)	Date (mm/dd/yyyy) & Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwater Elevation (m)	
		October 1, 2014	2.60	97.40	2.85	97.15	
		January 20, 2015	14.31	85.69	14.51	85.49	
		March 31, 2015	2.45	97.55	2.69	97.31	
		May 6, 2015	2.48	97.52	2.72	97.28	
		June 6, 2015	2.33	97.67	2.57	97.43	
		November 27, 2015	1.90	98.10	2.14	97.86	
		February 3, 2016	2.11	97.89	2.35	97.65	
		March 10, 2016	2.09	97.91	2.33	97.67	
		June 2, 2020	2.40	97.60	2.64	97.36	
		June 3, 2020	2.41	97.59	2.61	97.39	
VVV5	91.0	June 2, 2020	2.40	97.60	2.60	97.40	
		July 7, 2020	2.32	97.68	2.52	97.48	
		August 5, 2020	2.38	97.62	2.58	97.42	
		September 11, 2020	2.27	97.73	2,48	97.52	
		October 13, 2020	2.47	97.53	2.68	97.32	
		November 3, 2020	2.52	97.48	2.72	97.28	
		December 3, 2020	2.45	97.55	2.65	97.35	
		January 8, 2021	2.28	97.72	2.48	97.52	
		February 18, 2021	2.32	97.68	2.53	97.47	
		April 6, 2021	2.45	97.55	2.65	97.35	
		May 4, 2021	2.40	97.60	2.60	97.40	

October 1, 2014

ovember 18, 2014

January 20, 2015

March 31, 2015

May 6, 2016

June 6, 2015

February 3, 2016

March 10, 2018

June 2, 2020

June 3, 2020

June 2, 2020

July 7, 2020

August 5, 2020

October 13, 2020

November 3, 2020

December 3, 2020

January 9, 2021

February 18, 2021

April 6, 2021

May 4, 2021

ovember 27, 2015

Using ABC Factors
Depth of
Water Below
Grade (m)
Groundwa
Elevation

96.18

90.64

96.23

96.19

96.22

97.27

96.97

97.03

96.42

96.37

96.42

96.36

96.36

96.21

96.19

96.25

96.36

96.41

96.34

3.82

9.36

3.77

3.81

3.79

2.73

3.03

2.97

3.58

3.63

3.58

3.64

3.64

3.79

3.81

3.76

3.56

3.64

3.59

(m)

