Teck Coal Limited
Coal Mountain Operations
PO Box 3000
Sparwood, B.C. Canada V0B 2G0

+1 250 425 6305 Tel
www.teck.com

Annual Report Overview

Report: Coal Mountain Operations Permit 4750 Annual Report 2018 – March 31 2019

Overview: This report summarizes Teck Coal Limited Coal Mountain Operations (CMO) 2018 permitted effluent monitoring program and satisfies the annual reporting requirements for *Environmental Management Act* (*EMA*) Permit 4750 (last amended June 2015).

This report was prepared by Teck.

If you have questions regarding this report, please:

- Phone toll-free to 1.855.806.6854
- Email **feedbackteckcoal@teck.com**

Permit 4750 – Coal Mountain Operations Annual Report

March 29, 2019

Teck

Prepared by:

Jay Jones
Lead Environmental

Scott Holmgren, MASc, AAg
Technician Environmental

Kate Middleton
Senior Coordinator, Environment

Executive Summary

This report summarizes Teck Coal Limited – Coal Mountain Operations 2018 permitted effluent monitoring program and satisfies the annual reporting requirements for *Environmental Management Act* Permit 4750 (amended April 8, 2016 and July 25, 2016). Requirements for Permit 107517 (originally issued on November 19, 2014) will be detailed in a separate annual report.

In 2018, Teck Coal Limited (Teck) Coal Mountain Operations (CMO) continued its commitment to environmental stewardship, and further improved its systems in regards to surface water management through maintenance and upgrades to current drainage systems and research, development and monitoring on water quality improvement strategies.

In 2018, CMO had 7 incidents related to water and 6 hydrocarbon related spills and 1 non-compliance with Permit 4750.

Total suspended solids concentrations (TSS) were below the permit limit (50 mg/L) for all samples collected in 2018 across all discharge locations. In total, 132 TSS samples were collected with 100% being below the 50 mg/L discharge limit. Of the 132 samples collected at authorized discharge locations in 2018, 26% were below the TSS detection limit of 1 mg/L. Q_{10} flow rates were not exceeded at Permit 4750 discharge locations throughout 2018.

TSS and 5-day biochemical oxygen demand (BOD_5) concentrations for the Sewage Treatment Plant E206439 (CM_SEW) remained below permit limits in 2018. TSS concentrations for 50% of the samples were below the TSS detection limit of 1 mg/L. All samples collected were below the 2.0 mg/L BOD_5 detection limit in 2018. The flow remained well below the maximum authorized rate of discharge of 56.8 m^3/day in 2018. Flow rates for the Sewage Treatment Plant E206439 (CM_SEW) effluent ranged from 5.64 m^3/day on November 5 to 23.03 m^3/day on May 7. The reduction of flow rate in 2018 can be attributed to less personnel on site as CMO transitions towards Care and Maintenance activities.

Concentrations of Extractable Petroleum Hydrocarbons (EPH) remained below the detection limits (0.50 mg/L) for all samples collected during 2018 at the Main Interceptor Sedimentation Ponds E102488 (CM_SPD), and Corbin Sedimentation Pond E206438 (CM_CCPD). The Maintenance Infiltration Ponds E206437 (CM_WBE) were below EPH permit limits for all but 1 sample collected in 2018. In total, 10 of 11 samples (91%) remained below the permit limit of 15 mg/L. Daily flows at the Maintenance Infiltration Ponds E206437 (CM_WBE) remained below the maximum authorized rate of discharge (0.38 m3/min) and maximum daily discharge (120 m^3/day) throughout all of 2018.

TSS and turbidity values were most elevated during mid April through May coinciding with freshet and snowmelt, and again July and November which coincides with precipitation.

In 2018, Coal Mountain Operations dispensed 1546 L of cationic flocculant and 229.1 L of anionic flocculant. All anionic flocculant is dispensed with water as a 3% anionic floc solution whereas cationic flocculant is administered at 100% concentration or undiluted.

Water management improvements consisted of continued upgrades to the North Ditch Flocculant station, full sediment clean out of the Maintenance Infiltration Ponds E206437 (CM_WBE), and fish salvage work at both the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) and the Corbin Sedimentation Pond E206438 (CM_CCPD) such that the ponds and all associated upstream appurtenances can continue to be considered non-fish bearing. The permanent fish barrier added to the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) in 2017 continues to be effective. Additional water management improvements were made in

accordance with the Routine Water Infrastructure Maintenance Plan throughout the year on an as needed basis.

The Seven Pit Settling Ponds (SPSPs) were decommissioned in 2017. CMO implemented a number of erosion and sediment control measures in 2018 to reduce surface run-off from the area until vegetation is fully established. The area has been planted with trees, shrubs, and grasses as well as hydro-seeded in 2018.

Erosion and sediment control measures were implemented in the area of CMO's Quartzite Quarry in 2018. Road drainage improvements and the addition of spring berms were included to help reduce sediment transport associated with runoff due to precipitation. The Quarry has been scheduled as a priority area for 2019 Reclamation and the landform design for the area will meet the objectives of the Closure Plan. The interim water control work on the existing road infrastructure included cross ditching and re-sloping to more effectively direct water into ditches and into the quarry pit versus the outside perimeter end of the Quarry. A berm was added to protect the edge of the quarry floor where most of 2018 erosion took place. The work completed should significantly reduce the erosion of the pit floor especially through freshet.

Table 1: Exceedances of permit limits and BCWQG in site receiving waters in 2018

EMS ID	Site ID	Parameter	Permit Limits	Frequency of Exceedance
E102488	CM_SPD	TSS	50 mg/L	0
E206438	CM_CCPD	TSS	50 mg/L	0
E298733	CM_PC2	TSS	50 mg/L	0
E206437	CM_WBE	EPH	15 mg/L	1
		Flow	0.38 m^3/min max 120 m^3/day	0
E206439	CM_SEW	BOD	40 mg/L	0
		TSS	30 mg/L	0
		Flow	56.8 m^3/day	0
E306136	CM_MAX-SHOP	EPH	60 mg/L	0
E306166	CM_PR-SILO	EPH	60 mg/L	0

Table of Contents

List of Figures

List of Tables

1 Description of Mine Operation and Discharges

1.1 Introduction

Teck Coal Limited (Teck) – Coal Mountain Operations (CMO) operates a metallurgical coal mine and processing plant in the southeast corner of British Columbia (BC), approximately 25 kilometres southeast of the town of Sparwood (Figure 1). The CMO property is on 520 hectares (ha) of privately owned land, 260 ha of coal lease land and 2,275 ha of coal license land.

Mining activity at CMO began in 1908 with small, underground mines and continued intermittently as open pit operations with various owners. The existing CMO mining area consists of two private land parcels (numbered 6997 and 6999) and Coal Lease 13, which is held to the south of lot 6997. The surrounding area is held in Coal Licences.

In 2018, CMO produced 0.9 million (M) tonnes of clean coal and generated 0.12 million (M) tonnes of waste rock due to mining and a total of 0.83 million (M) tonnes of breaker and plant reject (plant refuse) was produced.

1.2 Overview of Operations

In 2018, CMO operated under Permit 4750 (amended April 8, 2016 and July 25, 2016) and Permit 107517 (originally issued on November 19, 2014), both issued by the BC Ministry of Environment and Climate Change Strategy (ENV). Annual reporting requirements under Permit 4750 will be addressed in this report, while Permit 107517 requirements will be summarized in a separate report submitted concurrently to the Director by March 31, 2019. Required Permit 4750 sampling was conducted at the locations listed in Table 2 and shown in Figure 1.

Previous operations of CMO consisted of operations in four pits. 14 Pit and 34 Pit, previously mined, have been fully (14 Pit) and partially (34 Pit) backfilled with waste rock and refuse. In 2018 mining occurred within 6 Pit and 37 Pit; favourable conditions created due to in-pit backfilling with plant refuse in 37 Pit presented an opportunity for more coal recovery in 2018. This lasted until the first quarter of 2019. No additional coal after this point is expected to be recovered in 2019. CMO has no additional planned mining activities and is nearing the end of coal processing activities. At the conclusion of coal processing activities, the site will formally declare Care and Maintenance (C&M) status for a period of 10 years. The shutdown will ensure the processing plant enters the C&M stage in a stable and dormant state. This plan may change if opportunities to process coal from other Teck operations are identified before or during the planned shutdown period.

The infrastructure and processing facilities at CMO represent a valuable asset to Teck and may contribute to existing and future mining operations within the Elk Valley. The C&M stage may be updated based on new information or conditions as they are encountered in future years. In general, the following timelines are associated with the different stages of care and maintenance to closure at CMO:

- Active Operations – Ongoing until Q2 2019;
- Care and Maintenance – 2019 to 2029;
- Active Closure – 2029 to 2037; and
- Post Closure – 2037 and beyond.

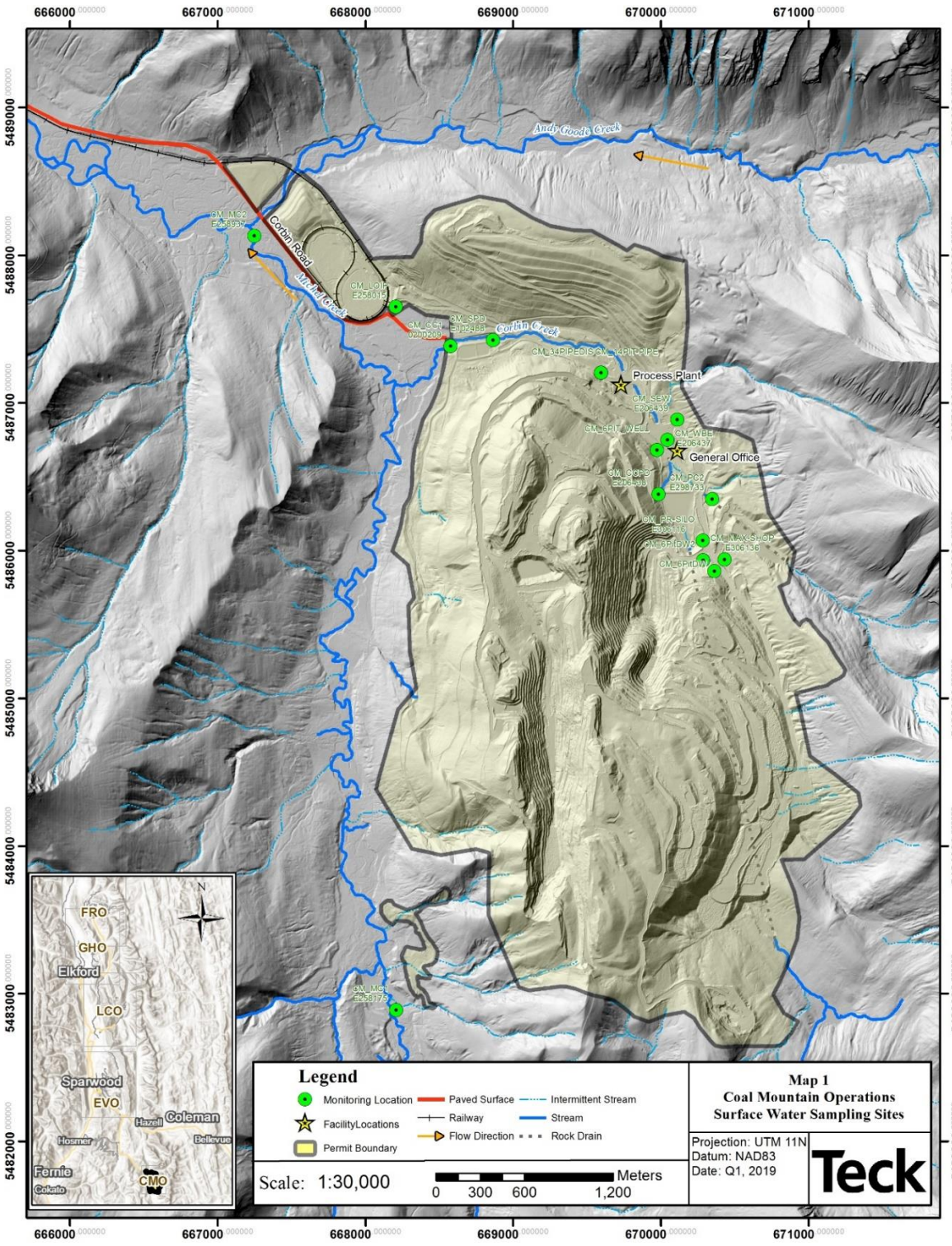

Figure 1: Coal Mountain Operations-surface water sampling sites

Table 2: Summary of permitted sampling sites.[1]

EMS ID	Site ID	UTM NAD 83 Zone 11		Type	Description
		Easting	Northing		
E102488	CM_SPD	668866.7	5487415.6	Discharge	Decant Discharge from Main Interceptor Sedimentation Ponds to Corbin Creek
E206438	CM_CCPD	670006.7	5486381.8	Discharge	Decant Discharge from Corbin Sedimentation Pond to Corbin Creek
E298733	CM_PC2	670330.5	5486350.0	Discharge	Pengelly Channel to Corbin Creek
E206437	CM_WBE	668520.4	5487363.6	Discharge	Maintenance Infiltration Ponds
E206439	CM_SEW	668520.4	5487363.6	Discharge	Sewage Treatment Plant
E258015	CM_LOIP	668210.5	5487654.4	Discharge	Loadout Infiltration Ponds
E306136	CM_MAX-SHOP	670403.9	5485937.7	Discharge	Emulsion Shop Sump
E306116	CM_PR-SILO	670249.5	5486057.6	Discharge	Ammonium Nitrate Prill Silo Sump
E258175	CM_MC1	668171.0	5482892.6	Receiving	Michel Creek upstream of Operations
E258937	CM_MC2	667185.8	5488210.7	Receiving	Michel Creek downstream of Operations near Andy Good Creek Junction
200209	CM_CC1	668520.4	5487363.6	Receiving	Corbin Creek near confluence with Michel Creek

1.3 Maintenance of Works

CMO submitted a document to ENV titled “Routine Water Infrastructure Maintenance Plan (RWIMP) –Ministry of Environment Notification” on April 30, 2018. This document provides notification to the ENV, as per Section 2.4, regarding CMO’s plans to maintain authorized works in good working order. This document is intended to replace the requirement for individual Process Modification Notifications for specific locations at CMO. This document will be reviewed on an annual basis and if significant changes are required CMO will notify ENV prior to implementing changes. All work identified in this document can be considered routine maintenance (i.e., that is typically conducted each year) that does not require bypassing of authorized works. The Notification was approved on May 1, 2018. The Maintenance Infiltration Ponds E206437 (CM_WBE), Main Interceptor Sedimentation Ponds E102488 (CM_SPD), and Corbin Sedimentation Pond E206438 (CM_CCPD) are not covered within the scope of this document. Maintenance of these structures will require a separate process modification notification to be submitted to ENV.

On June 25, 2018, CMO submitted a Notification under Section 2.1, 2.4, and 2.5 of Permit 4750 – clean out of Maintenance Infiltration Ponds E206437 (CM_WBE). The removal of solids was required to facilitate continued operation of the ponds. Characterization of the solids indicated that the material was non-hazardous however, a composite sample collected at approximately 1 meter depth showed an exceedance of LEPH under the Contaminated Sites Regulation for Industrial Sites. For this reason, material was disposed of at an off-site certified landfill. CMO Notified ENV upon completion of the Maintenance Infiltration Pond Clean Out on July 31,

[1] Summary of monitoring requirements associated with Permit 4750 appendix 3A Coal Mountain Operations Approved Pit Pumping Plans are detailed in Section 4.1.1 of this report.

2018. Approximately 350 m^3 of sediment was removed from Pond 1. Pond 2 did not require cleanout as sufficient capacity and freeboard was determined.

On July 30, 2018, CMO submitted a notification to ENV as per Section 2.4 of Permit 4750 Notification – Corbin Dam Geotechnical Drilling [Corbin Sedimentation Pond E206438 (CM_CCPD)]. The purpose of the geotechnical site investigation was to characterize and assess the stability of the Corbin Dam foundation to address deficiencies identified in the Corbin Dam 2015 DSR and 2017 DSI. Completion of the drilling project was communicated to ENV on Aug 15, 2018.

On Sept 18, 2018 CMO submitted notification as per Section 1.3.2 of Permit 4750 (Notification - CMO Corbin Pond Offtake Valve Test). As part of Coal Mountain Operations Corbin Pond Dam Operation, Maintenance and Surveillance Manual (OMS) as well as the BC Dam Regulations (BC Reg. 40/2016, Schedule 2, item 4), the offtake valve, which is used to divert water from the low level dust, fire and wash plant water pipe, must be tested annually. This valve allows the water in the Corbin Pond to be reduced in the event that maintenance is required on the dam infrastructure or in the case of an emergency situation. The OMS states that CMO will test the valve at least once per year. Testing of this pipe falls under Water License 125853 and Section 1.3.2 of Permit 4750. Testing of this valve occurred on October 3, 2018. The valve was free turning with little effort required. While turning the valve, there were no concerning sounds, which would indicate issues with the valve. This test showed that the offtake valve is in good working condition. The valve is considered to be effective for its intended use of lowering the water level in the Corbin Pond if required. Field results showed that turbidity in Corbin Creek was not affected.

On September 20, 2018, CMO submitted a notification to ENV in accordance with Section 2 of permit 4750 for two independent fish salvage projects within the Corbin Sedimentation Pond E206438 (CM_CCPD) and Main Interceptor Sedimentation Ponds E102488 (CM_SPD). Fish salvage work was completed on the Main Interceptor Sedimentation Ponds E102488 (CM_SPD), North Ditch (CM_ND2), West Ditch (CM_WD) and the Corbin Sedimentation Pond E206438 (CM_CCPD). A permanent fish barrier was added to the Main Interceptor Sedimentation Ponds to Corbin Creek discharge just above the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) on December 1, 2017. The purpose of the barrier is to prevent upstream movement of fish into the Main Interceptor Sedimentation Ponds E102488 (CM_SPD). At this point, all of the above listed discharge monitoring location water bodies (Table 2) are considered to be non-fish bearing based on the successful completion of fish salvage operations, however, follow-up monitoring for fish presence will be conducted in 2019.

No additional work beyond that listed above or within the “Routine Water Infrastructure Maintenance Requiring MOE Notification” was conducted in 2018.

Table 3: Maintenance of works summary

Notification Date	EMS ID	Site ID	Location	Maintenance Complete
6/25/2018	E206437	CM_WBE	Maintenance Infiltration Ponds	Main Pond West (Pond 1) Sediment Cleanout
7/30/2018	E206438	CM_CCPD	Corbin Sedimentation Pond	Geotechnical Drilling
9/18/2019	E206438	CM_CCPD	Corbin Sedimentation Pond	Offtake Valve testing
9/20/2018	E206438	CM_CCPD	Corbin Sedimentation Pond	Fish Salvage
9/20/2018	E102488	CM_SPD	Main Interceptor Sedimentation Ponds	Fish Salvage

2 Incidents and Compliance Summary

2.1 Incidents

2.1.1 Incidents Related to Water Quality

Table 4: Summary of incidents related to water

	Date	Type	Substance	Quantity	Units	Location	Incident Summary	PEP #
1	8-May-18	Release of Deleterious Substance	Sediment Laden Water	>200	L	7 Pit Pond Decommissioned Area	On May 8 a TSS discharge event occurred at the confluence of Kuta Creek and Michel Creek. CMO conducted sampling on May 8 and received the preliminary laboratory results from ALS on May 11. The potential TSS discharge event was reported to ENV and Environment Canada on May 13. The final confirmed TSS discharge report was submitted to ENV and Environment Canada on May 23. The TSS event was a result of rapid snowmelt across the recently decommissioned Seven Pit Pond area and additional seasonal run-off from Peach Creek, all of which were flowing into Kuta Creek above the Flathead Road. The area was decommissioned in the fall of 2017 and had little established vegetation at the time of the TSS event.	N/A
2	6-Jun-18	Release of Fine Sediment Material	Fine Sediment Material	464	m^3	CMO Quarry	On June 6 the CMO Environmental Department found approximately 463.5 m3 of fine sediment material spilled into an undisturbed forested area within the C-84 Mine Permit Boundary. The spill was reported to ENV at 12:51 on June 14. At approximately 13:06 on June 6, CMO discovered significant erosion on the east berm in the CMO sand and gravel quarry. Investigations confirmed the material to be non-mine/coal influenced, consistent with sand and gravel, and mobilized by water flow. Erosion of the quarry's berm has resulted in erosion rills on the east side by which sediment was able to flow into an undisturbed, forested area. This area was determined to be within C-84 Mine Permit Boundary, approximately 300 m southwest from Corbin Creek.	DGIR 180981

	Date	Type	Substance	Quantity	Units	Location	Incident Summary	PEP #
3	26-Jul-18	Release of Deleterious Substance	Sediment Laden Water	>200	L	7 Pit Pond Decommissioned Area	On July 26 a TSS discharge event occurred at the confluence of Kuta Creek and Michel Creek. CMO conducted sampling on July 26 and received the final laboratory results from ALS on July 29. The potential TSS discharge event was reported to ENV and Environment Canada on July 27 and the final laboratory reports were submitted to ENV and Environment Canada on July 31. At approximately 3:00 pm, a fast moving rain and hail event occurred in the area of CMO, which lasted for approximately 1.5 hours. The TSS event was a result of the rapid, onset rain event in combination with the low flow observed in Kuta Creek. Kuta Creek TSS downstream of the decommissioned area was 204 mg/L, Kuta Creek TSS at the Michel Creek confluence was 64 mg/L, and Michel Creek TSS upstream of the Kuta Creek confluence was 2.6 mg/L. The rain event triggered immediate water management, infrastructure inspections and turbidity monitoring of discharge locations, which confirmed this event was isolated to Kuta Creek. Follow up sampling on July 27 confirmed this was a brief, singular event with TSS results of 2.3 mg/L in Kuta Creek, 10.3 mg/L at the Kuta Creek confluence, and < 1 mg/L upstream of the Kuta Creek confluence.	DGIR 181505
4	2-Aug-18	Sediment Spill	Sediment Laden Water	>200	L	Corbin Dam Spillway (CM_CCPD)	On August 2, 2018, a potential TSS discharge event occurred at the Corbin Pond Decant (EMS #206438; hereby referred to as the “Pond”). CMO conducted sampling on August 2 and received final laboratory results from ALS on August 7. The potential TSS discharge event was reported to ENV and Environment Canada on August 2. The final laboratory reports were submitted to ENV and Environment Canada on August 8. On August 1, a Corbin Dam foundation-drilling program commenced at the Pond. This program included a turbidity monitoring plan, which stated	DGIR 181603

	Date	Type	Substance	Quantity	Units	Location	Incident Summary	PEP #
							that a baseline turbidity sample would be taken from the Pond discharge every morning prior to work starting. Additionally, prior to drilling water being discharged to the Pond, the environmental monitor were to be notified and conduct hourly monitoring of the Pond discharge to Corbin Creek. On August 2, a baseline turbidity sample was taken while drilling water was not discharging to the Pond. At 12:42 pm, a turbidity measurement of 156 NTU was taken, which triggered further action; TSS sampling occurred at 1:17 pm and in that time turbidity had lowered to 21.7 NTU and a TSS result of 2.5 mg/L; thus, concluding the very brief event. Ultimately, it is undetermined if there was an actual TSS exceedance or not. The cause of the rapid spike in turbidity is likely from high winds causing wave action on the Pond and mobilizing the finer sediment along the bank of the Pond from the drilling water released a day earlier.	
5	9-Aug-18	Chlorinated Water Release	Chlorinated Water	124,000	L	Plant Offices	On August 8 a potable water leak occurred in the CMO processing plant. CMO conducted sampling on August 9 and received the final laboratory results from ALS on August 13 and Nautilus on August 24. The discharge event was reported to ENV on August 9 and the final laboratory reports were submitted to ENV on August 24. In total, approximately 124,000 liters of potable water had discharged throughout the duration of the event. At approximately 9:15 pm, a low-level alarm was triggered from the potable water reservoir at CMO, which indicated the water level as less than 70%. Between approximately 9:15 pm and 3:00 am, staff undertook investigations as to the cause of the alarm. At approximately 3:00 am on August 9, the leak was determined to be discharging from a pipe in the processing plant, located under the stairs beside the plant maintenance lunchroom.	DGIR 181687

	Date	Type	Substance	Quantity	Units	Location	Incident Summary	PEP #
6	10-Sep-18	Chlorinated Water Release	Chlorinated Water	66,000	L	Middle Mountain Access Road	On September 10 a potable water line was ruptured by a piece of equipment during ditch cleanout. CMO conducted sampling on September 10 and received the final laboratory results from ALS on September 16. The discharge event was reported to ENV on September 10 and the final laboratory reports were submitted to ENV on September 19. In total, approximately 66,000 l of potable water had discharged throughout the duration of the event. At approximately 8:00 am, a potable water line was struck by equipment removing accumulated solids from a ditch northwest of the diesel island at CMO. At 8:30 am, the chlorinated water pump was shut off and the valve was closed to prevent further loss of water from the potable water reservoir. The chlorinated water discharged from the ruptured pipe to the ditch and then to ground. The potable water did not directly enter the surface water system, but precautionary water quality measures were taken. CMO Environment sampled Corbin Creek downstream of the ditch where the leak occurred. Final laboratory results confirmed chlorine was non-detectable.	DGIR 182111
7	13-Sep-18	Release of Deleterious Substance	Sediment Laden Water	>200	L	7 Pit Pond Decommissioned Area	On September 13 a TSS discharge event occurred at the confluence of Kuta Creek and Michel Creek. CMO conducted sampling on September 13 and received the final laboratory results from ALS on September 17. The potential TSS discharge event was reported to ENV and Environment Canada on September 13 and the final laboratory reports were submitted to ENV and Environment Canada on September 18. At approximately 2:30 PM on, a fast moving rain event occurred in the area of CMO, which lasted for approximately one hour. The TSS event was a result of the rapid, onset rain event in combination with the low flow observed in Kuta Creek. Kuta Creek TSS downstream of the	DGIR 182157

	Date	Type	Substance	Quantity	Units	Location	Incident Summary	PEP #
							decommissioned area was 205 mg/L, Kuta Creek TSS at the Michel Creek confluence was 52.9 mg/L, and Michel Creek TSS upstream of the Kuta Creek confluence was 1.5 mg/L. The rain event triggered immediate water management, infrastructure inspections and turbidity monitoring of discharge locations, which confirmed this event was isolated to Kuta Creek. Follow up sampling on September 14 confirmed this was a brief event with TSS results of 7.0 mg/L in Kuta Creek, 5.8 mg/L at the Kuta Creek confluence, and 1.4 mg/L upstream of the Kuta Creek confluence.	

2.1.2 Corrective Actions and Comments

2.1.2.1 7 Pit Pond Decommissioned Area Sediment Release

The TSS event was result of rapid snowmelt across the recently decommissioned Seven Pit Pond area and additional seasonal run-off from Peach Creek, all of which were flowing into Kuta Creek above the Flathead Road. The area was decommissioned in the fall of 2017 and had little established vegetation at the time of the TSS event.

In addition to the straw bales, straw logs, and silt fencing that was still in place from the previous year, CMO implemented a number of immediate erosion and sediment control measures to reduce the surface run-off into Kuta Creek. On May 10, three spring berms and one silt fence were added to the main swale that was contributing significant quantities of water and turbidity to Kuta Creek. Drone inspections of the area were completed to ensure no further erosion was occurring elsewhere. On May 16, four additional silt fences were added to the main swale, Peach Creek runoff was directed away from the Seven Pit Pond area, and approximately 15 spring berms were added into the channel that stretches from the Seven Pit Pond area to Kovack Creek. From May 16 to 17, excavation and re-sloping of the Seven Pit Pond area occurred. This resulted in improved drainage throughout the area with the construction of a new swale to collect the surface runoff, filter it with spring berms, and then divert it into Kuta Creek quicker, which ultimately reduced sediment erosion throughout the site.

The Seven Pit Pond area, erosion and sediment control infrastructure, and the turbidity at Kuta Creek, Kovack Creek, and Niven Creek continues to be monitored regularly and in response to significant precipitation events that pose a risk to water quality. In addition, the area has been planted with trees, shrubs, and grasses and hydro-seeded. No TSS issues were observed after September 13.

2.1.2.2 Quartzite Quarry Sediment Release

Several follow-up inspections were conducted following the initial discovery, including one on June 11 where the channels were mapped out for spring berm placement and the extent of the erosion was further investigated. An additional inspection occurred on June 14 where three temporary silt berms were installed within the main erosion rill to limit additional fine material from being released in the event of a rainstorm.

Additionally, an inspection occurred on June 25 to assess permanent remediation and preventative strategies for erosion in the area.

Currently, regular monitoring of the area is conducted to ensure effectiveness of the controls in place and to identify any new erosion issues. Reclamation of this area is scheduled in 2021 but may occur as early as 2019.

2.1.2.3 Corbin Dam Spillway Sediment Release

Due to the potential of the fine sediments in the drilling water not settling within the Pond during wind events, drilling water was pumped into totes rather than being directly released into the Pond. The tote allowed CMO to hold and control the release of the water when weather conditions were ideal as well as direct water to an area of the pond where sediment mobilization would not be an issue. On August 11, the Corbin Dam foundation-drilling program was completed with no further TSS or turbidity issues.

2.1.2.4 Plant Offices Chlorinated Water Release

After the leak was discovered, plant staff immediately shut off the chlorinated water pump. At 4:00 am, plant staff shut off the valve at the potable water reservoir, which significantly reduced flow. Additionally, they added de-chlorination tablets into the Horseshoe Ponds. The chlorinated water had discharged from the processing plant to the ground south of the plant as well as to a nearby surface water ditch. The chlorinated water may have traveled from the surface water ditch to the Horseshoe Ponds, Main Sedimentation Ponds, and Corbin Creek, which prompted water quality monitoring measures. At approximately 9:00 am, the leak in the pipe was fixed and potable water service returned to normal. On August 9, CMO Environment sampled three locations downstream of the plant, including the North Ditch, Main Sediment Ponds, and Corbin Creek. Final laboratory results from ALS and Nautilus confirmed chlorine was non-detectable and no acute toxicity effects were observed in the Main Sediment Ponds.

2.1.2.5 Middle Mountain Access Road Chlorinated Water Release

Precautionary water quality measures were taken. CMO Environment sampled Corbin Creek downstream of the ditch where the leak occurred. Final laboratory results confirmed chlorine was non-detectable. In addition, signage was posted to warn equipment operators when cleaning the section of the Middle Mountain ditch where the potable water line is located to prevent future incidents.

2.1.3 All Other Reportable Spills and Incidents

The B.C. Spill Reporting Regulation is followed when reporting spills onsite. A summary of all spills and incidents reported to Emergency Management B.C. can be found in Appendix D.

2.2 Compliance Summary

2.2.1 CMO Permit 4750

Permit 4750 was amended on April 8, 2016 to authorize Pit Pumping from 34 and 6 pits. The latest amendment occurred on July 25, 2016 and added permitted discharges of surface water runoff from the Ammonium Nitrate Prill Silo Sump (E306116) and Emulsion Shop Sump (E306136). A requirement for emulsion facilities surface water management was also included (see Section 6.3 of this report).

CMO has eight authorized discharge sample locations and three receiving environment sample locations under Permit 4750. A complete list of authorized works can be found in Section 1 of the permit under each discharge site.

Monitoring and reporting requirements are specified in Sections 4 and 5 of Permit 4750. There are no permit limits for receiving environment sites in Permit 4750; however, monitoring results must be compared to approved and working BC Water Quality Guidelines for the Protection of Freshwater Aquatic Life (BCWQG FAL) when applicable.

Permit 4750 specifies limits on total suspended solids (TSS), flow, 5-day biochemical oxygen demand (BOD5), and extractable petroleum hydrocarbons (EPH). Monitoring requirements including field parameters, conventional parameters, major ions, nutrients, total and dissolved metals scan, and toxicity are required under Permit 107517 and will be discussed in the Permit 107517 Annual Report. A summary of Permit 4750 authorized discharge limits is provided in Table 5.

Table 5: Summary of Permit 4750 limits

EMS ID	Site ID	Parameter	Permit 4750 Limit
E102488	Main Interceptor Sedimentation Ponds (CM_SPD)	Flow	1.5 m^3/s
		TSS	50 mg/L
E206437	Maintenance Infiltration Ponds (CM_WBE)	Flow	0.38 m^3/min to maximum 120 m^3/d
		EPH	15 mg/L
E206438	Corbin Sedimentation Pond (CM_CCPD)	TSS	50 mg/L
		Flow	5.4 m^3/s
E206439	Sewage Treatment Plant (CM_SEW)	Flow	56.8 m^3/day
		BOD_5	40 mg/L and a 12 month average of 20 mg/L
		TSS	30 mg/L
E298733	Pengelly Channel Decant (CM_PC2)	Flow	2.11 m^3/s
		TSS	50 mg/L
E306136	Emulsion Shop Sump (CM_MAX-SHOP)	EPH	60 mg/L
E306116	Ammonium Nitrate Prill Silo Sump (CM_PR-SILO)	EPH	60 mg/L

2.3 Non-Compliances

A summary of Permit 4750 non-compliances that occurred in 2018 are summarized in Table 6. No additional non-compliances were identified.

Table 6: Summary of Permit 4750 non-compliances

Non-Compliance #	EMS ID	Site ID	Date	Parameters	Description/Corrective Actions
1	E206437	CM_WBE	5-Jun-18	EPH (C10-C32)	On June 5 the EPH in the Heavy Duty Steam Bay Oil-Water Separator exceeded the permit limit of 15 mg/L (result = 319 mg/L). Note this sample was not taken from the discharge point but instead was taken from the Heavy Duty Steam Bay Oil-Water Separator. The laboratory results were received from ALS on June 7 and the exceedance was reported to ENV on June 11. The EPH exceedance was likely due to the capture of a remaining sheen on top of the water surface within the oil-water separator following a complete clean out and refill of the oil-water separator. The investigation concluded that proper oil-water separator sampling protocol was not followed during the sampling event on June 5. EPH may have stuck to the sample bottle when the top of the surface was skimmed, which may have resulted in an increased EPH result. As a result of the sheen identified on June 4 the maintenance department was immediately informed and the Heavy Duty Steam Bay was shut down. An external contractor was called in on June 5 to clean out the oil-water separator and skim the second Maintenance Infiltration Pond's surface. A sample was collected from the oil-water separator once it was filled with clean water. In addition to sampling the oil-water separator, an EPH sample was taken from the second Maintenance Infiltration Pond where the original sheen was identified. After the oil-water separator and the pond's surface were cleaned, the Heavy Duty Steam Bay was re-opened and normal operations resumed. Preliminary laboratory results indicated that the cleanout of the oil water separator might not have removed all diesel from the separator, resulting in the 319 mg/L EPH result. However, the second Maintenance Infiltration Pond results showed much lower levels of EPH at 2.27 mg/L, which indicated that oil-water separation was still occurring and that skimming the sheen on the surface may have reduced the quantity of EPH in the pond. These results required further follow up investigation and sampling, which occurred on June 11. The investigation concluded that the sampling methodology used to collect the initial sample was flawed. The sample taken on June 5 was likely contaminated with material from the surface of the separator discharge pipe post clean out. The June 11 sampling event and results were as expected and confirmed the oil-water separator complied with Permit 4750 with a result of 2.22 mg/L EPH. ENV was updated by email on June 29. CMO is currently evaluating the effectiveness of the oil-water separator and has increased its monitoring frequency from quarterly to monthly or as needed based on routine inspection.

2.4 Missing and Unattainable Data

All monitoring is conducted in accordance with Permit 4750. When data is not obtained, it is categorized as either 'missing data' or 'unattainable data'. Missing data are the result of operator error (e.g., miscommunication, or sampling planning errors). Unattainable data is circumstantial and refers to when the collection of water samples from authorized discharges or receiving environment-sampling sites is not achievable. Such circumstances are generally out of Teck's control and include, but are not limited to, unsafe sampling conditions, no flow due to freezing conditions, or cessation of discharge activities.

Table 7: Summary of missing data

EMS ID	Site ID	Date	Parameters	Reason
There was no missing data in 2018				

Table 8: Summary of unattainable data

Date	EMS ID	Location Code	Parameters	Reason
7-May-18 19-Jun-18 26-Jun-18	-	CM_6PIT_WELL	All	Pump was turned off, sample unattainable
2-Apr-18 10-Apr-18 17-Apr-18 24-Apr-18 1-May-18 7-May-18	-	CM_6PitDW	All	6 Pit was closed due to geotechnical safety concerns, sample unattainable
29-May-18 12-Jun-18 19-Jun-18 26-Jun-18				Pump was turned off, sample unattainable
4-Apr-18 10-Apr-18 17-Apr-18 7-May-18 24-Jul-18 7-Aug-18 28-Aug-18	-	CM_6PitDW2	All	6 Pit was closed due to geotechnical safety concerns, sample unattainable Pump was turned off, sample unattainable

Date	EMS ID	Location Code	Parameters	Reason
4-Sep-18				
11-Sep-18				
Q1	E306136	CM_MAX-SHOP[1]	EPH	Zero flow
Q3				
Q1	E298733	CM_PC2	All	Zero flow
4-Apr-18				
10-Apr-18				
17-Apr-18				
24-Apr-18				
17-Jul-18				
24-Jul-18				
31-Jul-18				
7-Aug-18				
4-Sep-18				
Q4				
Q1	E306116	CM_PR-SILO[1]	EPH	Zero Flow
Q3				

[1] The four samples per year commitment outlined in Permit 4750 for CM_MAX-SHOP and CM_PR-SILO was met for each site.

In the case of an unattainable sample due to no flow present, reasonable efforts will be made to take a sample if there is a significant environmental change that would result in the return of flow at the permitted sampling location. If a sample is unattainable upon initial site visit during a scheduled sampling period the following triggers below will initiate a second attempt to collect a sample.

- Significant rain event;
- Increase in flow at other sampling locations;
- Presence of flowing water in road side ditches or sumps (i.e. if it is raining hard enough to have surface flow in ditches, then the sample point in the creek likely has flow);
- Any mine operational change that may result in flow or impact the drainage; and
- Significant warming trend in winter months.

3 Data Quality Assurance and Quality Control (QA/QC)

3.1 QA/QC Program

In accordance with Section 4.1.3.3 of Permit 4750, CMO has implemented a Quality Assurance and Quality Control (QA/QC) Plan in accordance with the Environmental Data Quality Assurance Regulation and guidance provided in the "British Columbia Field Sampling Manual for continuous Monitoring and the Collection of Air, Air-emissions, Water, Wastewater, Soil, Sediment, and Biological Samples" and the "British Columbia Laboratory Methods Manual for the Analysis of Water, Wastewater, Sediment, Biological Materials and Discrete Ambient Air." A summary of CMO's QA/QC program is provided below.

3.1.1 Staff Training

CMO environment staff, environmental consultants and contractors are trained using onsite Standard Practices & Procedures (SP&P), Management Plans, guidance documents, as well as other training sessions available throughout the year. CMO's Environmental SP&P documents include training for all environmental monitoring and reporting activities including sampling procedures, shipping methods, and equipment calibration procedures. These documents are reviewed annually by environment staff, environmental consultants and contractors.

3.1.2 Equipment Calibration

Equipment is calibrated as per manufacturer's specifications and calibration dates are tracked internally. In-house calibrations are conducted using certified calibration solutions and the calibration results are recorded on the appropriate calibration forms. Equipment requiring manufacturer calibration is shipped off site to the appropriate location or a manufacturer representative performs the calibration onsite. All calibration log sheets are filed in a calibration log folder on the CMO SharePoint.

Table 9: Equipment calibration checklist.

Equipment	Model	Calibration Frequency	Last Calibration
Field Parameter Meter #1	YSI Handheld Multiparameter Instrument (Professional Plus) (pH, DO, EC, ORP, Temperature)	Weekly	3/4/2019
Field Parameter Meter #2	YSI Handheld Multiparameter Instrument (556MPS) (pH, DO, EC, ORP, Temperature)	Weekly	3/8/2019
Field Turbidity Meter #1	LaMotte 2020wi	Weekly	3/4/2019
Field Turbidity Meter #2	LaMotte 2020wi	Weekly	3/8/2019
Field Turbidity Meter #3	LaMotte 2020we	Weekly	3/8/2019
Flow Meter	Hach FH950	As required* (Completed by manufacturer upon purchase in February 2018)	2/8/2019

3.1.3 Record Keeping

Data quality is maintained by storing all sampling data in a controlled database. The current data management application at CMO is EQuIS (Environmental Quality Information System). User defined rules are applied to the uploading of data. Additionally, all data is subjected to comparison against standards such as permit limits, Approved and Working Water Quality Guidelines, or other criteria as specified by the Director. If a value

entered is above a limit or guideline, the user is advised in a report generated by the database. This enables users to determine if the value is entered incorrectly, if it is a possible laboratory error or if values have truly exceeded the applicable standards.

3.1.4 Sample Analysis

Third-party sample analysis was conducted by:

- ALS Laboratory Group
  8081 Loughheed HWY
  Suite 100
  Burnaby, BC

- ALS Laboratory Group
  2559 29th Street NE
  Calgary, AB

Analyses were carried out in accordance with procedures described in the most recent edition of the British Columbia Laboratory Methods Manual for the Analysis of Water, Wastewater, Sediment, Biological Materials and Discrete Ambient Air, or by suitable alternative procedures as authorized by the Director.

3.1.5 Lab QA/QC Data

As noted in Section 3.1.4, CMO utilizes two accredited laboratories for effluent analyses: ALS Environmental located in Vancouver, B.C. and ALS Environmental located in Calgary, Alberta. All labs report quality assurance and quality control (QA/QC) results for sample submission through determination of a Relative Percent Difference (RPD) value (as defined in the British Columbia Field Sampling Manual). Results of lab QA/QC can be made available upon request.

3.1.6 Field Duplicates

Field Duplicate sample precision was evaluated using a RPD, which is the difference between the duplicates as a function of their average (Appendix A). Four criteria were used to evaluate each set of duplicate samples:

- RPD of < 20% = Pass;
- RPD of >20% with results < 5 times the detection limit = Pass-1;
- RPD of > 20% and <50% with results > 5 times the detection limit = Pass-2; and
- RPD of >50% with results > 5 times the detection limit = Fail.

Throughout 2018, 59 field duplicate samples were collected, resulting in 118 analytes being evaluated for RPD (TSS, Turbidity, PAH, LEPH and EPH). Of the 188 analytes evaluated, 4 exceeded the RPD control limits (Turbidity), 1 was Pass-2 (Turbidity), 28 were Pass-1 (6 Turbidity and 22 TSS), and 85 were Pass (Appendix A).

SRK Consultants have provided an explanation on the variability of TSS and Turbidity in duplicate samples:

TSS and Turbidity parameters are prone to high variability because they are measures of suspended particles, which are dependent on turbulence and mixing at the time of sample collection. The variability of duplicates at

concentrations near the analytical detection limit and measurements of suspended particles are not unexpected, unusual, or cast aspersions on the quality of the sample collection or the data.

ALS Laboratories has also attributed the variability in TSS and Turbidity measurements to sample heterogeneity, and due to the nature of these parameters, they can vary significantly within the sample due to the presence of both fine and course particles.

3.1.7 Blank Samples

Control blank sampling (field blanks) was conducted throughout the year in accordance with procedures established in *British Columbia Field Sampling Manual for Continuous Monitoring Plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples,* or by suitable alternative procedures as authorized by the Director.

Throughout 2018, 59 field blank samples were collected, resulting in 118 analytes being evaluated for Turbidity (59) and TSS (59). Of these 118 analytes, 10 Turbidity and 1 TSS were above the detection limits (Appendix A).

3.2 QA/QC Issues

In accordance with the QA/QC Plan, concerns identified in the field and/or laboratories are tracked. There were 106 QA/QC concerns for 2018 under Permit 4750 authorization (0.25% of the 41,048 total constituents analyzed) and no permit non-compliances due to QA/QC issues. Of these 106 QA/QC issues, 23 were exceeding the laboratory hold times, 8 were RPD failures, and 75 were blank sample detects. QAQC issues are summarized in Table 10.

Table 10: Summary of QA/QC issues

Date	EMS ID	Site ID	Parameter	Reason
23-Jan-18	E206438	CM_CCPD	Chromium, T	Duplicate RPD Failure
1-Mar-18			Cadmium, D	Duplicate RPD Failure
			Zinc, D	Duplicate RPD Failure
20-Mar-18	E258175	CM_MC1	Alkalinity, Total (As CaCO3), Lab Measured.	EHT – Exceeded ALS recommended hold time prior to analysis
	E258937	CM_MC2	Alkalinity, Total (As CaCO3), Lab Measured.	EHT – Exceeded ALS recommended hold time prior to analysis
9-Apr-18	E102488	CM_SPD	Ortho-Phosphate	EHT – Exceeded ALS recommended hold time prior to analysis
16-May-18	5/16/2018	CM_14PIT-PIPE	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
17-May-18	5/17/2018	CM_6PitDW2	Nitrite Nitrogen (NO2), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
3-Jul-18	0200209	CM_CC1	Carbon, Dissolved Organic	Blank Sample Detect
			Nitrogen, Ammonia (As N)	
			Total Kjeldahl Nitrogen	Duplicate RPD Failure
	E258175	CM_MC1	Nitrogen, Ammonia (As N)	Blank Sample Detect

Date	EMS ID	Site ID	Parameter	Reason
			Turbidity, Lab	Duplicate RPD Failure
10-Jul-18	0200209	CM_CC1	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
			Turbidity, Lab	
17-Jul-18	-	CM_34PIPEDIS	Ortho-Phosphate	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
	0200209	CM_CC1	Ortho-Phosphate	EHT – Exceeded ALS recommended hold time prior to analysis
	E258175	CM_MC1	Ortho-Phosphate	EHT – Exceeded ALS recommended hold time prior to analysis
	E102488	CM_SPD	Calcium, T	Blank Sample Detect
			Nitrogen, Ammonia (As N)	
			Strontium, T	
			Turbidity, Lab	
31-Jul-18	-	CM_14PIT-PIPE	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
	-	CM_34PIPEDIS	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
	0200209	CM_CC1	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
	E102488	CM_SPD	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
	E206438	CM_CCPD	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
	E258175	CM_MC1	Nitrate Nitrogen (NO3), As N	HTD – Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time
			Nitrite Nitrogen (NO2), As N	
7-Aug-18	E206438	CM_CCPD	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Phosphorus	
			Total Dissolved Solids (Residue, Filterable)	
15-Aug-18	E206438	CM_CCPD	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Total Kjeldahl Nitrogen	
			Magnesium, D	Duplicate RPD Failure
28-Aug-18	E206438	CM_CCPD	Carbon, Dissolved Organic	Blank Sample Detect
			Total Organic Carbon	
			Turbidity, Lab	
4-Sep-18	0200209	CM_CC1	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Ortho-Phosphate	
			Phosphorus	
	E102488	CM_SPD	Ortho-Phosphate	Blank Sample Detect
			Phosphorus	
			Turbidity, Lab	Duplicate RPD Failure

Date	EMS ID	Site ID	Parameter	Reason
2-Oct-18	0200209	CM_CC1	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
	E102488	CM_SPD	Chromium, T	Blank Sample Detect
			Nitrogen, Ammonia (As N)	
			Ortho-Phosphate	
			Phosphorus	
9-Oct-18	E206438	CM_CCPD	Nitrogen, Ammonia (As N)	Blank Sample Detect - Additional Sampling Not Required by Permit
			Ortho-Phosphate	
16-Oct-18	-	CM_14PIT-PIPE	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Total Kjeldahl Nitrogen	
			Total Suspended Solids, Lab	
29-Oct-18	E206438	CM_CCPD	Nitrogen, Ammonia (As N)	Blank Sample Detect - Additional Sampling Not Required by Permit
			Total Kjeldahl Nitrogen	
5-Nov-18	0200209	CM_CC1	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
	E206438	CM_CCPD	Chromium, T	Blank Sample Detect
			Nickel, T	
			Nitrogen, Ammonia (As N)	
			Strontium, D	
			Total Kjeldahl Nitrogen	
13-Nov-18	-	CM_14PIT-PIPE	Ortho-Phosphate	Blank Sample Detect
			Total Kjeldahl Nitrogen	
20-Nov-18	-	CM_14PIT-PIPE	Barium, T	Blank Sample Detect - Additional Sampling Not Required by Permit
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
			Turbidity, Lab	
27-Nov-18	-	CM_14PIT-PIPE	Nitrogen, Ammonia (As N)	Blank Sample Detect - Additional Sampling Not Required by Permit
			Ortho-Phosphate	
			Phosphorus	
3-Dec-18	0200209	CM_CC1	Nitrate Nitrogen (No3), As N	Blank Sample Detect
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
	E102488	CM_SPD	Nitrogen, Ammonia (As N)	Blank Sample Detect
			Ortho-Phosphate	
			Total Kjeldahl Nitrogen	
11-Dec-18	-	CM_14PIT-PIPE	Ortho-Phosphate	EHT – Exceeded ALS recommended hold time prior to analysis. Additional Sampling Not Required by Permit
			Total Kjeldahl Nitrogen	RPD Failure – Additional Sampling Not Required by Permit
			Nitrogen, Ammonia (As N)	Blank Sample Detect – Additional Sampling Not Required by Permit

Date	EMS ID	Site ID	Parameter	Reason
	E206438	CM_CCPD	Ortho-Phosphate	EHT – Exceeded ALS recommended hold time prior to analysis. Additional Sampling Not Required by Permit
18-Dec-18	-	CM_14PIT-PIPE	Aluminum, D	Blank Sample Detect – Additional Sampling Not Required by Permit
			Antimony, D	
			Barium, D	
			Barium, T	
			Calcium, D	
			Silicon, D	
			Sodium, D	
			Strontium, D	
			Tin, D	
			Nitrogen, Ammonia (As N)	
			Turbidity, Lab	
28-Dec-18	-	CM_14PIT-PIPE	Nitrogen, Ammonia (As N)	Blank Sample Detect – Additional Sampling Not Required by Permit
			Phosphorus	

4 Water Monitoring Program Description

4.1 Water Quality and Quantity Monitoring Requirements

Samples were collected from January 1, 2018 to December 31, 2018 in accordance with Permit 4750 requirements (Table 11). All sample results can be viewed in Appendix B – Monitoring Data and QA/QC Data.

Table 11: Monitoring requirements for Permit 4750 (amended April 2016 and July 2016)

EMS ID	Site ID	Parameters				
		(mg/L)	(mg/L)	NTU	(mg/L)	(m^3/s)[a]
		5-day Biochemical Oxygen Demand (BOD_5)	Total Suspended Solids (TSS)	Turbidity	Extractable Petroleum Hydrocarbons (EPH)	Flow
E102488	CM_SPD	-	W/M	W/M	Q	W/M
E206437	CM_WBE	-	-	-	Q	Q
E206438	CM_CCPD	-	W/M	W/M	Q	W/M
E206439	CM_SEW	M	M	M	-	M
E298733	CM_PC2	-	W/M	W/M	-	W/M
E258175	CM_MC1	-	W/M	W/M	-	W/M
E258937	CM_MC2	-	W/M	W/M	-	-
0200209	CM_CC1	-	W/M	W/M	-	-
E306136	CM_MAX-SHOP	-	-	-	4x per year	-
E306116	CM_PR-SILO	-	-	-	4x per year	-

Notes:
M = Monthly from August 1 - March 31
W = Weekly from April 1 - July 31
Q = Quarterly
4 x per year = collected during spring and rainfall events
a) m^3/day for CM_SEW and CM_WBE

4.1.1 Pit Pumping

Monitoring requirements for 34 Pit and 6 Pit pumping are summarized in Tables 12 and 13, respectively. Monitoring results from the following monitoring program associated with Michel Creek downstream of Operations E258937 (CM_MC2), Corbin Creek near confluence with Michel Creek 0200209 (CM_CC1), the Main Interceptor Sedimentation Ponds E102488 (CM_SPD), and the Corbin Sedimentation Pond E206438 (CM_CCPD) are included within the Permit 107517 annual report submission due March 31, 2019. The pit pumping locations listed within Tables 12 and 13 are specific to Permit 4750 and therefore are not included in the Permit 107517 annual effluent report. All sample results for 6 pit, 34 Pit ad 14 Pit monitoring locations are included within Appendix B. Pit pumping volumes are summarized in section 6.1.1 of this report.

Table 12: 34 Pit pumping monitoring requirements

EMS ID	Location	Duration	Field Parameters	Conventional Parameters	Major Ions	Nutrients	Total/Dissolved Metals	TSS/Turbidity
	14 Pit	One week before pumping	One Time	One Time	One Time	One Time	One Time	One Time
		For 2 months after Pumping Begins	W	W	W	W	W	n/a
		Ongoing while pumping	M	M	M	M	M	n/a
n/a	34 Pit	For 2 months after Pumping Begins	W	W	W	W	W	n/a
		Ongoing while pumping	M	M	M	M	M	n/a
E258937	CM_MC2	Ongoing while pumping	W/M	W/M	W/M	W/M	W/M	n/a
E102488	CM_SPD	Ongoing while pumping	W/M	M	M	M	M	W/M

Notes:
W/M = Weekly from March 15-July 31; monthly the rest of the year
W = Weekly as per specified duration

Table 13: 6 Pit pumping monitoring requirements

EMS ID	Location	Duration	Field Parameters	Conventional Parameters	Major Ions	Nutrients	Total/ Dissolved Metals	TSS/ Turbidity	Flow
N/A	6 Pit Infiltration Sump	Starting April 27, 2016 to pumping completion	W/M	W-M	W-M	W-M	W-M	W/M	*
E206436	CM_CCPD	Starting April 27, 2016 to pumping completion	W/M	W-M	W-M	W-M	W-M	W/M	W/M
E258937	CM_MC2	To pumping completion	W/M	W/M	W/M	W/M	W/M	W/M	W/M

EMS ID	Location	Duration	Field Parameters	Conventional Parameters	Major Ions	Nutrients	Total/ Dissolved Metals	TSS/ Turbidity	Flow
200209	CM_CC1	To pumping completion	W/M	W/M	W/M	W/M	W/M	W/M	C
E102488	CM_SPD	To pumping completion	M	M	M	M	M	W/M	W/M

Notes:
M = Monthly
W/M = Weekly April 1 to July 31 (March 15 to July 3 at E258937 and 200209) and monthly the remainder of the year
W-M = Weekly sampling, switch to monthly once water quality parameter variability is understood
C = Continuous monitoring
**Volume of water pumped from 6 Pit is measured utilizing a flow meter*

Coal Mountain Operations provides a memo quarterly within the quarterly Permit 4750 effluent report to ENV summarizing projected versus current (Jan 2018 – December 2018) concentrations for parameters that have discharge limits at CMO's Compliance Station, Michel Creek downstream of Operations E258937 (CM_MC2). Results are presented in Figure 2.

The projected scenario represents pumping measured in 2018 from both 34 Pit and 6 Pit, and changes to waste management approved through the November 2017, amendment to Permit C-84 Approving E1728 Spoil Refuse Blending. 2018 pumping rates from 6 Pit and 34 Pit were maintained below maximum authorized rates of 150 L/s. Permit 107517 limits are included in the plots for sulphate, nitrate, dissolved cadmium and total selenium concentrations. The cadmium limit is hardness dependent and was calculated using measured hardness values at Michel Creek downstream of Operations E258937 (CM_MC2).

Cadmium and selenium concentrations at Michel Creek downstream of Operations E258937 (CM_MC2) have remained below the Permit 107517 limits as well as projected concentrations during 2018 pumping. Sulphate and nitrate concentrations also remained below Permit 107517 limits in 2018.

Overall, CMO will continue to monitor water quality data as per permit conditions and conduct additional sampling to support pit pumping activities.

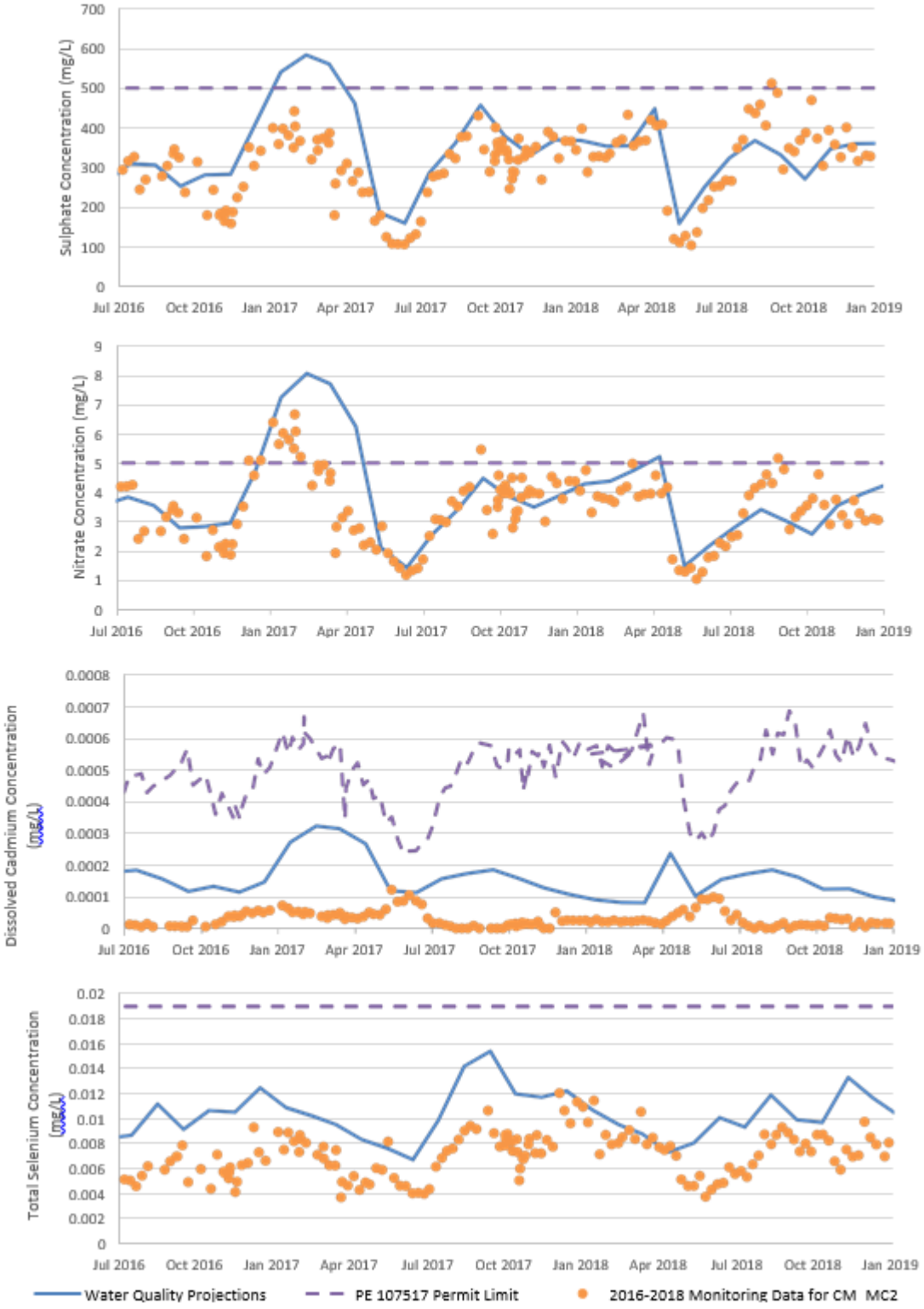

Figure 2: Projected vs current concentrations of sulphate, selenium, cadmium and nitrate at Michel Creek downstream of Operations E258937 (CM_MC2)

4.2 Sampling Methodology

All samples are collected in accordance with procedures established in the "British Columbia Field Sampling Manual – For Continuous Monitoring and the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment and Biological Samples" (2013) published by the Water, Air and Climate Change Branch of the Ministry of Water, Land and Air Protection, Province of BC or by suitable alternative procedures as authorized by the Director.

Permit 4750 Detection limits and analytical methods used for TSS, turbidity, BOD5, and EPH Total are listed in Table 14. A summary of parameters sampled for in accordance with Appendix 3A of Permit 4750 and applicable analytical methods are provided in Table 15.

Table 14: Permit 4750 site parameters, detection limits, and analytical methods

Parameter	Unit	Analytical Method	Detection Limit
TSS	mg/L	APHA 2540D	1.0
Turbidity	NTU	APHA 2130 Turbidity	0.1
BOD_5	mg/L	APHA 5210 B-Biochemical Oxygen Demand	2.0
EPH Total	mg/L	BC Lab Manual	0.5
Water Temperature (Field)	Degrees C	Field Measure	N/A
Specific Conductance (Field)	uS/cm	Field Measure	N/A
Dissolved Oxygen (Field)	mg/L	Field Measure	N/A
pH (Field)	pH units	Field Measure	N/A

Table 15: Appendix 3A site parameters, detection limits, and analytical methods

Parameter	Fraction	Unit	Analytical Method	Min (detect limit)	Max (detect limit)
ACIDITY TO pH 8.3 (As CaCO3)	N	mg/l	E305.1	1.0	1.0
ALKALINITY, BICARBONATE (As CaCO3), lab measured.	N	mg/l	SM2320B	1.0	1.0
ALKALINITY, CARBONATE (As CaCO3), lab measured.	N	mg/l	SM2320B	1.0	1.0
ALKALINITY, HYDROXIDE (As CaCO3), lab measured.	N	mg/l	SM2320B	1.0	1.0
ALKALINITY, TOTAL (As CaCO3), lab measured.	N	mg/l	SM2320B	1.0	1.0
ALUMINUM	D	mg/l	SW6020A	0.0010	0.0030
ALUMINUM	T	mg/l	EPA 200.2/6020A	0.0030	0.0030
ANTIMONY	D	mg/l	SW6020A	0.00010	0.00010
ANTIMONY	T	mg/l	EPA 200.2/6020A	0.00010	0.00055
ARSENIC	D	mg/l	SW6020A	0.00010	0.00010
ARSENIC	T	mg/l	EPA 200.2/6020A	0.00010	0.00010
BARIUM	D	mg/l	SW6020A	0.000050	0.000050
BARIUM	T	mg/l	EPA 200.2/6020A	0.000050	0.000050
BERYLLIUM	D	mg/l	SW6020A	0.000020	0.000020
BERYLLIUM	T	mg/l	EPA 200.2/6020A	0.000020	0.000020

Parameter	Fraction	Unit	Analytical Method	Min (detect limit)	Max (detect limit)
BISMUTH	D	mg/l	SW6020A	0.000050	0.000050
BISMUTH	T	mg/l	EPA 200.2/6020A	0.000050	0.000050
BORON	D	mg/l	SW6020A	0.010	0.010
BORON	T	mg/l	EPA 200.2/6020A	0.010	0.010
BROMIDE	D	mg/l	EPA300.1 (mod)	0.050	0.25
CADMIUM	D	mg/l	SW6020A	0.0000050	0.0000050
CADMIUM	T	mg/l	EPA 200.2/6020A	0.0000050	0.0000050
CALCIUM	D	mg/l	SW6020A	0.050	0.050
CALCIUM	T	mg/l	EPA 200.2/6020A	0.050	0.050
CARBON, DISSOLVED ORGANIC	D	mg/l	APHA 5310B	0.50	2.5
CARBON, DISSOLVED ORGANIC	D	mg/l	E415.1	0.50	0.50
Cation - Anion Balance	N	%	APHA 1030E	0.000	0.000
CHLORIDE	D	mg/l	EPA300.1 (mod)	0.10	2.5
CHROMIUM	D	mg/l	SW6020A	0.00010	0.00010
CHROMIUM	T	mg/l	EPA 200.2/6020A	0.00010	0.00010
COBALT	D	mg/l	SW6020A	0.00010	0.00010
COBALT	T	mg/l	EPA 200.2/6020A	0.00010	0.00010
CONDUCTIVITY, LAB	N	us/cm	APHA 2510	2.0	2.0
COPPER	D	mg/l	SW6020A	0.00020	0.00050
COPPER	T	mg/l	EPA 200.2/6020A	0.00050	0.00050
FLUORIDE	D	mg/l	EPA300.1 (mod)	0.020	0.10
Hardness, Total or Dissolved CaCO3	N	mg/l	SM2340B	0.50	0.50
HYDROGEN SULFIDE	N	mg/l	CALC	0.0016	0.021
ION BALANCE	N	%	APHA 1030E	0.000	100.0
IRON	D	mg/l	SW6020A	0.010	0.010
IRON	T	mg/l	EPA 200.2/6020A	0.010	0.010
LEAD	D	mg/l	SW6020A	0.000050	0.000050
LEAD	T	mg/l	EPA 200.2/6020A	0.000050	0.000050
LITHIUM	D	mg/l	SW6020A	0.0010	0.0010
LITHIUM	T	mg/l	EPA 200.2/6020A	0.0010	0.0010
MAGNESIUM	D	mg/l	SW6020A	0.0050	0.10
MAGNESIUM	T	mg/l	EPA 200.2/6020A	0.0050	0.10
MAJOR ANION SUM	N	meq/l	APHA 1030E	0.0	0.0
MAJOR CATION SUM	N	meq/l	APHA 1030E	0.0	0.0
MANGANESE	D	mg/l	SW6020A	0.00010	0.00010
MANGANESE	T	mg/l	EPA 200.2/6020A	0.00010	0.00010
MERCURY	D	mg/l	A3030B/EPA1631 REV-E	0.0000050	0.0000050
MERCURY	D	mg/l	EPA 1631E	0.0000050	0.000010
MERCURY	T	mg/l	EPA 1631 REV-E	0.0000050	0.0000050
MERCURY	T	ug/l	EPA 1631 REV-E	0.00050	0.00050
MERCURY	T	ug/l	EPA 1631E	0.00050	0.00050
Methyl Mercury	T	ug/l	E1630	0.000050	0.000050
MICROCYSTIN	N	ug/l	ENVLGXQUANTI	0.20	0.20
MOLYBDENUM	D	mg/l	SW6020A	0.000050	0.000050
MOLYBDENUM	T	mg/l	EPA 200.2/6020A	0.000050	0.000050
NICKEL	D	mg/l	SW6020A	0.00050	0.00050
NICKEL	T	mg/l	EPA 200.2/6020A	0.00050	0.00050
NITRATE NITROGEN (NO3), AS N	N	mg/l	E300.0	0.0050	0.025

Parameter	Fraction	Unit	Analytical Method	Min (detect limit)	Max (detect limit)
NITRATE NITROGEN (NO3), AS N	N	mg/l	EPA300.1 (mod)	0.0050	0.025
NITRITE NITROGEN (NO2), AS N	N	mg/l	E300.0	0.0010	0.0050
NITRITE NITROGEN (NO2), AS N	N	mg/l	EPA300.1 (mod)	0.0010	0.0050
NITROGEN, AMMONIA (AS N)	N	mg/l	APHA 4500 NH3	0.0050	0.0050
NITROGEN, AMMONIA (AS N)	N	mg/l	JENVMON	0.0050	0.0050
ORTHO-PHOSPHATE	N	mg/l	A4500P	0.0010	0.0010
OXIDATION-REDUCTION POTENTIAL, LAB	N	mv	ASTM D1498-14	1000	1000
pH, LAB	N	ph units	APHA 4500-H	0.10	0.10
PHOSPHORUS	N	mg/l	A4500P	0.0010	0.050
POTASSIUM	D	mg/l	SW6020A	0.050	0.050
POTASSIUM	T	mg/l	EPA 200.2/6020A	0.050	0.050
SELENIUM	D	ug/l	SW6020A	0.050	0.050
SELENIUM	T	ug/l	EPA 200.2/6020A	0.050	0.050
SILICON	D	mg/l	SW6020A	0.050	0.050
SILICON	T	mg/l	EPA 200.2/6020A	0.050	0.10
SILVER	D	mg/l	SW6020A	0.000010	0.000010
SILVER	T	mg/l	EPA 200.2/6020A	0.000010	0.000030
SODIUM	D	mg/l	SW6020A	0.050	0.050
SODIUM	T	mg/l	EPA 200.2/6020A	0.050	0.050
STRONTIUM	D	mg/l	SW6020A	0.00020	0.00020
STRONTIUM	T	mg/l	EPA 200.2/6020A	0.00020	0.00020
SULFATE (AS SO4)	D	mg/l	EPA300.1 (mod)	0.30	1.5
SULFIDE (as S)	T	mg/l	A4500SE	0.0015	0.0015
SULFIDE (as S)	T	mg/l	SM4500S2D	0.0020	0.020
THALLIUM	D	mg/l	SW6020A	0.000010	0.000010
THALLIUM	T	mg/l	EPA 200.2/6020A	0.000010	0.000010
TIN	D	mg/l	SW6020A	0.00010	0.00010
TIN	T	mg/l	EPA 200.2/6020A	0.00010	0.00010
TITANIUM	D	mg/l	SW6020A	0.010	0.010
TITANIUM	T	mg/l	EPA 200.2/6020A	0.010	0.010
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	N	mg/l	SM2540C	10	20
TOTAL KJELDAHL NITROGEN	N	mg/l	APHA 4500-NORG	0.050	1.0
TOTAL ORGANIC CARBON	T	mg/l	E415.1	0.50	2.5
TOTAL SUSPENDED SOLIDS, LAB	N	mg/l	SM2540D	1.0	3.0
TURBIDITY, LAB	N	ntu	E180.1	0.10	0.10
URANIUM	D	mg/l	SW6020A	0.000010	0.000010
URANIUM	T	mg/l	EPA 200.2/6020A	0.000010	0.000010
VANADIUM	D	mg/l	SW6020A	0.00050	0.00050
VANADIUM	T	mg/l	EPA 200.2/6020A	0.00050	0.00050
ZINC	D	mg/l	SW6020A	0.0010	0.0030
ZINC	T	mg/l	EPA 200.2/6020A	0.0030	0.0030

5 Monitoring Results

All results from 2018 sampling under Permit 4750 can be viewed in Appendix B.

5.1 Water Quality Results

In this section, water quality data are presented by parameter and compared to permit limits where applicable. Permit 4750 specifies monitoring requirements for discharges and receiving environment for parameters such as TSS, turbidity, BOD5, EPH and flow.

As per requirement 'vi' under Permit 4750 Section 5.3, Annual Report, CMO is required to include "All acute and chronic toxicity test-specific reports from the laboratory and an interpreted summary and discussion of results, including recommendations and any subsequent actions where applicable". Toxicity testing is conducted under Permit 107517 and all reporting, interpretation and discussion of results for this testing program will be provided as part of the 2018 107517 Annual Report and the 2018 Chronic Toxicity Program Annual Report.

All 2018 Permit 4750 monitoring parameters are discussed below. 2018 raw data with statistical summaries are presented in Appendix B and historical data are presented in Appendix C.

5.1.1 Total Suspended Solids

5.1.1.1 Receiving Environment

2018 TSS data for CMO's three receiving environment-sampling sites are presented in Figure 3. In total, 46 TSS samples were collected Michel Creek upstream of Operations E258175 (CM_MC1), 65 were collected at Michel Creek downstream of Operations E258937 (CM_MC2), and 47 at Corbin Creek near confluence with Michel Creek 0200209 (CM_CC1). Additional samples were collected for TSS beyond the Permit 4750 monthly and weekly sampling requirements to support pit pumping activities and in conjunction with additional sampling conducted to support Nitrate compliance at the CMO Permit 107517 compliance point.

At Michel Creek upstream of Operations E258175 (CM_MC1), 54% of the samples (25 of 46) collected were below the TSS detection limit of 1 mg/L and 34% of the samples (22 of 65) collected at Michel Creek downstream of Operations E258937 (CM_MC2) and 30% (14 of 47) collected at Corbin Creek near confluence with Michel Creek 0200209 (CM_CC1) were below the TSS detection limit of 1 mg/L.

TSS concentrations in the receiving environment were generally most elevated during the month of May (i.e., coinciding with freshet); however, rain events on July 26 and November 2 elevated TSS concentrations and may have impacted the Michel Creek downstream of Operations E258937 (CM_MC2) receiving environment sampling location. Background TSS sampling found that Michel Creek upstream of Operations E258175 (CM_MC1) was experiencing similar turbidity inputs compared to downstream of operations. The Main Interceptor Sedimentation Ponds E102488 (CM_SPD) authorized discharge location remained below the 50 mg/L TSS limit during the event.

The following are maximum TSS concentrations recorded in the receiving environment in 2018:

- 13.7 mg/L at Corbin Creek near confluence with Michel Creek 0200209 (CM_CC1) on July 26;
- 34.8 mg/L at Michel Creek upstream of Operations E258175 (CM_MC1) on November 2; and

- 60.9 mg/L at Michel Creek downstream of Operations E258937 (CM_MC2) on May 15.

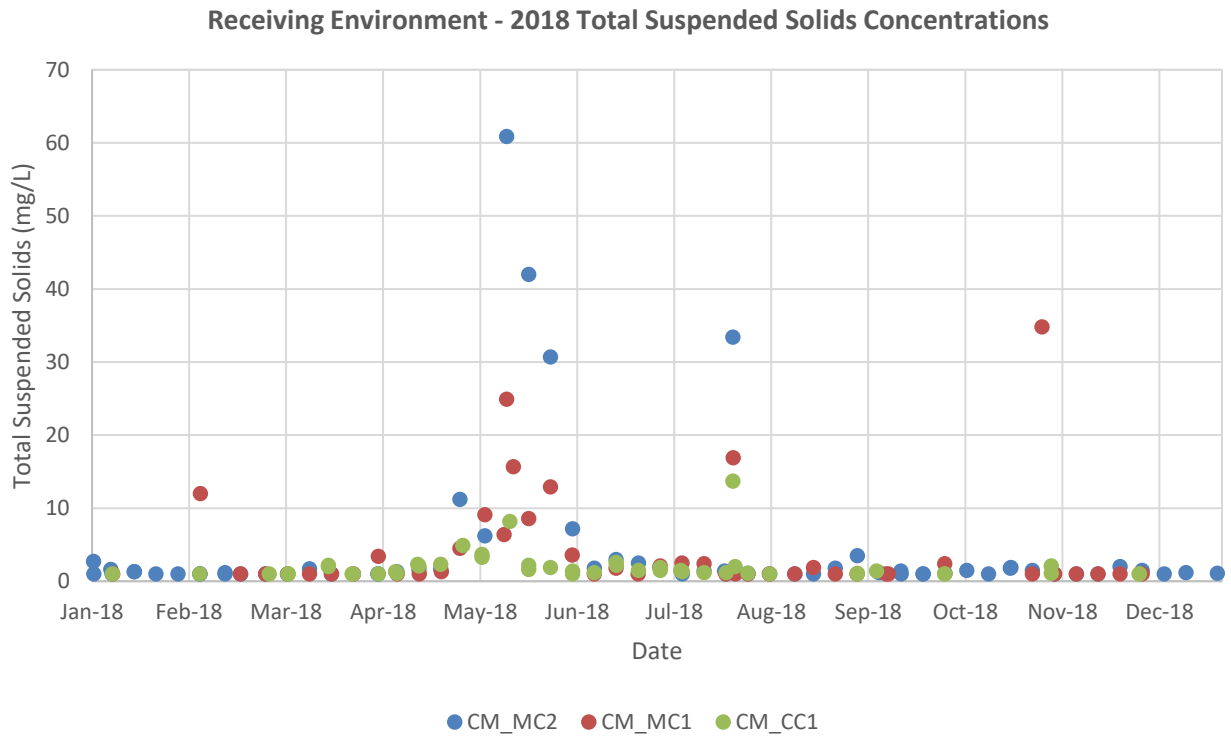

Figure 3: 2018 TSS concentrations - CMO receiving environments

5.1.1.2 Discharge Locations

2018 TSS data for CMO's three discharge locations are presented in Figure 4. In total, 73 samples were collected at the Corbin Sedimentation Pond E206438 (CM_CCPD), 14 at Pengelly Channel Decant E298733 (CM_PC2) and 45 at the Main Interceptor Sedimentation Ponds E102488 (CM_SPD). All samples collected in 2018 were below TSS permit limits (50 mg/L). Additional TSS samples were collected beyond the Permit 4750 monthly and weekly sampling requirements to support ongoing pit pumping requirements (Section 4.1.1). There was zero observable flow at the Pengelly Channel Decant E298733 (CM_PC2) from approximately July 4 until the end of December.

At the Corbin Sedimentation Pond E206438 (CM_CCPD), 19% of the samples (14 of 73) collected were below the TSS detection limit of 1 mg/L and 78% of the samples (11 of 14) collected at the Pengelly Channel Decant E298733 (CM_PC2), and 20% of the samples (9 of 45) collected at the Main Interceptor Sedimentation Ponds E258937 (CM_SPD) were below the TSS detection limit of 1 mg/L.

The following are maximum TSS concentrations recorded in the discharge locations in 2018:

- 18.7 mg/L at Corbin Sedimentation Pond E206438 (CM_CCPD) on March 13;
- 4.2 mg/L at Pengelly Channel Decant E298733 (CM_PC2) on May 7; and
- 28.3 mg/L at Main Interceptor Sedimentation Ponds E258937 (CM_SPD) on July 26.

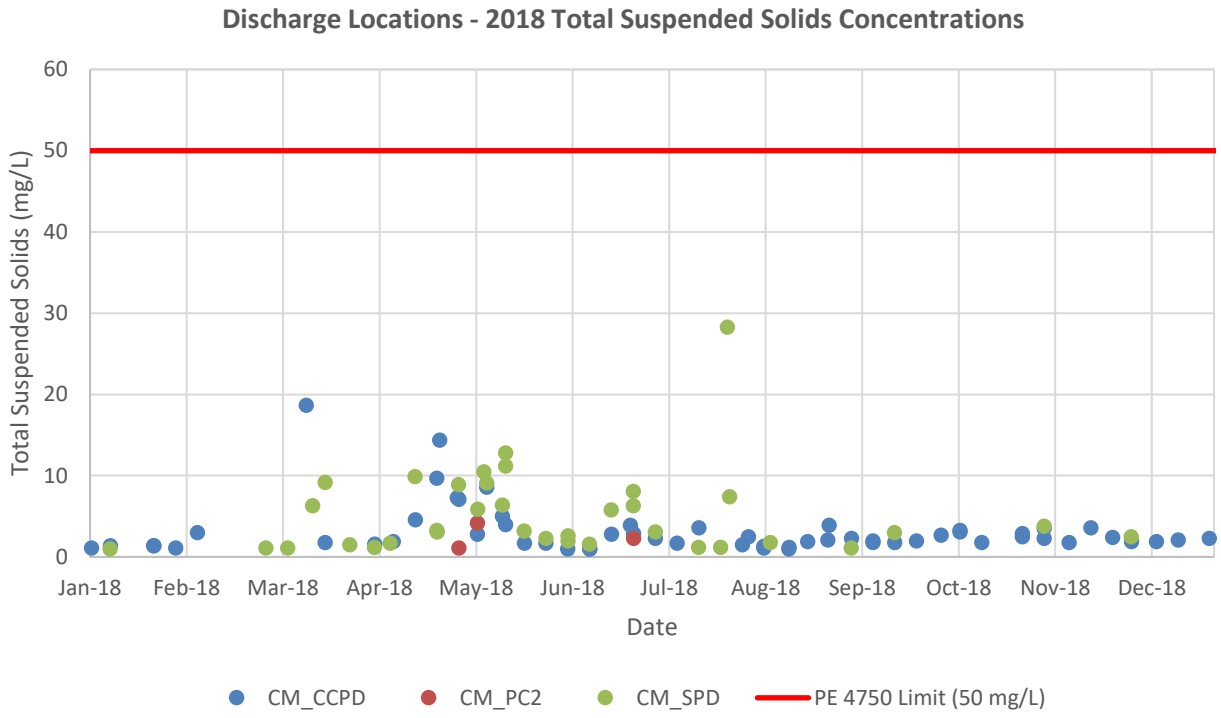

Figure 4: 2018 TSS concentrations - CMO discharge locations

5.1.2 Extractable Petroleum Hydrocarbons

5.1.2.1 Discharge Locations

Extractable Petroleum Hydrocarbons (EPH) concentrations are monitored at discharge locations under Appendix 2A, Table 2, of Permit 4750. Four samples were collected at the Corbin Sedimentation Pond E206438 (CM_CCPD) and the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) each in 2018. All samples collected were below the EPH detection limit of 0.50 mg/L (Figure 5).

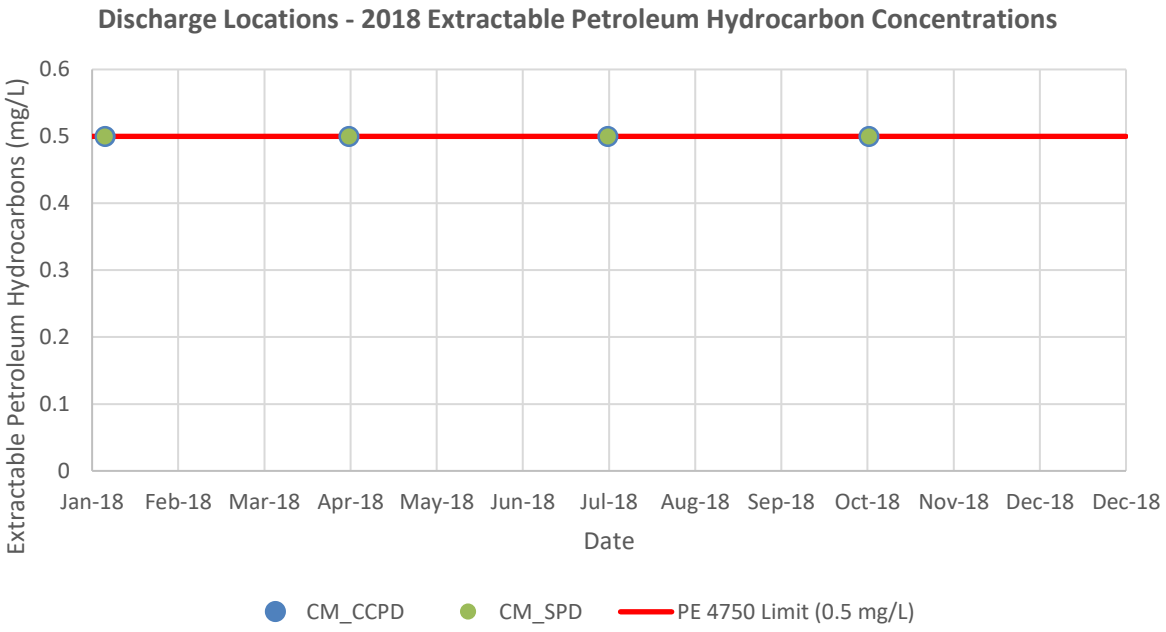

Figure 5: 2018 EPH concentrations - CMO discharge locations

5.1.2.2 Infiltration Sumps

All samples collected at Ammonium Nitrate Prill Silo Sump E306116 (CM_PR-SILO) and Emulsion Shop Sump E306136 (CM_MAX-SHOP) were below the 60 mg/L EPH permit limit (Figure 6).

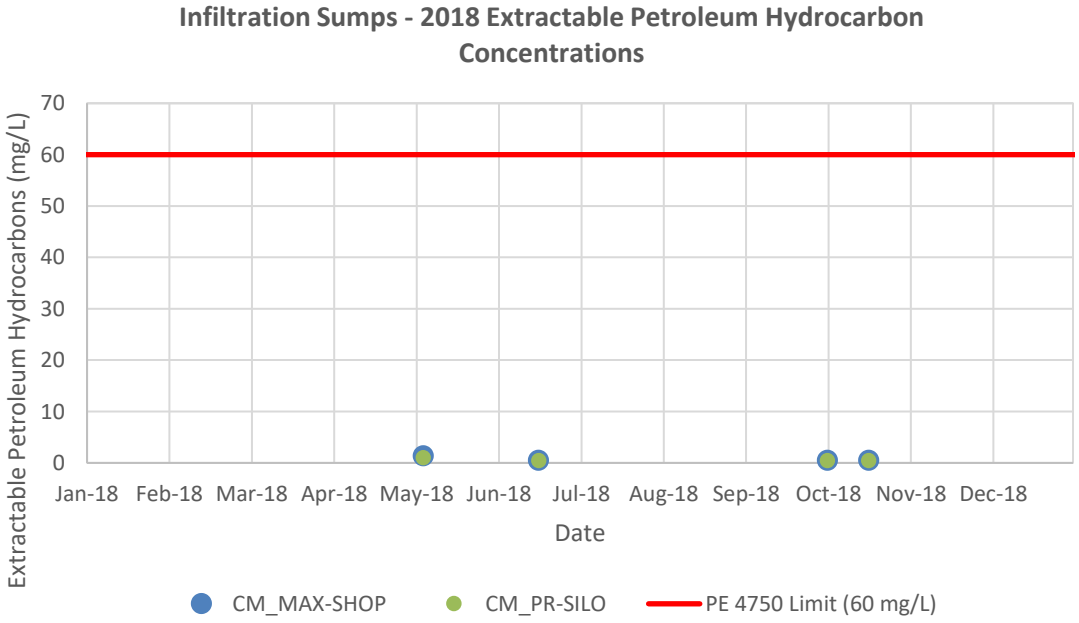

Figure 6: 2018 EPH concentrations - CMO infiltration sumps

5.1.2.3 Maintenance Infiltration Ponds

Eleven samples were collected from CMO's effluent discharge to the Maintenance Infiltration Ponds E206437 (CM_WBE; Figure 7). There was one sample above the 15 mg/L EPH limit with a concentration of 319 mg/L. A summary of this event can be found in Section 2.3 Non-Compliances.

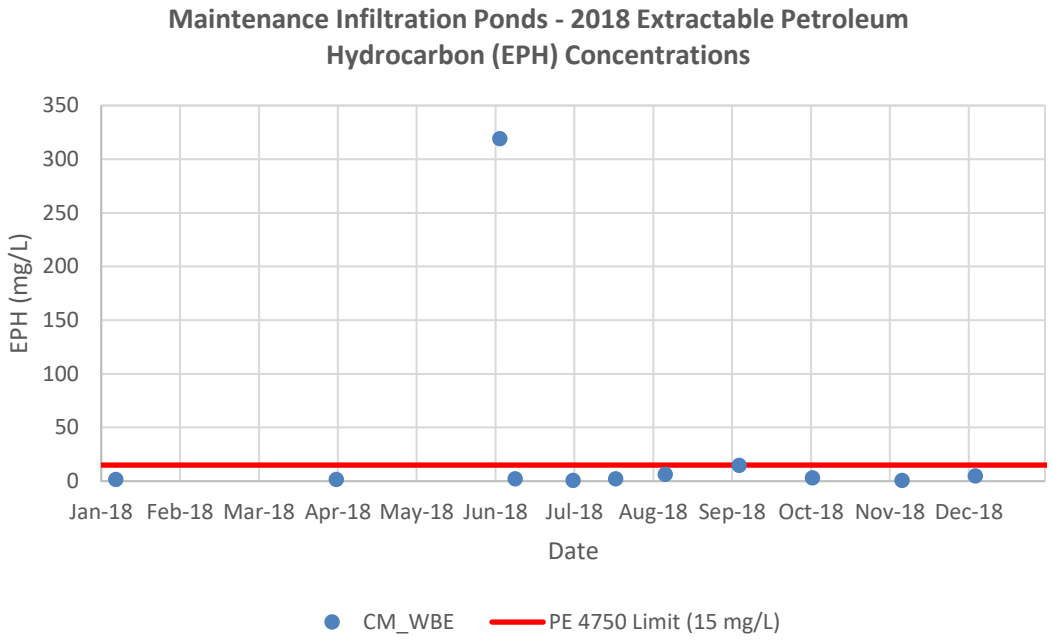

Figure 7: 2018 EPH concentrations - CM_WBE

Reduction of TEH/EPH concentrations can be observed since 2008 at the Maintenance Infiltration Ponds E206437 (CM_WBE), which can be attributed, in part, to improved maintenance practices in the shop and improved management procedures for the oil-water separator. Six exceedances were recorded between 2008-2010, one in 2014, and zero in 2016 and 2017.

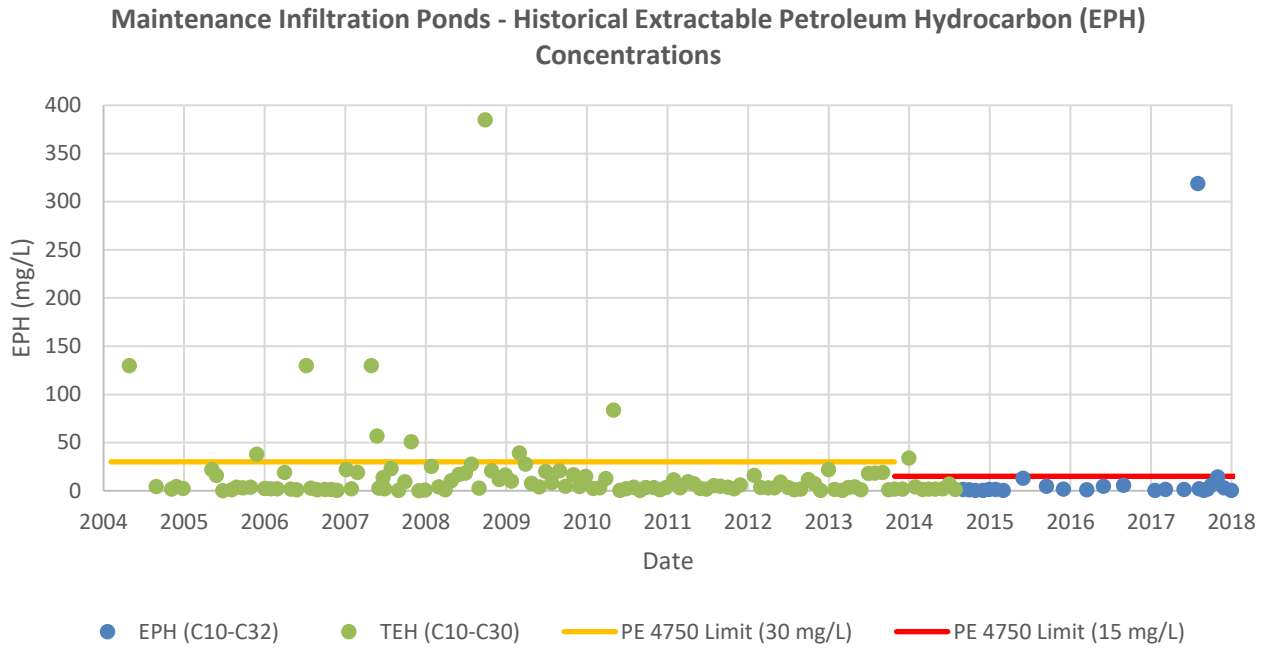

Figure 8: Historical TEH/EPH data - CM_WBE[2]

5.1.3 Sewage Treatment Plant (STP)

Twelve samples were collected at the Sewage Treatment Plant E206439 (CM_SEW) and none exceeded the TSS limit of 30 mg/L (Figure 9); 50% of the samples collected (6 of 12) were below the TSS detection limit of 1 mg/L.

[2] Historically, the Maintenance Infiltration Ponds E206437 (CM_WBE) had a permit limit for total extractable hydrocarbons (TEH) of 30 mg/L. When Permit 4750 was amended in September 2014, the limit for TEH was lowered to 15 mg/L. A new limit of 15 mg/L EPH was implemented for the Maintenance Infiltration Ponds E206437 (CM_WBE) in the June 2015 amendment.