9.49

3.95

3.98

3.95

2.91

3.15

3.76

3.90

3.75

3.81

3.81

3.73

3.98

3.92

3.73

3.81

3.76

3.84

96.00

90.51

90.56

96.02

96.05

97.09

96.85

96.24

96.20

96.25

96,19

96.19

96.27

96.04

96.02

96.08

96.27

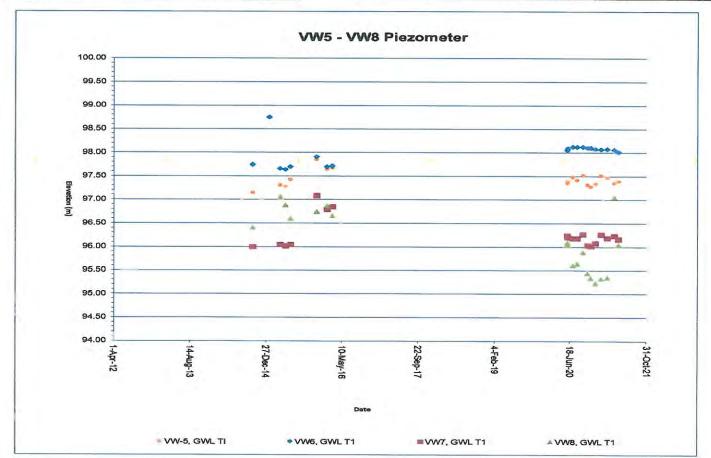
96.19

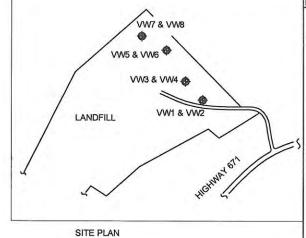
96.24

96.16

	The state of the s		Using AB	C Factors	Using Ti Factors		
ID	installation Elevation (m)	Date (mm/dd/yyyy) & Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwate Elevation (m	
		October 1, 2014	2.08	97.94	2.25	97.75	
		January 20, 2015	1.13	98.87	1.25	98.75	
		March 31, 2015	2.16	97.84	2.34	97.88	
		May 6, 2015	2.17	97.83	2.38	97.64	
		June 6, 2015	2.11	97.89	2.30	97.70	
		November 27, 2015	1.90	98.10	2.09	97.91	
		February 3, 2016	2.11	97.89	2.30	97.70	
		March 10, 2016	210	97.90	2.28	97.72	
		June 2, 2020	1,77	98.23	1.95	98.05	
VW6	93.1	June 3, 2020	1.77	98.23	1.91	98.09	
****	85.1	July 7, 2020	1.73	98.27	1.87	98.13	
		August 5, 2020	1.73	98.27	1.87	98.13	
		September 11, 2020	1.73	98.27	1,88	98.12	
		October 13, 2020	1.75	98.25	1.90	98.10	
		November 3, 2020	1.75	98.25	1.90	98.10	
		December 3, 2020	1.78	98.22	1.92	98.08	
		January 8, 2021	1.78	98.22	1.93	98.07	
		February 18, 2021	1,78	98.22	1.92	98.08	
		April 6, 2021	1.79	98.21	1.93	98.07	
		May 4, 2021	1.84	98.16	1.99	98.01	

					1100	00.01	
	The second	F	Using AB	C Factors	Using Ti Factors		
ID	Installation Elevation (m)	Date (mm/dd/yyyy) & Time	Depth of Water Below Grade (m)	Groundwater Elevation (m)	Depth of Water Below Grade (m)	Groundwate Elevation (m	
	-	October 1, 2014	3.39	96.61	3.59	96.41	
		November 18, 2014	16.05	83.95	18.18	83.82	
		January 20, 2015	15.82	84.18	15.97	84.03	
		March 31, 2015	2.75	97.25	2.94	97.08	
		May 6, 2015	2.92	97.08	3.11	96.89	
		June 6, 2015	3.19	98.81	3.40	98.60	
		November 27, 2015	3.04	96.96	3.25	98.75	
		February 3, 2018	2.97	97.03	3.13	96.97	
		March 10, 2016	3.17	96.83	3.34	96.66	
		June 2, 2020	3.74	96.26	3.90	96.10	
VWB	92.5	June 2, 2020	3.74	96.26	3.95	96.05	
		July 7, 2020	4.18	95.82	4.39	95.61	
		August 5, 2020	4.15	95.85	4.35	95.65	
		September 11, 2020	3.90	96.10	4.11	96.89	
		October 13, 2020	4.36	95.64	4.58	95.44	
	11 3	November 3, 2020	4.47	95.53	4.66	96.34	
		December 3, 2020	4.57	95.43	4.77	95.23	
		January 8, 2021	4.48	95.52	4.67	95.33	
	1	February 18, 2021	4.46	95.54	4.64	95.36	
		April 6, 2021	2.75	97.25	2.94	97.06	
		May 4, 2021	3.73	96.27	3.95	96.05	



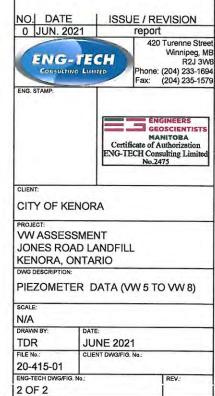


LEGEND

VIBRATING WIRE PIEZOMETER

NOTES

- TWO VIBRATING WIRE PIEZOMETERS INSTALLED IN SAME BOREHOLE .
- ALL TEST HOLE GRADE ELEVATION ARE REFERENCED TO A LOCAL ELEVATION OF 100.0 m.



VW7



APPENDIX N

Geotech Reports