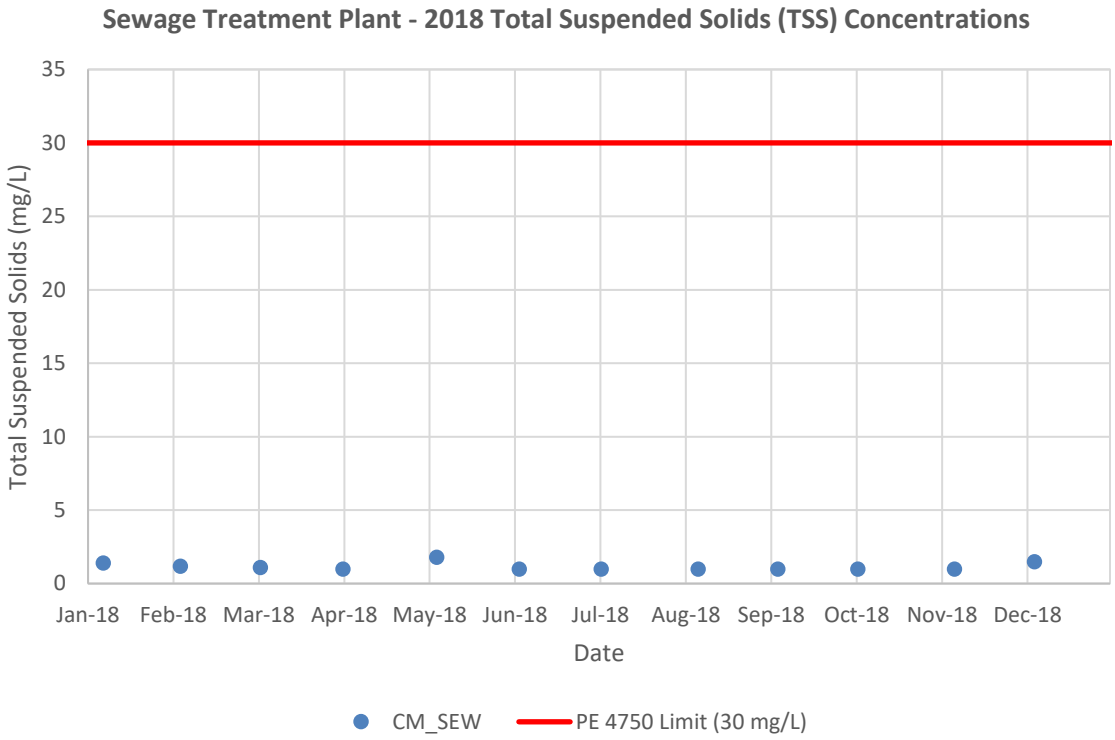

Figure 9: 2018 TSS concentrations - CM_SEW

All 2018 5 Day Biological Oxygen Demand (BOD5) results for the Sewage Treatment Plant E206439 (CM_SEW) were below the 40 mg/L and 20 mg/L (12 month average) permit limits. All samples collected (12 of 12) were below the 2.0 mg/L BOD5 detection limit (Figure 10).

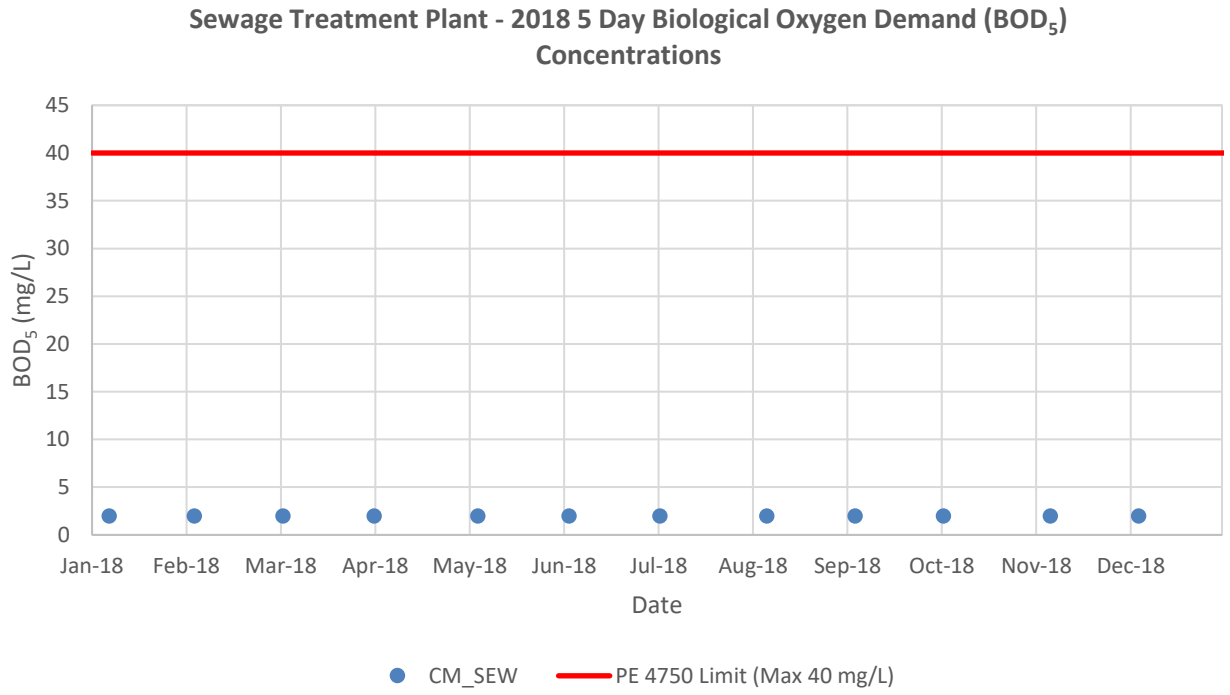

Figure 10: 2018 BOD_5 concentrations - CM_SEW

5.1.3.1 Historical Data (CM_SEW)

TSS and BOD5 concentrations have been trending downwards at the Sewage Treatment Plant E206439 (CM_SEW) since 2007 (Figures 11 and 12). These reductions can mainly be attributed to continual improvement of maintenance practices at the STP. The majority of TSS concentrations recorded since 2013 are below the 1 mg/L detection limit.

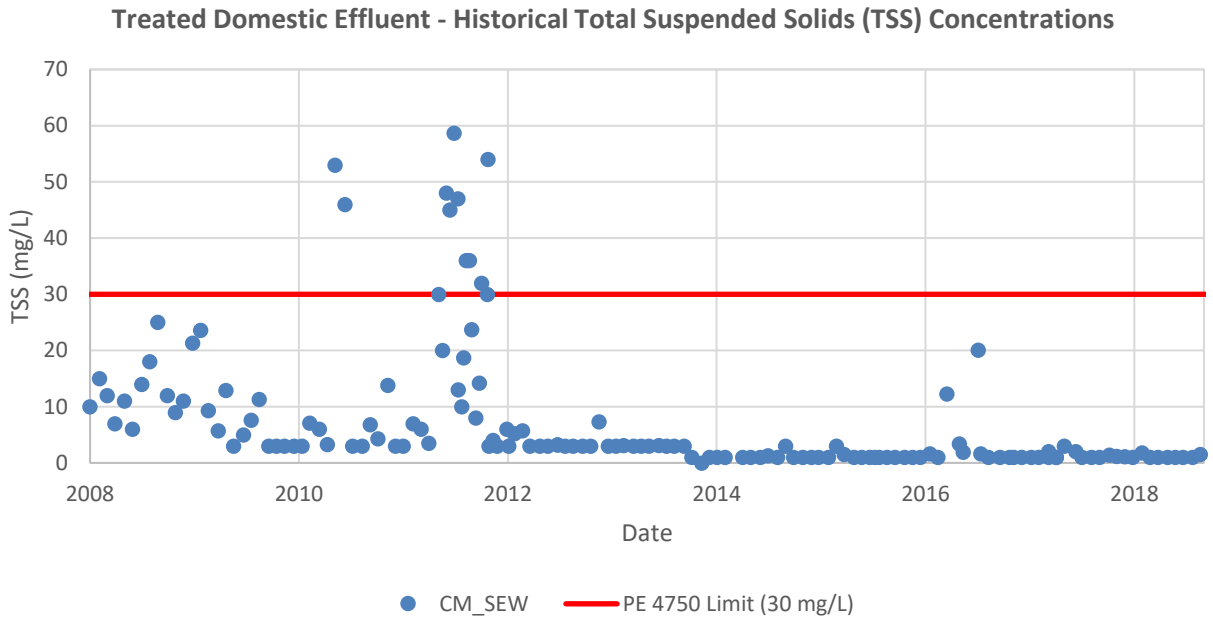

Figure 11: Historical TSS data - CM_SEW

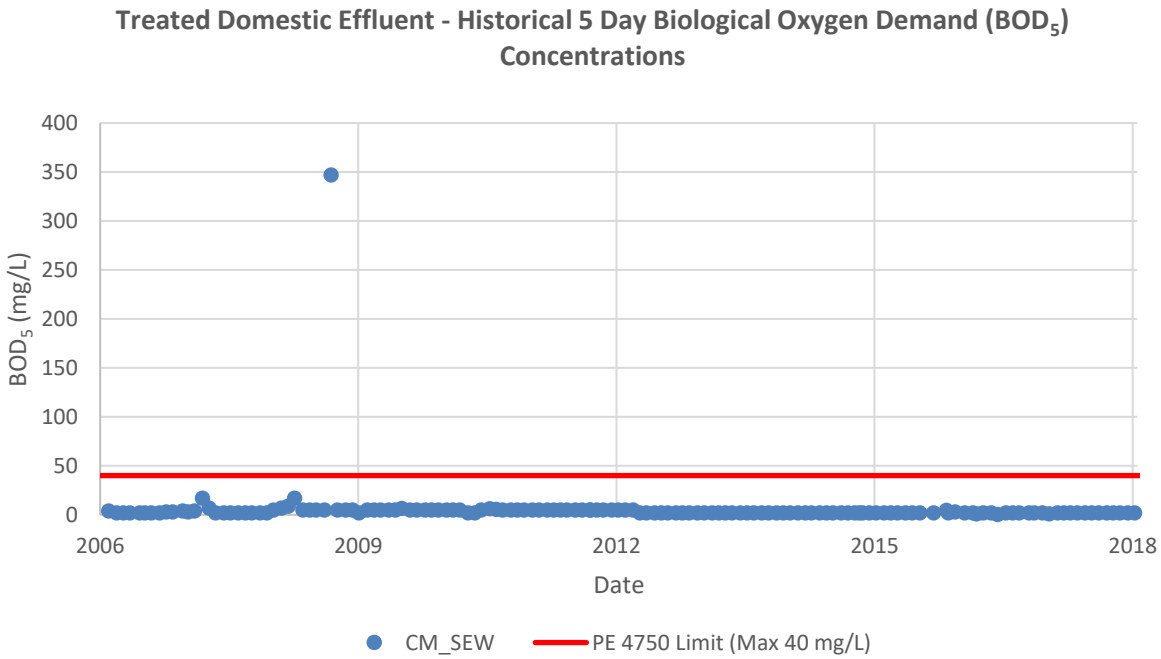

Figure 12: Historical BOD_5 data - CM_SEW

5.2 Water Quantity Results

In this section, flow-monitoring data are presented and compared to permit limits where applicable. The 2018 data are presented in tabular form in Appendix B. Permit 4750 requires flow measurements at all discharge locations.

5.2.1 Receiving Environment (CM_MC1)

In 2018, freshet generally commenced (i.e., flows started to increase) at CMO in mid to late April. Measured peak flow in Michel Creek upstream of Operations E258175 (CM_MC1) was 1.99 m3/s on May 16. The lowest flow recorded occurred on December 19 with measured values of 0.0159 m3/s (Figure 13). Historical flow data from Michel Creek upstream of Operations E258175 (CM_MC1; collected since October 2008) is presented in Figure 14 below.

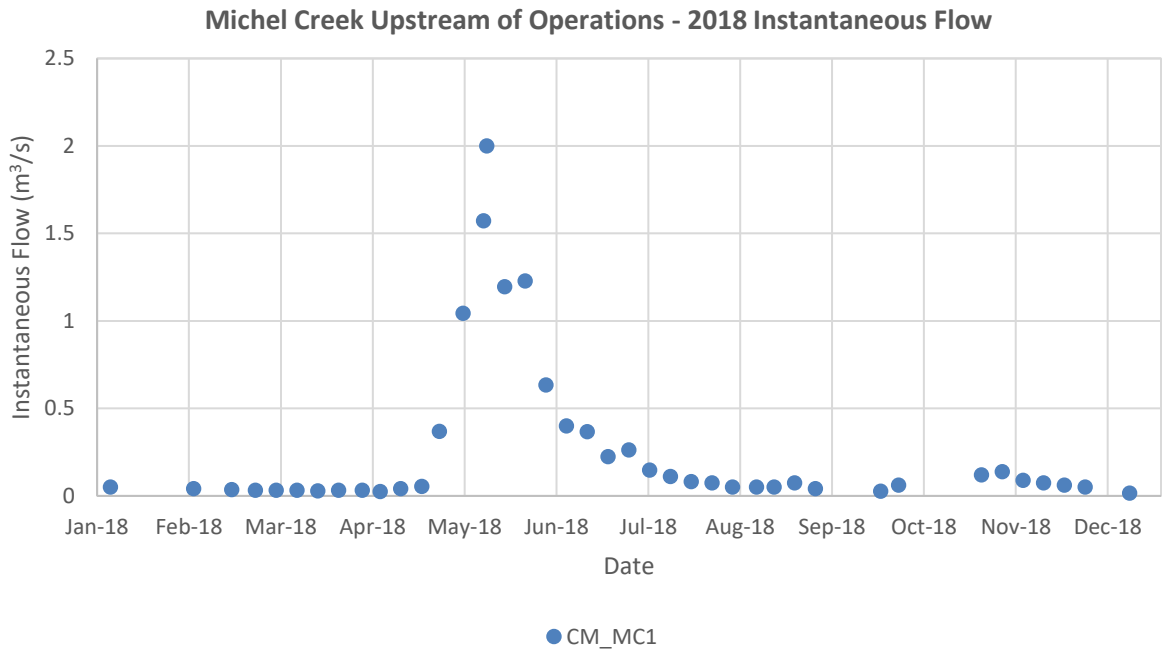

Figure 13: 2018 Instantaneous flow - CM_MC1

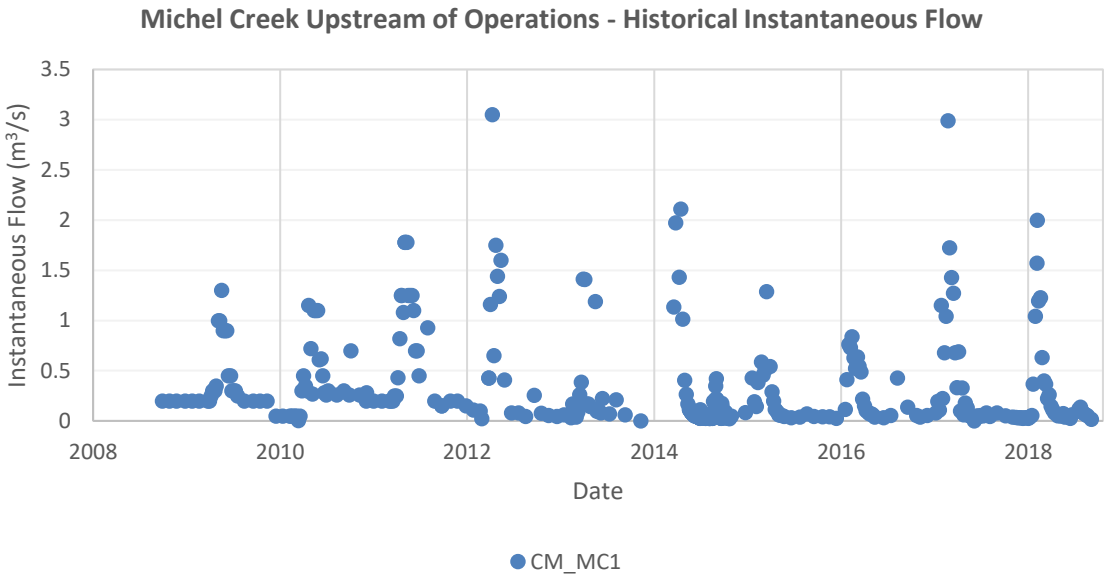

Figure 14: Historical flow data - CM_MC1

5.2.2 Discharge Locations

Measured peak flows for all three stations were well below permitted Q10 discharge rates. Peak flow measurements were as follows: the Corbin Sedimentation Pond E206438 (CM_CCPD) was 1.291 m3/s on May 17 and 18; Pengelly Channel Decent E298733 (CM_PC2) was 0.466 m3/s on May 16 and; the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) was 0.662 m3/s on April 29. Flow data for CMO's three permitted discharge locations are presented in Figures 15 through 17.

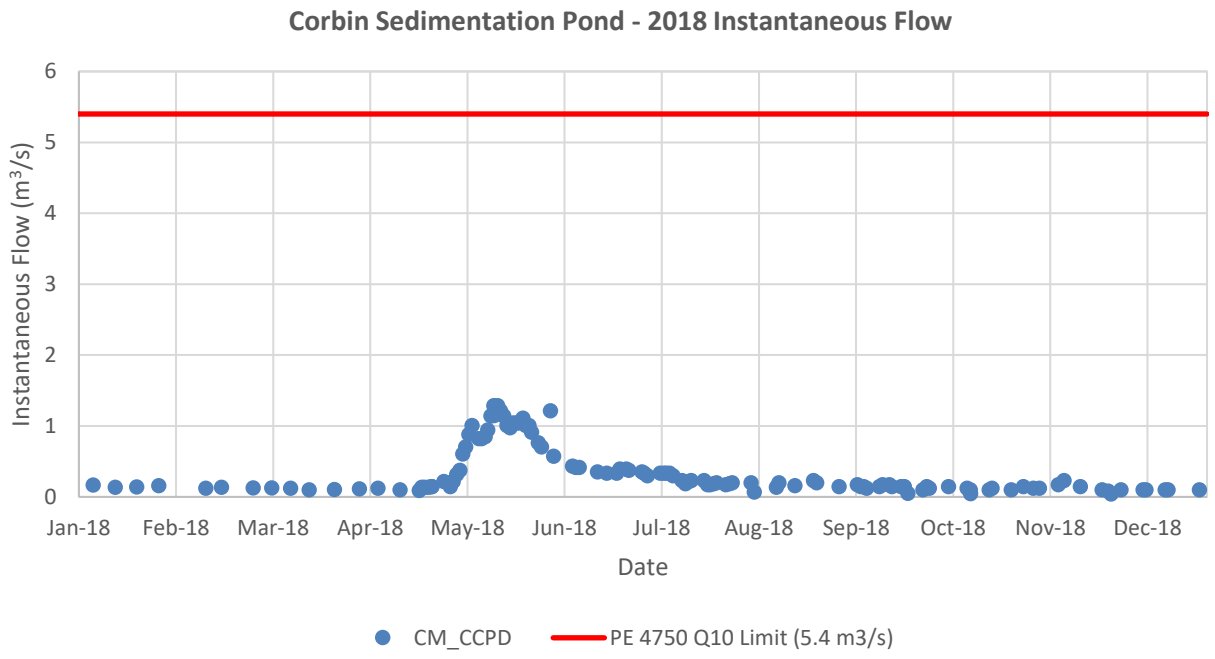

Figure 15: 2018 Instantaneous flow - CM_CCPD

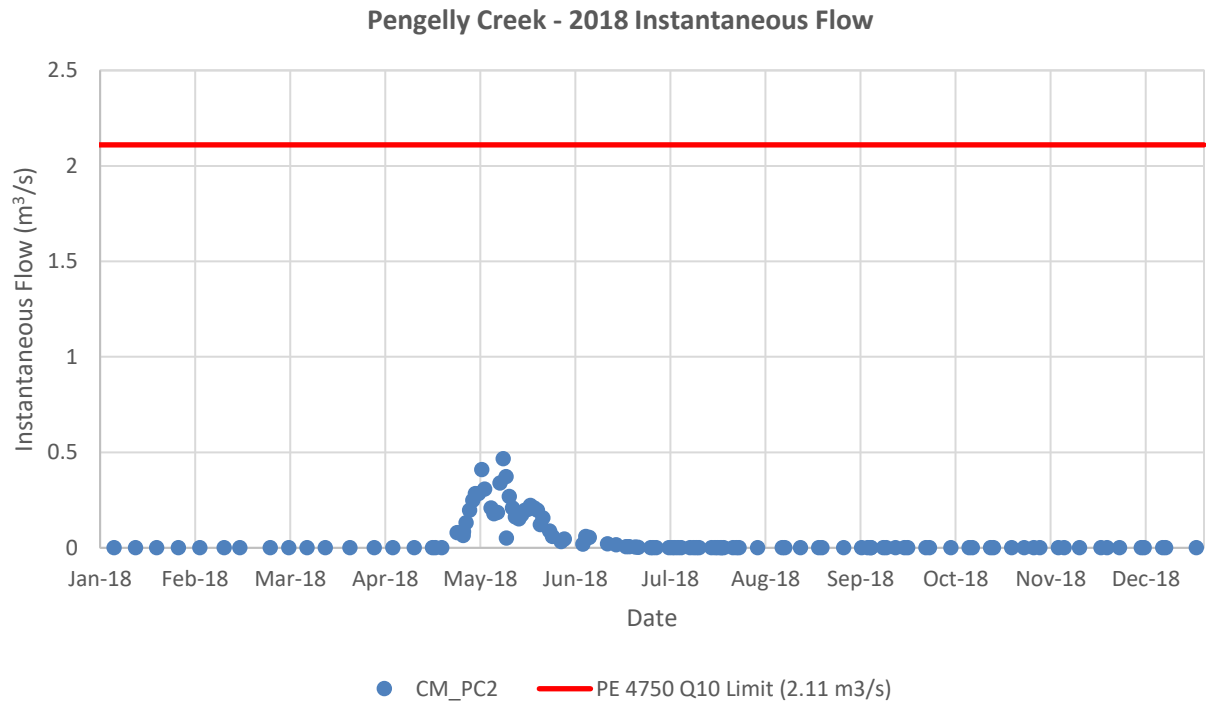

Figure 16: 2018 Instantaneous flow - CM_PC2

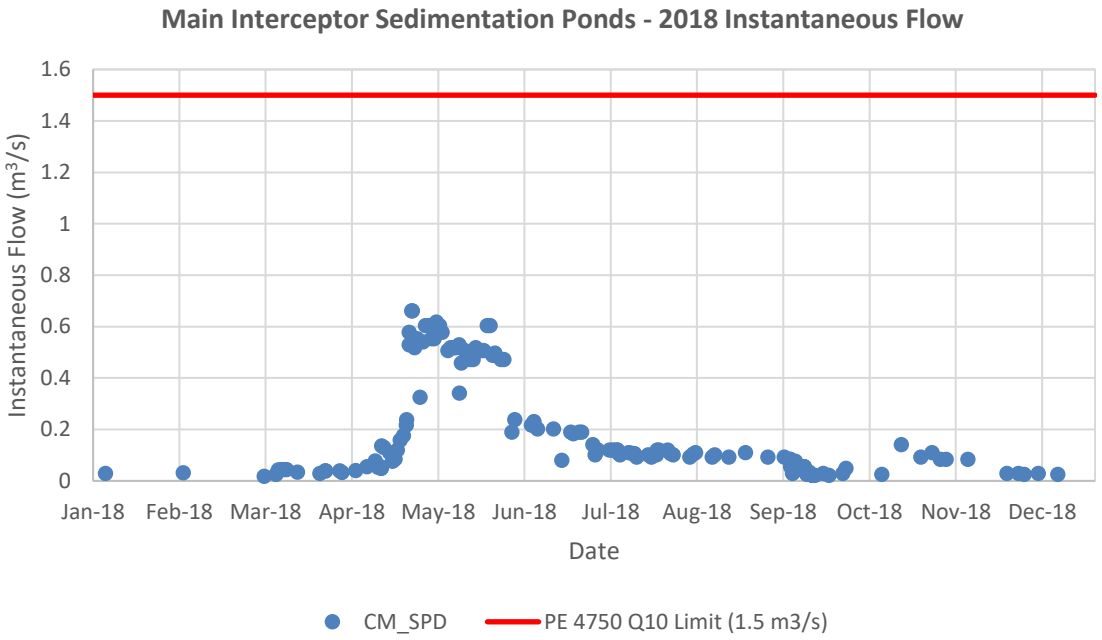

Figure 17: 2018 Instantaneous flow - CM_SPD

5.2.3 Maintenance Infiltration Ponds and Sewage Treatment Plant

Flow data of the Maintenance Infiltration Ponds E206437 (CM_WBE) and the Sewage Treatment Plant E206439 (CM_SEW) are presented in Figures 18 and 19.

In 2018, flow measurements of the Maintenance Infiltration Ponds E206437 (CM_WBE) influent ranged from 0.03 m3/day on December 28 to 47.5 m3/day on September 18. The permit limit of 120 m3/day was not exceeded in 2018.

Flow rates of the Sewage Treatment Plant E206439 (CM_SEW) ranged from 5.64 m3/day on November 5 to 23.03 m3/day on May 7. Measured flows did not exceed the permit limit of 56.8 m3/d in 2018.

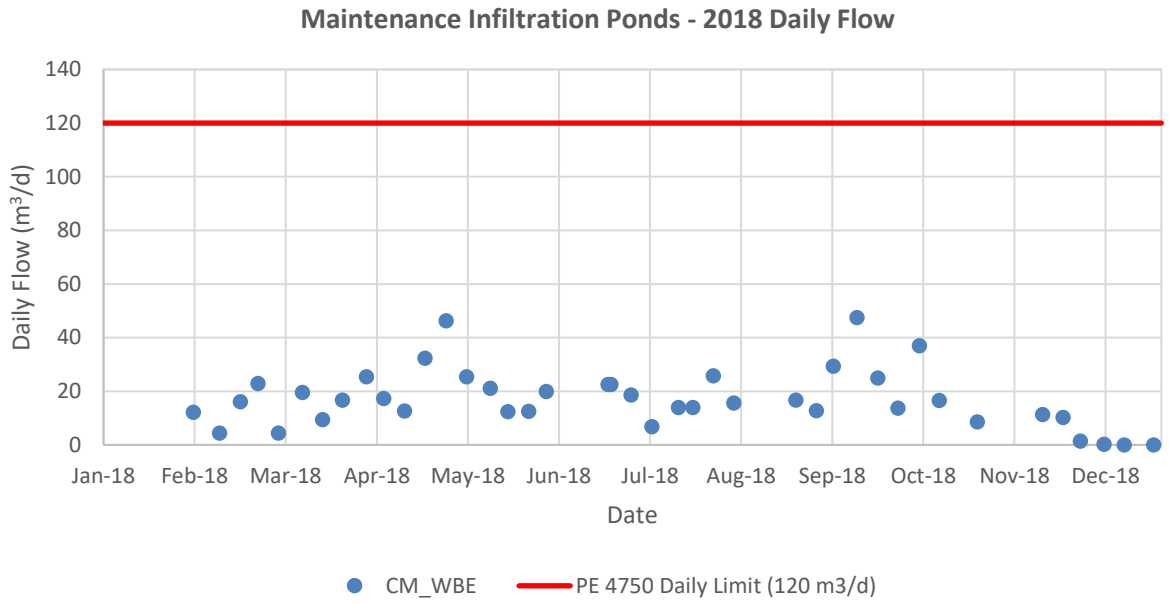

Figure 18: CM_WBE daily flow (m^3/day)

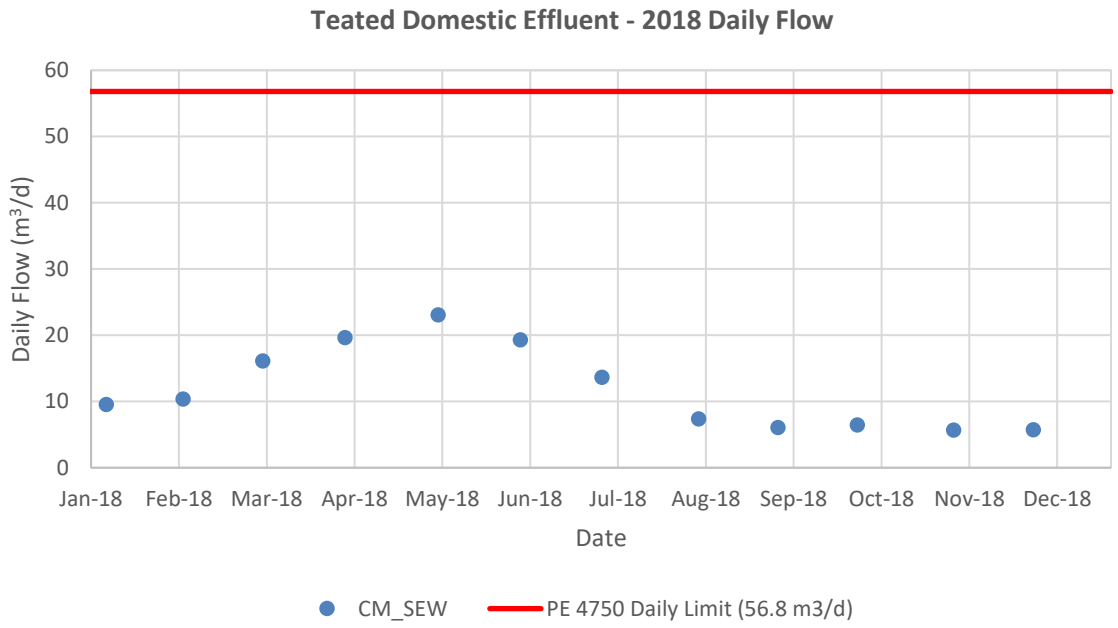

Figure 19: CM_SEW daily flow (m^3/day)

6 Management Plan Summary

6.1 Water Management Plan

Teck has developed a Care and Maintenance Integrated Water Management Plan (IWMP) for CMO, which was submitted December 2017 to the Ministry of Energy, Mines, and Petroleum Resources (EMPR) for review. This plan describes the approach to water management at CMO during the care and maintenance period (planned over the next ten years prior to active closure) and acts as a repository where site information related to water management is centralized.

The overarching water management goals at CMO are to identify and manage water-related risks, maintain compliance with permit limits, and continually improve water quality by reducing sediment and mine-related constituents. The IWMP is to be reviewed annually until site conditions are considered static and then every three years after that, with updates completed as required. A review was completed on December 17, 2018. Results of the review of the IWMP will be included within the CMO Annual Reclamation Report submitted by March 31, 2019.

6.1.1 Pit Pumping Water Management in 2018

In 2018, CMO conducted active dewatering of 34 and 6 Pits as authorized under Section 3.2 of Permit 4750, Pit Pumping Plans.

As required in Section 5.2 (iii) of Permit 4750, total estimated pumping volumes for 2018 were as follows:

- 915 804 m3 from 34 Pit; and
- 725 109.23 m3 from 6 Pit.

6.2 Flocculant Management Plan

In 2018, the North Ditch Flocculant station saw significant continued improvements to the work completed the previous year. The focus in 2018 was to increase automation technologies as well real time system monitoring and alarm notifications. In 2018, two new peristaltic dosing pumps were commissioned, allowing the previous dosing pumps to be utilized as back-up pumps in an effort to create redundancy. An uninterruptible power supply (UPS) was added to bridge the data gap in the event of a power outage to the programmable logic controller (PLC). Back up water level and turbidity sensors were also installed in order to have redundancy in the event of a meter malfunction.

In 2018, CMO dispensed a total of 1,546 L of cationic floc and 229.1 L of anionic floc at the North Ditch Flocculant Station, all in accordance with approved 2015 Flocculant Management Plan (FMP) rates. Flocculant dosing took place over a total duration of 185.9 hours between April 9, 2018 and September 19, 2018. Daily maximum concentrations vary depending on turbidity and flow rate in the North Ditch. All anionic floc is dispensed with water as a 3% anionic floc solution whereas cationic flocculant is dispensed at 100 % concentration or undiluted. Flocculant products used at CMO are cationic CYFLOC™ C-591 and an anionic CYFLOC A-1849RS; both of which are manufactured by Cytec Industries Inc. Figures 20 and 21 show the amount of cationic and anionic flocculant (3 % solution) used per month as well as the duration of flocculant dosing per month. CMO also consumed 20.4 Water Lynx 494 portable flocculant blocks (manufactured by

Clearflow Enviro Systems Group Inc.) in three locations upstream of the Main Interceptor Sedimentation Ponds as well as the West Ditch and Main Pond West (Pond 1) inlet in accordance with the approved FMP.

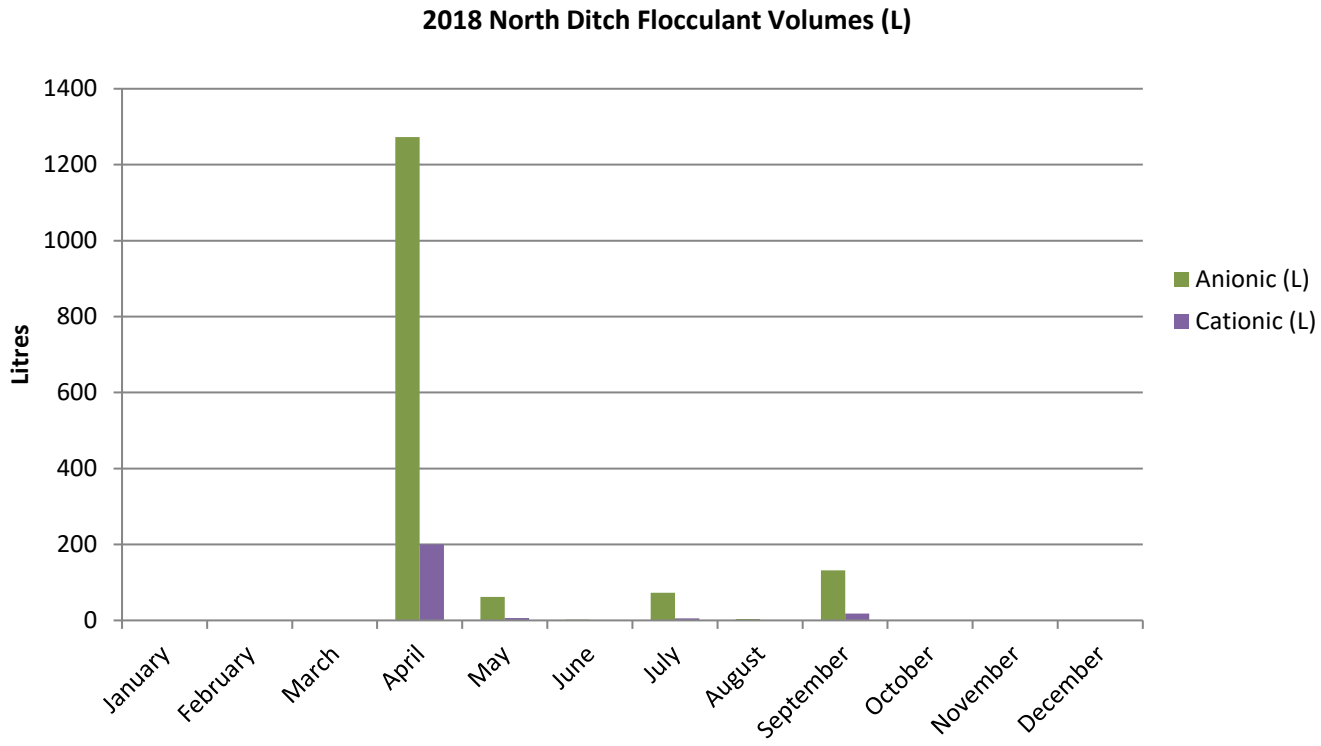

Figure 20: Total volume of flocculant used at North Ditch flocculant station

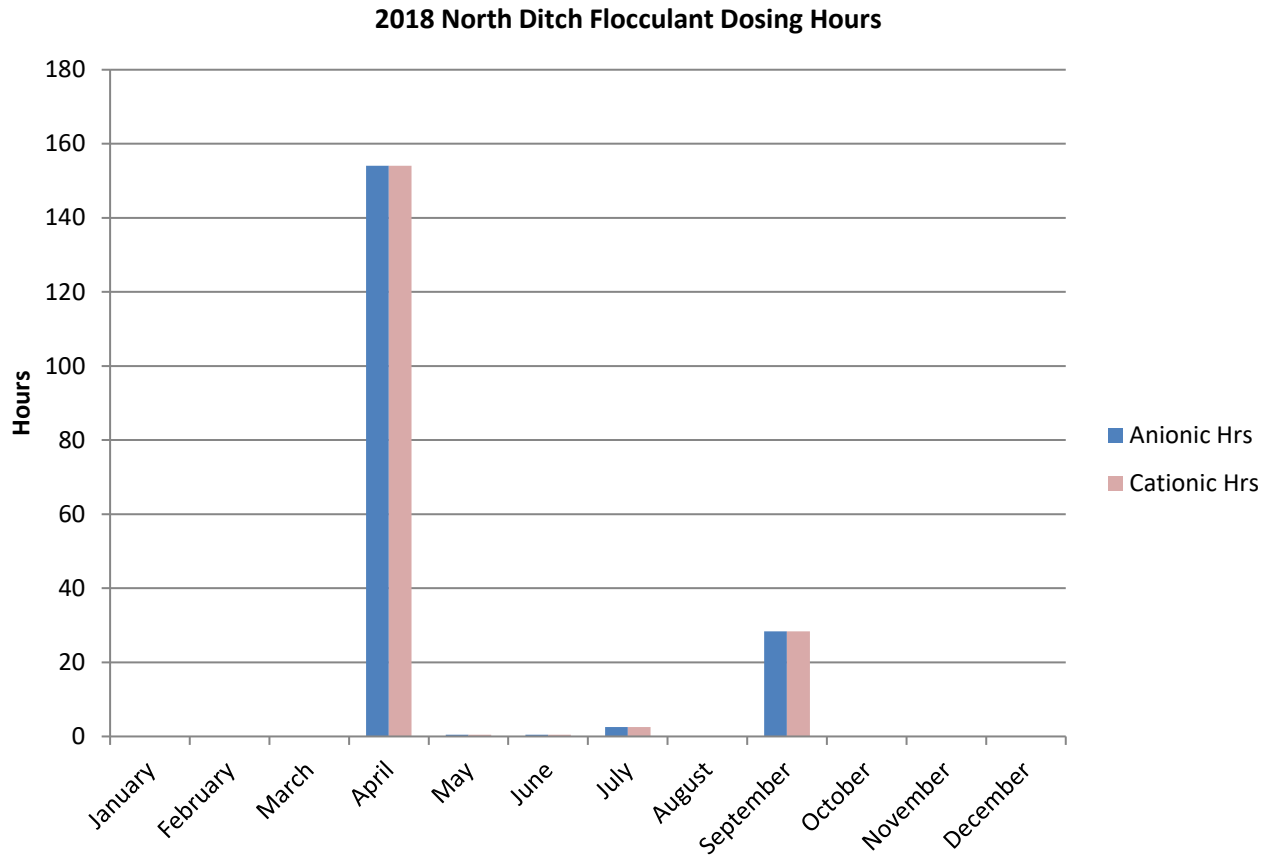

Figure 21: Total duration of flocculant dosing at North Ditch flocculant station

6.3 Emulsion Facilities Water Management Plan

On September 1, 2016 CMO submitted an Emulsion Facilities Water Management Plan (or Plan) to ENV as required under Section 3.5 in Permit 4750.

The Plan describes the approach to water management that avoids or minimizes the release of nitrogen forms (ammonia, nitrogen dioxide, nitrite and nitrate) at each of the areas where CMO stores or handles blasting products:

- Ammonium Nitrate Prill Silo Sump – E306116;
- Emulsion Shop Sump – E306136; and
- Emulsion Silo.

The objective of the Plan is to implement management activities and procedures that reduce the environmental risks associated with surface water runoff from CMO's emulsion facilities. To achieve this objective, the following actions are performed:

- Runoff from the Emulsion Shop and the Ammonium Nitrate Prill Silo areas is directed to infiltration sumps;
- Runoff from the Emulsion Silo storage facility is directed into 34 Pit;
- The facilities are regularly inspected; and
- Contingency plans are prepared.

In August 2016, Ammonium Nitrate Prill Silo sump E306116 (CM_PR-SILO) and Emulsion Shop sump E306136 (CM_MAX-SHOP) were sized to store runoff from a 12 hour Q10 event assuming zero infiltration. Berms were constructed around the infiltration sumps to help capture and retain surface water runoff. Surface water runoff from each facility is directed toward the permitted discharge location.

Section 1.8.1 of Permit 4750 sets a limit of 60 mg/L EPH for the sumps.

All samples collected at Ammonium Nitrate Prill Silo Sump E306116 (CM_PR-SILO) and Emulsion Shop Sump E306136 (CM_MAX-SHOP) were below the 60 mg/L EPH permit limit (Figure 6).

CMO completed its final blasting operation on November 17th, 2017. Since then, Maxam has vacated the Emulsion Shop building and it is no longer being used to service or store blasting products, related equipment or gear. The building is therefore no longer associated with Emulsion product handling. The Emulsion Silo was also decommissioned in October 2017 and is no longer used for storage of emulsion product at CMO. All product within the Ammonium Nitrate Prill Silo has been transferred to another facility and the empty Ammonium Nitrate Prill Silo’s are going to be transferred to another Teck facility.

Since blasting products are no longer stored on site, and all facilities associated with blasting have been decommissioned, CMO has submitted a permit amendment application that includes the request to remove sections 3.3 to 3.7 of Permit 4750.

Water management of existing sumps and drainage around the facilities will be monitored through our existing surface water management monitoring program and included within CMO Care and Maintenance Intergraded Water Management Plan (IWMP).

7 Summary and Conclusions

This report summarizes Teck Coal Limited – Coal Mountain Operations 2018 permitted effluent monitoring program and satisfies the annual reporting requirements for *Environmental Management Act* Permit 4750 (amended April 8, 2016 and July 25, 2016). Requirements for Permit 107517 (originally issued on November 19, 2014) will be detailed in a separate annual report.

In 2018, CMO had 7 incidents related to water, 6 hydrocarbon related spills and 1 non-compliance with Permit 4750. Where possible, corrective and/or preventative actions were implemented to address spills and to prevent re-occurrences.

Consistent with previous years, TSS concentrations and turbidity values were most elevated during freshet and in response to precipitation. TSS concentrations were below the permit limit (50 mg/L) for all samples collected in 2018 across all discharge locations. The Q10 flow rates were not exceeded at Permit 4750 discharge locations throughout 2018.

TSS and BOD_5 concentrations for the Sewage Treatment Plant E206439 (CM_SEW) were below Permit Limits for all monitoring conducted in 2018. Flow rates measured at the Sewage Treatment Plant E206439 (CM_SEW) have continued to decrease as employee numbers decrease at CMO towards the shift to Care and Maintenance activities. The rate of discharge remained below the authorized permit limit for all of 2018.

The Maintenance Infiltration Ponds E206437 (CM_WBE) were below permit limits for all but one sample collected in 2018. EPH results remained below the permit limit of 15 mg/L for 10 of 11 (91%) samples collected in 2018. Measured daily flows were below the permitted authorized discharge limits for all of 2018.

Water management improvements consisted of continued upgrades to the North Ditch Flocculant station, full sediment clean out of the first Maintenance Infiltration Pond E206437 (CM_WBE), and fish salvage work on the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) and the Corbin Sedimentation Pond E206438 (CM_CCPD) such that the ponds and all associated upstream appurtenances can continue to be considered non-fish bearing. The permanent fish barrier added to the Main Interceptor Sedimentation Ponds E102488 (CM_SPD) in 2017 continues to be affective. Additional water management improvements were made in accordance with the Routine Water Infrastructure Maintenance Plan throughout the year on an as needed basis.

The Seven Pit Settling Ponds (SPSPs) were decommissioned in 2017. CMO implemented a number of erosion and sediment control measures in 2018 to reduce surface run-off from the area until vegetation is more fully established. The area has been planted with trees, shrubs, and grasses as well as hydro-seeded in 2018.

Erosion and sediment control measures were implemented in the area of CMO's Quartzite Quarry in 2018. Road drainage improvements and the addition of spring berms were included to help reduce sediment transport associated with runoff due to precipitation. The Quarry has been schedule as a priority area for 2019 Reclamation and the landform design for the area will meet the objectives of the Closure Plan. The interim water control work on the existing road infrastructure included cross ditching and re-sloping to more effectively direct water into ditches and into the quarry pit versus the outside end of the Quarry. A berm was added to protect the edge of the quarry floor where most of 2018 erosion took place. The work completed should significantly reduce the erosion of the pit floor especially through freshet.

8 Appendices

Appendix A - QAQC Data

2018 Field Blank and Duplicate Summary

Analyte	Total Suspended Solids, Lab	Turbidity, Lab
Analytic Method	SM2540D	E180.1
Unit	mg/L	NTU
Date	Result	Result
1/3/2018	< 1.0	< 0.10
1/9/2018	< 1.0	< 0.10
1/16/2018	< 1.0	< 0.10
1/23/2018	< 1.0	< 0.10
1/30/2018	< 1.0	< 0.10
2/6/2018	< 1.0	< 0.10
2/14/2018	< 1.0	< 0.10
2/19/2018	< 1.0	0.17
3/1/2018	< 1.0	< 0.10
3/6/2018	< 1.0	< 0.10
3/13/2018	< 1.0	< 0.10
3/19/2018	< 1.0	< 0.10
3/27/2018	< 1.0	< 0.10
4/4/2018	< 1.0	0.18
4/10/2018	< 1.0	< 0.10
4/17/2018	< 1.0	< 0.10
4/24/2018	< 1.0	< 0.10
5/1/2018	< 1.0	< 0.10
5/7/2018	< 1.0	0.22
5/7/2018	< 1.0	0.26
5/16/2018	< 1.0	< 0.10
5/22/2018	< 1.0	< 0.10
5/29/2018	< 1.0	< 0.10
6/5/2018	< 1.0	< 0.10
6/5/2018	< 1.0	< 0.10
6/12/2018	< 1.0	< 0.10
6/19/2018	< 1.0	< 0.10
6/26/2018	< 1.0	< 0.10

Analyte	Total Suspended Solids, Lab	Turbidity, Lab
Analytic Method	SM2540D	E180.1
Unit	mg/L	NTU
Date	Result	Result
7/3/2018	< 1.0	< 0.10
7/3/2018	< 1.0	< 0.10
7/10/2018	< 1.0	0.12
7/17/2018	< 1.0	0.10
7/24/2018	< 1.0	< 0.10
7/31/2018	< 1.0	< 0.10
8/7/2018	< 1.0	< 0.10
8/15/2018	< 1.0	< 0.10
8/21/2018	< 1.0	0.23
8/28/2018	< 1.0	0.26
9/4/2018	< 1.0	< 0.10
9/4/2018	< 1.0	< 0.10
9/11/2018	< 1.0	< 0.10
9/18/2018	< 1.0	< 0.10
9/25/2018	< 1.0	< 0.10
10/2/2018	< 1.0	< 0.10
10/2/2018	< 1.0	< 0.10
10/9/2018	< 1.0	< 0.10
10/16/2018	4.4	< 0.10
10/23/2018	< 1.0	< 0.10
10/29/2018	< 1.0	< 0.10
11/5/2018	< 1.0	< 0.10
11/5/2018	< 1.0	< 0.10
11/13/2018	< 1.0	< 0.10
11/20/2018	< 1.0	0.19
11/27/2018	< 1.0	< 0.10
12/3/2018	< 1.0	< 0.10
12/3/2018	< 1.0	< 0.10
12/11/2018	< 1.0	< 0.10
12/18/2018	< 1.0	0.42
12/28/2018	< 1.0	< 0.10

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_AHC_2018-12-11_N	CM_NNP_AHC_2018-12-11_N
Date Sampled:	12/11/2018	12/11/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.3	1.7	26.67%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.68	0.59	14.17%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_AHC_2018-12-18_N	CM_NNP_AHC_2018-12-18_N
Date Sampled:	12/18/2018	12/18/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.4	3.5	37.29%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.95	0.78	19.65%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_AHC_2018-12-25_N	CM_NNP_AHC_2018-12-25_N
Date Sampled:	12/28/2018	12/28/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1

TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.3	2.6	23.73%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.39	0.3	26.09%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_WKLY_WS_20180219_N	CM_NNP_WKLY_WS_20180219_N
Date Sampled:	2/19/2018	2/19/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.65	0.7	7.41%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_WKLY_WS_20180313_N	CM_NNP_WKLY_WS_20180313_N
Date Sampled:	3/13/2018	3/13/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.52	1.47	3.34%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_WKLY_WS_20180821_N	CM_NNP_WKLY_WS_20180821_N
Date Sampled:	8/21/2018	8/21/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.9	<0.5	116.67%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.67	0.51	27.12%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_WKLY_WS_20181016_N	CM_NNP_WKLY_WS_20181016_N
Date Sampled:	10/16/2018	10/16/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.3	<0.5	147.37%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.33	0.32	3.08%	Pass

Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
Sample ID:	CM_14PIT-PIPE_WKLY_WS_20181113_N	CM_NNP_WKLY_WS_20181113_N
Date Sampled:	11/13/2018	11/13/2018

	Sample Type:	Primary	Secondary

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	1.3	88.89%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.32	0.33	3.08%	Pass

	Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
	Sample ID:	CM_14PIT-PIPE_WKLY_WS_20181120_N	CM_NNP_WKLY_WS_20181120_N
	Date Sampled:	11/20/2018	11/20/2018
	Sample Type:	Primary	Secondary

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.9	1.4	30.30%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.49	0.3	48.10%	Pass-1

	Location:	CM_14PIT-PIPE	CM_14PIT-PIPE
	Sample ID:	CM_14PIT-PIPE_WKLY_WS_20181127_N	CM_NNP_WKLY_WS_20181127_N
	Date Sampled:	11/27/2018	11/27/2018
	Sample Type:	Primary	Secondary

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.4	2.2	8.70%	Pass

TURBIDITY, LAB	0.1	0.1	ntu	0.33	0.53	46.51%	Pass-1

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180313_N	CM_NNP_WKLY_WS_20180320_N
Date Sampled:	3/19/2018	3/19/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.0	2.2	9.52%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	2.40	2.6	8.00%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180327_N	CM_NNP_WKLY_WS_20180327_N
Date Sampled:	3/27/2018	3/27/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.76	0.74	2.67%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180410_N	CM_NNP_WKLY_WS_20180410_N
Date Sampled:	4/10/2018	4/10/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.1	1.3	16.67%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.58	0.66	12.90%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180417_N	CM_NNP_WKLY_WS_20180417_N
Date Sampled:	4/17/2018	4/17/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.1	2.3	9.09%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	4.03	4.02	0.25%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180522_N	CM_NNP_WKLY_WS_20180522_N
Date Sampled:	5/22/2018	5/22/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1

TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.2	1.6	31.58%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.49	1.46	2.03%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180619_N	CM_NNP_WKLY_WS_20180619_N
Date Sampled:	6/19/2018	6/19/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.6	2.2	16.67%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.40	1.16	18.75%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WKLY_WS_20180710_N	CM_NNP_WKLY_WS_20180710_N
Date Sampled:	7/10/2018	7/10/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.3	1.5	14.29%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.35	1.13	17.74%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-03-06_N	CM_NNP_WS_2018-03-06_N
Date Sampled:	3/6/2018	3/6/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.26	267	199.61%	Pass-1

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-05-01_N	CM_NNP_WS_2018-05-01_N
Date Sampled:	5/7/2018	5/7/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.3	3.7	11.43%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	12.5	10.4	18.34%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-06-05_N	CM_NNP_WS_2018-06-05_N
Date Sampled:	6/5/2018	6/5/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.0	1.4	33.33%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.20	1.3	8.00%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-07-02_N	CM_NNP2_WS_2018-07-02_N
Date Sampled:	7/3/2018	7/3/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.9	1.5	23.53%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.86	1.68	10.17%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-09-04_N	CM_NNP_WS_2018-09-04_N
Date Sampled:	9/4/2018	9/4/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	1.1	75.00%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.69	0.67	2.94%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-10-01_N	CM_NNP_WS_2018-10-01_N
Date Sampled:	10/2/2018	10/2/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.66	0.54	20.00%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-11-06_N	CM_NNP_WS_2018-11-06_N
Date Sampled:	11/5/2018	11/5/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.1	1.1	62.50%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.41	1.39	1.43%	Pass

Location:	CM_CC1	CM_CC1
Sample ID:	CM_CC1_WS_2018-12-04_N	CM_NNP2_WS_2018-12-04_N

Date Sampled:	12/3/2018	12/3/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.46	0.47	2.15%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180123_N	CM_NNP_WKLY_WS_20180123_FD
Date Sampled:	1/23/2018	1/23/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.4	1.4	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	2.68	2.51	6.55%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180130_N	CM_NNP_WKLY_WS_20180130_FD
Date Sampled:	1/30/2018	1/30/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1

TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.1	<0.5	75.00%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.99	1.81	9.47%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180301_N	CM_NNP_WKLY_WS_20180301_N
Date Sampled:	3/1/2018	3/1/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.73	0.71	2.78%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180501_N	CM_NNP_WKLY_WS_20180501_N
Date Sampled:	5/1/2018	5/1/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	7.1	7.3	2.78%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	6.92	9.12	27.43%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180529_N	CM_NNP_WKLY_WS_20180529_N
Date Sampled:	5/29/2018	5/29/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.7	<0.5	109.09%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.82	1.88	3.24%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180612_N	CM_NNP_WKLY_WS_20180612_N
Date Sampled:	6/12/2018	6/12/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.0	1	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.79	1.47	19.63%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180815_N	CM_NNP_WKLY_WS_20180815_N
Date Sampled:	8/15/2018	8/15/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.2	1	18.18%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.89	0.92	3.31%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180828_N	CM_NNP_WKLY_WS_20180828_N
Date Sampled:	8/28/2018	8/28/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.9	2.1	60.00%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	2.64	1.89	**33.11%**	Fail

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20180911_N	CM_NNP_WKLY_WS_20180911_N
Date Sampled:	9/11/2018	9/11/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.8	2	10.53%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.56	1.55	0.64%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20181009_N	CM_NNP_WKLY_WS_20181009_N
Date Sampled:	10/9/2018	10/9/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.1	3.3	6.25%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	2.11	2.15	1.88%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WKLY_WS_20181030_N	CM_NNP_WKLY_WS_20181030_N
Date Sampled:	10/29/2018	10/29/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.5	2.9	14.81%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	3.52	3.18	10.15%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WS_2018-08-07_N	CM_NNP2_WS_2018-08-07_N

Date Sampled:	8/7/2018	8/7/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.3	1.1	16.67%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.83	0.75	10.13%	Pass

Location:	CM_CCPD	CM_CCPD
Sample ID:	CM_CCPD_WS_2018-11-06_N	CM_NNP2_WS_2018-11-06_N
Date Sampled:	11/5/2018	11/5/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.5	2.3	41.38%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	3.04	2.91	4.37%	Pass

Location:	CM_MC1	CM_MC1
Sample ID:	CM_MC1_WS_2018-07-02_N	CM_NNP_WS_2018-07-02_N
Date Sampled:	7/3/2018	7/3/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1

TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.1	1.9	10.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	24.0	0.74	**188.04%**	Fail

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180103_N	CM_NNP_WKLY_WS_20180103_FD
Date Sampled:	1/3/2018	1/3/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.7	<0.5	137.50%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.47	0.58	20.95%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180116_N	CM_NNP_WKLY_WS_20180116_FD
Date Sampled:	1/16/2018	1/16/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.3	1.3	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.75	0.69	8.33%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180214_N	CM_NNP_WKLY_WS_20180214_N
Date Sampled:	2/14/2018	2/14/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.0	1.2	18.18%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.25	0.28	11.32%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180724_N	CM_NNP_WKLY_WS_20180724_N
Date Sampled:	7/24/2018	7/24/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	1.4	94.74%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.44	0.46	4.44%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180731_N	CM_NNP_WKLY_WS_20180731_N
Date Sampled:	7/31/2018	7/31/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	1.1	75.00%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.25	0.5	66.67%	Pass-1

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180918_N	CM_NNP_WKLY_WS_20180918_N
Date Sampled:	9/18/2018	9/18/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.4	<0.5	94.74%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.58	0.59	1.71%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20180925_N	CM_NNP_WKLY_WS_20180925_N
Date Sampled:	9/25/2018	9/25/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.50	0.43	15.05%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WKLY_WS_20181023_N	CM_NNP_WKLY_WS_20181023_N
Date Sampled:	10/23/2018	10/23/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.8	1.9	5.41%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.19	0.57	**70.45%**	Fail

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WS_2018-01-01_N	WS_2018-01-01_007
Date Sampled:	1/9/2018	1/9/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.0	1.6	46.15%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.44	0.53	18.56%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WS_2018-02-07_N	WS_2018-02-07_052

Date Sampled:	2/6/2018	2/6/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	0.32	0.4	22.22%	Pass

Location:	CM_MC2	CM_MC2
Sample ID:	CM_MC2_WS_2018-04-02_N	CM_NNP_WS_2018-04-02_N
Date Sampled:	4/4/2018	4/4/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.02	0.84	19.35%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WKLY_WS_20180424_N	CM_NNP_WKLY_WS_20180424_N
Date Sampled:	4/24/2018	4/24/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1

TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	3.3	3.1	6.25%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	4.18	3.35	22.05%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WKLY_WS_20180516_N	CM_NNP_WKLY_WS_20180516_N
Date Sampled:	5/16/2018	5/16/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	12.8	11.2	13.33%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	15.5	14	10.17%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WKLY_WS_20180626_N	CM_NNP_WKLY_WS_20180626_N
Date Sampled:	6/26/2018	6/26/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	8.1	6.3	25.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	4.63	2.51	**59.38%**	Fail

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WKLY_WS_20180717_N	CM_NNP_WKLY_WS_20180717_N
Date Sampled:	7/17/2018	7/17/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	1.2	<0.5	82.35%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.28	1.11	14.23%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WS_2018-06-05_N	CM_NNP2_WS_2018-06-05_N
Date Sampled:	6/5/2018	6/5/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.6	2	26.09%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	2.82	2.82	0.00%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WS_2018-09-04_N	CM_NNP2_WS_2018-09-04_N
Date Sampled:	9/4/2018	9/4/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	1.1	75.00%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	0.53	1.27	82.22%	Pass-1

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WS_2018-10-01_N	CM_NNP2_WS_2018-10-01_N
Date Sampled:	10/2/2018	10/2/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	<0.50	<0.5	0.00%	Pass
TURBIDITY, LAB	0.1	0.1	ntu	1.06	1.08	1.87%	Pass

Location:	CM_SPD	CM_SPD
Sample ID:	CM_SPD_WS_2018-12-04_N	CM_NNP_WS_2018-12-04_N
Date Sampled:	12/3/2018	12/3/2018
Sample Type:	**Primary**	**Secondary**

Analyte	Detection Limit Pri.	Detection Limit Dup.	Units			Primary vs. Duplicate	Category1
TOTAL SUSPENDED SOLIDS, LAB	1	1	mg/l	2.5	<0.5	133.33%	Pass-1
TURBIDITY, LAB	0.1	0.1	ntu	1.56	1.09	35.47%	Pass-2

RPD Control Limits
Pass - RPD <= 30%
Pass-1 - RPD > 30%, Analysis results < 10 times Detection Limit
Pass-2 - RPD > 30% and RPD <= 50%, Analysis result > 10 times Detection Limit and < 20 times Detection Limit
Exceeds RPD Control Limits

Appendix B - 2018 Monitoring Data

2018 Flow Data (m^3/s) – Discharge Locations

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
1/3/2018	0.149		
1/3/2018		0	
1/9/2018			0.0297642
1/9/2018	0.171871		
1/9/2018		0	
1/16/2018	0.136277		
1/16/2018		0	
1/23/2018	0.144		
1/23/2018		0	
1/30/2018	0.161		
1/30/2018		0	
2/6/2018			0.031962
2/6/2018		0	
2/14/2018	0.124573		
2/14/2018		0	
2/19/2018	0.136277		
2/19/2018		0	
3/1/2018	0.126872		
3/1/2018		0	
3/7/2018			0.018814
3/7/2018	0.126872		
3/7/2018		0	
3/11/2018			0.025648
3/12/2018			0.043308
3/13/2018	0.124573		
3/13/2018		0	
3/13/2018			0.044394
3/14/2018			0.044394
3/15/2018			0.044394
3/19/2018			0.034254
3/19/2018	0.102757		
3/19/2018		0	
3/27/2018			0.030196
3/27/2018	0.106951		
3/27/2018		0	
3/29/2018			0.039127
3/29/2018			0.039127
4/3/2018			0.039127
4/4/2018			0.0333254

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
4/4/2018	0.1134		
4/4/2018		0	
4/9/2018			0.041186
4/10/2018	0.122296		
4/10/2018		0	
4/13/2018			0.056149
4/16/2018			0.077743
4/17/2018			0.053054
4/17/2018	0.102757		
4/17/2018		0	
4/18/2018			0.056149
4/18/2018			0.050064
4/18/2018			0.050064
4/18/2018			0.136348
4/19/2018			0.131051
4/21/2018			0.111109
4/22/2018			0.076981
4/23/2018		0	
4/23/2018			0.085623
4/23/2018	0.092643		
4/24/2018			0.120833
4/24/2018	0.136277		
4/24/2018		0	
4/25/2018	0.136277		
4/25/2018			0.158808
4/26/2018			0.177018
4/26/2018		0	
4/26/2018	0.136277		
4/27/2018	0.148511		
4/27/2018			0.217058
4/27/2018			0.238939
4/27/2018	0.148511		
4/28/2018			0.529576
4/28/2018			0.578104
4/29/2018			0.662359
4/29/2018			0.662359
4/30/2018			0.518573
5/1/2018			0.552985
5/1/2018	0.217659		
5/1/2018		0.079858	
5/2/2018			0.3259
5/3/2018		0.064	
5/3/2018			0.541056

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
5/3/2018	0.146712		
5/3/2018	0.202764		
5/3/2018		0.083562	
5/4/2018			0.604782
5/4/2018		0.130693	
5/4/2018	0.217659		
5/5/2018	0.3182		
5/5/2018		0.196	
5/5/2018			0.6048
5/6/2018	0.3757		
5/6/2018		0.2479	
5/6/2018			0.553
5/7/2018	0.6074		
5/7/2018		0.2839	
5/7/2018			0.553
5/8/2018			0.6187
5/8/2018	0.708		
5/8/2018		0.2839	
5/9/2018	0.8828		
5/9/2018		0.4087	
5/9/2018			0.6048
5/10/2018			0.5781
5/10/2018	1.0101		
5/10/2018		0.3068	
5/12/2018			0.5081
5/12/2018	0.8224		
5/12/2018		0.2083	
5/13/2018		0.1783	
5/13/2018	0.8224		
5/13/2018			0.5186
5/14/2018		0.1841	
5/14/2018	0.8523		
5/14/2018			0.5186
5/15/2018			0.5186
5/15/2018	0.9454		
5/15/2018		0.339	
5/16/2018			0.5296
5/16/2018		0.4658	
5/16/2018	1.1461		
5/16/2018			0.342
5/17/2018			0.4592
5/17/2018		0.3729	
5/17/2018	1.2907		

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
5/17/2018	1.15		
5/17/2018		0.05	
5/18/2018		0.2692	
5/18/2018			0.5081
5/18/2018	1.2907		
5/19/2018		0.2083	
5/19/2018	1.2173		
5/19/2018			0.4888
5/20/2018		0.1615	
5/20/2018	1.1461		
5/20/2018			0.4722
5/21/2018		0.1508	
5/21/2018	1.0101		
5/21/2018			0.4722
5/22/2018			0.5186
5/22/2018	0.9775		
5/22/2018		0.1726	
5/23/2018			0.5081
5/23/2018	1.0433		
5/23/2018		0.196	
5/24/2018			0.5081
5/24/2018	1.0433		
5/24/2018		0.2021	
5/25/2018		0.2211	
5/25/2018	1.0433		
5/25/2018			0.5081
5/26/2018			0.6048
5/26/2018		0.2083	
5/26/2018	1.1113		
5/27/2018			0.6048
5/27/2018		0.196	
5/27/2018	1.0101		
5/28/2018		0.1212	
5/28/2018	1.0101		
5/28/2018			0.4888
5/29/2018			0.4981
5/29/2018	0.9138		
5/29/2018		0.1561	
5/31/2018		0.0874	
5/31/2018			0.4722
5/31/2018	0.7641		
6/1/2018			0.4722
6/1/2018		0.0596	

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
6/1/2018	0.708		
6/4/2018		0.033	
6/4/2018	1.2173		
6/4/2018			0.1898
6/5/2018		0.0452	
6/5/2018	0.5773		
6/5/2018			0.2389
6/11/2018		0.0195	
6/11/2018	0.4381		
6/11/2018			0.2171
6/12/2018			0.2315
6/12/2018		0.0596	
6/12/2018	0.4168		
6/13/2018		0.0536	
6/13/2018	0.4168		
6/13/2018			0.203166
6/19/2018			0.2032
6/19/2018	0.356		
6/19/2018		0.0212	
6/22/2018		0.0163	
6/22/2018	0.3369		
6/22/2018			0.0808
6/25/2018			0.1898
6/25/2018	0.3369		
6/25/2018		0.0059	
6/26/2018			0.1834
6/26/2018	0.396		
6/26/2018		0.0051	
6/28/2018	0.396		
6/28/2018		0.003	
6/28/2018			0.1898
6/29/2018	0.3757		
6/29/2018		0.002	
6/29/2018			0.1898
7/3/2018			0.1418
7/3/2018		0.0001	
7/3/2018	0.356		
7/4/2018		0	
7/4/2018	0.3369		
7/4/2018			0.1019
7/5/2018		0	
7/5/2018	0.3001		
7/5/2018			0.1208

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
7/9/2018		0	
7/9/2018	0.3369		
7/9/2018			0.1208
7/10/2018			0.1208
7/10/2018		0	
7/10/2018	0.3369		
7/11/2018		0	
7/11/2018	0.3369		
7/11/2018			0.1208
7/12/2018			0.1208
7/12/2018	0.3369		
7/12/2018		0	
7/12/2018			0.1208
7/12/2018			0.1111
7/13/2018			0.1019
7/13/2018		0	
7/13/2018	0.3001		
7/16/2018		0	
7/16/2018	0.2331		
7/16/2018			0.1111
7/17/2018			0.1083
7/17/2018	0.1884		
7/17/2018		0	
7/18/2018			0.1064
7/18/2018	0.2177		
7/18/2018		0	
7/19/2018		0	0.0931
7/19/2018	0.2331		
7/23/2018			0.10187
7/23/2018		0	
7/23/2018	0.233086		
7/24/2018			0.0931078
7/24/2018	0.174573		
7/24/2018		0	
7/25/2018			0.10187
7/25/2018		0	
7/25/2018	0.174573		
7/26/2018			0.10187
7/26/2018		0	
7/26/2018	0.188402		
7/26/2018			0.120833
7/26/2018		0	
7/27/2018		0	

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
7/27/2018			0.120833
7/27/2018	0.202764		
7/30/2018			0.120833
7/30/2018		0	
7/30/2018	0.174573		
7/31/2018			0.106429
7/31/2018	0.188402		
7/31/2018		0	
8/1/2018			0.10187
8/1/2018	0.202764		
8/1/2018		0	
8/7/2018			0.0931078
8/7/2018	0.202764		
8/7/2018		0	
8/8/2018	0.07145		
8/8/2018			0.103882
8/9/2018			0.111109
8/15/2018			0.0931078
8/15/2018		0	
8/15/2018	0.136277		
8/16/2018		0	
8/16/2018	0.202764		
8/16/2018			0.10187
8/21/2018			0.0931078
8/21/2018	0.161276		
8/21/2018		0	
8/27/2018			0.111109
8/27/2018		0	
8/27/2018	0.233086		
8/28/2018		0	
8/28/2018	0.202764		
9/4/2018			0.0931078
9/4/2018		0	
9/4/2018	0.148511		
9/10/2018			0.0931078
9/10/2018	0.174573		
9/10/2018		0	
9/11/2018	0.148511		
9/12/2018			0.0848143
9/12/2018	0.148511		
9/12/2018		0	
9/12/2018			0.0848143
9/12/2018			0.0769805

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
9/12/2018			0.056149
9/13/2018			0.0297642
9/13/2018	0.124573		
9/13/2018		0	
9/13/2018		0	
9/13/2018			0.0342537
9/13/2018			0.0342537
9/14/2018			0.0769805
9/17/2018			0.056149
9/17/2018			0.056149
9/17/2018		0	
9/17/2018	0.148511		
9/17/2018			0.056149
9/18/2018			0.0297642
9/18/2018			0.0297642
9/18/2018		0	
9/18/2018	0.174573		
9/18/2018			0.0256477
9/18/2018			0.0342537
9/19/2018			0.0342537
9/19/2018			0.0297642
9/19/2018			0.0297642
9/19/2018			0.0256477
9/20/2018			0.0218931
9/20/2018			0.0218931
9/20/2018			0.0218931
9/20/2018	0.174573		
9/21/2018			0.0218931
9/21/2018		0	
9/21/2018	0.148511		
9/24/2018			0.0297642
9/24/2018	0.148511		
9/24/2018		0	
9/25/2018		0	
9/25/2018	0.148511		
9/26/2018			0.02268
9/26/2018	0.05007		
10/1/2018			0.0297642
10/1/2018		0	
10/1/2018	0.102757		
10/2/2018			0.0500644
10/2/2018		0	
10/2/2018	0.148511		

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
10/3/2018	0.124573		
10/9/2018		0	
10/9/2018	0.148511		
10/15/2018			0.0256477
10/15/2018		0	
10/15/2018	0.124573		
10/16/2018		0	
10/16/2018	0.102757		
10/16/2018	0.04857		
10/22/2018			0.14177
10/22/2018		0	
10/22/2018	0.102757		
10/23/2018	0.124573		
10/23/2018		0	
10/29/2018		0	
10/29/2018			0.0931078
10/29/2018	0.102757		
11/2/2018		0	
11/2/2018	0.148511		
11/2/2018			0.111109
11/5/2018			0.0848143
11/5/2018	0.124573		
11/5/2018		0	
11/7/2018			0.0848143
11/7/2018		0	
11/7/2018	0.124573		
11/13/2018		0	
11/13/2018	0.174573		
11/15/2018			0.0848143
11/15/2018	0.233086	0	
11/20/2018		0	
11/20/2018	0.148511		
11/27/2018		0	
11/27/2018	0.102757		
11/29/2018			0.0297642
11/29/2018		0	
11/29/2018	0.0830581		
11/30/2018	0.0449198		
12/3/2018			0.0297642
12/3/2018		0	
12/3/2018	0.102757		
12/5/2018			0.025675
12/10/2018		0	

Site ID	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488
12/10/2018	0.102757		
12/10/2018			0.0297642
12/11/2018		0	
12/11/2018	0.102757		
12/17/2018		0	
12/17/2018	0.102757		
12/17/2018			0.0256477
12/18/2018		0	
12/18/2018	0.102757		
12/28/2018		0	
12/28/2018	0.102757		
Minimum	0.0449198	0	0.018814
Maximum	1.290700	0.465800	0.662359
Mean	0.353928865	0.054653442	0.193264772
Median	0.174573	0	0.1019
Standard Deviation	0.346165396	0.102335778	0.198900268
Sample Size	127	120	149

2018 TSS & Turbidity Data –Discharge Locations

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/L			NTU		
Site ID	CM_CCPD	CM_PC2	CM_SPD	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488	E206438	E298733	E102488
1/3/2018	1.1			0.91		
1/9/2018			1			0.61
1/9/2018	1.4			1.61		
1/16/2018	< 1.0			1.37		
1/23/2018	1.4			2.68		
1/30/2018	1.1			1.99		
2/6/2018			< 1.0			0.78
2/6/2018	3			1.21		
2/14/2018	< 1.0			1.15		
2/19/2018	< 1.0			0.61		
2/28/2018			1.1			0.7
3/1/2018	< 1.0			0.73		
3/7/2018			1.1			0.58
3/7/2018	< 1.0			0.61		
3/13/2018	18.7			14.7		

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/L			NTU		
Site ID	CM_CCPD	CM_PC2	CM_SPD	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488	E206438	E298733	E102488
3/15/2018			6.3			21.6
3/19/2018			9.2			15.3
3/19/2018	1.8			2.04		
3/27/2018			1.5			3.21
3/27/2018	< 1.0			1.34		
4/4/2018			1.2			3.42
4/4/2018	1.6			2.8		
4/9/2018			1.7			2.68
4/10/2018	1.9			3.1		
4/17/2018			9.9			15.8
4/17/2018	4.6			6.46		
4/24/2018			3.3			4.18
4/24/2018	9.7			16.1		
4/25/2018	14.4			24.1		
5/1/2018			8.9			7.74
5/1/2018	7.1			6.92		
5/1/2018		1.1			0.3	
5/7/2018	2.8			15.8		
5/7/2018		< 1.0			0.78	
5/7/2018			5.9			19.7
5/9/2018			10.5			12.7
5/10/2018			9.1			11.2
5/10/2018	8.6			7.5		
5/10/2018		< 1.0			0.51	
5/15/2018			6.4			5.25
5/15/2018	5			3.88		
5/15/2018		< 1.0			1.12	
5/16/2018			12.8			15.5
5/16/2018		< 1.0			0.4	
5/16/2018	4			4.93		
5/22/2018			3.2			3.49
5/22/2018	1.7			1.95		
5/22/2018		< 1.0			0.21	
5/29/2018			2.3			2.95
5/29/2018	1.7			1.82		
5/29/2018		< 1.0			0.19	
6/5/2018		< 1.0			0.16	
6/5/2018	1			1.68		

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/L			NTU		
Site ID	CM_CCPD	CM_PC2	CM_SPD	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488	E206438	E298733	E102488
6/5/2018			2.6			2.82
6/12/2018			1.6			2.92
6/12/2018		< 1.0			0.26	
6/12/2018	1			1.79		
6/19/2018			5.8			2.54
6/19/2018	2.8			2.43		
6/19/2018		< 1.0			1.14	
6/25/2018	3.9			3.67		
6/26/2018			8.1			4.63
6/26/2018	2.9			2.48		
6/26/2018		2.3			0.5	
7/3/2018			3.1			2.5
7/3/2018		< 1.0			0.13	
7/3/2018	2.3			4.52		
7/10/2018			< 1.0			1.28
7/10/2018		< 1.0			0.25	
7/10/2018	1.7			5.35		
7/17/2018			1.2			1.28
7/17/2018	3.6			2.81		
7/24/2018			1.2			0.79
7/24/2018	< 1.0			0.67		
7/26/2018			28.3			35.5
7/26/2018	< 1.0			1.15		
7/27/2018			7.4			13.3
7/27/2018	< 1.0			2.34		
7/31/2018			< 1.0			1.08
7/31/2018	1.5			1.26		
8/2/2018	2.5			1.1		
8/7/2018			< 1.0			1.2
8/7/2018	1.3			0.83		
8/9/2018			1.8			1.59
8/15/2018	1.2			0.89		
8/21/2018	1.9			0.97		
8/28/2018	3.9			2.64		
9/4/2018			< 1.0			0.53
9/4/2018	2.3			0.93		
9/11/2018	1.8			1.56		
9/18/2018			3			2.57

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/L			NTU		
Site ID	CM_CCPD	CM_PC2	CM_SPD	CM_CCPD	CM_PC2	CM_SPD
EMS Code	E206438	E298733	E102488	E206438	E298733	E102488
9/18/2018	1.8			2.19		
9/25/2018	2			2.64		
10/2/2018			< 1.0			1.06
10/2/2018	< 1.0			1.79		
10/3/2018	2.7			1.84		
10/9/2018	3.1			2.11		
10/16/2018	1.8			1.3		
10/23/2018	< 1.0			1.35		
10/29/2018	2.5			3.52		
11/5/2018			3.8			4.21
11/5/2018	3.5			3.04		
11/13/2018	1.8			2.6		
11/20/2018	3.6			2.27		
11/27/2018	2.4			1.16		
12/3/2018			2.5			1.56
12/3/2018	1.9			0.71		
12/11/2018	1.9			0.7		
12/18/2018	2.1			0.56		
12/28/2018	2.3			0.48		
Minimum	< 1.0	< 1.0	< 1.0	0.48	0.13	0.53
Maximum	18.7	2.3	28.3	24.1	1.14	35.5
Mean	3.28	1.7	5.35	3.23	0.46	6.18
Median	2.3	1.7	3.2	1.9	0.3	2.92
Standard Deviation	3.32	0.85	5.46	4.3	0.35	7.7
Sample size	60	13	37	60	13	37
Non-Detects	11	11	6	0	0	0
% Non-Detects	18.3	84.6	16.2	0	0	0
Detection Limit	1.0	1.0	1.0	0.1	0.1	0.1

2018 EPH – CM_CCPD & CM_SPD

Parameter	EPH	
Unit	mg/L	
Site ID	CM_CCPD	CM_SPD
EMS Code	E206438	E102488
1/9/2018	< 0.50	< 0.50

4/4/2018	< 0.50	< 0.50
7/3/2018	< 0.50	< 0.50
10/2/2018	< 0.50	< 0.50
Minimum	< 0.50	< 0.50
Maximum	< 0.50	< 0.50
Mean	< 0.50	< 0.50
Median	< 0.50	< 0.50
Standard Dev.	0	0
Sample Size	4	4
Non-Detects	4	4
% Non-Detects	100	100
Detection Limit	0.5	0.5

2018 Flow Data – Receiving Environment

Site ID	CM_CC1	CM_MC1	CM_MC2
EMS Code	**0200209**	**E258175**	**E258937**
1/9/2018			0.134743
1/9/2018	0.162392		
1/9/2018		0.0506086	
1/16/2018			0.144529
1/23/2018			0.153
1/30/2018			0.145
2/6/2018			0.15271
2/6/2018	0.133902		
2/6/2018		0.040646	
2/14/2018			0.318162
2/19/2018		0.036123	
2/19/2018			0.108196
2/27/2018		0.031899	
3/6/2018		0.031962	
3/6/2018	0.131229		
3/13/2018			0.125435
3/13/2018		0.031899	
3/19/2018	0.131229		
3/20/2018			0.114876
3/20/2018		0.027969	
3/27/2018			0.108196

Site ID	CM_CC1	CM_MC1	CM_MC2
EMS Code	0200209	E258175	E258937
3/27/2018	0.120849		
3/27/2018		0.031899	
4/4/2018			0.118323
4/4/2018	0.131229		
4/4/2018		0.0318991	
4/10/2018	0.147746		
4/10/2018			0.134743
4/10/2018		0.025034	
4/17/2018			0.165587
4/17/2018	0.147746		
4/17/2018		0.040646	
4/24/2018			0.33966
4/24/2018	0.21128		
4/24/2018		0.05384	
4/26/2018			0.33966
4/30/2018			1.63413
4/30/2018		0.368	
5/1/2018	0.747914		
5/2/2018	0.620635		
5/7/2018	1.4236		
5/8/2018			5.6457
5/8/2018		1.0433	
5/15/2018		1.5721	
5/15/2018			6.7851
5/16/2018	2.241		
5/16/2018	1.8908		
5/16/2018		1.999	
5/16/2018			7.086
5/22/2018			5.6457
5/22/2018	1.4236		
5/22/2018		1.1955	
5/29/2018	1.268	1.2273	
5/29/2018			5.6457
6/5/2018		0.6333	
6/5/2018			3.0374
6/6/2018	0.7852		
6/12/2018		0.3992	
6/12/2018	0.577		
6/12/2018			1.8672

Site ID	CM_CC1	CM_MC1	CM_MC2
EMS Code	0200209	E258175	E258937
6/19/2018		0.366	
6/19/2018	0.5158		
6/19/2018			1.1421
6/26/2018		0.2239	
6/26/2018			1.0178
6/26/2018	0.5158		
7/3/2018			1.0581
7/3/2018		0.2624	
7/3/2018	0.4586		
7/10/2018		0.1472	
7/10/2018			0.7021
7/10/2018	0.4315		
7/17/2018		0.1114	
7/17/2018	0.31		
7/17/2018			0.4628
7/24/2018		0.0810566	
7/24/2018	0.267849		
7/24/2018			0.397866
7/26/2018			0.58705
7/26/2018	0.48673		
7/27/2018	0.309987		
7/27/2018			0.978547
7/31/2018		0.0743174	
7/31/2018	0.309987		
7/31/2018			0.33966
8/7/2018		0.0506086	
8/7/2018			0.287741
8/7/2018	0.267849		
8/9/2018	0.19702		
8/9/2018			0.32918
8/15/2018		0.0506086	
8/15/2018			0.241692
8/21/2018		0.0506086	
8/21/2018			0.201106
8/28/2018		0.0743174	
8/28/2018			0.165587
9/4/2018		0.0406463	
9/4/2018			0.176888
9/4/2018	0.194147		

Site ID	CM_CC1	CM_MC1	CM_MC2
EMS Code	0200209	E258175	E258937
9/10/2018	0.162392		
9/10/2018	0.229267		
9/11/2018			0.201106
9/18/2018			0.201106
9/25/2018			0.188723
9/26/2018		0.027135	
10/2/2018		0.0618212	
10/2/2018	0.194147		
10/2/2018			0.227576
10/9/2018			0.154805
10/16/2018			0.134743
10/23/2018			0.176888
10/30/2018		0.119811	
10/30/2018			0.256414
11/5/2018	0.267849		
11/6/2018		0.137738	
11/6/2018			0.321676
11/13/2018		0.0881283	
11/13/2018			0.201106
11/20/2018		0.0743174	
11/20/2018			0.165587
11/27/2018		0.0618212	
11/27/2018			0.134743
12/3/2018	0.577032		
12/4/2018		0.0506086	
12/4/2018			0.134743
12/11/2018			0.176888
12/18/2018			0.176888
12/19/2018		0.0159	
12/19/2018	0.07584		
12/20/2018			0.20348
12/28/2018			0.176888
Minimum	0.076	0.016	0.108
Maximum	2.241	1.999	7.086
Mean	0.502	0.269	0.947
Median	0.29	0.062	0.203
Standard Dev.	0.521	0.464	1.77
Sample Size	36	41	54

2018 TSS & Turbidity Data – Receiving Environment

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/l			NTU		
Site ID	CM_CC1	CM_MC1	CM_MC2	CM_CC1	CM_MC1	CM_MC2
EMS code	0200209	E258175	E258937	0200209	E258175	E258937
1/3/2018			2.7			0.47
1/9/2018			1.0			0.44
1/9/2018	< 1.0			0.56		
1/9/2018		< 1.0			0.30	
1/16/2018			1.3			0.75
1/23/2018			< 1.0			0.79
1/30/2018			< 1.0			0.37
2/6/2018			< 1.0			0.32
2/6/2018	< 1.0			0.37		
2/6/2018		12.0			2.46	
2/14/2018			1.0			0.25
2/19/2018		< 1.0			0.13	
2/19/2018			< 1.0			0.24
2/27/2018			< 1.0			0.25
2/27/2018		< 1.0			0.22	
2/28/2018	< 1.0			0.30		
3/6/2018			1.0			0.56
3/6/2018		< 1.0			0.18	
3/6/2018	< 1.0			0.26		
3/13/2018			1.7			0.90
3/13/2018		< 1.0			0.11	
3/19/2018	2.0			2.40		
3/20/2018			1.0			1.14
3/20/2018		< 1.0			0.11	
3/27/2018			< 1.0			0.52
3/27/2018	< 1.0			0.76		
3/27/2018		< 1.0			0.15	
4/4/2018			< 1.0			1.02
4/4/2018	< 1.0			1.23		
4/4/2018		3.4			0.50	
4/10/2018	1.1			0.58		
4/10/2018			1.3			0.54
4/10/2018		< 1.0			0.17	
4/17/2018			1.6			1.56
4/17/2018	2.1			4.03		

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/l			NTU		
Site ID	CM_CC1	CM_MC1	CM_MC2	CM_CC1	CM_MC1	CM_MC2
EMS code	0200209	E258175	E258937	0200209	E258175	E258937
4/17/2018		< 1.0			0.16	
4/24/2018			1.7			1.39
4/24/2018	2.3			1.89		
4/24/2018		1.3			0.32	
4/30/2018			11.2			5.51
4/30/2018		4.5			2.37	
5/1/2018	4.9			4.34		
5/7/2018	3.3			12.5		
5/8/2018			6.2			71.3
5/8/2018		9.1			10.5	
5/14/2018		6.4			4.91	
5/15/2018		24.9			7.54	
5/15/2018			60.9			20.1
5/16/2018	8.2			3.93		
5/17/2018		15.7			11.1	
5/22/2018			42.0			24.2
5/22/2018	2.2			1.49		
5/22/2018		8.6			4.79	
5/29/2018	1.9	12.9		1.50	5.41	
5/29/2018			30.7			15.8
6/5/2018		3.6			1.50	
6/5/2018			7.2			3.11
6/5/2018	1.0			1.20		
6/12/2018		1.0			1.01	
6/12/2018	1.2			1.30		
6/12/2018			1.8			1.93
6/19/2018		1.8			0.69	
6/19/2018	2.6			1.40		
6/19/2018			3.0			1.21
6/26/2018		< 1.0			0.49	
6/26/2018			2.5			1.02
6/26/2018	1.5			1.05		
7/3/2018			1.9			0.64
7/3/2018		2.1			24.0	
7/3/2018	1.9			1.86		
7/10/2018		2.5			0.38	
7/10/2018			< 1.0			0.69

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/l			NTU		
Site ID	CM_CC1	CM_MC1	CM_MC2	CM_CC1	CM_MC1	CM_MC2
EMS code	0200209	E258175	E258937	0200209	E258175	E258937
7/10/2018	1.3			1.35		
7/17/2018		2.4			0.53	
7/17/2018	1.2			0.54		
7/17/2018			1.4			0.57
7/24/2018		< 1.0			0.25	
7/24/2018	1.2			0.38		
7/24/2018			< 1.0			0.44
7/26/2018			33.4			37.9
7/26/2018	13.7			6.85		
7/26/2018		16.9			30.2	
7/27/2018	2.0			3.08		
7/27/2018			1.7			1.32
7/27/2018		< 1.0			0.50	
7/31/2018		< 1.0			0.25	
7/31/2018	1.1			0.50		
7/31/2018			< 1.0			0.25
8/7/2018		< 1.0			0.24	
8/7/2018			< 1.0			0.45
8/7/2018	< 1.0			0.43		
8/15/2018		< 1.0			0.55	
8/15/2018			1.0			0.54
8/21/2018		1.9			1.23	
8/21/2018			< 1.0			0.33
8/28/2018		< 1.0			0.37	
8/28/2018			1.8			0.87
9/4/2018		< 1.0			0.16	
9/4/2018			3.5			0.45
9/4/2018	< 1.0			0.69		
9/10/2018	1.4			0.78		
9/11/2018			1.2			0.50
9/13/2018		< 1.0			0.62	
9/14/2018		< 1.0			0.72	
9/18/2018			1.4			0.58
9/25/2018			< 1.0			0.50
10/2/2018		2.4			0.42	
10/2/2018	< 1.0			0.66		
10/2/2018			1.1			0.61

Parameter	TOTAL SUSPENDED SOLIDS (TSS), LAB			TURBIDITY, LAB		
Unit	mg/l			NTU		
Site ID	CM_CC1	CM_MC1	CM_MC2	CM_CC1	CM_MC1	CM_MC2
EMS code	0200209	E258175	E258937	0200209	E258175	E258937
10/9/2018			1.5			0.43
10/16/2018			< 1.0			0.31
10/23/2018			1.8			1.19
10/30/2018		< 1.0			0.29	
10/30/2018			1.5			0.84
11/2/2018		34.8			26.7	
11/5/2018	2.1			1.41		
11/6/2018		< 1.0			0.33	
11/6/2018			1.0			0.86
11/13/2018		< 1.0			0.24	
11/13/2018			< 1.0			0.60
11/20/2018		< 1.0			0.26	
11/20/2018			< 1.0			0.50
11/27/2018		< 1.0			0.42	
11/27/2018			2.0			0.54
12/3/2018	< 1.0			0.46		
12/4/2018		< 1.0			0.23	
12/4/2018			1.5			0.46
12/11/2018			< 1.0			0.44
12/18/2018			1.2			0.80
12/28/2018			1.1			0.21
Minimum	< 1.0	< 1.0	< 1.0	0.26	0.11	0.21
Maximum	13.7	34.8	60.9	12.5	30.2	71.3
Mean	2.736	8.41	6.481	1.878	3.2	3.88
Median	1.95	4.05	1.7	1.215	0.42	0.59
Standard Dev.	2.925	8.983	13.209	2.432	6.954	11.504
Sample size	32	45	54	32	45	54
Non-Detects	10	25	17	0	0	0
% Non-Detects	31.3	55.6	31.5	0	0	0
Detection Limit	1.0	1.0	1.0	0.1	0.1	0.1

2018 Maintenance Infiltration Ponds E206437 (CM_WBE) Data

Parameter Unit	Daily Flow m^3/day	EPH Total mg/L
1/3/2018	12.78	

1/10/2018		1.57
2/4/2018	12.19	
2/13/2018	4.44	
2/20/2018	16.14	
2/26/2018	23	
3/5/2018	4.43	
3/13/2018	19.63	
3/20/2018	9.43	
3/27/2018	16.71	
4/4/2018	25.5	1.61
4/10/2018	17.33	
4/17/2018	12.71	
4/24/2018	32.43	
5/1/2018	46.29	
5/8/2018	25.43	
5/16/2018	21.13	
5/22/2018	12.5	
5/29/2018	12.57	
6/4/2018	20	
6/5/2018		319
6/11/2018		2.22
6/25/2018	22.55	
6/26/2018	22.55	
7/3/2018	18.71	< 0.50
7/10/2018	6.86	
7/19/2018	14	2.02
7/24/2018	14	
7/31/2018	25.83	
8/7/2018	15.71	6.21
8/28/2018	16.71	
9/4/2018	12.75	14.5
9/10/2018	29.4	
9/18/2018	47.5	
9/25/2018	25	
10/2/2018	13.71	3.07
10/9/2018	37	
10/16/2018	16.57	
10/29/2018	8.67	
11/5/2018		< 0.50
11/20/2018	11.43	
11/27/2018	10.29	
12/3/2018	1.5	4.77

12/11/2018	0.31	
12/18/2018	0.06	
12/28/2018	0.03	
Minimum	0.03	< 0.50
Maximum	47.5	319
Mean	17.042	39.441
Median	15.925	3.07
Standard Dev.	10.891	104.914
Sample size	42	11
Non-Detects	N/A	2
% Non-Detects	N/A	18.2
Detection Limit	N/A	0.5

2018 E206439 (CM_SEW) Data

Parameter	Turbidity	TSS	BOD_5	Daily Flow
Unit	**NTU**	**mg/L**	**mg/L**	**m^3/day**
1/10/2018	0.47	1.4	< 2.0	9.54
2/6/2018	0.45	1.2	< 2.0	10.34
3/6/2018	0.13	1.1	< 2.0	16.08929
4/4/2018	0.20	< 1.0	< 2.0	19.614
5/7/2018	0.30	1.8	< 2.0	23.033
6/5/2018	0.15	< 1.0	< 2.0	19.31034
7/4/2018	0.35	1	< 2.0	13.65
8/7/2018	0.16	< 1.0	< 2.0	7.370588
9/4/2018	0.94	< 1.0	< 2.0	6.068966
10/2/2018	0.16	< 1.0	< 2.0	6.440741
11/5/2018	0.48	< 1.0	< 2.0	5.644118
12/3/2018	1.63	1.5	< 2.0	5.728571
Minimum	0.13	< 1.0	< 2.0	5.644
Maximum	1.63	1.8	< 2.0	23.033
Mean	0.452	1.333	< 2.0	11.903
Median	0.325	1.3	< 2.0	9.94
Standard Deviation	0.436	0.294	0	6.242
Sample Size	12	12	12	12
Non-Detects	0	6	12	N/A
% Non-Detects	0	50	100	N/A
Detection Limit	0.1	1.0	2.0	N/A

2018 QA/QC Data Collected

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_14PIT-PIPE	1/3/2018	N	1.1	0.68
CM_14PIT-PIPE	1/10/2018	N	< 1.0	0.55
CM_14PIT-PIPE	1/16/2018	N	< 1.0	0.33
CM_14PIT-PIPE	1/23/2018	N	< 1.0	0.55
CM_14PIT-PIPE	1/30/2018	N	< 1.0	0.66
CM_14PIT-PIPE	2/6/2018	N	< 1.0	0.56
CM_14PIT-PIPE	2/14/2018	N	< 1.0	0.57
CM_14PIT-PIPE	2/19/2018	N	< 1.0	0.65
CM_14PIT-PIPE	2/19/2018	FB	< 1.0	0.17
CM_14PIT-PIPE	2/19/2018	FD	< 1.0	0.70
CM_14PIT-PIPE	3/1/2018	N	< 1.0	0.20
CM_14PIT-PIPE	3/7/2018	N	< 1.0	0.71
CM_14PIT-PIPE	3/13/2018	FB	< 1.0	< 0.10
CM_14PIT-PIPE	3/13/2018	FD	< 1.0	1.47
CM_14PIT-PIPE	3/13/2018	N	< 1.0	1.52
CM_14PIT-PIPE	3/19/2018	N	1.4	1.52
CM_14PIT-PIPE	3/27/2018	N	< 1.0	1.44
CM_14PIT-PIPE	4/4/2018	N	1.0	0.51
CM_14PIT-PIPE	4/10/2018	N	< 1.0	1.29
CM_14PIT-PIPE	4/17/2018	N	< 1.0	0.61
CM_14PIT-PIPE	4/24/2018	N	1.1	0.88
CM_14PIT-PIPE	5/1/2018	N	< 1.0	0.47
CM_14PIT-PIPE	5/7/2018	N	5.8	0.57
CM_14PIT-PIPE	5/16/2018	N	< 1.0	0.45
CM_14PIT-PIPE	5/22/2018	N	< 1.0	0.27
CM_14PIT-PIPE	5/29/2018	N	< 1.0	0.35
CM_14PIT-PIPE	6/5/2018	N	1.0	0.41
CM_14PIT-PIPE	6/12/2018	N	< 1.0	0.40
CM_14PIT-PIPE	6/19/2018	N	1.0	0.46
CM_14PIT-PIPE	6/26/2018	N	< 1.0	0.37
CM_14PIT-PIPE	7/3/2018	N	< 1.0	0.39
CM_14PIT-PIPE	7/10/2018	N	1.1	0.32
CM_14PIT-PIPE	7/17/2018	N	< 1.0	0.46
CM_14PIT-PIPE	7/24/2018	N	< 1.0	0.29
CM_14PIT-PIPE	7/31/2018	N	< 1.0	0.60
CM_14PIT-PIPE	8/7/2018	N	< 1.0	0.43
CM_14PIT-PIPE	8/15/2018	N	< 1.0	0.45
CM_14PIT-PIPE	8/21/2018	N	1.9	0.67
CM_14PIT-PIPE	8/21/2018	FB	< 1.0	0.23
CM_14PIT-PIPE	8/21/2018	FD	< 1.0	0.51

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_14PIT-PIPE	8/28/2018	N	< 1.0	0.43
CM_14PIT-PIPE	9/4/2018	N	< 1.0	0.44
CM_14PIT-PIPE	9/11/2018	N	< 1.0	0.30
CM_14PIT-PIPE	9/18/2018	N	1.4	0.33
CM_14PIT-PIPE	9/25/2018	N	< 1.0	0.24
CM_14PIT-PIPE	10/2/2018	N	< 1.0	0.28
CM_14PIT-PIPE	10/9/2018	N	1.9	0.17
CM_14PIT-PIPE	10/16/2018	N	3.3	0.33
CM_14PIT-PIPE	10/16/2018	FB	4.4	< 0.10
CM_14PIT-PIPE	10/16/2018	FD	< 1.0	0.32
CM_14PIT-PIPE	10/23/2018	N	2.8	0.33
CM_14PIT-PIPE	10/29/2018	N	< 1.0	0.40
CM_14PIT-PIPE	11/5/2018	N	1.7	0.51
CM_14PIT-PIPE	11/13/2018	FB	< 1.0	< 0.10
CM_14PIT-PIPE	11/13/2018	FD	1.3	0.33
CM_14PIT-PIPE	11/13/2018	N	< 1.0	0.32
CM_14PIT-PIPE	11/20/2018	N	1.9	0.49
CM_14PIT-PIPE	11/20/2018	FB	< 1.0	0.19
CM_14PIT-PIPE	11/20/2018	FD	1.4	0.30
CM_14PIT-PIPE	11/27/2018	N	2.4	0.33
CM_14PIT-PIPE	11/27/2018	FB	< 1.0	< 0.10
CM_14PIT-PIPE	11/27/2018	FD	2.2	0.53
CM_14PIT-PIPE	12/3/2018	N	1.2	0.65
CM_14PIT-PIPE	12/11/2018	FB	< 1.0	< 0.10
CM_14PIT-PIPE	12/11/2018	FD	1.7	0.59
CM_14PIT-PIPE	12/11/2018	N	1.3	0.68
CM_14PIT-PIPE	12/18/2018	FB	< 1.0	0.42
CM_14PIT-PIPE	12/18/2018	FD	3.5	0.78
CM_14PIT-PIPE	12/18/2018	N	2.4	0.95
CM_14PIT-PIPE	12/28/2018	FB	< 1.0	< 0.10
CM_14PIT-PIPE	12/28/2018	FD	2.6	0.30
CM_14PIT-PIPE	12/28/2018	N	3.3	0.39
CM_CC1	1/9/2018	N	< 1.0	0.56
CM_CC1	2/6/2018	N	< 1.0	0.37
CM_CC1	2/28/2018	N	< 1.0	0.30
CM_CC1	3/6/2018	FB	< 1.0	< 0.10
CM_CC1	3/6/2018	FD	< 1.0	267
CM_CC1	3/6/2018	N	< 1.0	0.26
CM_CC1	3/19/2018	N	2.0	2.40
CM_CC1	3/19/2018	FB	< 1.0	< 0.10
CM_CC1	3/19/2018	FD	2.2	2.60

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_CC1	3/27/2018	FB	< 1.0	< 0.10
CM_CC1	3/27/2018	FD	< 1.0	0.74
CM_CC1	3/27/2018	N	< 1.0	0.76
CM_CC1	4/4/2018	N	< 1.0	1.23
CM_CC1	4/10/2018	FB	< 1.0	< 0.10
CM_CC1	4/10/2018	FD	1.3	0.66
CM_CC1	4/10/2018	N	1.1	0.58
CM_CC1	4/17/2018	FB	< 1.0	< 0.10
CM_CC1	4/17/2018	FD	2.3	4.02
CM_CC1	4/17/2018	N	2.1	4.03
CM_CC1	4/24/2018	N	2.3	1.89
CM_CC1	5/1/2018	N	4.9	4.34
CM_CC1	5/7/2018	FB	< 1.0	0.26
CM_CC1	5/7/2018	FD	3.7	10.4
CM_CC1	5/7/2018	N	3.3	12.5
CM_CC1	5/16/2018	N	8.2	3.93
CM_CC1	5/22/2018	N	2.2	1.49
CM_CC1	5/22/2018	FB	< 1.0	< 0.10
CM_CC1	5/22/2018	FD	1.6	1.46
CM_CC1	5/29/2018	N	1.9	1.50
CM_CC1	6/5/2018	FB	< 1.0	< 0.10
CM_CC1	6/5/2018	FD	1.4	1.30
CM_CC1	6/5/2018	N	1.0	1.20
CM_CC1	6/12/2018	N	1.2	1.30
CM_CC1	6/19/2018	N	2.6	1.40
CM_CC1	6/19/2018	FB	< 1.0	< 0.10
CM_CC1	6/19/2018	FD	2.2	1.16
CM_CC1	6/26/2018	N	1.5	1.05
CM_CC1	7/3/2018	FB	< 1.0	< 0.10
CM_CC1	7/3/2018	FD	1.5	1.68
CM_CC1	7/3/2018	N	1.9	1.86
CM_CC1	7/10/2018	FB	< 1.0	0.12
CM_CC1	7/10/2018	FD	1.5	1.13
CM_CC1	7/10/2018	N	1.3	1.35
CM_CC1	7/17/2018	N	1.2	0.54
CM_CC1	7/24/2018	N	1.2	0.38
CM_CC1	7/26/2018	N	13.7	6.85
CM_CC1	7/27/2018	N	2.0	3.08
CM_CC1	7/31/2018	N	1.1	0.50
CM_CC1	8/7/2018	N	< 1.0	0.43
CM_CC1	9/4/2018	FB	< 1.0	< 0.10

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_CC1	9/4/2018	FD	1.1	0.67
CM_CC1	9/4/2018	N	< 1.0	0.69
CM_CC1	9/10/2018	N	1.4	0.78
CM_CC1	10/2/2018	FB	< 1.0	< 0.10
CM_CC1	10/2/2018	FD	< 1.0	0.54
CM_CC1	10/2/2018	N	< 1.0	0.66
CM_CC1	11/5/2018	FB	< 1.0	< 0.10
CM_CC1	11/5/2018	FD	1.1	1.39
CM_CC1	11/5/2018	N	2.1	1.41
CM_CC1	12/3/2018	FB	< 1.0	< 0.10
CM_CC1	12/3/2018	FD	< 1.0	0.47
CM_CC1	12/3/2018	N	< 1.0	0.46
CM_CCPD	1/3/2018	N	1.1	0.91
CM_CCPD	1/9/2018	N	1.4	1.61
CM_CCPD	1/16/2018	N	< 1.0	1.37
CM_CCPD	1/23/2018	N	1.4	2.68
CM_CCPD	1/23/2018	FB	< 1.0	< 0.10
CM_CCPD	1/23/2018	FD	1.4	2.51
CM_CCPD	1/30/2018	FB	< 1.0	< 0.10
CM_CCPD	1/30/2018	FD	< 1.0	1.81
CM_CCPD	1/30/2018	N	1.1	1.99
CM_CCPD	2/6/2018	N	3.0	1.21
CM_CCPD	2/14/2018	N	< 1.0	1.15
CM_CCPD	2/19/2018	N	< 1.0	0.61
CM_CCPD	3/1/2018	FB	< 1.0	< 0.10
CM_CCPD	3/1/2018	FD	< 1.0	0.71
CM_CCPD	3/1/2018	N	< 1.0	0.73
CM_CCPD	3/7/2018	N	< 1.0	0.61
CM_CCPD	3/13/2018	N	18.7	14.7
CM_CCPD	3/19/2018	N	1.8	2.04
CM_CCPD	3/27/2018	N	< 1.0	1.34
CM_CCPD	4/4/2018	N	1.6	2.80
CM_CCPD	4/10/2018	N	1.9	3.10
CM_CCPD	4/17/2018	N	4.6	6.46
CM_CCPD	4/24/2018	N	9.7	16.1
CM_CCPD	4/25/2018	N	14.4	24.1
CM_CCPD	5/1/2018	FB	< 1.0	< 0.10
CM_CCPD	5/1/2018	FD	7.3	9.12
CM_CCPD	5/1/2018	N	7.1	6.92
CM_CCPD	5/7/2018	N	2.8	15.8
CM_CCPD	5/10/2018	N	8.6	7.50

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_CCPD	5/15/2018	N	5.0	3.88
CM_CCPD	5/16/2018	N	4.0	4.93
CM_CCPD	5/22/2018	N	1.7	1.95
CM_CCPD	5/29/2018	N	1.7	1.82
CM_CCPD	5/29/2018	FB	< 1.0	< 0.10
CM_CCPD	5/29/2018	FD	< 1.0	1.88
CM_CCPD	6/5/2018	N	1.0	1.68
CM_CCPD	6/12/2018	N	1.0	1.79
CM_CCPD	6/12/2018	FB	< 1.0	< 0.10
CM_CCPD	6/12/2018	FD	1.0	1.47
CM_CCPD	6/19/2018	N	2.8	2.43
CM_CCPD	6/25/2018	N	3.9	3.67
CM_CCPD	6/26/2018	N	2.9	2.48
CM_CCPD	7/3/2018	N	2.3	4.52
CM_CCPD	7/10/2018	N	1.7	5.35
CM_CCPD	7/17/2018	N	3.6	2.81
CM_CCPD	7/24/2018	N	< 1.0	0.67
CM_CCPD	7/26/2018	N	< 1.0	1.15
CM_CCPD	7/27/2018	N	< 1.0	2.34
CM_CCPD	7/31/2018	N	1.5	1.26
CM_CCPD	8/2/2018	N	2.5	1.10
CM_CCPD	8/7/2018	FB	< 1.0	< 0.10
CM_CCPD	8/7/2018	FD	1.1	0.75
CM_CCPD	8/7/2018	N	1.3	0.83
CM_CCPD	8/15/2018	FB	< 1.0	< 0.10
CM_CCPD	8/15/2018	FD	1.0	0.92
CM_CCPD	8/15/2018	N	1.2	0.89
CM_CCPD	8/21/2018	N	1.9	0.97
CM_CCPD	8/28/2018	FB	< 1.0	0.26
CM_CCPD	8/28/2018	FD	2.1	1.89
CM_CCPD	8/28/2018	N	3.9	2.64
CM_CCPD	9/4/2018	N	2.3	0.93
CM_CCPD	9/11/2018	FB	< 1.0	< 0.10
CM_CCPD	9/11/2018	FD	2.0	1.55
CM_CCPD	9/11/2018	N	1.8	1.56
CM_CCPD	9/18/2018	N	1.8	2.19
CM_CCPD	9/25/2018	N	2.0	2.64
CM_CCPD	10/2/2018	N	< 1.0	1.79
CM_CCPD	10/3/2018	N	2.7	1.84
CM_CCPD	10/9/2018	N	3.1	2.11
CM_CCPD	10/9/2018	FB	< 1.0	< 0.10

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_CCPD	10/9/2018	FD	3.3	2.15
CM_CCPD	10/16/2018	N	1.8	1.30
CM_CCPD	10/23/2018	N	< 1.0	1.35
CM_CCPD	10/29/2018	N	2.5	3.52
CM_CCPD	10/29/2018	FB	< 1.0	< 0.10
CM_CCPD	10/29/2018	FD	2.9	3.18
CM_CCPD	11/5/2018	FB	< 1.0	< 0.10
CM_CCPD	11/5/2018	FD	2.3	2.91
CM_CCPD	11/5/2018	N	3.5	3.04
CM_CCPD	11/13/2018	N	1.8	2.60
CM_CCPD	11/20/2018	N	3.6	2.27
CM_CCPD	11/27/2018	N	2.4	1.16
CM_CCPD	12/3/2018	N	1.9	0.71
CM_CCPD	12/11/2018	N	1.9	0.70
CM_CCPD	12/18/2018	N	2.1	0.56
CM_CCPD	12/28/2018	N	2.3	0.48
CM_MC1	1/9/2018	N	< 1.0	0.30
CM_MC1	2/6/2018	N	12.0	2.46
CM_MC1	2/19/2018	N	< 1.0	0.13
CM_MC1	2/27/2018	N	< 1.0	0.22
CM_MC1	3/6/2018	N	< 1.0	0.18
CM_MC1	3/13/2018	N	< 1.0	0.11
CM_MC1	3/20/2018	N	< 1.0	0.11
CM_MC1	3/27/2018	N	< 1.0	0.15
CM_MC1	4/4/2018	N	3.4	0.50
CM_MC1	4/10/2018	N	< 1.0	0.17
CM_MC1	4/17/2018	N	< 1.0	0.16
CM_MC1	4/24/2018	N	1.3	0.32
CM_MC1	4/30/2018	N	4.5	2.37
CM_MC1	5/8/2018	N	9.1	10.5
CM_MC1	5/14/2018	N	6.4	4.91
CM_MC1	5/15/2018	N	24.9	7.54
CM_MC1	5/17/2018	N	15.7	11.1
CM_MC1	5/22/2018	N	8.6	4.79
CM_MC1	5/29/2018	N	12.9	5.41
CM_MC1	6/5/2018	N	3.6	1.50
CM_MC1	6/12/2018	N	1.0	1.01
CM_MC1	6/19/2018	N	1.8	0.69
CM_MC1	6/26/2018	N	< 1.0	0.49
CM_MC1	7/3/2018	N	2.1	24.0
CM_MC1	7/3/2018	FB	< 1.0	< 0.10

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_MC1	7/3/2018	FD	1.9	0.74
CM_MC1	7/10/2018	N	2.5	0.38
CM_MC1	7/17/2018	N	2.4	0.53
CM_MC1	7/24/2018	N	< 1.0	0.25
CM_MC1	7/26/2018	N	16.9	30.2
CM_MC1	7/27/2018	N	< 1.0	0.50
CM_MC1	7/31/2018	N	< 1.0	0.25
CM_MC1	8/7/2018	N	< 1.0	0.24
CM_MC1	8/15/2018	N	< 1.0	0.55
CM_MC1	8/21/2018	N	1.9	1.23
CM_MC1	8/28/2018	N	< 1.0	0.37
CM_MC1	9/4/2018	N	< 1.0	0.16
CM_MC1	9/13/2018	N	< 1.0	0.62
CM_MC1	9/14/2018	N	< 1.0	0.72
CM_MC1	10/2/2018	N	2.4	0.42
CM_MC1	10/30/2018	N	< 1.0	0.29
CM_MC1	11/2/2018	N	34.8	26.7
CM_MC1	11/6/2018	N	< 1.0	0.33
CM_MC1	11/13/2018	N	< 1.0	0.24
CM_MC1	11/20/2018	N	< 1.0	0.26
CM_MC1	11/27/2018	N	< 1.0	0.42
CM_MC1	12/4/2018	N	< 1.0	0.23
CM_MC2	1/3/2018	N	2.7	0.47
CM_MC2	1/3/2018	FB	< 1.0	< 0.10
CM_MC2	1/3/2018	FD	< 1.0	0.58
CM_MC2	1/9/2018	FB	< 1.0	< 0.10
CM_MC2	1/9/2018	FD	1.6	0.53
CM_MC2	1/9/2018	N	1.0	0.44
CM_MC2	1/16/2018	N	1.3	0.75
CM_MC2	1/16/2018	FB	< 1.0	< 0.10
CM_MC2	1/16/2018	FD	1.3	0.69
CM_MC2	1/23/2018	N	< 1.0	0.79
CM_MC2	1/30/2018	N	< 1.0	0.37
CM_MC2	2/6/2018	N	< 1.0	0.32
CM_MC2	2/6/2018	FB	< 1.0	< 0.10
CM_MC2	2/6/2018	FD	< 1.0	0.40
CM_MC2	2/14/2018	N	1.0	0.25
CM_MC2	2/14/2018	FB	< 1.0	< 0.10
CM_MC2	2/14/2018	FD	1.2	0.28
CM_MC2	2/19/2018	N	< 1.0	0.24
CM_MC2	2/27/2018	N	< 1.0	0.25

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_MC2	3/6/2018	N	1.0	0.56
CM_MC2	3/13/2018	N	1.7	0.90
CM_MC2	3/20/2018	N	1.0	1.14
CM_MC2	3/27/2018	N	< 1.0	0.52
CM_MC2	4/4/2018	FB	< 1.0	0.18
CM_MC2	4/4/2018	FD	< 1.0	0.84
CM_MC2	4/4/2018	N	< 1.0	1.02
CM_MC2	4/10/2018	N	1.3	0.54
CM_MC2	4/17/2018	N	1.6	1.56
CM_MC2	4/24/2018	N	1.7	1.39
CM_MC2	4/30/2018	N	11.2	5.51
CM_MC2	5/8/2018	N	6.2	71.3
CM_MC2	5/15/2018	N	60.9	20.1
CM_MC2	5/22/2018	N	42.0	24.2
CM_MC2	5/29/2018	N	30.7	15.8
CM_MC2	6/5/2018	N	7.2	3.11
CM_MC2	6/12/2018	N	1.8	1.93
CM_MC2	6/19/2018	N	3.0	1.21
CM_MC2	6/26/2018	N	2.5	1.02
CM_MC2	7/3/2018	N	1.9	0.64
CM_MC2	7/10/2018	N	< 1.0	0.69
CM_MC2	7/17/2018	N	1.4	0.57
CM_MC2	7/24/2018	FB	< 1.0	< 0.10
CM_MC2	7/24/2018	FD	1.4	0.46
CM_MC2	7/24/2018	N	< 1.0	0.44
CM_MC2	7/26/2018	N	33.4	37.9
CM_MC2	7/27/2018	N	1.7	1.32
CM_MC2	7/31/2018	FB	< 1.0	< 0.10
CM_MC2	7/31/2018	FD	1.1	0.50
CM_MC2	7/31/2018	N	< 1.0	0.25
CM_MC2	8/7/2018	N	< 1.0	0.45
CM_MC2	8/15/2018	N	1.0	0.54
CM_MC2	8/21/2018	N	< 1.0	0.33
CM_MC2	8/28/2018	N	1.8	0.87
CM_MC2	9/4/2018	N	3.5	0.45
CM_MC2	9/11/2018	N	1.2	0.50
CM_MC2	9/18/2018	N	1.4	0.58
CM_MC2	9/18/2018	FB	< 1.0	< 0.10
CM_MC2	9/18/2018	FD	< 1.0	0.59
CM_MC2	9/25/2018	N	< 1.0	0.50
CM_MC2	9/25/2018	FB	< 1.0	< 0.10

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_MC2	9/25/2018	FD	< 1.0	0.43
CM_MC2	10/2/2018	N	1.1	0.61
CM_MC2	10/9/2018	N	1.5	0.43
CM_MC2	10/16/2018	N	< 1.0	0.31
CM_MC2	10/23/2018	N	1.8	1.19
CM_MC2	10/23/2018	FB	< 1.0	< 0.10
CM_MC2	10/23/2018	FD	1.9	0.57
CM_MC2	10/30/2018	N	1.5	0.84
CM_MC2	11/6/2018	N	1.0	0.86
CM_MC2	11/13/2018	N	< 1.0	0.60
CM_MC2	11/20/2018	N	< 1.0	0.50
CM_MC2	11/27/2018	N	2.0	0.54
CM_MC2	12/4/2018	N	1.5	0.46
CM_MC2	12/11/2018	N	< 1.0	0.44
CM_MC2	12/18/2018	N	1.2	0.80
CM_MC2	12/28/2018	N	1.1	0.21
CM_PC2	5/1/2018	N	1.1	0.30
CM_PC2	5/7/2018	FB	< 1.0	0.22
CM_PC2	5/7/2018	FD	4.2	1.52
CM_PC2	5/7/2018	N	< 1.0	0.78
CM_PC2	5/10/2018	N	< 1.0	0.51
CM_PC2	5/15/2018	N	< 1.0	1.12
CM_PC2	5/16/2018	N	< 1.0	0.40
CM_PC2	5/22/2018	N	< 1.0	0.21
CM_PC2	5/29/2018	N	< 1.0	0.19
CM_PC2	6/5/2018	N	< 1.0	0.16
CM_PC2	6/12/2018	N	< 1.0	0.26
CM_PC2	6/19/2018	N	< 1.0	1.14
CM_PC2	6/26/2018	N	2.3	0.50
CM_PC2	7/3/2018	N	< 1.0	0.13
CM_PC2	7/10/2018	N	< 1.0	0.25
CM_SPD	1/9/2018	N	1.0	0.61
CM_SPD	2/6/2018	N	< 1.0	0.78
CM_SPD	2/28/2018	N	1.1	0.70
CM_SPD	3/7/2018	N	1.1	0.58
CM_SPD	3/15/2018	N	6.3	21.6
CM_SPD	3/19/2018	N	9.2	15.3
CM_SPD	3/27/2018	N	1.5	3.21
CM_SPD	4/4/2018	N	1.2	3.42
CM_SPD	4/9/2018	N	1.7	2.68
CM_SPD	4/17/2018	N	9.9	15.8

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_SPD	4/24/2018	N	3.3	4.18
CM_SPD	4/24/2018	FB	< 1.0	< 0.10
CM_SPD	4/24/2018	FD	3.1	3.35
CM_SPD	5/1/2018	N	8.9	7.74
CM_SPD	5/7/2018	N	5.9	19.7
CM_SPD	5/9/2018	N	10.5	12.7
CM_SPD	5/10/2018	N	9.1	11.2
CM_SPD	5/15/2018	N	6.4	5.25
CM_SPD	5/16/2018	N	12.8	15.5
CM_SPD	5/16/2018	FB	< 1.0	< 0.10
CM_SPD	5/16/2018	FD	11.2	14.0
CM_SPD	5/22/2018	N	3.2	3.49
CM_SPD	5/29/2018	N	2.3	2.95
CM_SPD	6/5/2018	FB	< 1.0	< 0.10
CM_SPD	6/5/2018	FD	2.0	2.82
CM_SPD	6/5/2018	N	2.6	2.82
CM_SPD	6/12/2018	N	1.6	2.92
CM_SPD	6/19/2018	N	5.8	2.54
CM_SPD	6/26/2018	FB	< 1.0	< 0.10
CM_SPD	6/26/2018	FD	6.3	2.51
CM_SPD	6/26/2018	N	8.1	4.63
CM_SPD	7/3/2018	N	3.1	2.50
CM_SPD	7/10/2018	N	< 1.0	1.28
CM_SPD	7/17/2018	FB	< 1.0	0.10
CM_SPD	7/17/2018	FD	< 1.0	1.11
CM_SPD	7/17/2018	N	1.2	1.28
CM_SPD	7/24/2018	N	1.2	0.79
CM_SPD	7/26/2018	N	28.3	35.5
CM_SPD	7/27/2018	N	7.4	13.3
CM_SPD	7/31/2018	N	< 1.0	1.08
CM_SPD	8/7/2018	N	< 1.0	1.20
CM_SPD	8/9/2018	N	1.8	1.59
CM_SPD	9/4/2018	FB	< 1.0	< 0.10
CM_SPD	9/4/2018	FD	1.1	1.27
CM_SPD	9/4/2018	N	< 1.0	0.53
CM_SPD	9/18/2018	N	3.0	2.57
CM_SPD	10/2/2018	FB	< 1.0	< 0.10
CM_SPD	10/2/2018	FD	< 1.0	1.08
CM_SPD	10/2/2018	N	< 1.0	1.06
CM_SPD	11/5/2018	N	3.8	4.21
CM_SPD	12/3/2018	FB	< 1.0	< 0.10

Site ID	Date	Sample Type	TSS (mg/L)	Turbidity, Lab (NTU)
CM_SPD	12/3/2018	FD	< 1.0	1.09
CM_SPD	12/3/2018	N	2.5	1.56

N: normal permitted sample; FD: Field Duplicate; FB: Field Blank

2018 Pit Pumping Data

CM_14PIT-PIPE

Parameter		Alkalinity, Total (As CaCO3)	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Bromide	Cadmium	Cadmium	Calcium	Carbon, Dissolved Organic	Chloride	Chromium	Chromium	Cobalt	Cobalt	Conductivity, Lab
CAS_RN		Alk-T	7429-90-5	7429-90-5	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	7440-41-7	7440-41-7	7440-69-9	7440-69-9	7440-42-8	7440-42-8	24959-67-9	7440-43-9	7440-43-9	7440-70-2	C-DOC	16887-00-6	7440-47-3	7440-47-3	7440-48-4	7440-48-4	COND-L
Fraction		N	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	D	T	T	D	D	D	T	D	T	N
Unit		mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	uS/cm
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_14PIT-PIPE	N	415	<0.0020	<0.0020	1.8	1.83	<0.10	0.15	0.0105	0.0101	<0.020	<0.020	<0.000050	<0.000050	0.141	0.121	<0.10	0.699	0.691	428	0.57	7.7	<0.10	<0.10	100	107	2870
1/10/2018	CM_14PIT-PIPE	N	427	<0.0020	0.0077	1.67	1.74	<0.10	0.26	0.0092	0.011	<0.020	<0.040	<0.000050	<0.000010	0.135	0.14	<0.25	0.687	0.699	424	0.51	7.2	<0.10	<0.20	100	101	2920
1/16/2018	CM_14PIT-PIPE	N	410	<0.0020	0.0031	1.64	1.67	<0.10	<0.40	0.00966	0.0097	<0.020	0.033	<0.000050	<0.000050	0.142	0.149	<0.25	0.67	0.732	407	<0.50	7.2	<0.10	<0.10	97.8	102	2860
1/23/2018	CM_14PIT-PIPE	N	412	<0.0020	<0.0060	1.77	1.73	<0.20	<0.20	0.00999	0.01	<0.040	<0.040	<0.00010	<0.00010	0.147	0.144	<0.25	0.697	0.717	444	0.96	7.2	<0.20	<0.20	98.1	101	2940
1/30/2018	CM_14PIT-PIPE	N	422	<0.0020	<0.0060	1.77	1.84	<0.20	<0.20	0.0097	0.00968	<0.040	<0.040	<0.00010	<0.00010	0.127	0.137	<0.25	0.673	0.676	451	0.87	7	<0.20	0.54	96	99.6	2920
2/6/2018	CM_14PIT-PIPE	N																										
2/6/2018	CM_14PIT-PIPE	N	422	<0.0020	<0.0060	1.67	1.76	<0.20	<0.20	0.00924	0.00972	<0.040	<0.040	<0.00010	<0.00010	0.121	0.126	<0.25	0.685	0.716	398	<0.50	6.7	<0.20	<0.20	97.5	100	2910
2/14/2018	CM_14PIT-PIPE	N	458	<0.0020	<0.0060	1.7	1.77	<0.20	<0.20	0.00941	0.00957	<0.040	<0.040	<0.00010	<0.00010	0.132	0.121	<0.25	0.657	0.689	410	0.5	6.9	<0.20	<0.20	95.7	99.9	2910
2/19/2018	CM_14PIT-PIPE	N																										
2/19/2018	CM_14PIT-PIPE	N	427	<0.0020	<0.0020	1.55	1.7	<0.10	0.14	0.0102	0.0102	<0.020	<0.020	<0.000050	<0.000050	0.109	0.123	<0.25	0.67	0.649	421	<0.50	7.2	<0.10	<0.10	99.1	92.1	2910
2/19/2018	CM_14PIT-PIPE	FD	438	<0.0020	<0.0060	1.59	1.63	<0.10	<0.20	0.00994	0.0107	<0.020	<0.040	<0.000050	<0.00010	0.111	0.124	<0.25	0.674	0.743	440	<0.50	6.9	<0.10	<0.20	101	104	2880
3/1/2018	CM_14PIT-PIPE	N	381	<0.0020	<0.0060	1.65	1.65	<0.20	<0.20	0.0107	0.0101	<0.040	<0.040	<0.00010	<0.00010	0.127	0.128	<0.25	0.649	0.667	395	1.18	7.2	<0.20	<0.20	99.1	101	2890
3/7/2018	CM_14PIT-PIPE	N	407	<0.0020	0.0068	1.7	1.69	<0.20	<0.20	0.00964	0.00916	<0.040	<0.040	<0.00010	<0.00010	0.126	0.129	0.3	0.65	0.625	426	0.62	7.3	<0.20	<0.20	97.7	97.2	2950
3/13/2018	CM_14PIT-PIPE	FD	372	<0.0020	0.006	1.8	1.63	<0.20	<0.10	0.00926	0.00917	<0.040	<0.020	<0.00010	<0.000050	0.12	0.153	<0.25	0.654	0.644	396	0.7	8	<0.20	<0.10	96.9	103	2920
3/13/2018	CM_14PIT-PIPE	N	387	<0.0020	0.0055	1.77	1.71	<0.20	0.11	0.00915	0.00949	<0.040	<0.020	<0.00010	<0.000050	0.123	0.152	<0.25	0.64	0.672	411	0.63	8.3	<0.20	<0.10	96.9	105	2920
3/19/2018	CM_14PIT-PIPE	N	413	0.028	<0.0060	1.76	1.74	<0.20	<0.20	0.00915	0.00832	<0.040	<0.040	<0.00010	<0.00010	0.135	0.12	<0.050	0.656	0.632	410	0.51	9.62	<0.20	<0.20	95.6	99.1	2960
3/27/2018	CM_14PIT-PIPE	N	405	<0.0020	<0.0060	1.61	1.69	<0.20	<0.20	0.00864	0.00958	<0.040	<0.040	<0.00010	<0.00010	0.123	0.121	<0.25	0.639	0.683	384	<0.50	8.9	<0.20	<0.20	92.6	99.5	2860
4/4/2018	CM_14PIT-PIPE	N	402	<0.0020	<0.0060	1.73	1.84	<0.20	<0.20	0.00924	0.00999	<0.040	<0.040	<0.00010	<0.00010	0.129	0.144	<0.25	0.618	0.698	443	<0.50	9.7	<0.20	<0.20	95.4	103	2950
4/10/2018	CM_14PIT-PIPE	N	422	<0.0020	<0.0060	1.65	1.74	<0.20	<0.20	0.00959	0.00934	<0.040	<0.040	<0.00010	<0.00010	0.133	0.147	<0.25	0.693	0.726	439	<0.50	13.4	<0.20	0.25	95.6	102	2940
4/17/2018	CM_14PIT-PIPE	N	381	<0.0020	<0.0060	1.64	1.69	<0.20	<0.20	0.00869	0.00847	<0.040	<0.040	<0.00010	<0.00010	0.118	0.13	<0.25	0.629	0.59	404	0.89	14.4	<0.20	<0.20	91.3	86.6	2890
4/24/2018	CM_14PIT-PIPE	N	341	<0.0020	<0.0060	1.49	1.5	<0.20	<0.20	0.00946	0.00909	<0.040	<0.040	<0.00010	<0.00010	0.12	0.12	<0.25	0.74	0.742	380	<0.50	16	<0.20	<0.20	69.3	70.9	2680
5/1/2018	CM_14PIT-PIPE	N	296	<0.0020	<0.0060	1.61	1.73	<0.10	<0.20	0.00869	0.00896	<0.040	<0.040	<0.000050	<0.00010	0.12	0.11	<0.25	0.713	0.701	343	0.58	9.9	<0.10	<0.20	61.6	61.2	2490
5/7/2018	CM_14PIT-PIPE	N	319	<0.0020	0.0066	1.65	1.71	<0.20	<0.20	0.00947	0.00962	<0.040	<0.040	<0.00010	<0.00010	0.123	0.128	<0.25	0.74	0.697	372	<0.50	11.3	<0.20	<0.20	67.9	68.3	2490
5/16/2018	CM_14PIT-PIPE	N	367	<0.0020	<0.0060	1.56	1.6	<0.10	<0.20	0.0102	0.00998	<0.020	<0.040	<0.000050	<0.00010	0.124	0.122	<0.050	0.692	0.706	336	<0.50	8.72	<0.10	<0.20	74.8	73.2	2570
5/22/2018	CM_14PIT-PIPE	N	293	<0.0020	<0.0060	1.52	1.67	<0.10	<0.20	0.00964	0.01	<0.020	<0.040	<0.000050	<0.00010	0.119	0.132	<0.25	0.691	0.713	388	0.52	7.4	<0.10	<0.20	76.8	76.3	2550
5/29/2018	CM_14PIT-PIPE	N	347	<0.0020	<0.0060	1.61	1.65	<0.10	<0.20	0.01	0.00924	<0.020	<0.040	<0.000050	<0.00010	0.112	0.129	<0.25	0.68	0.692	378	<0.50	8.9	<0.10	<0.20	77.6	77.5	2610
6/5/2018	CM_14PIT-PIPE	N	428	<0.0020	<0.0060	1.64	1.62	<0.20	<0.20	0.00992	0.00991	<0.040	<0.040	<0.00010	<0.00010	0.122	0.122	<0.25	0.669	0.72	362	<0.50	7.4	<0.20	<0.20	83.1	81.6	2700
6/12/2018	CM_14PIT-PIPE	N	416	<0.0020	0.007	1.68	1.65	<0.20	<0.20	0.0101	0.00969	<0.040	<0.040	<0.00010	<0.00010	0.124	0.123	<0.25	0.657	0.667	371	0.75	7	<0.20	<0.20	83.4	82.1	2680
6/19/2018	CM_14PIT-PIPE	N	420	<0.0020	<0.0030	1.6	1.64	0.1	0.18	0.00931	0.00955	<0.020	<0.020	<0.000050	<0.000050	0.121	0.125	<0.25	0.652	0.656	402	<0.50	8.7	<0.10	<0.10	83.7	84.3	2770
6/26/2018	CM_14PIT-PIPE	N	402	<0.0020	<0.0060	1.62	1.68	<0.20	<0.20	0.00892	0.0102	<0.040	0.043	<0.00010	<0.00010	0.124	0.129	<0.25	0.64	0.698	375	<0.50	8.3	<0.20	<0.20	85.4	86.4	2750
7/3/2018	CM_14PIT-PIPE	N	414	<0.0020	<0.0060	1.67	1.65	<0.20	<0.20	0.00953	0.00996	<0.040	<0.040	<0.00010	<0.00010	0.125	0.128	<0.25	0.6	0.662	404	0.52	8.8	<0.20	<0.20	77.8	85.8	2800
7/10/2018	CM_14PIT-PIPE	N	296	<0.0020	<0.0060	1.7	1.52	<0.10	<0.20	0.0114	0.0105	<0.020	<0.040	<0.000050	<0.00010	0.121	0.13	<0.25	0.718	0.681	357	<0.50	7.2	<0.10	<0.20	92.5	87.1	2760
7/17/2018	CM_14PIT-PIPE	N	410	<0.0020	<0.0030	1.66	1.7	<0.20	0.12	0.00925	0.00996	<0.040	<0.020	<0.00010	<0.000050	0.119	0.142	<0.25	0.619	0.692	424	<0.50	7	<0.20	<0.10	82.6	88.6	2740
7/24/2018	CM_14PIT-PIPE	N	419	<0.0020	<0.0060	1.69	1.57	<0.20	<0.20	0.00963	0.0101	<0.040	<0.040	<0.00010	<0.00010	0.132	0.119	<0.25	0.694	0.645	386	1.21	8.6	<0.20	<0.20	81.9	84.4	2760
7/31/2018	CM_14PIT-PIPE	N	403	<0.0020	<0.0020	1.57	1.66	<0.20	0.17	0.0101	0.0102	<0.040	<0.020	<0.00010	<0.000050	0.123	0.13	<0.25	0.678	0.673	407	<0.50	10	<0.20	<0.10	89.7	85.1	2780
8/7/2018	CM_14PIT-PIPE	N	413	<0.0020	<0.0060	1.66	1.68	0.11	<0.20	0.011	0.00977	<0.020	<0.040	<0.000050	<0.00010	0.122	0.126	<0.25	0.702	0.661	395	0.69	8.4	<0.10	<0.20	95.7	87.7	2810
8/15/2018	CM_14PIT-PIPE	N	424	<0.0020	<0.0060	1.6	1.5	<0.20	<0.20	0.00973	0.00949	<0.040	<0.040	<0.00010	<0.00010	0.12	0.127	<0.25	0.645	0.643	421	0.66	8.6	<0.20	<0.20	89.1	84.5	2520
8/21/2018	CM_14PIT-PIPE	N	256	<0.0020	<0.0060	1.6	1.68	<0.20	<0.20	0.00911	0.00953	<0.040	<0.040	<0.00010	<0.00010	0.117	0.126	<1.0	0.625	0.645	399	<0.50	9.2	<0.20	<0.20	83.8	87	2240
8/21/2018	CM_14PIT-PIPE	FD	203	<0.0020	<0.0060	1.61	1.72	<0.20	<0.20	0.00886	0.00949	<0.040	<0.040	<0.00010	<0.00010	0.119	0.135	<1.0	0.65	0.666	402	0.84	9.3	<0.20	<0.20	89.8	88.3	2240
8/28/2018	CM_14PIT-PIPE	N	421	<0.0020	<0.0060	1.7	1.66	<0.10	<0.20	0.0104	0.00981	<0.020	<0.040	<0.000050	<0.00010	0.126	0.124	<1.0	0.677	0.652	415	0.83	9.3	<0.10	<0.20	96.8	91.5	2900
9/4/2018	CM_14PIT-PIPE	N	424	<0.0020	<0.0060	1.64	1.59	<0.20	<0.20	0.0102	0.00992	<0.040	<0.040	<0.00010	<0.00010	0.127	0.125	<0.25	0.621	0.647	377	<0.50	9.2	<0.20	<0.20	89.8	86	2380
9/11/2018	CM_14PIT-PIPE	N	451	<0.0020	<0.0060	1.59	1.58	0.15	<0.20	0.00925	0.00899	<0.020	<0.040	<0.000050	<0.00010	0.127	0.132	<0.25	0.661	0.608	386	0.79	8.7	<0.10	0.22	85.7	85.3	2900
9/18/2018	CM_14PIT-PIPE	N	421	<0.0020	<0.0020	1.64	1.69	<0.20	0.21	0.00926	0.00948	<0.040	<0.020	<0.00010	<0.000050	0.127	0.125	<0.25	0.656	0.643	417	<0.50	9	<0.20	<0.10	85	85.9	2870
9/25/2018	CM_14PIT-PIPE	N	458	<0.0020	<0.0060	1.61	1.67	<0.20	<0.20	0.00887	0.00898	<0.040	<0.040	<0.00010	<0.00010	0.123	0.131	<0.25	0.648	0.646	385	<0.50	9	<0.20	<0.20	83.1	85	2780
10/2/2018	CM_14PIT-PIPE	N	455	<0.0020	<0.0060	1.59	1.57	0.12	0.26	0.00979	0.00905	<0.020	<0.040	<0.000050	<0.00010	0.119	0.126	<0.25	0.635	0.629	339	1.44	8.9	<0.10	<0.60	88	87.8	2770
10/9/2018	CM_14PIT-PIPE	N	430	<0.0020	<0.0060	1.5	1.63	0.12	<0.20	0.00891	0.00903	<0.020	<0.040	<0.000050	<0.00010	0.129	0.144	<0.25	0.567	0.638	402	1.09	9.2	<0.10	<0.20	87	86	2540
10/16/2018	CM_14PIT-PIPE	N	429	<0.0020	<0.0060	1.6	1.62	0.17	<0.20	0.0092	0.00946	<0.020	<0.040	<0.000050	<0.00010	0.141	0.134	<0.25	0.562	0.671	387	<0.50	8.8	<0.10	<0.20	88	89.1	2900
10/16/2018	CM_14PIT-PIPE	FD	371	<0.0020	<0.0020	1.52	1.74	0.15	0.17	0.00929	0.00957	<0.020	<0.020	<0.000050	<0.000050	0.129	0.134	<0.25	0.586	0.619	405	0.71	8.7	<0.10	<0.10	88.9	86.5	2720
10/23/2018	CM_14PIT-PIPE	N	445	<0.0020	<0.0020	1.61	1.5	<0.10	<0.40	0.00981	0.00921	<0.020	<0.020	<0.000050	<0.000050	0.129	0.127	<0.25	0.656	0.64	371	0.67	8.6	<0.10	0.38	87.5	86.8	2740
10/29/2018	CM_14PIT-PIPE	N	350	0.0076	<0.0060	1.57	1.6	0.11	<0.20	0.0097	0.00987	<0.020	<0.040	<0.000050	<0.00010	0.135	0.141	<0.25	0.626	0.694	422	<0.50	8.7	<0.10	<0.20	91.8	95.5	2800
11/5/2018	CM_14PIT-PIPE	N	409	<0.0020	<0.0060	1.64	1.52	<0.20	<0.20	0.00928	0.00969	<0.040	<0.040	<0.00010	<0.00010	0.138	0.129	<0.25	0.662	0.668	406	<0.50	9.3	<0.20	<0.20	87.6	85	2830
11/12/2018	CM_14PIT-PIPE	FD	414	<0.0020	<0.0020	1.61	1.59	<0.10	0.11	0.0098	0.00926	<0.020	<0.020	<0.000050	<0.000050	0.131	0.137	<0.25	0.616	0.677	412	0.6	12.4	<0.10	<0.10	86.9	88.8	2810
11/12/2018	CM_14PIT-PIPE	N	385	<0.0020	<0.0020	1.62	1.62	<0.20	0.15	0.0095	0.00948	<0.040	<0.020	<0.00010	<0.000050	0.134	0.129	<0.25	0.598	0.643	413	<0.50	11.4	<0.20	<0.10	84.8	88.5	2800
11/20/2018	CM_14PIT-PIPE	N	417	<0.0020	<0.0060	1.74	1.6	<0.20	<0.20	0.00944	0.00951	<0.040	<0.040	<0.00010	<0.00010	0.142	0.134	<0.25	0.623	0.656	380	0.99	13.6	<0.20	<0.20	85.3	86.2	2820
11/20/2018	CM_14PIT-PIPE	FD	420	<0.0020	<0.0060	1.64	1.5	<0.20	<0.20	0.00933	0.0094	<0.040	<0.040	<0.00010	<0.00010	0.126	0.127	<0.25	0.648	0.625	404	0.6	13.7	<0.20	<0.20	86.6	87	2830
11/27/2018	CM_14PIT-PIPE	N	445	<0.0020	<0.0060	1.56	1.56	<0.20	<0.20	0.0106	0.0105	<0.040	<0.040	<0.00010	<0.00010	0.126	0.14	<0.25	0.719	0.687	428	<0.50	13.4	<0.20	<0.20	95.1	92.9	2820
11/27/2018	CM_14PIT-PIPE	FD	431	<0.0020	<0.0060	1.53	1.58	<0.20	<0.20	0.0106	0.0102	<0.040	<0.040	<0.00010	<0.00010	0.127	0.129	<0.25	0.579	0.652	428	<0.50	13.5	<0.20	<0.20	92	90.8	2750
12/3/2018	CM_14PIT-PIPE	N	438	<0.0020	<0.0060	1.63	1.56	<0.20	<0.20	0.00909	0.00907	<0.040	<0.040	<0.00010	<0.00010	0.145	0.126	<0.25	0.628	0.662	398	0.6	12.4	<0.20	<0.20	86.8	88	2870
12/11/2018	CM_14PIT-PIPE	N	427	<0.0020	0.0075	1.51	1.52	<0.20	<0.20	0.00965	0.00897	<0.040	<0.040	<0.00010	<0.00010	0.128	0.124	<0.25	0.612	0.643	414	0.83	12.4	<0.20	<0.20	90.9	89.4	2820
12/11/2018	CM_14PIT-PIPE	FD	440	0.0022	<0.0060	1.5	1.51	<0.20	<0.20	0.00977	0.00907	<0.040	<0.040	<0.00010	<0.00010	0.121	0.126	<0.25	0.561	0.641	407	<0.50	12.4	<0.20	<0.20	91.6	87	2780
12/18/2018	CM_14PIT-PIPE	N	442	<0.0020	<0.0060	1.52	1.52	0.29	<0.20	0.00919	0.00941	<0.040	<0.040	<0.00010	<0.00010	0.142	0.129	<0.25	0.626	0.657	401	0.64	12.3	<0.20	<0.20	90.1	88.7	2760
12/18/2018	CM_14PIT-PIPE	FD	445	<0.0020	<0.0060	1.53	1.53	0.25	<0.20	0.00919	0.00876	<0.040	<0.040	<0.00010	<0.00010	0.139	0.127	<0.25	0.623	0.595	391	0.6	13.4	<0.20	0.51	92.8	87.2	2780
12/28/2018	CM_14PIT-PIPE	N	432	<0.0020	<0.0060	1.57	1.59	<0.20	<0.20	0.00948	0.00979	<0.040	<0.040	<0.00010	<0.00010	0.139	0.14	<0.25	0.688	0.657	417	0.5	13	<0.20	0.68	92.3	89.8	2790
12/28/2018	CM_14PIT-PIPE	FD	445	<0.0020	<0.0060	1.62	1.53	<0.20	<0.20	0.00946	0.00923	<0.040	<0.040	<0.00010	<0.00010	0.138	0.138	<0.25	0.702	0.643	388	0.61	12.8	<0.20	<0.20	91.3	89.2	2700

		Parameter	Copper	Copper	Dissolved Oxygen, Field	Fluoride	Hardness, Total as Dissolved CaCO3	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel	Nitrate Nitrogen (NO3), AS N	Nitrite Nitrogen (NO2), AS N	Nitrogen, Ammonia (AS N)
		CAS_RN	7440-50-8	7440-50-8	DO-F	16984-48-8	HARD	7439-89-6	7439-89-6	7439-92-1	7439-92-1	7439-93-2	7439-93-2	7439-95-4	7439-96-5	7439-96-5	7439-97-6	7439-97-6	7439-98-7	7439-98-7	7440-02-0	7440-02-0	14797-55-8	14797-65-0	7664-41-7
		Fraction	D	T	N	D	N	D	T	D	T	D	T	T	D	T	D	T	D	T	D	T	N	N	N
		Unit	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_14PIT-PIPE	N	<0.50	<0.50	2.63	0.21	1820	0.015	0.065	<0.050	<0.050	0.122	0.123	185	0.525	0.577	<0.0050	<0.00050	0.00573	0.00558	429	425	49.3	0.0058	0.67
1/10/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.49	0.17	1670	<0.010	0.071	<0.050	<0.10	0.129	0.129	170	0.511	0.521	<0.0050	<0.00050	0.0054	0.00594	410	421	47.3	<0.0050	0.67
1/16/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.88	0.15	1620	0.018	0.067	<0.050	<0.050	0.125	0.131	175	0.535	0.54	<0.0050	<0.00050	0.00525	0.00569	411	421	46.2	<0.0050	0.66
1/23/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.61	0.17	1940	0.026	0.052	<0.10	<0.10	0.127	0.12	197	0.531	0.54	<0.0050	<0.00050	0.0057	0.00564	413	422	48.4	<0.0050	0.68
1/30/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.77	0.2	1810	0.022	0.065	<0.10	<0.10	0.128	0.13	178	0.497	0.508	<0.0050	<0.00050	0.00574	0.00591	406	414	46.5	<0.0050	0.65
2/6/2018	CM_14PIT-PIPE	N			0.77																				
2/6/2018	CM_14PIT-PIPE	N	<0.50	<1.0		0.21	1660	<0.020	0.06	<0.10	<0.10	0.116	0.128	152	0.512	0.507	<0.0050	<0.00050	0.00529	0.00579	419	418	46.3	<0.0050	0.89
2/14/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.76	0.15	1790	0.023	0.064	<0.10	<0.10	0.122	0.121	174	0.498	0.542	<0.0050	<0.00050	0.00546	0.00584	392	421	44.4	<0.0050	0.65
2/19/2018	CM_14PIT-PIPE	N			0.87																				
2/19/2018	CM_14PIT-PIPE	N	<0.50	<0.50		0.12	1730	<0.010	0.066	<0.050	<0.050	0.113	0.124	164	0.561	0.498	<0.0050	<0.00050	0.00518	0.00572	405	382	44.6	<0.0050	0.64
2/19/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.12	1770	0.013	0.036	<0.050	<0.10	0.112	0.127	195	0.527	0.537	<0.0050	<0.00050	0.00528	0.00519	407	424	45.1	0.0059	0.62
3/1/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.53	0.17	1810	<0.020	0.075	<0.10	<0.10	0.134	0.129	180	0.511	0.552	<0.0050	<0.00050	0.00585	0.00545	413	415	48.4	<0.0050	0.66
3/7/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.51	0.21	1670	<0.020	0.085	<0.10	<0.10	0.119	0.12	175	0.501	0.506	<0.0050	<0.00050	0.00528	0.00546	406	398	46.8	<0.0050	0.69
3/13/2018	CM_14PIT-PIPE	FD	<0.50	<0.50		0.16	1690	<0.020	0.122	<0.10	<0.050	0.115	0.124	182	0.505	0.516	<0.0050	<0.00050	0.00586	0.0053	402	415	46.5	<0.0050	0.66
3/13/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.65	0.17	1680	<0.020	0.14	<0.10	<0.050	0.118	0.124	188	0.502	0.524	<0.0050	<0.00050	0.00577	0.00529	401	428	46.1	0.0069	0.66
3/19/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.68	0.206	1780	0.07	0.142	<0.10	<0.10	0.127	0.107	170	0.485	0.491	<0.0050	<0.00050	0.00551	0.00545	395	403	46.9	0.002	0.66
3/27/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.63	0.16	1600	<0.020	0.162	<0.10	<0.10	0.12	0.123	173	0.494	0.543	<0.0050	<0.00050	0.00511	0.00527	389	427	47.5	0.0065	0.66
4/4/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.54	0.17	1820	<0.020	0.156	<0.10	<0.10	0.125	0.132	192	0.52	0.566	<0.0050	<0.00050	0.00544	0.00537	399	429	47.1	<0.0050	0.68
4/10/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.29	0.22	1750	<0.020	0.122	<0.10	<0.10	0.116	0.127	180	0.551	0.569	<0.0050	<0.00050	0.00521	0.00551	398	421	44.3	<0.0050	0.68
4/17/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.51	0.22	1830	<0.020	0.098	<0.10	<0.10	0.101	0.105	155	0.521	0.488	<0.0050	<0.00050	0.00512	0.00525	384	359	42.3	<0.0050	0.63
4/24/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.45	0.22	1500	<0.020	0.121	<0.10	<0.10	0.0996	0.116	155	0.415	0.438	<0.0050	<0.00050	0.00448	0.00442	324	336	35.1	0.0281	0.51
5/1/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.79	0.29	1500	<0.010	0.042	<0.050	<0.10	0.104	0.0999	142	0.312	0.312	<0.0050	<0.00050	0.00495	0.00483	317	314	30.3	0.0422	0.412
5/7/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.31	0.22	1500	<0.020	0.047	<0.10	<0.10	0.112	0.111	150	0.344	0.348	<0.0050	<0.00050	0.00506	0.00517	329	339	35.4	<0.0050	0.458
5/16/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.28	0.283	1610	<0.010	0.048	<0.050	<0.10	0.135	0.107	155	0.387	0.371	<0.0050	<0.00050	0.00488	0.0047	350	350	39	0.0195	0.51
5/22/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.28	0.21	1650	<0.010	0.052	<0.050	<0.10	0.116	0.122	169	0.295	0.299	<0.0050	<0.00050	0.00489	0.00519	352	348	41.2	0.0144	0.575
5/29/2018	CM_14PIT-PIPE	N	<0.50	<1.0	3.63	0.33	1620	<0.010	0.044	<0.050	<0.10	0.113	0.122	168	0.391	0.414	<0.0050	<0.00050	0.00507	0.00507	354	359	43.2	0.0112	0.58
6/5/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.65	0.2	1710	<0.020	0.029	<0.10	<0.10	0.125	0.121	166	0.425	0.415	<0.0050	<0.00050	0.00511	0.00489	374	366	41.6	<0.0050	0.62
6/12/2018	CM_14PIT-PIPE	N	<0.50	<1.0	1.8	0.2	1690	<0.020	0.025	<0.10	<0.10	0.121	0.128	171	0.45	0.448	<0.0050	<0.00050	0.00521	0.00517	357	346	41.4	0.0071	0.62
6/19/2018	CM_14PIT-PIPE	N	<0.50	<0.50	4.52	0.32	1620	<0.010	0.036	<0.050	<0.050	0.121	0.123	163	0.449	0.453	<0.0050	<0.00050	0.00488	0.00524	361	366	42.1	0.0099	0.63
6/25/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.91	0.19	1700	<0.020	0.028	<0.10	<0.10	0.118	0.12	165	0.446	0.457	<0.0050	<0.00050	0.0051	0.00516	364	380	41.8	0.0062	0.67
7/3/2018	CM_14PIT-PIPE	N	<0.50	<1.0	1.51	0.32	1610	<0.020	0.028	<0.10	<0.10	0.12	0.129	181	0.423	0.466	<0.0050	<0.00050	0.00529	0.00532	337	376	40.6	<0.0050	0.66
7/10/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.4	0.22	1810	<0.010	0.04	<0.050	<0.10	0.113	0.123	154	0.512	0.477	<0.0050	<0.00050	0.00542	0.00508	390	378	41.1	<0.0050	0.69
7/17/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.32	0.21	1640	<0.020	0.047	<0.10	<0.050	0.12	0.124	177	0.448	0.479	<0.0050	<0.00050	0.00508	0.00521	359	379	40	0.0052	0.71
7/24/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.48	0.24	1640	<0.020	0.029	<0.10	<0.10	0.121	0.116	165	0.437	0.459	<0.0050	<0.00050	0.00508	0.00511	358	362	41.8	<0.0050	0.69
7/31/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.18	0.3	1650	<0.020	0.026	<0.10	<0.050	0.125	0.124	176	0.476	0.48	<0.0050	<0.00050	0.00509	0.00552	392	357	46	0.0225	0.69
8/7/2018	CM_14PIT-PIPE	N	<0.50	<1.0	1.01	0.25	1990	<0.010	0.045	<0.050	<0.10	0.112	0.125	169	0.524	0.451	<0.0050	<0.00050	0.00542	0.00541	402	371	38.6	<0.0050	0.62
8/15/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.24	0.22	1470	<0.020	0.04	<0.10	<0.10	0.112	0.135	181	0.509	0.515	<0.0050	<0.00050	0.00542	0.00498	381	372	38.3	0.0059	0.64
8/21/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.22	<0.40	1550	<0.020	0.046	<0.10	<0.10	0.112	0.123	182	0.449	0.482	<0.0050	<0.00050	0.00516	0.00519	361	368	39.1	<0.020	0.62
8/21/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		<0.40	1660	<0.020	0.048	<0.10	<0.10	0.115	0.12	182	0.491	0.492	<0.0050	<0.00050	0.00512	0.00517	383	370	39.3	<0.020	0.61
8/28/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.42	<0.40	1890	0.011	0.023	<0.050	<0.10	0.124	0.124	175	0.536	0.472	<0.0050	<0.00050	0.0053	0.00536	405	386	38.9	<0.020	0.63
9/4/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.56	0.3	1670	<0.020	0.044	<0.10	<0.10	0.118	0.116	169	0.499	0.464	<0.0050	<0.00050	0.00518	0.00508	381	369	40.5	0.0101	0.63
9/11/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.28	0.3	1800	0.014	0.04	<0.050	<0.10	0.117	0.122	172	0.537	0.477	<0.0050	<0.00050	0.00528	0.0051	381	368	39.9	<0.0050	0.64
9/18/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.62	0.31	1740	<0.020	0.024	<0.10	<0.050	0.115	0.129	179	0.488	0.523	<0.0050	<0.00050	0.0048	0.00529	368	368	40.1	<0.0050	0.66
9/25/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.52	0.22	1620	<0.020	0.024	<0.10	<0.10	0.111	0.117	171	0.465	0.478	<0.0050	<0.00050	0.00485	0.00503	356	367	39.6	0.0055	0.68
10/2/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.63	0.3	1770	<0.010	0.032	<0.050	<0.10	0.117	0.127	189	0.512	0.514	<0.0050	<0.00050	0.00509	0.00544	382	376	40.7	0.0056	0.67
10/9/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.42	0.27	1760	0.03	0.032	<0.050	<0.10	0.122	0.129	188	0.527	0.496	<0.0050	<0.00050	0.00495	0.00522	389	366	39.9	0.0066	0.64
10/16/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.53	0.29	1830	<0.010	0.02	<0.050	<0.10	0.124	0.119	178	0.54	0.503	<0.0050	<0.00050	0.00524	0.00517	404	387	39.7	<0.0050	0.62
10/16/2018	CM_14PIT-PIPE	FD	<0.50	<0.50		0.29	1780	<0.010	0.026	<0.050	<0.050	0.121	0.125	181	0.529	0.481	<0.0050	<0.00050	0.00507	0.00525	399	377	39.4	<0.0050	0.64
10/23/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.74	0.28	1670	<0.010	0.04	<0.050	<0.050	0.125	0.119	177	0.519	0.495	<0.0050	<0.00050	0.00506	0.0048	369	376	39.7	<0.0050	0.61
10/29/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.46	0.2	1840	<0.010	0.023	<0.050	<0.10	0.12	0.122	195	0.544	0.524	<0.0050	<0.00050	0.00526	0.00524	406	402	39.4	<0.0050	0.62
11/5/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.4	0.3	1780	<0.020	0.047	0.55	0.5	0.11	0.122	177	0.514	0.487	<0.0050	<0.00050	0.00515	0.00488	384	370	38.5	<0.0050	0.64
11/13/2018	CM_14PIT-PIPE	FD	<0.50	<0.50		0.29	1720	<0.010	0.055	<0.050	<0.050	0.129	0.129	182	0.507	0.549	<0.0050	<0.00050	0.00496	0.00508	368	384	37.4	<0.0050	0.62
11/13/2018	CM_14PIT-PIPE	N	<0.50	<0.50	0.62	0.26	1670	<0.010	0.041	<0.10	<0.050	0.119	0.132	182	0.479	0.545	<0.0050	<0.00050	0.00517	0.00499	361	382	34.6	0.0056	0.64
11/20/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.59	0.3	1720	<0.020	0.066	<0.10	<0.10	0.119	0.118	169	0.498	0.489	<0.0050	<0.00050	0.00529	0.00481	369	370	38.2	<0.0050	0.606
11/20/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.29	1670	<0.020	0.042	<0.10	<0.10	0.112	0.123	182	0.496	0.5	<0.0050	<0.00050	0.00503	0.0049	379	365	38.2	<0.0050	0.618
11/27/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.58	0.31	1920	<0.020	0.035	<0.10	<0.10	0.125	0.124	200	0.541	0.524	<0.0050	<0.00050	0.005	0.00494	407	392	37.7	<0.0050	0.58
11/27/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.31	1850	<0.020	0.066	<0.10	<0.10	0.12	0.125	195	0.52	0.522	<0.0050	<0.00050	0.00491	0.00504	392	387	37.9	<0.0050	0.492
12/3/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.7	0.32	1770	<0.020	0.027	<0.10	<0.10	0.125	0.124	179	0.498	0.506	<0.0050	<0.00050	0.00525	0.0049	358	377	38	<0.0050	0.624
12/11/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.63	0.29	1790	<0.020	0.06	<0.10	<0.10	0.125	0.123	182	0.52	0.503	<0.0050	<0.00050	0.00495	0.00501	389	385	38.6	<0.0050	0.582
12/11/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.29	1770	0.023	0.071	<0.10	<0.10	0.116	0.123	181	0.525	0.494	<0.0050	<0.00050	0.00478	0.0049	394	374	38.4	<0.0050	0.589
12/18/2018	CM_14PIT-PIPE	N	<0.50	<1.0	0.79	0.29	1810	<0.020	0.049	<0.10	<0.10	0.122	0.124	180	0.546	0.53	<0.0050	<0.00050	0.00499	0.00495	385	380	38.4	<0.0050	0.652
12/18/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.29	1810	<0.020	0.048	<0.10	<0.10	0.129	0.132	189	0.523	0.521	<0.0050	<0.00050	0.00495	0.00511	395	376	38.6	<0.0050	0.587
12/28/2018	CM_14PIT-PIPE	N	<0.50	<1.0	1.76	0.29	1790	<0.020	0.052	<0.10	<0.10	0.127	0.124	181	0.55	0.534	<0.0050	<0.00050	0.00491	0.00518	394	382	39.6	<0.0050	0.646
12/28/2018	CM_14PIT-PIPE	FD	<0.50	<1.0		0.29	1760	<0.020	0.065	<0.10	<0.10	0.122	0.122	177	0.538	0.528	<0.0050	<0.00050	0.00524	0.00494	391	381	38.8	<0.0050	0.612

		Parameter	Ortho-Phosphate	pH, Field	pH, LAB	Phosphorus	Potassium	Selenium	Selenium	Silver	Silver	Sodium	Specific conductivity, temperature-corrected value (25C)	Strontium	Strontium	Sulphate (AS SO4)	Temperature, Field	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Total Dissolved Solids (Residue, Filterable)
		CAS_RN	14265-44-2-0	pH-F	pH-L	7723-14-0	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	SPEC_COND	7440-24-6	7440-24-6	14808-79-8	TEMP-F	7440-28-0	7440-28-0	7440-31-5	7440-31-5	7440-32-6	7440-32-6	TDS
		Fraction	N	N	N	N	T	D	T	D	T	T	N	D	T	D	N	D	T	D	T	D	T	N
		Unit	mg/l	ph units	ph units	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	uS/cm at 25C	mg/l	mg/l	mg/l	deg c	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM 14PIT-PIPE	N	<0.0010	6.97	7.64	0.0021	8.06	1.91	1.85	<0.010	<0.010	84.6	2523	1.69	1.76	1390	3.4	0.14	0.125	<0.00010	<0.00010	<10	<10	2680
1/10/2018	CM 14PIT-PIPE	N	<0.0010	6.99	7.39	0.0022	8.6	1.83	1.64	<0.010	<0.020	79.9	2920	1.62	1.74	1340	3.4	0.141	0.128	<0.00010	<0.00020	<10	<10	2690
1/16/2018	CM 14PIT-PIPE	N	<0.0010	7	8.12	0.001	8.27	2.01	1.66	<0.010	<0.020	82.8	2883	1.59	1.66	1320	3.4	0.142	0.151	<0.00010	<0.00010	<10	<10	2520
1/23/2018	CM 14PIT-PIPE	N	0.001	6.97	7.7	0.0026	8.28	1.7	1.57	<0.020	<0.020	86.8	2848	1.65	1.76	1380	3.4	0.126	0.125	<0.00020	<0.00020	<10	<10	2800
1/30/2018	CM 14PIT-PIPE	N	0.0010	6.97	7.73	0.003	8.48	1.92	1.96	<0.020	<0.020	86.2	2916	1.78	1.82	1360	3.4	0.14	0.149	<0.00020	<0.00020	<10	<10	2610
2/6/2018	CM 14PIT-PIPE	N		7									2912				3.4							
2/6/2018	CM 14PIT-PIPE	N	0.0031		7.86	0.0028	8.35	1.59	1.63	<0.020	<0.020	81.8		1.62	1.71	1340		0.139	0.134	<0.00020	<0.00020	<10	<10	2620
2/14/2018	CM 14PIT-PIPE	N	<0.0010	7.01	7.61	0.0026	8.2	1.63	1.62	<0.020	<0.020	85.4	2721	1.69	1.8	1310	3.4	0.137	0.152	<0.00020	<0.00020	<10	<10	2570
2/19/2018	CM 14PIT-PIPE	N		7.02									2894				3.4							
2/19/2018	CM 14PIT-PIPE	N	0.0022		7.49	0.0028	7.92	1.97	1.73	<0.010	<0.010	77.7		1.56	1.65	1340		0.138	0.127	<0.00010	<0.00010	<10	<10	2640
2/19/2018	CM 14PIT-PIPE	FD	0.0022		7.51	0.0027	8.39	1.93	1.59	<0.010	<0.020	85.5		1.61	1.58	1350		0.148	0.134	<0.00010	<0.00020	<10	<10	2590
3/1/2018	CM 14PIT-PIPE	N	<0.0010	6.99	8.12	0.0017	8.51	1.75	1.46	<0.020	<0.020	84	2912	1.7	1.58	1420	3.4	0.141	0.127	<0.00020	<0.00020	<10	<10	2680
3/7/2018	CM 14PIT-PIPE	N	<0.0010	7.03	7.83	0.0025	8.04	1.86	1.55	<0.020	<0.020	80.6	2921	1.61	1.66	1370	3.4	0.137	0.141	<0.00020	<0.00020	<10	<10	2600
3/12/2018	CM 14PIT-PIPE	FD	<0.0010		8.11	0.0025	8.56	1.52	1.81	<0.020	<0.010	79.4		1.7	1.67	1390		0.141	0.125	<0.00020	<0.00010	<10	<10	2460
3/12/2018	CM 14PIT-PIPE	N	<0.0010	6.96	8.14	0.0012	8.66	1.6	1.8	<0.020	<0.010	83	2947	1.71	1.69	1370	3.5	0.143	0.125	<0.00020	<0.00020	<10	<10	2450
3/19/2018	CM 14PIT-PIPE	N	<0.0010	6.99	7.89	0.0015	7.79	1.41	1.76	<0.020	<0.020	79.1	2999	1.72	1.63	1370	3.4	0.134	0.145	<0.00020	<0.00020	<10	<10	2510
3/27/2018	CM 14PIT-PIPE	N	<0.0010	6.89	8.06	0.003	8.24	1.39	1.54	<0.020	<0.020	83.4	1720	1.52	1.63	1390	3.4	0.133	0.152	<0.00020	<0.00020	<10	<10	2400
4/4/2018	CM 14PIT-PIPE	N	<0.0010	6.97	8.12	0.0033	8.3	1.48	1.39	<0.020	<0.020	83.4	2932	1.72	1.79	1420	3.4	0.141	0.144	<0.00020	<0.00020	<10	<10	2630
4/10/2018	CM 14PIT-PIPE	N	<0.0010	6.96	8.16	0.0027	8.6	1.57	1.56	<0.020	<0.020	89.2	2924	1.65	1.68	1400	3.4	0.118	0.144	<0.00020	<0.00020	<10	<10	2650
4/17/2018	CM 14PIT-PIPE	N	<0.0010	6.97	8.17	0.0015	7.42	1.6	1.7	<0.020	<0.020	77.3	2891	1.59	1.75	1380	3.4	0.126	0.135	<0.00020	<0.00020	<10	<10	2610
4/24/2018	CM 14PIT-PIPE	N	<0.0010	7.02	8.13	0.0033	7.64	1.57	1.21	<0.020	<0.020	80.2	2723	1.61	1.64	1380	3.5	0.132	0.122	<0.00020	<0.00020	<10	<10	2450
5/1/2018	CM 14PIT-PIPE	N	<0.0010	7.07	8.18	0.0024	7.14	1.66	1.26	<0.010	<0.020	71.1	2505	1.61	1.57	1180	3.2	0.112	0.111	<0.00010	<0.00020	<10	<10	2120
5/7/2018	CM 14PIT-PIPE	N	<0.0010	7.02	8.26	0.0019	7.38	1.67	1.3	<0.020	<0.020	76	2462	1.57	1.62	1240	3.2	0.127	0.129	<0.00020	<0.00020	<10	<10	2240
5/16/2018	CM 14PIT-PIPE	N	<0.0010	7.02	7.8	0.0016	7.42	1.15	1.78	<0.010	<0.020	73	2538	1.54	1.5	1140	3.2	0.123	0.12	<0.00010	<0.00020	<10	<10	2280
5/22/2018	CM 14PIT-PIPE	N	<0.0010	7.06	8.11	0.0027	7.86	1.59	1.27	<0.010	<0.020	82.3	2686	1.56	1.6	1270	3.2	0.119	0.129	<0.00010	<0.00020	<10	<10	2310
5/29/2018	CM 14PIT-PIPE	N	0.002	7.57	7.95	0.003	7.98	1.24	1.16	<0.010	<0.020	82.6	2713	1.61	1.55	1320	3.26	0.135	0.122	<0.00010	<0.00020	<10	<10	2390
6/5/2018	CM 14PIT-PIPE	N	<0.0010	7.06	7.87	0.0024	7.72	1.39	1.91	<0.020	<0.020	81	2754	1.6	1.48	1290	3.3	0.135	0.122	<0.00020	<0.00020	<10	<10	2390
6/12/2018	CM 14PIT-PIPE	N	0.0013	7.17	8.02	0.004	8.14	1.12	1.48	<0.020	<0.020	80.7	2789	1.6	1.54	1300	3.3	0.137	0.137	<0.00020	<0.00020	<10	<10	2470
6/19/2018	CM 14PIT-PIPE	N	0.0016	7.85	7.88	0.0031	7.85	1.51	1.75	<0.010	<0.010	84.1	2804	1.47	1.6	1340	3.32	0.132	0.136	<0.00010	<0.00010	<10	<10	2490
6/26/2018	CM 14PIT-PIPE	N	0.0014	7.04	7.81	0.0025	8.07	1.26	1.93	<0.020	<0.020	84.1	2803	1.54	1.56	1330	3.4	0.126	0.146	<0.00020	<0.00020	<10	<10	2540
7/3/2018	CM 14PIT-PIPE	N	0.0019	7.13	7.84	<0.0010	8.16	1.84	1.96	<0.020	<0.020	85.7	2820	1.52	1.59	1320	3.4	0.135	0.139	<0.00020	<0.00020	<10	<10	2480
7/10/2018	CM 14PIT-PIPE	N	<0.0010	7.08	8.03	0.0017	8.27	1.24	1.62	<0.010	<0.020	84.5	2831	1.79	1.6	1340	3.4	0.141	0.122	<0.00010	<0.00020	<10	<10	2480
7/17/2018	CM 14PIT-PIPE	N	<0.0010	7.35	8.17	0.0026	8.46	1.87	1.78	<0.020	<0.010	86.3	2779	1.53	1.66	1320	3.34	0.13	0.128	<0.00020	<0.00010	<10	<10	2640
7/24/2018	CM 14PIT-PIPE	N	0.0024	7.23	8.08	0.0026	7.57	1.78	1.62	<0.020	<0.020	76.8	2720	1.62	1.55	1270	3.4	0.121	0.12	<0.00020	<0.00020	<10	<10	2590
7/31/2018	CM 14PIT-PIPE	N	0.0017	7.17	7.87	<0.0010	8.08	2.5	1.16	<0.020	<0.010	86.7	2864	1.56	1.72	1470	3.4	0.135	0.143	<0.00020	<0.00010	<10	<10	2700
8/7/2018	CM 14PIT-PIPE	N	<0.0010	7.16	8.02	0.0049	7.97	2.58	2.36	<0.010	<0.020	82.1	2852	1.79	1.61	1370	3.4	0.148	0.142	<0.00010	<0.00020	<10	<10	2700
8/15/2018	CM 14PIT-PIPE	N	0.0022	7.16	8.14	<0.0020	8.33	2.26	2.26	<0.020	<0.020	82.6	2870	1.54	1.59	1320	3.5	0.133	0.136	<0.00020	<0.00020	<10	<10	2630
8/21/2018	CM 14PIT-PIPE	N	0.0014	6.88	8	<0.0020	7.89	2.15	2.26	<0.020	<0.020	84.6	2878	1.54	1.61	1310	3.5	0.126	0.126	<0.00020	<0.00020	<10	<10	2620
8/21/2018	CM 14PIT-PIPE	FD	0.0015		8.08	<0.0020	8.03	1.95	2.26	<0.020	<0.020	85.1		1.55	1.6	1320		0.136	0.133	<0.00020	<0.00020	<10	<10	2600
8/28/2018	CM 14PIT-PIPE	N	<0.0010	7.05	7.28	<0.0020	8.04	2.61	2.15	<0.010	<0.020	86	2920	1.75	1.64	1360	3.4	0.148	0.128	<0.00010	<0.00020	<10	<10	2550
9/4/2018	CM 14PIT-PIPE	N	0.0021	7.22	8.22	0.0021	8	2.25	2.05	<0.020	<0.020	81.4	2911	1.58	1.62	1380	3.5	0.129	0.132	<0.00020	<0.00020	<10	<10	2670
9/11/2018	CM 14PIT-PIPE	N	0.0019	7.02	8.23	<0.0010	7.61	2.38	1.96	<0.010	<0.020	79.2	2924	1.62	1.62	1390	3.5	0.128	0.127	<0.00010	<0.00020	<10	<10	2540
9/18/2018	CM 14PIT-PIPE	N	0.0019	7.23	7.57	<0.0020	8.35	2.48	2.45	<0.020	<0.010	84.4	2888	1.58	1.71	1370	3.4	0.144	0.132	<0.00020	<0.00010	<10	<10	2520
9/25/2018	CM 14PIT-PIPE	N	0.0028	7.16	7.83	0.0023	7.77	2.37	1.98	<0.020	<0.020	80.9	2893	1.57	1.59	1370	3.4	0.128	0.124	<0.00020	<0.00020	<10	<10	2550
10/2/2018	CM 14PIT-PIPE	N	0.0024	7.22	8.03	<0.0020	8.35	2.38	1.91	<0.010	<0.020	82.3	2911	1.67	1.61	1380	3.4	0.133	0.127	<0.00010	<0.00020	<10	<10	2520
10/9/2018	CM 14PIT-PIPE	N	<0.0010	6.92	7.42	<0.0020	7.92	2.65	2.1	<0.010	<0.020	85.5	2890	1.59	1.67	1370	3.4	0.125	0.135	<0.00010	<0.00020	<10	<10	2490
10/16/2018	CM 14PIT-PIPE	N	0.0017	7.26	8.15	<0.0020	8.16	2.26	1.97	<0.010	<0.020	84.5	2903	1.63	1.61	1380	3.5	0.123	0.13	<0.00010	<0.00020	<10	<10	2400
10/16/2018	CM 14PIT-PIPE	FD	<0.0010		8.09	<0.0020	8.08	2.79	2.18	<0.010	<0.010	84.9		1.58	1.71	1370		0.128	0.124	<0.00010	<0.00010	<10	<10	2530
10/23/2018	CM 14PIT-PIPE	N	0.0018	7.35	7.62	<0.0020	8.18	2.14	2.07	<0.010	<0.010	82	2925	1.55	1.55	1360	3.4	0.146	0.129	<0.00010	<0.00010	<10	<10	2140
10/29/2018	CM 14PIT-PIPE	N	0.003	7.16	7.99	0.0049	8.24	2.61	1.94	<0.010	<0.020	85.3	2944	1.67	1.69	1370	3.4	0.128	0.141	<0.00010	<0.00020	<10	<10	2330
11/5/2018	CM 14PIT-PIPE	N	0.0011	7.09	8.1	<0.0020	7.84	1.68	1.64	<0.020	<0.020	79.1	2925	1.74	1.57	1310	3.4	0.133	0.123	<0.00020	<0.00020	<10	<10	2700
11/12/2018	CM 14PIT-PIPE	FD	0.0022		8.02	<0.0020	8.28	1.96	1.33	<0.010	<0.010	85.4		1.61	1.69	1290		0.135	0.122	<0.00010	<0.00010	<10	<10	2420
11/12/2018	CM 14PIT-PIPE	N	0.0023	6.85	8.03	<0.0020	8.24	1.57	1.69	<0.020	<0.010	86.4	2923	1.63	1.63	1190	3.5	0.125	0.128	<0.00020	<0.00010	<10	<10	2470
11/20/2018	CM 14PIT-PIPE	N	0.0015	6.95	7.67	<0.0020	7.9	1.92	1.65	<0.020	<0.020	76.2	2929	1.72	1.46	1320	3.5	0.144	0.144	<0.00020	<0.00020	<10	<10	2400
11/20/2018	CM 14PIT-PIPE	FD	0.0021		8.08	<0.0020	7.85	1.68	1.66	<0.020	<0.020	82.4		1.62	1.55	1320		0.138	0.132	<0.00020	<0.00020	<10	<10	2440
11/27/2018	CM 14PIT-PIPE	N	0.0027	7.2	7.5	<0.0020	8.4	1.93	1.71	<0.020	<0.020	91.8	2928	1.74	1.71	1290	3.5	0.133	0.134	<0.00020	<0.00020	<10	<10	2490
11/27/2018	CM 14PIT-PIPE	FD	0.0025		7.64	0.0283	8.23	1.81	1.75	<0.020	<0.020	90		1.7	1.71	1300		0.129	0.133	<0.00020	<0.00020	<10	<10	2370
12/3/2018	CM 14PIT-PIPE	N	0.0047	7.35	7.96	<0.0020	7.74	1.88	1.6	<0.020	<0.020	76.4	2915	1.62	1.48	1310	3.5	0.123	0.131	<0.00020	<0.00020	<10	<10	2710
12/11/2018	CM 14PIT-PIPE	N	0.0173	7.16	7.64	<0.0020	8	2.09	1.55	<0.020	<0.020	81.6	2902	1.61	1.66	1320	3.5	0.131	0.12	<0.00020	<0.00020	<10	<10	2710
12/11/2018	CM 14PIT-PIPE	FD	0.0178		7.67	<0.0020	7.93	2.11	1.84	<0.020	<0.020	82.2		1.61	1.59	1320		0.126	0.121	<0.00020	<0.00020	<10	<10	2600
12/18/2018	CM 14PIT-PIPE	N	0.0211	6.85	7.86	<0.0020	8.25	1.98	1.87	<0.020	<0.020	81.4	2919	1.65	1.52	1310	3.5	0.127	0.124	<0.00020	<0.00020	<10	<10	2850
12/18/2018	CM 14PIT-PIPE	FD	0.0217		7.97	<0.0020	7.97	1.91	1.81	<0.020	<0.020	82.9		1.61	1.56	1320		0.13	0.13	<0.00020	<0.00020	<10	<10	2670
12/28/2018	CM 14PIT-PIPE	N	0.0213	6.91	7.51	0.0031	8.24	1.74	1.67	<0.020	<0.020	82.4	2925	1.56	1.56	1350	3.5	0.142	0.123	<0.00020	<0.00020	<10	<10	2670
12/28/2018	CM 14PIT-PIPE	FD	0.0224		7.37	0.003	7.89	1.74	1.69	<0.020	<0.020	81.9		1.62	1.52	1320		0.124	0.124	<0.00020	<0.00020	<10	<10	2470

		Parameter	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids, Lab	Turbidity Lab	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc
		CAS_RN	TKN	C-TOC	TSS-L	TURB-L	7440-61-1	7440-61-1	7440-62-2	7440-62-2	7440-66-6	7440-66-6
		Fraction	N	T	N	N	D	T	D	T	D	T
		Unit	mg/l	mg/l	mg/l	ntu	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_14PIT-PIPE	N	0.664	0.84	1.1	0.68	16.9	15.1	<0.50	<0.50	87.8	81.9
1/10/2018	CM_14PIT-PIPE	N	<0.10	<0.50	<1.0	0.55	16.8	16.1	<0.50	<1.0	89	94
1/16/2018	CM_14PIT-PIPE	N	0.076	<0.50	<1.0	0.33	16.5	17.6	<0.50	<0.50	84.4	88.2
1/23/2018	CM_14PIT-PIPE	N	<0.25	0.96	<1.0	0.55	16.1	16.5	<1.0	<1.0	90	91.1
1/30/2018	CM_14PIT-PIPE	N	0.123	0.71	<1.0	0.66	16.9	17.9	<1.0	<1.0	86.2	91.4
2/6/2018	CM_14PIT-PIPE	N										
2/6/2018	CM_14PIT-PIPE	N	0.132	<0.50	<1.0	0.56	17.3	17.1	<1.0	<1.0	92	89.7
2/14/2018	CM_14PIT-PIPE	N	0.427	0.66	<1.0	0.57	16.8	18.3	<1.0	<1.0	83.2	89.3
2/19/2018	CM_14PIT-PIPE	N										
2/19/2018	CM_14PIT-PIPE	N	0.855	<0.50	<1.0	0.65	16.9	16.8	<0.50	<0.50	86.6	77.1
2/19/2018	CM_14PIT-PIPE	FD	0.582	<0.50	<1.0	0.7	17.4	16.8	<0.50	<1.0	86.6	87.2
3/11/2018	CM_14PIT-PIPE	N	<0.050	1.9	<1.0	0.2	16.1	16.3	<1.0	<1.0	87.9	89.4
3/27/2018	CM_14PIT-PIPE	N	0.3	0.71	<1.0	0.71	16.3	17	<1.0	<1.0	87	84.6
3/13/2018	CM_14PIT-PIPE	FD	0.45	0.98	<1.0	1.47	16.9	18.9	<1.0	<0.50	86.1	83.1
3/13/2018	CM_14PIT-PIPE	N	0.55	0.72	<1.0	1.52	17.1	19.8	<1.0	<0.50	87.1	82.6
3/19/2018	CM_14PIT-PIPE	N	0.245	<0.50	1.4	1.52	16.3	17.2	<1.0	<1.0	86.8	86
3/27/2018	CM_14PIT-PIPE	N	1.07	<0.50	<1.0	1.44	17.6	18.3	<1.0	<1.0	82	84.2
4/4/2018	CM_14PIT-PIPE	N	1.16	<0.50	1	0.51	16.7	17.6	<1.0	<1.0	85.2	95.2
4/10/2018	CM_14PIT-PIPE	N	0.148	<0.50	<1.0	1.29	15.3	17.6	<1.0	<1.0	85.6	90.8
4/17/2018	CM_14PIT-PIPE	N	0.104	0.82	<1.0	0.61	15.5	16.7	<1.0	<1.0	83.1	72.9
4/24/2018	CM_14PIT-PIPE	N	0.46	<0.50	1.1	0.88	14.5	12.9	<1.0	<1.0	82.5	84.2
5/1/2018	CM_14PIT-PIPE	N	0.058	0.52	<1.0	0.47	13	12.7	<0.50	<1.0	71.3	72
5/7/2018	CM_14PIT-PIPE	N	<0.050	<0.50	5.8	0.57	14.2	14.9	<1.0	<1.0	71.3	74.5
5/16/2018	CM_14PIT-PIPE	N	0.277	<0.50	<1.0	0.45	14.1	14	<0.50	<1.0	73.7	82.8
5/22/2018	CM_14PIT-PIPE	N	0.073	0.58	<1.0	0.27	13.7	14.3	<0.50	<1.0	77.2	80.8
5/29/2018	CM_14PIT-PIPE	N	0.625	0.52	<1.0	0.35	14.5	13.8	<0.50	<1.0	74.1	75
6/5/2018	CM_14PIT-PIPE	N	<0.050	<0.50	1	0.41	14.7	14.4	<1.0	<1.0	82	81.8
6/12/2018	CM_14PIT-PIPE	N	<0.050	0.65	<1.0	0.4	14.6	14.6	<1.0	<1.0	77.4	74.8
6/19/2018	CM_14PIT-PIPE	N	0.57	<0.50	1	0.46	14.2	15	<0.50	<0.50	77.4	75
6/26/2018	CM_14PIT-PIPE	N	1.08	<0.50	<1.0	0.37	14.5	15.4	<1.0	<1.0	77.7	84.4
7/3/2018	CM_14PIT-PIPE	N	1.05	<0.50	<1.0	0.39	14.8	15.5	<1.0	<1.0	73.9	78.8
7/10/2018	CM_14PIT-PIPE	N	1.15	<0.50	1.1	0.32	15.1	16	<0.50	<1.0	79.3	80
7/17/2018	CM_14PIT-PIPE	N	1.44	<0.50	<1.0	0.46	15.2	15.1	<1.0	<0.50	77.1	80.2
7/24/2018	CM_14PIT-PIPE	N	0.379	1.41	<1.0	0.29	15.9	15.2	<1.0	<1.0	74.8	79.5
7/31/2018	CM_14PIT-PIPE	N	0.256	<0.50	<1.0	0.6	15.9	15.5	<1.0	<0.50	84.1	77.4
8/7/2018	CM_14PIT-PIPE	N	1.02	0.72	<1.0	0.43	15.6	15.7	<0.50	<1.0	86.9	79.6
8/15/2018	CM_14PIT-PIPE	N	1.23	0.88	<1.0	0.45	16.5	15.2	<1.0	<1.0	82.8	82.3
8/21/2018	CM_14PIT-PIPE	N	0.561	<0.50	1.9	0.67	16.3	16.2	<1.0	<1.0	76	75.5
8/21/2018	CM_14PIT-PIPE	FD	0.41	0.74	<1.0	0.51	16.5	16.2	<1.0	<1.0	78.9	75.9
8/28/2018	CM_14PIT-PIPE	N	1.29	0.84	<1.0	0.43	16.5	16.2	<0.50	<1.0	85.4	82
9/4/2018	CM_14PIT-PIPE	N	0.975	<0.50	<1.0	0.44	15	15.4	<1.0	<1.0	82.1	82.7
9/11/2018	CM_14PIT-PIPE	N	0.244	0.75	<1.0	0.3	14.9	15.7	<0.50	<1.0	84.2	83.2
9/18/2018	CM_14PIT-PIPE	N	0.314	<0.50	1.4	0.33	15.7	15.3	<1.0	<0.50	87	86.9
9/25/2018	CM_14PIT-PIPE	N	<0.050	<0.50	<1.0	0.24	15.1	15.9	<1.0	<1.0	78.1	78.9
10/2/2018	CM_14PIT-PIPE	N	0.302	1.47	<1.0	0.28	15.3	15.2	<0.50	<1.0	84.1	86.3
10/9/2018	CM_14PIT-PIPE	N	0.117	0.91	1.9	0.17	14.6	14.9	<0.50	<1.0	78.4	78.3
10/16/2018	CM_14PIT-PIPE	N	0.306	<0.50	3.3	0.33	15	15.6	<0.50	<1.0	79.3	84.1
10/16/2018	CM_14PIT-PIPE	FD	1.13	0.89	<1.0	0.32	15	16.2	<0.50	<0.50	78.5	80.6
10/23/2018	CM_14PIT-PIPE	N	0.29	0.82	2.8	0.33	16.9	16.4	<0.50	<0.50	86.8	80.4
10/29/2018	CM_14PIT-PIPE	N	0.067	1.02	<1.0	0.4	14.6	17.7	<0.50	<1.0	86.3	88.8
11/5/2018	CM_14PIT-PIPE	N	1.17	0.53	1.7	0.51	16.3	15.3	<1.0	<1.0	89.7	85.6
11/13/2018	CM_14PIT-PIPE	FD	0.857	0.59	1.3	0.33	16.9	16.7	<0.50	<0.50	84.8	90.1
11/13/2018	CM_14PIT-PIPE	N	0.626	<0.50	<1.0	0.32	16.4	16.9	<1.0	<0.50	86	89.2
11/20/2018	CM_14PIT-PIPE	N	<0.050	0.97	1.9	0.49	17.3	16.8	<1.0	<1.0	87	86.6
11/20/2018	CM_14PIT-PIPE	FD	<0.050	0.95	1.4	0.3	16.6	16.1	<1.0	<1.0	90	81.4
11/27/2018	CM_14PIT-PIPE	N	0.735	<0.50	2.4	0.33	15.4	15.5	<1.0	<1.0	90.4	90.9
11/27/2018	CM_14PIT-PIPE	FD	0.365	<0.50	2.2	0.53	15.5	15.2	<1.0	<1.0	88.9	87.8
12/3/2018	CM_14PIT-PIPE	N	0.363	0.9	1.2	0.65	14.9	16.7	<1.0	<1.0	84	87
12/11/2018	CM_14PIT-PIPE	N	0.768	0.52	1.3	0.68	15.5	14.9	<1.0	<1.0	87.4	84.8
12/11/2018	CM_14PIT-PIPE	FD	0.421	<0.50	1.7	0.59	14.9	14.5	<1.0	<1.0	88.9	85.2
12/18/2018	CM_14PIT-PIPE	N	0.891	0.54	2.4	0.95	15.9	15.6	<1.0	<1.0	95.7	86.9
12/18/2018	CM_14PIT-PIPE	FD	0.902	0.7	3.5	0.78	16.1	15.2	<1.0	<1.0	87	86.2
12/28/2018	CM_14PIT-PIPE	N	0.81	0.8	3.3	0.39	16.8	16.4	<1.0	<1.0	92.3	91
12/28/2018	CM_14PIT-PIPE	FD	0.73	0.86	2.6	0.3	16.4	16.2	<1.0	<1.0	90.5	89.2

CM_34PIPEDIS

Parameter		Alkalinity, Total (As CaCO3)	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Bromide	Cadmium	Cadmium	Calcium	Carbon, Dissolved Organic	Chloride	Chromium	Chromium	Cobalt	Cobalt	Conductivity, Lab
CAS_RN		Alk-T	7429-90-5	7429-90-5	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	7440-41-7	7440-41-7	7440-69-9	7440-69-9	7440-42-8	7440-42-8	24959-67-9	7440-43-9	7440-43-9	7440-70-2	C-DOC	16887-00-6	7440-47-3	7440-47-3	7440-48-4	7440-48-4	COND-L
Fraction		N	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	D	T	T	D	D	D	T	D	T	N
Unit		mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	uS/cm
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
4/20/2018	CM_34PIPEDIS	N	283	<0.0020	0.043	2.39	2.43	0.27	0.46	0.0201	0.031	<0.020	<0.040	<0.00050	<0.00010	0.163	0.167	<0.25	0.51	0.536	210	1.42	4.3	<0.10	<0.20	90.7	92.2	2050
4/24/2018	CM_34PIPEDIS	N	218	<0.0020	0.0184	2.33	2.43	0.27	0.32	0.027	0.0297	<0.040	<0.040	<0.00010	<0.00010	0.159	0.143	<0.25	<0.010	0.334	299	0.69	4.2	<0.20	<0.20	71.2	89.7	2040
4/24/2018	CM_34PIPEDIS	N																										
5/1/2018	CM_34PIPEDIS	N	228	<0.0020	0.024	1.74	2.68	<0.20	0.3	0.00892	0.0292	<0.040	<0.040	<0.00010	<0.00010	0.122	0.159	<0.25	0.727	0.642	311	<0.50	4.3	<0.20	<0.20	62.8	100	2070
5/8/2018	CM_34PIPEDIS	N	283	<0.0020	0.0499	2.46	2.46	0.27	0.3	0.0225	0.0273	<0.040	<0.040	<0.00010	<0.00010	0.164	0.158	<0.25	0.556	0.553	302	0.66	4.3	<0.20	<0.20	91.3	94.4	2120
5/16/2018	CM_34PIPEDIS	N	302	<0.0020	0.025	2.41	2.4	0.29	0.3	0.0253	0.0285	<0.020	<0.040	<0.00050	<0.00010	0.165	0.164	<0.050	0.587	0.586	301	<0.50	3.77	<0.10	<0.20	108	101	2100
5/22/2018	CM_34PIPEDIS	N	229	<0.0020	0.0196	2.44	2.62	0.24	0.3	0.0216	0.0242	<0.020	<0.040	<0.00050	<0.00010	0.162	0.172	<0.25	0.604	0.6	320	<0.50	3.2	<0.10	<0.20	106	102	2020
5/29/2018	CM_34PIPEDIS	N	279	<0.0020	0.0131	2.7	2.82	0.23	0.28	0.0209	0.0213	<0.020	<0.040	<0.00050	<0.00010	0.148	0.179	<0.25	0.637	0.667	324	<0.50	3.8	<0.10	<0.20	108	112	2070
6/5/2018	CM_34PIPEDIS	N	280	<0.0020	0.0149	2.75	2.87	0.22	0.3	0.0206	0.0222	<0.040	<0.040	<0.00010	<0.00010	0.165	0.174	<0.25	0.729	0.726	304	<0.50	2.7	<0.20	<0.20	116	116	2060
6/12/2018	CM_34PIPEDIS	N	352	<0.0020	0.0408	2.31	2.3	<0.20	0.25	0.0178	0.0199	<0.040	<0.040	<0.00010	<0.00010	0.173	0.178	<0.25	0.676	0.694	309	<0.50	2.7	<0.20	<0.20	101	105	2030
6/19/2018	CM_34PIPEDIS	N	307	<0.0020	0.0221	2.26	2.4	0.21	0.23	0.0175	0.0187	<0.020	<0.020	<0.00050	<0.00050	0.163	0.159	<0.25	0.704	0.733	320	<0.50	2.58	<0.10	<0.10	104	106	2100
6/26/2018	CM_34PIPEDIS	N	294	<0.0020	0.0275	2.24	2.23	<0.20	0.26	0.0165	0.02	<0.040	<0.040	<0.00010	<0.00010	0.166	0.173	<0.25	0.76	0.806	301	<0.50	5.4	<0.20	<0.20	105	108	2040
7/4/2018	CM_34PIPEDIS	N	258	<0.0020	0.0226	2.61	2.56	<0.20	0.25	0.0199	0.0227	<0.040	<0.020	<0.00010	<0.00050	0.197	0.205	<0.25	1.29	1.42	292	<0.50	2.7	<0.20	<0.10	127	131	1950
7/10/2018	CM_34PIPEDIS	N	220	<0.0020	0.0164	2.68	2.68	0.22	0.29	0.0188	0.0206	<0.020	<0.020	<0.00050	<0.00050	0.178	0.194	<0.25	1.18	1.2	296	1.22	<2.5	<0.10	<0.10	129	129	1990
7/17/2018	CM_34PIPEDIS	N	231	<0.0020	0.0091	2.59	2.58	0.21	0.28	0.0175	0.0194	<0.020	<0.020	<0.00050	<0.00050	0.158	0.187	<0.25	1.12	1.14	299	<0.50	<2.5	<0.10	<0.10	123	123	1920
7/25/2018	CM_34PIPEDIS	N	279	<0.0020	0.0102	2.47	2.44	0.22	0.25	0.0161	0.0185	<0.020	<0.020	<0.00050	<0.00050	0.172	0.174	<0.050	0.941	1.01	286	0.88	3.2	<0.10	<0.10	118	116	1970
7/31/2018	CM_34PIPEDIS	N	254	0.0029	0.0226	2.4	2.55	0.22	0.31	0.0195	0.0193	<0.040	<0.020	<0.00010	<0.00050	0.168	0.186	<0.25	0.941	0.83	304	<0.50	3.3	<0.20	<0.10	113	108	1960
8/7/2018	CM_34PIPEDIS	N	282	<0.0020	0.0064	2.51	2.48	0.23	0.23	0.019	0.0188	<0.020	<0.020	<0.00050	<0.00050	0.169	0.192	<0.25	0.91	0.879	295	0.97	2.6	<0.10	<0.10	124	112	1980
8/15/2018	CM_34PIPEDIS	N	291	<0.0020	<0.0020	2.64	2.37	0.23	0.25	0.0174	0.0167	<0.020	<0.020	<0.00050	<0.00050	0.162	0.199	<0.25	0.971	0.898	307	0.57	<2.5	<0.10	<0.10	114	115	1730
8/21/2018	CM_34PIPEDIS	N	169	<0.0020	0.0053	2.39	2.55	0.2	0.3	0.0172	0.0171	<0.020	<0.020	<0.00050	<0.00050	0.153	0.183	<0.50	0.853	0.867	284	<0.50		2.7	<0.10	<0.10	104	107	1630
8/28/2018	CM_34PIPEDIS	N	273	<0.0040	<0.0090	2.85	2.62	0.22	0.31	0.0174	0.0163	<0.020	<0.020	<0.00050	<0.00050	0.183	0.207	<0.50	0.795	0.836	251	<0.50		2.3	<0.10	0.19	102	103	1910
9/4/2018	CM_34PIPEDIS	N	240	<0.0020	<0.0060	2.52	2.51	0.22	0.26	0.02	0.018	<0.020	<0.040	<0.00050	<0.00010	0.169	0.168	<0.25	0.561	0.561	236	<0.50	<2.5	<0.10	<0.20	88.9	83	1630
9/11/2018	CM_34PIPEDIS	N	261	<0.0020	0.0064	2.24	2.29	0.26	0.29	0.0188	0.0183	<0.020	<0.020	<0.00050	<0.00050	0.181	0.173	<0.25	0.463	0.456	250	<0.50	<2.5	<0.10	<0.10	75.3	76.6	1860
10/23/2018	CM_34PIPEDIS	N	269	<0.0020	<0.0020	2.37	2.29	0.24	<0.50	0.0178	0.0174	<0.020	<0.020	<0.00050	<0.00050	0.189	0.187	<0.25	0.626	0.581	210	1.37	<2.5	<0.10	<0.10	77.4	76.2	1660
10/29/2018	CM_34PIPEDIS	N	286	<0.0020	0.0041	2.76	2.74	0.27	0.26	0.0168	0.0165	<0.020	<0.020	<0.00050	<0.00050	0.184	0.184	<0.25	0.69	0.746	266	<0.50	<2.5	<0.10	0.25	101	105	1800
10/31/2018	CM_34PIPEDIS	N	275	<0.0020	0.0033	2.77	2.68	0.23	0.3	0.0167	0.0168	<0.040	<0.020	<0.00010	<0.00050	0.177	0.195	<0.25	0.627	0.629	257	0.67	<2.5	<0.20	0.22	87.5	89.1	1750
11/5/2018	CM_34PIPEDIS	N	263	<0.0020	0.0038	2.84	2.69	0.28	0.29	0.0169	0.0169	<0.020	<0.020	<0.00050	<0.00050	0.185	0.192	<0.25	0.665	0.631	253	<0.50	<2.5	<0.10	<0.10	93.7	89.1	1770
11/13/2018	CM_34PIPEDIS	N	287	<0.0020	0.0183	2.53	2.57	0.24	0.32	0.0174	0.0202	<0.020	<0.020	<0.00050	<0.00050	0.177	0.183	<0.25	0.555	0.626	264	<0.50	<2.5	<0.10	<0.10	82.7	87.9	1810

Parameter		Copper	Copper	Dissolved Oxygen, Field	Fluoride	Hardness, Total or Dissolved CaCO3	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel	Nitrate Nitrogen (NO3), ASN	Nitrite Nitrogen (NO2), ASN	Nitrogen, Ammonia (ASN)
CAS_RN		7440-50-8	7440-50-8	DO-F	16984-48-8	HARD	7439-89-6	7439-89-6	7439-92-1	7439-92-1	7439-93-2	7439-93-2	7439-95-4	7439-96-5	7439-96-5	7439-97-6	7439-97-6	7439-98-7	7439-98-7	7440-02-0	7440-02-0	14797-55-8	14797-65-0	7664-41-7
Fraction		D	T	N	D	N	D	T	D	T	D	T	T	D	T	D	T	D	T	D	T	N	N	N
Unit		ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
4/20/2018	CM_34PIPEDIS	N	<0.50	<1.0	8.06	0.26	1190	<0.010	0.176	<0.050	<0.10	0.112	0.123	96.8	0.474	0.476	<0.0050	0.00062	0.00949	0.00928	319	328	8.51	0.102	1.61
4/24/2018	CM_34PIPEDIS	N	<0.50	<1.0		0.29	1110	<0.020	0.023	<0.10	<0.10	0.0955	0.0997	99.7	0.238	0.497	<0.0050	0.00054	0.00902	0.00947	295	322	9.08	0.0852	1.55
4/24/2018	CM_34PIPEDIS	N			12.92																				
5/1/2018	CM_34PIPEDIS	N	<0.50	<1.0	11.49	0.46	1490	<0.020	0.052	<0.10	<0.10	0.11	0.108	109	0.308	0.525	<0.0050	0.00052	0.00502	0.00922	319	352	8.61	0.0721	1.69
5/8/2018	CM_34PIPEDIS	N	<0.50	<1.0	14.97	0.4	1190	<0.020	0.078	<0.10	0.14	0.0916	0.0936	107	0.512	0.526	<0.0050	0.00099	0.00919	0.00905	328	335	7.71	0.0633	1.46
5/16/2018	CM_34PIPEDIS	N	<0.50	<1.0	12.99	0.336	1240	<0.010	0.073	<0.050	<0.10	0.126	0.101	107	0.58	0.547	<0.0050	0.00108	0.00879	0.00859	371	357	6.57	0.0416	1.41
5/22/2018	CM_34PIPEDIS	N	<0.50	<1.0	11.6	0.24	1340	<0.010	0.077	<0.050	0.12	0.108	0.11	114	0.559	0.545	<0.0050	0.00096	0.00952	0.00956	372	356	6.7	0.0338	1.46
5/29/2018	CM_34PIPEDIS	N	<0.50	<1.0	16.87	0.37	1250	<0.010	0.054	<0.050	<0.10	0.1	0.113	116	0.52	0.561	<0.0050	0.00059	0.0101	0.01	352	393	7.29	0.0336	1.51
6/5/2018	CM_34PIPEDIS	N	<0.50	<1.0	10.96	0.25	1240	<0.020	0.055	<0.10	<0.10	0.105	0.107	105	0.54	0.518	<0.0050	0.00055	0.01	0.0104	407	412	9.8	0.0417	1.54
6/12/2018	CM_34PIPEDIS	N	<0.50	<1.0	12.54	0.23	1220	<0.020	0.048	<0.10	<0.10	0.106	0.109	110	0.54	0.566	<0.0050	0.00058	0.00798	0.00809	351	360	6.41	0.0262	1.32
6/19/2018	CM_34PIPEDIS	N	<0.50	<0.50	16.5	0.26	1190	<0.010	0.04	<0.050	0.057	0.1	0.107	109	0.53	0.542	<0.0050	<0.00050	0.00782	0.0085	366	384	6.94	0.0301	1.3
6/26/2018	CM_34PIPEDIS	N	<0.50	<1.0	13.15	0.22	1210	<0.020	0.042	<0.10	<0.10	0.0988	0.1	104	0.522	0.558	<0.0050	0.00053	0.00738	0.00752	372	397	8.32	0.027	1.25
7/4/2018	CM_34PIPEDIS	N	<0.50	<0.50	9.89	0.26	1100	<0.020	0.038	<0.10	<0.050	0.101	0.102	101	0.528	0.576	<0.0050	<0.00050	0.00972	0.0101	451	467	9.79	0.0476	1.22
7/10/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.99	0.27	1180	<0.010	0.035	<0.050	<0.050	0.0964	0.107	101	0.591	0.564	<0.0050	<0.00050	0.00954	0.00972	457	455	9.99	0.0395	1.49
7/17/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.41	0.27	1190	<0.010	0.029	<0.050	<0.050	0.0976	0.099	100	0.551	0.549	<0.0050	<0.00050	0.00928	0.00948	444	446	9.28	0.0402	1.46
7/25/2018	CM_34PIPEDIS	N	<0.50	<0.50	13.5	0.39	1140	<0.010	0.032	<0.050	<0.050	0.0946	0.0977	97.4	0.528	0.515	<0.0050	<0.00050	0.00869	0.00891	419	409	9.48	0.0384	1.36
7/31/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.87	0.37	1100	0.027	0.015	<0.050	<0.050	0.108	0.105	101	0.519	0.522	<0.0050	<0.00050	0.00858	0.0093	407	376	9.07	0.0376	1.37
8/7/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.65	0.38	1300	<0.010	0.023	<0.050	<0.050	0.0959	0.104	100	0.581	0.506	<0.0050	<0.00050	0.00881	0.00866	428	393	8.99	0.0452	1.3
8/15/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.07	0.41	1020	<0.010	0.017	<0.050	<0.050	0.1	0.101	98.7	0.55	0.503	<0.0050	<0.00050	0.00947	0.00862	424	422	7.84	0.0338	1.25
8/21/2018	CM_34PIPEDIS	N	<0.50	<0.50	11.54	0.34	1000	<0.010	0.019	<0.050	<0.050	0.0921	0.104	102	0.465	0.502	<0.0050	<0.00050	0.00812	0.0085	381	390	8.13	0.02	1.16
8/28/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.25	0.42	1140	<0.010	0.026	<0.050	<0.050	0.1	0.0992	99.5	0.42	0.447	<0.0050	<0.00050	0.00977	0.00919	386	425	8.24	0.029	1.22
9/4/2018	CM_34PIPEDIS	N	<0.50	<1.0	12.28	0.37	992	<0.010	<0.020	<0.050	<0.10	0.092	0.089	82.3	0.25	0.321	<0.0050	<0.00050	0.00871	0.0091	365	340	8.29	0.0445	1.08
9/11/2018	CM_34PIPEDIS	N	<0.50	<0.50	12.84	0.38	1050	<0.010	0.012	<0.050	<0.050	0.0929	0.0942	99.9	0.327	0.329	<0.0050	<0.00050	0.00831	0.00827	318	323	7.8	0.0448	0.94
10/23/2018	CM_34PIPEDIS	N	<0.50	<0.50	14.32	0.39	889	<0.010	0.015	<0.050	<0.050	0.0968	0.0864	80.1	0.294	0.263	<0.0050	<0.00050	0.00801	0.00763	350	344	5.71	0.0372	0.81
10/29/2018	CM_34PIPEDIS	N	<0.50	<0.50	14.04	0.39	1070	<0.010	0.025	<0.050	<0.050	0.107	0.0962	97.3	0.42	0.406	<0.0050	<0.00050	0.00963	0.00949	409	413	8.49	0.0416	1.17
10/31/2018	CM_34PIPEDIS	N	<0.50	<0.50	14.36	0.37	1030	<0.020	0.019	<0.10	<0.050	0.0954	0.0959	88.1	0.329	0.241	<0.0050	<0.00050	0.00937	0.00907	356	359	7.74	0.041	1.01
11/5/2018	CM_34PIPEDIS	N	0.54	<0.50	14.72	0.39	1070	<0.010	0.018	<0.050	<0.050	0.0932	0.101	86.7	0.365	0.245	<0.0050	<0.00050	0.00981	0.00948	382	364	7.22	0.026	1.14
11/13/2018	CM_34PIPEDIS	N	<0.50	<0.50	14.41	0.36	1000	<0.010	0.081	<0.050	0.072	0.1	0.102	95.1	0.345	0.394	<0.0050	<0.00050	0.00847	0.00845	341	368	7.33	0.029	1.12

		Parameter	Ortho-Phosphate	pH, Field	pH, LAB	Phosphorus	Potassium	Selenium	Selenium	Silver	Silver	Sodium	Specific conductivity, temperature corrected value (25C)	Strontium	Strontium	Sulphate (AS SO4)	Temperature, Field	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Total Dissolved Solids (Residue, Filterable)
		CAS_RN	14265-44-2-0	pH-F	pH-L	7723-14-0	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	SPEC_COND	7440-24-6	7440-24-6	14808-79-8	TEMP-F	7440-28-0	7440-28-0	7440-31-5	7440-31-5	7440-32-6	7440-32-6	TDS
		Fraction	N	N	N	N	T	D	T	D	T	T	N	D	T	D	N	D	T	D	T	D	T	N
		Unit	mg/l	ph units	ph units	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	uS/cm at 25C	mg/l	mg/l	mg/l	deg c	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
4/20/2018	CM_34PIPEDIS	N	<0.0010	7.23	8.18	0.0028	6.19	2.3	1.92	<0.010	<0.020	55.7	2095	2.06	2.01	1020	6.4	0.098	0.1	<0.00010	<0.00020	<10	<10	1690
4/24/2018	CM_34PIPEDIS	N	<0.0010		8.14	0.0032	6.52	2.37	2.17	<0.020	<0.020	57.5		1.89	2.12	1050		0.075	0.072	<0.00020	<0.00020	<10	<10	1790
4/24/2018	CM_34PIPEDIS	N		8.2									2055				5.9							
5/1/2018	CM_34PIPEDIS	N	<0.0010	7.47	8.02	0.0023	6.51	2.26	1.88	<0.020	<0.020	60.6	2000	1.6	2.26	1060	5.8	0.112	0.099	<0.00020	<0.00020	<10	<10	1790
5/8/2018	CM_34PIPEDIS	N	<0.0010	7.33	8.13	0.0025	6.08	1.55	1.56	<0.020	<0.020	59.4	2110	1.98	2.04	1080	5.8	0.091	0.1	<0.00020	<0.00020	<10	<10	1820
5/16/2018	CM_34PIPEDIS	N	<0.0010	7.29	8.01	0.0028	6.2	1.8	1.41	<0.010	<0.020	55	2138	2.09	2.08	1000	6	0.094	0.075	<0.00010	<0.00020	<10	<10	1870
5/22/2018	CM_34PIPEDIS	N	0.0011	7.43	8.05	0.0045	6.5	1.74	1.36	<0.010	<0.020	60.4	2140	2.13	2.19	1080	7.9	0.096	0.101	<0.00010	<0.00020	<10	<10	1830
5/29/2018	CM_34PIPEDIS	N	<0.0010	7.89	8.06	0.0024	6.88	1.81	1.56	<0.010	<0.020	63.4	1373	2.2	2.11	1100	16.07	0.109	0.109	<0.00010	<0.00020	<10	<10	1900
6/5/2018	CM_34PIPEDIS	N	<0.0010	7.37	8.08	0.0026	6.2	1.71	1.88	<0.020	<0.020	58.8	2105	2.12	2.06	1060	8.9	0.118	0.115	<0.00020	<0.00020	<10	<10	1840
6/12/2018	CM_34PIPEDIS	N	0.0011	7.29	8.09	0.0022	6.57	1.45	1.48	<0.020	<0.020	56.8	2122	2.05	2.1	1080	5.7	0.097	0.1	<0.00020	<0.00020	<10	<10	1810
6/19/2018	CM_34PIPEDIS	N	<0.0010	8.07	8.02	0.003	6.31	2.26	1.89	<0.010	<0.010	59.5	2091	1.99	2.14	1080	5.64	0.101	0.102	<0.00010	<0.00010	<10	<10	1870
6/26/2018	CM_34PIPEDIS	N	0.0012	7.28	8.07	0.003	6.45	1.86	1.78	<0.020	<0.020	58	2061	1.98	1.99	1040	6.3	0.1	0.104	<0.00020	<0.00020	<10	<10	1920
7/4/2018	CM_34PIPEDIS	N	<0.0010	7.45	8.34	0.0022	6.5	3.41	3.09	<0.020	<0.010	57.9	1948	2	2.09	963	6	0.127	0.149	<0.00020	<0.00010	<10	<10	1740
7/10/2018	CM_34PIPEDIS	N	<0.0010	7.37	8.1	<0.0010	6.51	2.94	2.76	<0.010	<0.010	56.6	1960	2.15	2.04	1000	6.3	0.124	0.12	<0.00010	<0.00010	<10	<10	1670
7/17/2018	CM_34PIPEDIS	N	<0.0010	7.54	8.19	0.002	6.51	2	3.02	<0.010	<0.010	57.6	1961	2.06	1.99	975	6.95	0.123	0.113	<0.00010	<0.00010	<10	<10	1750
7/25/2018	CM_34PIPEDIS	N	<0.0010	7.34	8.12	0.0021	5.81	2.5	2.24	<0.010	<0.010	53.3	2015	1.98	1.96	1060	6.6	0.112	0.122	<0.00010	<0.00010	<10	<10	1730
7/31/2018	CM_34PIPEDIS	N	<0.0010	7.48	8.08	0.002	6.61	1.94	2.2	<0.020	<0.010	57.6	2025	1.9	2.09	1100	7.3	0.11	0.114	<0.00020	<0.00020	<10	<10	1780
8/7/2018	CM_34PIPEDIS	N	<0.0010	7.44	8.24	0.0025	6.28	1.98	2	<0.010	<0.010	57.7	1986	2.14	2	1040	7.7	0.114	0.115	<0.00010	<0.00010	<10	<10	1740
8/15/2018	CM_34PIPEDIS	N	<0.0010	7.45	8.28	<0.0020	6.31	2	2.11	<0.010	<0.010	53.2	1944	1.95	1.87	917	8.5	0.121	0.11	<0.00010	<0.00010	<10	<10	1730
8/21/2018	CM_34PIPEDIS	N	0.0012	7.05	8.14	<0.0020	6.12	1.95	2.04	<0.010	<0.010	56.3	1946	1.8	1.9	909	8.5	0.115	0.113	<0.00010	<0.00010	<10	<10	1680
8/28/2018	CM_34PIPEDIS	N	<0.0010	7.41	7.63	<0.0020	5.96	2.78	2.39	0.011	<0.010	53.7	1878	1.91	1.75	903	8.6	0.125	0.113	<0.00010	<0.00010	<10	<10	1560
9/4/2018	CM_34PIPEDIS	N	0.0013	7.66	8.25	0.0021	5.61	2.82	2.58	<0.010	<0.020	50.5	1824	1.66	1.72	870	8.9	0.112	0.11	<0.00010	<0.00020	<10	<10	1580
9/11/2018	CM_34PIPEDIS	N	<0.0010	7.39	8.3	<0.0010	5.72	3.39	2.59	<0.010	<0.010	50.2	1825	1.71	1.79	897	8.9	0.104	0.114	<0.00010	<0.00010	<10	<10	1530
10/23/2018	CM_34PIPEDIS	N	<0.0010	7.49	7.98	0.0075	5.59	3.21	3.25	<0.010	<0.010	51	1700	1.52	1.56	765	5.5	0.123	0.114	<0.00010	<0.00010	<10	<10	1330
10/29/2018	CM_34PIPEDIS	N	0.0012	7.26	8.15	<0.0020	6.75	2.76	2.51	<0.010	<0.010	55.7	1827	1.83	1.82	860	5.5	0.125	0.128	<0.00010	<0.00010	<10	<10	1360
10/31/2018	CM_34PIPEDIS	N	<0.0010	7.61	7.82	<0.0020	6.04	2.71	2.85	<0.020	<0.010	51.2	1724	1.82	1.72	801	4.2	0.119	0.118	<0.00020	<0.00010	<10	<10	1410
11/5/2018	CM_34PIPEDIS	N	<0.0010	7.43	8.18	<0.0020	5.82	2.63	2.55	<0.010	<0.010	52.1	1837	1.92	1.74	796	5	0.128	0.113	<0.00010	<0.00010	<10	<10	1500
11/13/2018	CM_34PIPEDIS	N	<0.0010	7.29	8.21	<0.0020	6.22	2.3	2.28	<0.010	<0.010	56.9	1883	1.76	1.77	819	4.6	0.115	0.112	<0.00010	<0.00010	<10	<10	1520

		Parameter	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids, Lab	Turbidity, Lab	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc
		CAS_RN	TKN	C-TOC	TSS-L	TURB-L	7440-61-1	7440-61-1	7440-62-2	7440-62-2	7440-66-6	7440-66-6
		Fraction	N	T	N	N	D	T	D	T	D	T
		Unit	mg/l	mg/l	mg/l	ntu	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
4/20/2018	CM_34PIPEDIS	N	1.81	1.32	3.3	3.94	12.9	13.1	<0.50	<1.0	65.3	69.7
4/24/2018	CM_34PIPEDIS	N	1.87	1.2	1.7	2.72	12.1	12.3	<1.0	<1.0	<2.0	40.6
4/24/2018	CM_34PIPEDIS	N										
5/1/2018	CM_34PIPEDIS	N	1.41	0.58	2.5	3.58	13.2	13.1	<1.0	<1.0	73.2	74.1
5/8/2018	CM_34PIPEDIS	N	1.41	2.22	2.9	8.42	13.7	13.5	<1.0	<1.0	67.4	66.9
5/16/2018	CM_34PIPEDIS	N	1.49	1.69	2.6	5.06	13.7	13.6	<0.50	<1.0	74.4	79.6
5/22/2018	CM_34PIPEDIS	N	2.51	1.64	5.2	5.22	14	14.2	<0.50	<1.0	79.4	81.7
5/29/2018	CM_34PIPEDIS	N	2.03	0.61	2.1	3.02	14	14.2	<0.50	<1.0	87.4	90.7
6/5/2018	CM_34PIPEDIS	N	0.895	0.8	1.4	3.14	12.9	13.4	<1.0	<1.0	114	117
6/12/2018	CM_34PIPEDIS	N	1.73	1.02	2	3.51	12.5	12.8	<1.0	<1.0	98.8	101
6/19/2018	CM_34PIPEDIS	N	1.3	<0.50	2.2	2.01	12.1	12.9	<0.50	<0.50	105	101
6/26/2018	CM_34PIPEDIS	N	1.19	<0.50	2.3	2.02	11.5	12.2	<1.0	<1.0	114	124
7/4/2018	CM_34PIPEDIS	N	1.59	<0.50	<1.0	2.16	11.2	11.2	<1.0	<0.50	216	220
7/10/2018	CM_34PIPEDIS	N	1.58	1.17	1.5	1.48	11.2	13.6	<0.50	<0.50	164	187
7/17/2018	CM_34PIPEDIS	N	1.13	<0.50	4	1.33	11.8	11.3	<0.50	<0.50	165	170
7/25/2018	CM_34PIPEDIS	N	1.15	1.04	<1.0	0.98	11.7	11.7	<0.50	<0.50	142	146
7/31/2018	CM_34PIPEDIS	N	1.17	0.6	2.3	1.63	12.3	12.5	<1.0	<0.50	129	119
8/7/2018	CM_34PIPEDIS	N	1.44	1.22	1.1	1.02	11.7	11.8	<0.50	<0.50	126	126
8/15/2018	CM_34PIPEDIS	N	1.52	<0.50	1	0.57	13.1	11	<0.50	<0.50	145	139
8/21/2018	CM_34PIPEDIS	N	1.34	<0.50	1.3	0.66	11.4	11.5	<0.50	<0.50	123	120
8/28/2018	CM_34PIPEDIS	N	1.29	<0.50	1.4	0.78	10.6	10.4	<0.50	<0.50	119	122
9/4/2018	CM_34PIPEDIS	N	1.31	<0.50	1.1	0.66	9.87	9.69	<0.50	<1.0	88	87.7
9/11/2018	CM_34PIPEDIS	N	1.04	<0.50	1.2	1.02	9.78	10.8	<0.50	<0.50	71.2	73.8
10/23/2018	CM_34PIPEDIS	N	1.32	1.53	2	0.57	9.09	8.78	<0.50	<0.50	106	95.4
10/29/2018	CM_34PIPEDIS	N	0.645	0.83	1.1	0.65	9.95	11.4	<0.50	<0.50	106	109
10/31/2018	CM_34PIPEDIS	N	0.906	0.62	1.9	0.44	10.5	10.4	<1.0	<0.50	94.6	92.4
11/5/2018	CM_34PIPEDIS	N	1.27	<0.50	1.5	0.82	10.7	10.3	<0.50	<0.50	102	95.4
11/13/2018	CM_34PIPEDIS	N	0.945	<0.50	2.3	0.7	11.3	11.5	<0.50	<0.50	87.7	102

CM_6PIT_WELL

		Parameter	Alkalinity, Total (As CaCO3)	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Bromide	Cadmium	Cadmium	Calcium	Carbon, Dissolved Organic	Chloride	Chromium	Chromium	Cobalt	Cobalt	Conductivity, Lab
		CAS_RN	Alk-T	7429-90-5	7429-90-5	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	7440-41-7	7440-41-7	7440-69-9	7440-69-9	7440-42-8	7440-42-8	24959-67-9	7440-43-9	7440-43-9	7440-70-2	C-DOC	16887-00-6	7440-47-3	7440-47-3	7440-48-4	7440-48-4	COND-L
		Fraction	N	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	D	T	T	D	D	D	T	D	T	N
		Unit	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	uS/cm
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PIT_WELL	N	424	<0.0020	<0.0020	0.65	0.69	0.63	0.75	0.0985	0.0962	<0.020	0.021	<0.000050	<0.000050	0.178	0.17	<0.050	0.0061	0.0069	91.1	0.72	7.88	<0.10	<0.10	2.47	2.54	1130
1/9/2018	CM_6PIT_WELL	N	443	<0.0020	<0.0020	0.57	0.64	0.52	0.87	0.0987	0.0976	<0.020	<0.020	<0.000050	<0.000050	0.172	0.167	<0.050	<0.0050	0.0076	94.3	<0.50	7.94	<0.10	<0.10	2.41	2.27	1120
1/16/2018	CM_6PIT_WELL	N	541	<0.0020	<0.0020	0.5	0.52	0.72	<1.0	0.101	0.0997	<0.020	0.025	<0.000050	<0.000050	0.185	0.215	<0.050	0.0083	0.0065	82.6	0.86	8.42	<0.10	<0.10	2.03	2.12	1070
1/23/2018	CM_6PIT_WELL	N	455	<0.0020	<0.0060	0.45	0.45	0.64	0.62	0.107	0.107	<0.040	<0.040	<0.00010	<0.00010	0.185	0.184	<0.050	<0.010	<0.010	86.8	1.09	8.99	<0.20	<0.20	1.98	2.08	1120
1/30/2018	CM_6PIT_WELL	N	451	0.006	<0.0020	0.36	0.38	0.69	0.8	0.105	0.106	<0.020	<0.020	<0.000050	<0.000050	0.167	0.17	<0.050	<0.0050	0.0096	86.1	0.81	8.75	<0.10	<0.10	1.84	1.8	1110
2/27/2018	CM_6PIT_WELL	N	325	<0.0020	0.0028	<0.10	0.19	0.19	0.31	0.0723	0.0745	<0.020	0.073	<0.000050	<0.000050	0.144	0.19	<0.050	0.0111	0.0747	115	0.86	3.99	<0.10	<0.10	24	24.5	1250
4/4/2018	CM_6PIT_WELL	N	374	<0.0020	0.0066	0.23	0.3	0.23	0.51	0.0693	0.0747	<0.040	0.055	<0.00010	<0.00010	0.177	0.2	<0.050	0.038	0.069	137	<0.50	6.4	<0.20	<0.20	26.1	29.1	1370
4/10/2018	CM_6PIT_WELL	N	384	0.0043	0.0547	0.16	0.25	0.23	3.52	0.0758	0.0743	0.047	0.422	<0.000050	<0.000050	0.193	0.192	<0.25	0.318	0.505	147	0.56	7.7	<0.10	0.3	41.2	41.5	1380
4/17/2018	CM_6PIT_WELL	N	338	<0.0020	0.0054	0.17	0.19	0.26	<0.50	0.0619	0.0555	<0.020	0.065	<0.000050	<0.000050	0.139	0.154	<0.25	0.0422	0.0932	140	0.76	5.7	<0.10	<0.10	33.6	30.4	1390
4/24/2018	CM_6PIT_WELL	N	248	<0.0020	<0.0020	0.11	0.12	0.27	0.54	0.0561	0.0577	<0.020	0.03	<0.000050	<0.000050	0.147	0.124	<0.25	0.0202	0.0246	129	<0.50	5.6	<0.10	<0.10	20.4	20.9	1250
5/1/2018	CM_6PIT_WELL	N	206	<0.0020	<0.0020	0.13	0.16	0.25	0.49	0.055	0.0587	<0.020	0.022	<0.000050	<0.000050	0.125	0.119	<0.25	0.015	0.0233	150	<0.50	4.4	<0.10	<0.10	12.9	14.1	1260
5/15/2018	CM_6PIT_WELL	N	298	<0.0020	0.0023	<0.10	<0.10	0.22	0.79	0.0424	0.0522	<0.020	0.046	<0.000050	<0.000050	0.107	0.107	<0.050	<0.010	0.0602	121	<0.50	2.02	<0.10	<0.10	2.96	4.22	1240
5/22/2018	CM_6PIT_WELL	N	321	<0.0020	<0.0020	<0.10	<0.10	0.53	0.33	0.0544	0.0544	<0.020	<0.020	<0.000050	<0.000050	0.122	0.124	<0.25	<0.0050	0.0057	130	0.57	3.4	<0.10	<0.10	3.99	3.88	1240
5/29/2018	CM_6PIT_WELL	N	378	<0.0020	<0.0060	<0.10	<0.20	0.7	0.78	0.0608	0.0554	<0.020	<0.040	<0.000050	<0.00010	0.132	0.15	<0.050	<0.0050	<0.010	119	0.53	5.7	<0.10	<0.10	3.18	3.13	1220
6/5/2018	CM_6PIT_WELL	N	473	<0.0020	<0.0020	<0.20	<0.10	0.69	0.35	0.0612	0.0598	<0.040	<0.020	<0.00010	<0.000050	0.141	0.149	<0.25	<0.010	<0.0050	109	<0.50	5.8	<0.20	<0.10	2.71	2.67	1290
6/12/2018	CM_6PIT_WELL	N	452	<0.0020	<0.0020	<0.10	<0.10	0.91	1.03	0.0655	0.062	<0.020	0.023	<0.000050	<0.000050	0.164	0.165	<0.25	<0.0050	0.0069	103	0.7	7	<0.10	<0.10	2.32	2.26	1260

		Parameter	Copper	Copper	Dissolved Oxygen, Field	Fluoride	Hardness, Total as Dissolved CaCO3	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel	Nitrate Nitrogen (NO3), ASN	Nitrite Nitrogen (NO2), ASN	Nitrogen, Ammonia (ASN)
		CAS_RN	7440-50-8	7440-50-8	DO-F	16984-48-8	HARD	7439-89-6	7439-89-6	7439-92-1	7439-92-1	7439-93-2	7439-93-2	7439-95-4	7439-96-5	7439-96-5	7439-97-6	7439-97-6	7439-98-7	7439-98-7	7440-02-0	7440-02-0	14797-55-8	14797-65-0	7664-41-7
		Fraction	D	T	N	D	N	D	T	D	T	D	T	T	D	T	D	T	D	T	D	T	N	N	N
		Unit	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PIT_WELL	N	<0.50	<0.50	12.52	0.62	344	0.025	0.166	<0.050	<0.050	0.202	0.197	25.4	0.08	0.0776	<0.0050	<0.0050	0.0015	0.00146	12.2	12.4	<0.0050	0.002	0.844
1/9/2018	CM_6PIT_WELL	N	<0.50	<0.50	15.42	0.633	338	0.022	0.181	<0.050	<0.050	0.171	0.232	23	0.0756	0.0712	<0.0050	<0.00050	0.00149	0.00153	12	11.7	0.0052	0.0022	0.82
1/16/2018	CM_6PIT_WELL	N	<0.50	<0.50	13.02	0.659	281	0.038	0.192	<0.050	<0.050	0.205	0.236	22.8	0.0636	0.0695	<0.0050	<0.00050	0.0012	0.00129	10.4	11.2	0.0072	0.0062	0.82
1/23/2018	CM_6PIT_WELL	N	<1.0	<1.0	14.08	0.678	321	0.04	0.134	<0.10	<0.10	0.2	0.202	23.7	0.0677	0.0653	<0.0050	<0.00050	0.00135	0.00157	10.6	10.5	<0.0050	0.0024	0.82
1/30/2018	CM_6PIT_WELL	N	<0.50	<0.50	14.13	0.697	315	0.022	0.168	<0.050	<0.050	0.212	0.21	21.5	0.0659	0.0645	<0.0050	<0.00050	0.00132	0.00126	9.42	9.55	<0.0050	0.0016	0.81
2/27/2018	CM_6PIT_WELL	N	<0.50	<0.50	11.78	0.374	459	<0.010	2.53	<0.050	<0.050	0.164	0.165	24.3	0.171	0.171	<0.0050	<0.00050	0.000548	0.000523	67.3	71.1	0.0063	0.001	0.79
4/4/2018	CM_6PIT_WELL	N	<0.50	<1.0	13.98	0.508	474	<0.020	1.07	<0.10	<0.10	0.194	0.203	37.5	0.159	0.174	<0.0050	<0.00050	0.00225	0.00248	75.1	85.5	0.0156	0.0022	0.92
4/10/2018	CM_6PIT_WELL	N	<0.50	4.33	12.21	0.7	478	<0.010	4.97	<0.050	0.298	0.191	0.214	32.2	0.188	0.183	<0.0050	<0.00050	0.00152	0.00182	104	109	0.56	0.0073	0.89
4/17/2018	CM_6PIT_WELL	N	<0.50	<0.50	13.36	0.61	532	<0.010	1.18	<0.050	<0.050	0.144	0.145	28.5	0.212	0.189	<0.0050	<0.00050	0.00124	0.00126	93.1	82.5	0.521	0.0075	0.82
4/24/2018	CM_6PIT_WELL	N	<0.50	<0.50	12.15	0.6	492	<0.010	0.514	<0.050	<0.050	0.151	0.147	28.7	0.185	0.195	<0.0050	<0.00050	0.000768	0.000866	59.2	62	0.069	0.01	0.81
5/1/2018	CM_6PIT_WELL	N	<0.50	<0.50	11.78	0.58	576	<0.010	0.775	<0.050	<0.050	0.142	0.125	48.3	0.182	0.189	<0.0050	<0.00050	0.000812	0.000821	41.2	44.7	0.028	0.0092	0.69
5/15/2018	CM_6PIT_WELL	N	<0.50	<0.50	10.27	0.437	484	<0.010	1.35	<0.050	<0.050	0.13	0.113	43.7	0.126	0.16	<0.0050	0.0055	0.000343	0.000186	11.9	16.5	<0.0050	0.0010	0.54
5/22/2018	CM_6PIT_WELL	N	<0.50	<0.50	9.18	0.37	515	<0.010	1.54	<0.050	<0.050	0.155	0.157	36.7	0.135	0.152	<0.0050	<0.00050	0.000722	0.000592	16	16.2	0.363	<0.0050	0.7
5/29/2018	CM_6PIT_WELL	N	<0.50	<1.0	15.39	0.669	444	0.022	0.492	<0.050	<0.10	0.175	0.186	34.9	0.11	0.114	<0.0050	<0.00050	0.00117	0.00109	12.7	13.6	<0.0050	<0.0010	0.76
6/5/2018	CM_6PIT_WELL	N	<0.50	<0.50	10.82	0.49	421	0.024	0.403	<0.10	<0.050	0.187	0.195	31.3	0.103	0.0987	<0.0050	<0.00050	0.00141	0.00144	11.9	12	0.284	<0.0050	0.77
6/12/2018	CM_6PIT_WELL	N	<0.50	<0.50	11.76	0.54	396	0.03	0.512	<0.050	<0.050	0.222	0.215	29.5	0.0961	0.092	<0.0050	<0.00050	0.00161	0.00159	10.2	10.1	0.033	<0.0050	0.77

		Parameter	Ortho-Phosphate	pH, Field	pH, LAB	Phosphorus	Potassium	Selenium	Selenium	Silver	Silver	Sodium	Specific conductivity, temperature corrected value (25C)	Strontium	Strontium	Sulphate (AS SO4)	Temperature, Field	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Total Dissolved Solids (Residue, Filterable)
		CAS_RN	14265-44-2-0	pH-F	pH-L	7723-14-0	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	SPEC_COND	7440-24-6	7440-24-6	14808-79-8	TEMP-F	7440-28-0	7440-28-0	7440-31-5	7440-31-5	7440-32-6	7440-32-6	TDS
		Fraction	N	N	N	N	T	D	T	D	T	T	N	D	T	N	N	D	T	D	T	D	T	N
		Unit	mg/l	ph units	ph units	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	uS/cm at 25C	mg/l	mg/l	mg/l	deg c	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PIT_WELL	N	<0.0010	7.7	8.09	0.0022	1.98	0.09	0.098	<0.010	<0.010	145	1002	1.92	1.96	209	2.7	<0.010	<0.010	<0.00010	<0.00010	<10	<10	744
1/9/2018	CM_6PIT_WELL	N	<0.0010	7.72	7.92	0.0022	2.34	0.073	<0.050	<0.010	<0.010	141	1113	2.02	2.01	184	3.77	<0.010	<0.010	<0.00010	<0.00010	<10	<10	722
1/16/2018	CM_6PIT_WELL	N	<0.0010	7.72	8.31	0.0016	2.25	0.064	<0.050	<0.010	<0.010	143	1100	1.75	1.85	158	4	<0.010	<0.010	<0.00010	<0.00010	<10	<10	704
1/23/2018	CM_6PIT_WELL	N	<0.0010	7.62	8.27	0.0021	2.1	<0.10	<0.10	<0.020	<0.020	156	1109	2.01	1.89	162	3.6	<0.020	<0.020	<0.00020	<0.00020	<10	<10	672
1/30/2018	CM_6PIT_WELL	N	<0.0010	7.68	8.21	0.0059	2.16	<0.050	<0.050	<0.010	<0.010	152	1107	1.98	1.89	153	3.7	<0.010	<0.010	<0.00010	<0.00010	<10	<10	700
2/27/2018	CM_6PIT_WELL	N	<0.0010	7.39	8.33	0.0038	2.2	<0.050	<0.050	<0.010	<0.010	120	1281	2.49	2.43	369	4.2	<0.010	<0.010	<0.00010	<0.00010	<10	<10	837
4/4/2018	CM_6PIT_WELL	N	<0.0010	7.29	8.37	0.002	2.47	<0.10	<0.10	<0.020	<0.020	142	1339	2.62	2.75	374	3.9	<0.020	<0.020	<0.00020	<0.00020	<10	<10	895
4/10/2018	CM_6PIT_WELL	N	<0.0010	7.41	8.42	0.0049	2.33	<0.050	0.059	<0.010	<0.010	133	1367	2.5	2.72	425	5.2	<0.010	<0.010	<0.00010	<0.00010	<10	<10	974
4/17/2018	CM_6PIT_WELL	N	<0.0010	7.42	8.37	0.0018	2.19	<0.15	<0.050	<0.010	<0.010	114	1262	2.72	2.62	469	4.8	<0.010	<0.010	<0.00010	<0.00010	<10	<10	974
4/24/2018	CM_6PIT_WELL	N	<0.0010	7.41	8.3	0.0023	2.16	<0.050	<0.050	<0.010	<0.010	118	1342	2.15	2.34	443	4.6	<0.010	<0.010	<0.00010	<0.00010	<10	<10	959
5/1/2018	CM_6PIT_WELL	N	<0.0010	7.59	8.37	0.0013	2.3	<0.050	<0.050	<0.010	<0.010	112	1336	2.2	2.37	483	6.8	<0.010	<0.010	<0.00010	<0.00010	<10	<10	906
5/15/2018	CM_6PIT_WELL	N	<0.0010	7.52	8.12	0.0028	2.01	<0.050	<0.050	<0.010	<0.010	91.9	1254	1.76	1.75	426	13.5	<0.010	<0.010	<0.00010	<0.00010	<10	<10	891
5/22/2018	CM_6PIT_WELL	N	<0.0010	7.55	8.32	0.0021	2.14	<0.050	<0.050	<0.010	<0.010	117	1299	1.9	1.99	409	12.9	<0.010	<0.010	<0.00010	<0.00010	<10	<10	896
5/29/2018	CM_6PIT_WELL	N	0.0014	7.82	8.27	0.0038	2.28	<0.050	<0.10	<0.010	<0.020	144	1299	2.04	1.92	330	10.82	<0.010	<0.020	<0.00010	<0.00020	<10	<10	832
6/5/2018	CM_6PIT_WELL	N	<0.0010	7.61	8.2	0.0023	2.18	<0.10	<0.050	<0.020	<0.010	149	1286	1.97	1.87	334	8.9	<0.020	<0.010	<0.00020	<0.00010	<10	<10	852
6/12/2018	CM_6PIT_WELL	N	0.0022	7.56	8.04	0.0029	2.32	<0.050	<0.050	<0.010	<0.020	162	1297	1.98	1.9	298	9.4	<0.010	<0.010	<0.00010	<0.00010	<10	<10	860

		Parameter	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids, Lab	Turbidity, Lab	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc
		CAS_RN	TKN	C-TOC	TSS-L	TURB-L	7440-61-1	7440-61-1	7440-62-2	7440-62-2	7440-66-6	7440-66-6
		Fraction	N	T	N	N	D	T	D	T	D	T
		Unit	mg/l	mg/l	mg/l	ntu	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PIT_WELL	N	0.887	0.75	<1.0	0.97	0.974	0.902	<0.50	<0.50	5.9	18.5
1/9/2018	CM_6PIT_WELL	N	0.788	<0.50	<1.0	0.95	1.03	0.924	<0.50	0.55	4.8	5
1/16/2018	CM_6PIT_WELL	N	0.809	0.8	<1.0	0.84	1.02	1.04	<0.50	<0.50	4.9	6.2
1/23/2018	CM_6PIT_WELL	N	0.82	0.93	<1.0	0.57	0.911	0.906	<1.0	<1.0	4.2	<6.0
1/30/2018	CM_6PIT_WELL	N	0.728	1.24	<1.0	0.69	0.926	0.941	<0.50	<0.50	3.8	4.3
2/27/2018	CM_6PIT_WELL	N	0.795	0.95	2.9	21.9	0.896	0.913	<0.50	<0.50	89.4	119
4/4/2018	CM_6PIT_WELL	N	0.838	<0.50	1.8	12.1	1.45	1.52	<1.0	<1.0	96.4	129
4/10/2018	CM_6PIT_WELL	N	0.823	<0.50	11.5	25.8	1.21	1.54	<0.50	1.19	170	244
4/17/2018	CM_6PIT_WELL	N	0.954	0.72	2.4	12.2	1.14	1.14	<0.50	<0.50	121	133
4/24/2018	CM_6PIT_WELL	N	0.79	<0.50	1.7	3.04	0.775	0.815	<0.50	<0.50	86.5	96.7
5/1/2018	CM_6PIT_WELL	N	0.607	<0.50	4.1	5.27	0.729	0.74	<0.50	<0.50	47	56.5
5/15/2018	CM_6PIT_WELL	N	0.541	0.6	2	3.85	0.422	0.427	<0.50	<0.50	8.3	27
5/22/2018	CM_6PIT_WELL	N	0.719	0.53	<1.0	2.99	0.675	0.684	<0.50	<0.50	12.1	14.2
5/29/2018	CM_6PIT_WELL	N	0.653	0.7	<1.0	2.45	0.793	0.782	<0.50	<1.0	8.3	9.9
6/5/2018	CM_6PIT_WELL	N	0.688	2.47	<1.0	2.76	0.812	0.864	<1.0	<0.50	6.9	8.6
6/12/2018	CM_6PIT_WELL	N	0.824	0.63	1	2.51	0.89	0.918	<0.50	<0.50	7	8.5

CM_6PitDW

Parameter			Alkalinity, Total (As CaCO3)	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Bromide	Cadmium	Cadmium	Calcium	Carbon, Dissolved Organic	Chloride	Chromium	Chromium	Cobalt	Cobalt	Conductivity, Lab
CAS_RN			Alk-T	7429-90-5	7429-90-5	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	7440-41-7	7440-41-7	7440-69-9	7440-69-9	7440-42-8	7440-42-8	24959-67-9	7440-43-9	7440-43-9	7440-70-2	C-DOC	16887-00-6	7440-47-3	7440-47-3	7440-48-4	7440-48-4	COND-L
Fraction			N	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	D	T	T	D	D	T	D	T	N
Unit			mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	urfcm
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PitDW	N	515	<0.0030	0.103	4.65	4.61	2.94	2.84	0.0746	0.0929	<0.020	0.026	<0.000050	<0.00010	0.329	0.32	0.072	0.285	0.32	104	0.68	10.5	<0.10	<0.10	39.2	41.1	1490
1/12/2018	CM_6PitDW	N	427	<0.0030	0.447	2.19	2.09	1.02	1.41	0.114	0.489	<0.020	0.123	<0.000050	<0.00010	0.471	0.465	<0.25	<0.0050	0.168	144	2.61	7.8	<0.10	0.42	7	14.4	1070
1/17/2018	CM_6PitDW	N	443	0.0029	0.0389	3.01	2.89	1.72	1.62	0.132	0.149	<0.040	<0.040	<0.00010	<0.00010	0.525	0.527	<0.050	0.285	0.268	133	1.29	7.26	<0.20	<0.20	34.4	35	1210
1/23/2018	CM_6PitDW	N	579	0.0031	0.0193	4.35	3.96	2.45	2.54	0.0673	0.0676	<0.040	<0.040	<0.00010	<0.00010	0.264	0.256	<0.10	0.248	0.254	97.2	1.57	12.3	<0.20	0.26	29.8	31.2	1420
1/30/2018	CM_6PitDW	N	626	<0.0030	0.0249	4.5	4.19	2.36	2.36	0.0725	0.0696	<0.040	<0.040	<0.00010	<0.00010	0.232	0.242	<0.050	0.262	0.247	90.4	0.93	14.2	<0.20	<0.20	29.8	29.3	1410
2/7/2018	CM_6PitDW	N	491	0.0043	0.022	3.89	3.75	2.14	2.11	0.0591	0.064	<0.020	0.027	<0.000050	<0.000050	0.233	0.243	<0.10	<0.0050	0.257	85.1	1.3	11.6	<0.10	0.14	13.2	31.3	1230
2/7/2018	CM_6PitDW	N																										
2/20/2018	CM_6PitDW	N	567	<0.0030	0.0253	3.82	3.54	4.24	3.84	0.0622	0.0646	<0.020	<0.040	<0.000050	<0.000050	0.279	0.333	0.062	<0.0050	0.183	99.5	0.96	13	<0.10	<0.10	18.1	29.6	1330
3/1/2018	CM_6PitDW	N	462	<0.0030	0.0146	3.97	4.47	2.17	2.06	0.0638	0.0724	<0.020	<0.040	<0.000050	<0.00010	0.268	0.275	0.052	<0.0050	0.225	89.2	1.9	13.7	<0.10	0.82	8.61	27.9	1200
3/6/2018	CM_6PitDW	N	518	<0.0030	0.0124	3.96	4.11	1.72	1.9	0.0607	0.0632	<0.020	0.022	<0.000050	<0.000050	0.261	0.296	<0.050	<0.0050	0.18	94	1.06	13.2	<0.10	0.1	9.43	24.4	1200
5/14/2018	CM_6PitDW	N	532	0.0051	0.023	2.21	2.14	1.03	1.04	0.0262	0.0283	<0.040	<0.040	<0.00010	<0.00010	0.193	0.184	<0.25	<0.010	<0.010	41.5	<0.50	13.4	<0.20	<0.20	5.58	14.5	1930
5/25/2018	CM_6PitDW	N	390	<0.0030	0.0209	1.41	1.87	0.59	0.75	0.0307	0.0904	<0.020	<0.040	<0.000050	<0.00010	0.259	0.231	<0.25	0.0069	0.053	107	1.62	5.4	<0.10	<0.20	22.1	28.6	1420
6/5/2018	CM_6PitDW	N	364	<0.0030	0.0207	1.65	1.72	0.35	0.66	0.0762	0.0799	<0.040	0.056	<0.00010	<0.000050	0.26	0.274	<0.25	0.119	0.365	124	0.98	3	<0.20	<0.10	42.1	45.9	1380
7/19/2018	CM_6PitDW	N	417	<0.0030	0.0414	0.11	<0.20	0.17	0.62	0.0539	0.081	<0.020	0.199	<0.000050	<0.00010	0.594	0.624	<0.25	0.145	0.29	174	0.76	8.1	<0.10	<0.20	78.9	78.5	1380

Parameter			Copper	Copper	Dissolved Oxygen, Field	Fluoride	Hardness, Total as Dissolved CaCO3	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel	Nitrate Nitrogen (NO3), AS N	Nitrite Nitrogen (NO2), AS N	Nitrogen, Ammonia (AS N)
CAS_RN			7440-50-8	7440-50-8	DO-F	16984-48-8	HARD	7439-89-6	7439-89-6	7439-92-1	7439-92-1	7439-93-2	7439-93-2	7439-95-4	7439-96-5	7439-96-5	7439-97-6	7439-97-6	7439-98-7	7439-98-7	7440-02-0	7440-02-0	14797-55-8	14797-65-0	7664-41-7
Fraction			D	T	N	D	N	D	T	D	T	D	T	T	D	T	D	T	D	T	D	T	N	N	N
Unit			ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PitDW	N	3.71	5.08	8.2	0.641	268	<0.010	0.096	0.062	0.405	0.24	0.24	18.4	0.0572	0.0714	<0.0050	0.00228	0.00792	0.00816	114	122	0.196	0.0576	2.15
1/12/2018	CM_6PitDW	N	<0.50	4.1	7.16	0.29	445	<0.010	0.619	<0.050	1.45	0.164	0.146	32.5	0.00589	0.0647	<0.0050	0.0036	0.00556	0.00624	42	59.2	0.17	0.0471	3.02
1/17/2018	CM_6PitDW	N	2.23	4	12.21	0.463	438	<0.020	0.07	<0.10	0.25	0.191	0.208	23.5	0.0963	0.0926	<0.0050	0.00198	0.00477	0.00466	110	111	0.162	0.0388	2.44
1/23/2018	CM_6PitDW	N	3.05	<4.0	9.45	0.65	297	<0.020	<0.020	<0.10	0.15	0.343	0.285	15.5	0.0404	0.0421	<0.0050	0.00123	0.0073	0.00638	90.6	94.4	0.247	0.0932	2.14
1/30/2018	CM_6PitDW	N	<0.50	<1.0	11.24	0.691	278	<0.020	<0.020	<0.10	<0.10	0.264	0.311	16.9	0.0298	0.0415	<0.0050	0.00099	0.007	0.00664	88	90.4	0.193	0.0611	2.22
2/7/2018	CM_6PitDW	N	<0.50	5.05		0.54	219	<0.010	0.028	0.069	0.237	0.275	0.28	15.1	0.00394	0.0399	<0.0050	0.00093	0.00681	0.00642	75.1	92.9	0.2	0.0732	2.6
2/7/2018	CM_6PitDW	N			11.04																				
2/20/2018	CM_6PitDW	N	<0.50	0.79	8.45	0.649	207	<0.010	0.026	<0.050	0.552	0.291	0.293	15.8	0.0128	0.0497	<0.0050	0.00071	0.00699	0.00624	79.1	89.9	0.182	0.0582	2.48
3/1/2018	CM_6PitDW	N	<0.50	<1.0	9.91	0.684	220	<0.010	0.047	<0.050	0.54	0.279	0.289	16.1	0.00192	0.0425	<0.0050	0.00081	0.00625	0.00631	59.6	80.3	0.149	0.0624	2.24
3/6/2018	CM_6PitDW	N	<0.50	0.6	8.81	0.604	219	<0.010	0.264	<0.050	0.217	0.234	0.245	13.9	0.00245	0.0452	<0.0050	0.00076	0.00572	0.00552	57.5	74.7	0.113	0.0546	2.56
5/14/2018	CM_6PitDW	N	0.67	<1.0	7.14	1.01	144	<0.020	0.03	<0.10	<0.10	0.454	0.473	15.8	0.00043	0.0101	<0.0050	0.00017	0.00601	0.00589	52.3	65	0.701	0.0525	1.24
5/25/2018	CM_6PitDW	N	<0.50	<1.0	12.04	0.74	418	0.073	0.495	<0.050	0.15	0.223	0.202	35.3	0.0233	0.0559	<0.0050	0.00164	0.00612	0.00622	92	99.5	0.396	0.064	1.88
6/5/2018	CM_6PitDW	N	<0.50	1.29	8.01	0.4	471	<0.020	1.04	<0.10	0.16	0.184	0.188	26.5	0.0935	0.106	<0.0050	0.00264	0.00562	0.0058	123	133	0.774	0.0792	2.02
7/19/2018	CM_6PitDW	N	<0.50	<1.0	9.2	0.32	549	<0.010	8.85	<0.050	0.2	0.169	0.164	25.2	0.377	0.375	<0.0050	0.00196	0.000339	0.00033	211	210	0.108	0.0062	2.16

Parameter			Ortho-Phosphate	pH, Field	pH, LAB	Phosphorus	Potassium	Selenium	Selenium	Silver	Silver	Sodium	Specific conductivity, temperature corrected value (25C)	Strontium	Strontium	Sulphate (AS SO4)	Temperature, Field	Thallium	Thallium	Tin	Tin	Tin	Titanium	Titanium	Total Dissolved Solids (Residue, Filterable)
CAS_RN			14265-44-2-0	pH-F	pH-L	7723-14-0	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	SPEC_COND	7440-24-6	7440-24-6	14808-79-8	TEMP-F	7440-28-0	7440-28-0	7440-31-5	7440-31-5	7440-32-6	7440-32-6	7440-32-6	TDS
Fraction			N	N	N	N	T	D	T	D	T	T	N	D	T	N	N	D	T	D	T	D	T	T	N
Unit			mg/l	ph unitv	ph unitv	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	uS/cm at 25C	mg/l	mg/l	mg/l	deg c	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PitDW	N	<0.0010	7.58	7.94	0.0058	3.09	1.64	1.22	<0.010	<0.010	219	1230	2.15	2.19	248	8.4	0.112	0.111	<0.00010	0.00045	<10	<10	1010
1/12/2018	CM_6PitDW	N	<0.0010		7.72	0.0215	2.61	1.17	1.11	<0.010	0.022	97.6	1294	2.46	2.55	239	12.5	0.047	0.061	<0.00010	<0.00020	<10	<10	770
1/17/2018	CM_6PitDW	N	<0.0010	7.91	7.89	0.0025	3.28	1.11	1.13	<0.020	<0.020	155	1347	3.66	3.51	196	7.6	0.078	0.077	<0.00020	0.00034	<10	<10	846
1/23/2018	CM_6PitDW	N	<0.0010	7.9	7.98	0.0014	2.59	1.38	1.12	<0.020	<0.020	224	1446	1.97	1.65	182	7.6	0.093	0.092	<0.00020	<0.00020	<10	<10	906
1/30/2018	CM_6PitDW	N	0.0042	7.95	8.07	0.0035	2.56	1.46	1.27	<0.020	<0.020	247	1414	1.85	1.81	161	4.6	0.057	0.088	<0.00020	<0.00020	<10	<10	882
2/7/2018	CM_6PitDW	N	0.0012		8.09	0.0015	2.42	1.22	1.12	<0.010	<0.010	227		1.92	1.77	158		0.093	0.077	<0.00010	0.00048	<10	<10	798
2/7/2018	CM_6PitDW	N		7.8									1364				9.3								
2/20/2018	CM_6PitDW	N	0.0011	7.93	8.04	0.0015	2.47	1.24	0.8	<0.010	<0.020	194	1314	2.28	1.97	162	11.2	0.089	0.077	<0.00010	<0.00010	<10	<10	784
3/1/2018	CM_6PitDW	N	<0.0010	8.14	8.17	0.0012	2.37	1.32	0.98	<0.010	<0.020	230	1260	1.83	1.99	154	7.7	0.076	0.076	<0.00010	<0.00020	<10	<10	750
3/6/2018	CM_6PitDW	N	<0.0010	7.9	8.05	0.0016	2.38	1.22	1.04	<0.010	<0.020	197	1288	1.66	1.92	147	9.9	0.086	0.089	<0.00010	<0.00010	<10	<10	735
5/14/2018	CM_6PitDW	N	<0.0010	8.18	8.52	0.0029	3.12	0.96	0.94	<0.020	<0.020	407	2028	0.904	0.913	538	17	0.073	0.072	<0.00020	<0.00020	<10	<10	1440
5/25/2018	CM_6PitDW	N	<0.0010	8.17	8.19	0.0018	3.19	2.85	2.63	<0.010	<0.020	164	1590	1.43	1.43	435	12.77	0.075	0.073	<0.00010	<0.00020	<10	<10	989
6/5/2018	CM_6PitDW	N	0.0012	8.2	8.25	0.0021	3.15	2.25	2.71	<0.020	<0.010	156	1738	1.82	1.71	444	10.4	0.08	0.084	<0.00020	<0.00010	<10	<10	977
7/19/2018	CM_6PitDW	N	<0.0010	6.98	8.09	0.0019	3.33	0.055	<0.10	<0.010	<0.020	124	1275	5.74	5.57	391	15	0.026	0.025	<0.00010	<0.00020	<10	<10	994

Parameter			Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids, Lab	Turbidity, Lab	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc
CAS_RN			TKN	C-TOC	TSS-L	TURB-L	7440-61-1	7440-61-1	7440-62-2	7440-62-2	7440-66-6	7440-66-6
Fraction			N	T	N	N	D	T	D	T	D	T
Unit			mg/l	mg/l	mg/l	ntu	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1/3/2018	CM_6PitDW	N	3.04	11.6	21.1	13.6	4.68	4.91	<0.50	0.99	66.2	70.8
1/12/2018	CM_6PitDW	N	5.45	11.9	36.0	22.3	5.57	6.45	0.99	2.9	<2.0	36.3
1/17/2018	CM_6PitDW	N	3.33	9.51	13.8	13.7	3.68	3.68	<1.0	<1.0	67.8	70.1
1/23/2018	CM_6PitDW	N	2.81	2.03	<1.0	4.1	2.58	2.48	<1.0	<1.0	64.5	74
1/30/2018	CM_6PitDW	N	2.29	1.01	1.7	1.81	2.47	2.22	<1.0	<1.0	66.2	68.8
2/7/2018	CM_6PitDW	N	2.28	0.55	6.8	4.08	2.17	2.18	<0.50	0.66	<2.0	73.5
2/7/2018	CM_6PitDW	N										
2/20/2018	CM_6PitDW	N	2.87	0.87	4.8	2.76	3.12	3.21	<0.50	0.6	<2.0	55.2
3/1/2018	CM_6PitDW	N	<0.050	1.67	8.5	1.02	2.14	2.5	<0.50	<1.0	<2.0	66.5
3/6/2018	CM_6PitDW	N	2.26	1.06	11.4	9.03	2.05	2.44	<0.50	0.53	<2.0	68.8
5/14/2018	CM_6PitDW	N	1.18	0.72	2.6	3.89	1.89	1.95	<1.0	<1.0	<2.0	<6.0
5/25/2018	CM_6PitDW	N	1.76	1.58	5	10.2	2.99	2.97	<0.50	<1.0	1.3	17.3
6/5/2018	CM_6PitDW	N	1.9	1.38	1.7	11.9	3.07	3.23	<1.0	<0.50	44.9	88
7/19/2018	CM_6PitDW	N	3.17	6.01	52.4	109	1.64	1.73	<0.50	<1.0	180	278

CM_6PitDW2

Parameter			Alkalinity, Total (As CaCO3)	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Bromide	Cadmium	Cadmium	Calcium	Carbon, Dissolved Organic	Chloride	Chromium	Chromium	Cobalt	Cobalt	Conductivity, Lab
CAS_RN			Alk-T	7429-90-5	7429-90-5	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	7440-41-7	7440-41-7	7440-69-9	7440-69-9	7440-42-8	7440-42-8	24959-67-9	7440-43-9	7440-43-9	7440-70-2	C-DOC	16887-00-6	7440-47-3	7440-47-3	7440-48-4	7440-48-4	COND-L
Fraction			N	D	T	D	T	D	T	D	T	D	T	D	T	D	T	D	D	T	T	D	D	T	D	T	N
Unit			mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	uS/cm
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2/7/2018	CM_6PitDW2	N	412	<0.0020	0.0144	0.94	0.95	0.44	0.45	0.183	0.222	0.042	0.049	<0.000050	<0.000050	0.682	0.642	<0.10	<0.0050	0.103	161	<0.50	3.2	<0.10	0.19	5.66	14.9	1110
2/7/2018	CM_6PITDW2	N																										
2/22/2018	CM_6PitDW2	N	595	<0.0020	0.467	0.94	0.91	1.42	1.53	0.146	0.211	0.053	0.103	<0.000050	<0.000050	0.912	0.843	<0.050	0.177	0.199	176	4.28	5.96	<0.10	0.27	31.7	30.3	1400
3/1/2018	CM_6PitDW2	N	356	<0.0020	0.12	0.65	0.7	0.88	0.95	0.123	0.199	<0.020	0.032	<0.000050	<0.00010	0.682	0.684	<0.050	<0.0050	0.096	162	0.75	4.06	<0.10	<0.20	10.2	16.2	1070
4/20/2018	CM_6PitDW2	N	317	<0.0020	0.264	0.99	1.14	0.21	0.8	0.0631	0.0711	0.203	2.12	<0.000050	<0.000050	0.487	0.447	<0.25	4.05	5.08	193	2.05	8.1	<0.10	0.46	199	206	1630
4/24/2018	CM_6PitDW2	N	344	0.0035	0.101	1.54	1.69	0.21	0.57	0.0872	0.098	0.091	0.824	<0.000050	<0.000050	0.272	0.271	<0.25	2.54	3.4	190	1.49	8.2	<0.10	0.29	183	183	1790
5/1/2018	CM_6PitDW2	N	325	0.0026	0.11	1.86	2.01	0.26	0.75	0.0963	0.148	0.045	0.305	<0.000050	<0.000050	0.219	0.21	<0.25	1.2	1.59	155	1.98	6.5	<0.10	<0.10	99.1	111	1650
5/17/2018	CM_6PitDW2	N	326	<0.0020	0.0442	1.83	1.85	0.53	0.73	0.0831	0.0955	<0.020	0.047	<0.000050	<0.000050	0.22	0.231	<0.25	<0.0050	0.356	119	1.61	3.9	<0.10	<0.10	15.4	34.2	1340
5/22/2018	CM_6PitDW2	N	300	<0.0020	0.0295	1.68	1.81	0.51	0.86	0.0796	0.0922	<0.020	0.029	<0.000050	<0.000050	0.231	0.249	<0.25	<0.0050	0.291	117	1.37	3.1	<0.10	<0.10	26.6	33.9	1320
5/29/2018	CM_6PitDW2	N	315	<0.0020	0.0166	1.79	1.88	0.53	0.69	0.0814	0.0841	<0.020	0.043	<0.000050	<0.00010	0.252	0.265	<0.050	<0.0050	0.127	118	1.11	3.21	<0.10	<0.20	22	32.7	1330
6/5/2018	CM_6PITDW2	N	550	0.0039	0.0266	2.37	2.46	1.11	1.23	0.0219	0.0296	<0.040	<0.020	<0.00010	<0.000050	0.182	0.195	<0.25	<0.010	0.0455	27	1.14	8	<0.20	<0.10	6.7	17	1720
6/12/2018	CM_6PitDW2	N	410	<0.0020	0.0688	1.62	1.7	0.21	0.59	0.0732	0.0809	0.02	0.087	<0.000050	<0.000050	0.301	0.312	<0.25	0.268	0.374	127	1.08	3	<0.10	<0.10	51.2	51.4	1350
6/19/2018	CM_6PitDW2	N	406	<0.0020	0.0603	1.63	1.72	0.37	0.67	0.0898	0.0988	<0.020	0.072	<0.000050	<0.000050	0.277	0.27	<0.25	0.126	0.341	123	1.06	4.9	<0.10	<0.10	44.2	45.8	1390
6/26/2018	CM_6PitDW2	N	391	<0.0020	0.0407	1.59	1.7	0.32	0.69	0.0829	0.111	<0.040	0.097	<0.00010	<0.000050	0.286	0.303	<0.25	0.289	0.571	125	0.66	4.6	<0.20	<0.10	55.9	60.2	1410
7/3/2018	CM_6PitDW2	N	417	<0.0020	0.0286	1.47	1.57	0.29	0.64	0.0901	0.101	0.023	0.113	<0.000050	<0.000050	0.317	0.334	<0.25	0.692	0.871	137	0.59	5.9	<0.10	<0.10	71.1	71.2	1470
7/10/2018	CM_6PitDW2	N	410	<0.0020	0.073	1.27	1.28	0.21	0.51	0.0967	0.103	<0.020	0.109	<0.000050	<0.000050	0.261	0.259	<0.25	0.77	0.865	139	4.85	5.4	<0.10	<0.10	79.6	72.3	1500
7/31/2018	CM_6PitDW2	N	314	<0.0020	0.376	0.73	0.77	0.2	0.48	0.188	0.424	<0.020	0.104	<0.000050	<0.000050	0.495	0.517	<0.25	0.0404	0.0592	153	1.34	6	<0.10	0.17	16.4	15.8	1000
8/15/2018	CM_6PitDW2	N	399	<0.0020	0.0182	0.76	0.76	0.27	0.41	0.27	0.268	<0.020	0.026	<0.000050	<0.000050	0.478	0.54	<0.25	0.0155	0.0195	139	1.1	8.7	<0.10	<0.10	12	10.9	1070
8/20/2018	CM_6PitDW2	N	405	<0.0020	0.0226	0.26	0.28	0.17	0.24	0.262	0.247	<0.020	0.029	<0.000050	<0.000050	0.48	0.593	<0.25	0.0198	0.0219	152	1.5	6.45	<0.10	<0.10	11.1	10.4	972
9/20/2018	CM_6PitDW2	N	492	<0.0020	0.0089	0.53	0.59	0.14	0.25	0.4	0.491	<0.020	0.04	<0.000050	<0.000050	0.554	0.588	<0.25	0.0232	0.0336	196	0.84	6.7	<0.10	<0.10	22.8	25	1220
9/25/2018	CM_6PitDW2	N	472	<0.0020	0.0228	0.46	0.49	<0.20	0.22	0.34	0.379	<0.040	0.044	<0.00010	<0.00010	0.543	0.563	<0.25	0.017	0.032	177	<0.50	6.5	<0.20	<0.20	22.9	23.2	1280
10/2/2018	CM_6PITDW2	N	255	<0.0020	0.0428	0.38	0.41	0.12	0.27	0.302	0.298	<0.020	0.028	<0.000050	<0.000050	0.453	0.489	<0.25	<0.0050	0.0378	149	1.57	5.7	<0.10	<0.20	10.1	14.7	886
10/9/2018	CM_6PitDW2	N	262	0.0051	0.0078	0.41	0.46	0.2	<0.20	0.302	0.271	0.062	0.056	<0.000050	<0.00010	0.61	0.615	<0.25	0.0493	0.056	201	1.16	6.6	<0.10	<0.20	47.2	48.8	1180
10/16/2018	CM_6PitDW2	N	342	<0.0020	<0.0060	0.44	0.49	0.1	<0.20	0.17	0.178	<0.020	<0.040	<0.000050	<0.00010	0.614	0.559	<0.25	<0.0050	0.107	185	<0.50	6.6	<0.10	<0.20	24.1	21.4	1310
10/23/2018	CM_6PitDW2	N	483	<0.0020	0.0112	0.43	0.45	<0.10	<0.40	0.242	0.294	<0.020	0.069	<0.000050	<0.000050	0.598	0.564	<0.25	0.0289	0.0734	180	0.55	6.7	<0.10	<0.10	46.4	48.6	1230
10/29/2018	CM_6PitDW2	N	324	<0.0020	0.0089	0.66	0.68	<0.10	0.14	0.208	0.228	<0.020	0.022	<0.000050	<0.000050	0.52	0.53	<0.25	<0.0050	0.0597	184	<0.50	6	<0.10	<0.10	14	26.3	1170
11/5/2018	CM_6PITDW2	N	372	<0.0020	0.0179	0.59	0.66	0.14	0.25	0.268	0.274	<0.020	0.208	<0.000050	<0.000050	0.579	0.556	<0.25	0.516	0.988	203	<0.50	6.2	<0.10	<0.10	84.2	83	1420
11/13/2018	CM_6PitDW2	N	291	<0.0020	0.062	0.46	0.52	<0.10	0.23	0.166	0.246	<0.020	0.18	<0.000050	<0.000050	0.56	0.56	<0.25	0.158	0.267	207	<0.50	6.5	<0.10	<0.10	72.8	80.4	1460

Parameter			Copper	Copper	Dissolved Oxygen, Field	Fluoride	Hardness, Total as Dissolved CaCO3	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel	Nitrate Nitrogen (NO3), ASN	Nitrite Nitrogen (NO2), ASN	Nitrogen, Ammonia (ASN)
CAS_RN			7440-50-8	7440-50-8	DO-F	16984-48-8	HARD	7439-89-6	7439-89-6	7439-92-1	7439-92-1	7439-93-2	7439-93-2	7439-95-4	7439-96-5	7439-96-5	7439-97-6	7439-97-6	7439-98-7	7439-98-7	7440-02-0	7440-02-0	14797-55-8	14797-65-0	7664-41-7
Fraction			D	T	N	D	N	D	T	D	T	D	T	T	D	T	D	T	D	T	D	T	N	N	N
Unit			ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2/7/2018	CM_6PitDW2	N	<0.50	1.42		0.18	447	<0.010	0.024	<0.050	0.187	0.134	0.144	31.4	0.00603	0.0944	<0.0050	<0.00050	0.00162	0.00168	42.9	55.5	0.071	0.0095	3.27
2/7/2018	CM_6PITDW2	N			10.65																				
2/22/2018	CM_6PitDW2	N	0.62	1.78	9.53	0.232	629	<0.010	0.255	<0.050	0.611	0.182	0.186	21.9	0.155	0.133	<0.0050	0.0484	0.00168	0.00163	95.4	92.9	0.0109	<0.0010	3.59
3/1/2018	CM_6PitDW2	N	<0.50	2.2	10.82	0.235	509	<0.010	0.242	<0.050	0.84	0.154	0.156	34.4	0.0272	0.0949	<0.0050	<0.0025	0.00186	0.00169	43.2	50.2	0.0624	0.0094	3.14
4/20/2018	CM_6PitDW2	N	1.02	12	10.21	0.24	637	<0.010	8.58	<0.050	0.312	0.188	0.197	34.2	0.515	0.525	<0.0050	0.0012	0.00427	0.00442	497	523	0.478	0.082	2.68
4/24/2018	CM_6PitDW2	N	<0.50	5.59	10.67	0.51	650	<0.010	4.62	<0.050	0.219	0.229	0.233	29.7	0.462	0.422	<0.0050	0.00124	0.00602	0.00602	446	469	1.75	0.177	3.09
5/1/2018	CM_6PitDW2	N	0.59	2.06	9.21	0.62	572	0.067	2.02	<0.050	0.314	0.242	0.246	42.3	0.25	0.258	<0.0050	0.0023	0.00783	0.00782	264	294	1.47	0.216	2.45
5/17/2018	CM_6PitDW2	N	<0.50	1.24	8.17	0.59	420	0.044	0.524	<0.050	0.22	0.181	0.191	36	0.00584	0.102	<0.0050	0.00237	0.0065	0.00605	88.7	108	1.02	0.191	1.83
5/22/2018	CM_6PitDW2	N	<0.50	1.04	10.61	0.42	443	0.033	0.597	<0.050	0.172	0.222	0.23	33.2	0.0388	0.0947	<0.0050	0.00192	0.00576	0.00585	94.3	105	1.34	0.0812	1.88
5/29/2018	CM_6PitDW2	N	<0.50	<1.0	16.87	0.595	446	0.046	0.669	<0.050	0.14	0.204	0.199	37.6	0.0206	0.0715	<0.0050	0.00173	0.00581	0.0059	94.3	107	0.715	0.0708	1.84
6/5/2018	CM_6PITDW2	N	<0.50	0.52	11.23	0.3	118	<0.020	0.047	<0.10	0.082	0.387	0.383	10.8	0.00024	0.00738	<0.0050	0.00129	0.00621	0.00628	44.4	57.2	0.277	0.0241	1.09
6/12/2018	CM_6PitDW2	N	<0.50	1.11	9.44	0.28	485	0.012	1.2	<0.050	0.172	0.202	0.202	36	0.115	0.117	<0.0050	0.00155	0.00561	0.00582	129	141	1.13	0.102	2.24
6/19/2018	CM_6PitDW2	N	<0.50	0.82	16.6	0.62	413	0.011	0.995	<0.050	0.15	0.201	0.198	30.3	0.098	0.105	<0.0050	0.00145	0.00554	0.00595	121	128	0.646	0.0941	2.19
6/26/2018	CM_6PitDW2	N	<0.50	1.2	10	0.45	427	<0.020	1.56	<0.10	0.188	0.202	0.205	30.2	0.125	0.14	<0.0050	0.00153	0.00563	0.00589	147	164	0.749	0.0962	2.36
7/3/2018	CM_6PitDW2	N	<0.50	0.99	6.32	0.63	492	<0.010	2.28	<0.050	0.193	0.216	0.204	30.8	0.188	0.198	<0.0050	0.00181	0.00563	0.00571	180	182	0.725	0.109	2.48
7/10/2018	CM_6PitDW2	N	<0.50	0.89	7.48	0.35	519	<0.010	2.18	<0.050	0.194	0.201	0.195	27.1	0.222	0.205	<0.0050	0.00171	0.00511	0.00511	196	185	1.51	0.101	3.93
7/31/2018	CM_6PitDW2	N	<0.50	2	12	0.37	487	<0.010	0.779	<0.050	0.72	0.122	0.121	26	0.0961	0.093	<0.0050	0.0048	0.00266	0.00309	49.2	45.4	0.771	0.0446	3.3
8/15/2018	CM_6PitDW2	N	<0.50	<0.50	10.72	0.56	444	0.012	0.209	<0.050	0.076	0.18	0.168	23.1	0.0712	0.0623	<0.0050	0.00152	0.00278	0.00275	28	35.2	0.127	0.0218	2.88
8/20/2018	CM_6PitDW2	N	<0.50	0.52	12.35	0.24	448	<0.010	0.482	<0.050	0.082	0.112	0.118	24.9	0.0784	0.0746	<0.0050	0.00093	0.00152	0.00153	34.3	31.6	0.078	0.0122	2
9/20/2018	CM_6PitDW2	N	<0.50	<0.50	12.08	0.32	640	<0.010	1.35	<0.050	<0.050	0.143	0.146	35.7	0.139	0.14	<0.0050	0.0008	0.00154	0.00159	70.6	76.8	2.6	0.05	3.14
9/25/2018	CM_6PitDW2	N	<0.50	<1.0	11.72	0.32	577	<0.020	1.23	<0.10	0.11	0.131	0.13	30.4	0.122	0.126	<0.0050	0.00089	0.00122	0.0012	68.3	69.5	1.23	0.0422	3.27
10/2/2018	CM_6PitDW2	N	<0.50	<0.50	12.45	0.28	465	<0.010	0.585	<0.050	0.063	0.106	0.104	28	0.0245	0.0947	<0.0050	0.00089	0.00145	0.00156	41.9	46.8	0.585	0.0312	2.61
10/9/2018	CM_6PitDW2	N	<0.50	<1.0	12.12	0.3	457	3.64	3.49	<0.050	<0.10	0.146	0.148	29.3	0.267	0.247	<0.0050	<0.00050	0.00111	0.00112	133	131	1.57	0.0447	3.16
10/16/2018	CM_6PitDW2	N	<0.50	<1.0	12.8	0.31	604	<0.010	0.899	<0.050	<0.10	0.127	0.122	34.1	0.0796	0.155	<0.0050	<0.00050	0.00172	0.00179	96.8	108	1.67	0.0215	2.71
10/23/2018	CM_6PitDW2	N	<0.50	0.86	23.91	0.3	612	<0.010	6.02	<0.050	<0.050	0.14	0.132	34.1	0.26	0.254	<0.0050	0.0019	0.00129	0.00122	122	136	0.579	0.0324	3.14
10/29/2018	CM_6PitDW2	N	<0.50	<0.50	12.02	0.32	521	<0.010	1.02	<0.050	<0.050	0.126	0.119	34.3	0.0271	0.126	<0.0050	<0.00050	0.00298	0.00305	71.6	88.1	3.92	0.0427	2.73
11/5/2018	CM_6PITDW2	N	<0.50	<0.50	12.69	0.32	737	<0.010	9.89	<0.050	0.141	0.137	0.135	38.5	0.372	0.342	<0.0050	0.0231	0.00253	0.00253	221	231	1.52	0.0447	3.22
11/13/2018	CM_6PitDW2	N	<0.50	0.9	20.02	0.32	673	<0.010	9.52	<0.050	0.186	0.147	0.157	37.4	0.333	0.372	<0.0050	0.0027	0.00176	0.00186	185	218	0.314	0.0299	3.37

		Parameter	Ortho-Phosphate	pH, Field	pH, LAB	Phosphorus	Potassium	Selenium	Selenium	Silver	Silver	Sodium	Specific conductivity, temperature corrected value (25C)	Strontium	Strontium	Sulphate (AS SO4)	Temperature, Field	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Total Dissolved Solids (Residue, Filterable)
		CAS_RN	14265-44-2-0	pH-F	pH-L	7723-14-0	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	SPEC_COND	7440-24-6	7440-24-6	14808-79-8	TEMP-F	7440-28-0	7440-28-0	7440-31-5	7440-31-5	7440-32-6	7440-32-6	TDS
		Fraction	N	N	N	N	T	D	T	D	T	T	N	D	T	D	N	D	T	D	T	D	T	N
		Unit	mg/l	ph units	ph units	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	uS/cm at 25C	mg/l	mg/l	mg/l	deg c	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	mg/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2/7/2018	CM_6PitDW2	N	<0.0010		7.92	0.001	2.36	0.352	0.325	<0.010	<0.010	90.1		5.24	5.05	198		0.018	0.017	<0.00010	<0.00010	<10	<10	792
2/7/2018	CM_6PITDW2	N		7.52									1298				10.7							
2/22/2018	CM_6PitDW2	N	<0.0010	7.25	7.72	0.0062	3.47	0.421	0.399	<0.010	0.014	124	1427	7.75	7.14	215	7.1	0.021	0.035	<0.00010	<0.00010	<10	27	972
3/1/2018	CM_6PitDW2	N	<0.0010	7.6	7.95	0.0029	3.28	0.428	0.38	<0.010	<0.020	100	1281	5.21	5.15	209	6.3	0.02	0.021	<0.00010	<0.00020	<10	<10	772
4/20/2018	CM_6PitDW2	N	<0.0010	6.99	8.28	0.0082	3.01	2.36	2.04	<0.010	<0.010	132	1666	4.76	4.58	639	3.8	0.054	0.081	<0.00010	<0.00010	<10	<10	1260
4/24/2018	CM_6PitDW2	N	<0.0010	7.3	8.36	0.0035	3.46	3.12	2.93	<0.010	<0.010	136	1825	3.82	3.54	688	5.3	0.103	0.108	<0.00010	<0.00010	<10	<10	1340
5/1/2018	CM_6PitDW2	N	<0.0010	7.43	8.11	0.0028	3.52	4.51	4.46	<0.010	<0.010	205	1672	2.86	2.99	582	7.5	0.099	0.101	<0.00010	<0.00010	<10	<10	1140
5/17/2018	CM_6PitDW2	N	<0.0010	7.94	8.02	0.0021	2.25	4.09	3.45	<0.010	<0.010	154	1427	1.54	1.5	447	13.2	0.077	0.077	<0.00010	<0.00010	<10	<10	938
5/22/2018	CM_6PitDW2	N	<0.0010	7.98	8.22	0.0019	3.09	3.05	3.1	<0.010	<0.010	175	1450	1.52	1.47	442	13.7	0.067	0.079	<0.00010	<0.00010	<10	<10	991
5/29/2018	CM_6PitDW2	N	0.0017	7.89	8.19	0.0056	3.31	3.29	2.68	<0.010	<0.020	165	1373	1.54	1.53	403	16.07	0.071	0.082	<0.00010	<0.00020	<10	<10	939
6/5/2018	CM_6PitDW2	N	0.001	7.91	8.4	0.0024	2.6	1.04	1.14	<0.020	<0.010	379	1347	0.766	0.756	370	11.6	0.064	0.064	<0.00010	<0.00020	<10	<10	1090
6/12/2018	CM_6PitDW2	N	0.0019	7.73	8.16	0.0022	2.34	2.37	2.29	<0.010	<0.020	156	1399	1.98	1.91	445	10.7	0.094	0.095	<0.00010	<0.00010	<10	<10	932
6/19/2018	CM_6PitDW2	N	0.0025	8.1	8.1	0.0025	2.9	2.55	2.23	<0.010	<0.010	166	1385	1.74	1.83	399	10.86	0.08	0.082	<0.00010	<0.00010	<10	<10	952
6/26/2018	CM_6PitDW2	N	<0.0010	7.6	8.1	0.0022	3.19	1.88	2.19	<0.020	<0.010	187	1423	2	2.1	425	11.8	0.089	0.096	<0.00020	<0.00010	<10	<10	1040
7/3/2018	CM_6PitDW2	N	0.0024	7.4	7.94	0.0036	3.18	1.76	1.89	<0.010	<0.010	180	1468	2.59	2.46	426	10.8	0.101	0.096	<0.00010	<0.00010	<10	<10	1040
7/10/2018	CM_6PitDW2	N	<0.0010	7.2	7.92	0.002	3.19	1.62	1.63	<0.010	<0.010	157	1454	3	2.8	456	11.8	0.098	<0.095	<0.00010	<0.00010	<10	<10	984
7/31/2018	CM_6PitDW2	N	<0.0010	7.38	7.92	0.0114	2.92	0.495	0.674	<0.010	0.012	89.8	1231	4.18	4.43	273	16.1	0.019	0.022	<0.00010	<0.00010	<10	<10	797
8/15/2018	CM_6PitDW2	N	0.0015	7.49	8.05	<0.0020	2.75	0.564	0.523	<0.010	<0.010	125	1226	4.02	4.07	213	11.4	0.018	0.013	<0.00010	<0.00010	<10	<10	827
8/20/2018	CM_6PitDW2	N	0.001	7.16	8.1	<0.0020	2.55	0.297	0.306	<0.010	<0.010	84.4	1128	4.75	4.65	192	7.2	<0.010	<0.010	<0.00010	<0.00010	<10	<10	818
9/20/2018	CM_6PitDW2	N	<0.0010	7.7	8.05	<0.0020	3.04	1.25	1.23	<0.010	<0.010	101	1429	6.13	6.24	330	6.3	0.01	0.012	<0.00010	<0.00010	<10	<10	1010
9/25/2018	CM_6PitDW2	N	<0.0010	7.48	7.94	0.0033	2.81	0.61	0.65	<0.020	<0.020	92.7	1377	5.83	5.73	324	5.5	<0.020	<0.020	<0.00020	<0.00020	<10	<10	958
10/2/2018	CM_6PitDW2	N	0.0013	7.82	8.02	0.0034	2.54	0.752	0.645	<0.010	<0.010	78.5	1121	4.69	4.81	256	4.9	0.01	0.011	<0.00010	<0.00010	<10	<10	742
10/9/2018	CM_6PitDW2	N	<0.0010	7.52	8.07	<0.0020	2.77	0.92	0.65	<0.010	<0.020	105	1557	6.24	6.26	469	3.7	<0.010	<0.020	<0.00010	<0.00020	<10	<10	1110
10/16/2018	CM_6PitDW2	N	<0.0010	7.7	8.05	<0.0020	2.86	0.708	0.59	<0.010	<0.020	96.9	1483	5.53	5.67	420	5.4	0.022	0.024	<0.00010	<0.00020	<10	<10	1000
10/23/2018	CM_6PitDW2	N	<0.0010	7.55	8.01	0.0027	2.84	0.372	0.526	<0.010	<0.010	97.1	1501	5.55	5.66	400	1.9	<0.010	<0.010	<0.00010	<0.00010	<10	<10	979
10/29/2018	CM_6PitDW2	N	0.0021	7.58	8.02	<0.0020	2.86	5.64	4.87	<0.010	<0.010	93.9	1344	4.72	4.96	224	7.9	0.013	0.016	<0.00010	<0.00010	<10	<10	868
11/5/2018	CM_6PitDW2	N	<0.0010	7.32	8.12	<0.0020	2.78	1.21	1.47	<0.010	<0.010	87.8	1528	6.16	5.38	440	4.8	0.018	0.017	<0.00010	<0.00010	<10	<10	1030
11/13/2018	CM_6PitDW2	N	<0.0010	7.1	8.07	0.0032	2.83	0.258	0.426	<0.010	<0.010	110	1586	5.21	5.42	437	2.9	0.012	0.011	<0.00010	<0.00010	<10	<10	1110

		Parameter	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids, Lab	Turbidity Lab	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc
		CAS_RN	TKN	C-TOC	TSS-L	TURB-L	7440-61-1	7440-61-1	7440-62-2	7440-62-2	7440-66-6	7440-66-6
		Fraction	N	T	N	N	D	T	D	T	D	T
		Unit	mg/l	mg/l	mg/l	ntu	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date	SYS_LOC_CODE	Sample Type	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2/7/2018	CM_6PitDW2	N	3.48	1.31	12.4	7.01	2.55	2.67	<0.50	<0.50	<3.0	37.3
2/7/2018	CM_6PITDW2	N										
2/22/2018	CM_6PitDW2	N	4.13	17	133	65.2	3.27	3.42	<0.50	0.84	65	69.2
3/1/2018	CM_6PitDW2	N	4.44	2.8	108	36.4	2.13	2.4	<0.50	<1.0	<3.0	30.8
4/20/2018	CM_6PitDW2	N	4.48	2.96	37.8	55.8	4.9	5.75	<0.50	<0.50	1030	1240
4/24/2018	CM_6PitDW2	N	3.09	4.82	24.3	50.9	4.07	4.17	<0.50	<0.50	630	821
5/1/2018	CM_6PitDW2	N	3.09	5.2	24.9	39.9	3.6	3.72	<0.50	<0.50	288	361
5/17/2018	CM_6PitDW2	N	1.55	3.9	7.2	16	3.18	3.03	<0.50	<0.50	<1.0	67.2
5/22/2018	CM_6PitDW2	N	1.66	1.68	4.8	10.5	2.84	2.97	<0.50	0.92	2.2	62.6
5/29/2018	CM_6PitDW2	N	1.94	1.19	2.7	9.12	2.89	3.16	<0.50	<1.0	1.1	37.6
6/5/2018	CM_6PitDW2	N	1.94	1.15	<1.0	5.85	1.58	1.62	<1.0	0.59	<2.0	10.6
6/12/2018	CM_6PitDW2	N	2.45	1.97	5.6	16.5	3.34	3.4	<0.50	<0.50	70.6	93.3
6/19/2018	CM_6PitDW2	N	1.85	2.05	4.4	13.8	3.32	3.56	<0.50	<0.50	56.4	86.5
6/26/2018	CM_6PitDW2	N	2.24	1.38	8.7	20.5	3.52	3.77	<1.0	<0.50	104	148
7/3/2018	CM_6PitDW2	N	2.49	2.84	8.9	23	3.69	3.54	<0.50	<0.50	180	215
7/10/2018	CM_6PitDW2	N	2.65	6.23	7.3	20.8	3.7	4.12	<0.50	<0.50	184	215
7/31/2018	CM_6PitDW2	N	4.02	56.8	124	110	2.78	3.82	<0.50	1.05	22.1	27
8/15/2018	CM_6PitDW2	N	2.8	0.92	10.6	7.26	2.71	2.24	<0.50	<0.50	10.4	12.4
8/20/2018	CM_6PitDW2	N	3.2	<2.5	31.3	9.87	2.02	1.94	<0.50	<0.50	12.9	14.3
9/20/2018	CM_6PitDW2	N	2.9	0.82	9	13.4	1.61	1.74	<0.50	<0.50	16.7	23.5
9/25/2018	CM_6PitDW2	N	2.9	2.79	12	15.4	1.54	1.59	<1.0	<1.0	19.8	24.8
10/2/2018	CM_6PitDW2	N	2.41	2.22	3.8	6.98	1.38	1.56	<0.50	<0.50	<1.0	22.6
10/9/2018	CM_6PitDW2	N	3.23	3.55	14.1	28.4	1.56	1.55	<0.50	<1.0	116	111
10/16/2018	CM_6PitDW2	N	3.25	0.67	5.1	7.24	2.08	2.28	<0.50	<1.0	4.2	90.2
10/23/2018	CM_6PitDW2	N	3.42	1.24	45	70.9	1.61	1.74	<0.50	<0.50	127	194
10/29/2018	CM_6PitDW2	N	2.45	1.26	5	8.66	1.67	2.12	<0.50	<0.50	<1.0	70.8
11/5/2018	CM_6PITDW2	N	2.9	2.1	21.5	119	2.14	2.2	<0.50	<0.50	211	535
11/12/2018	CM_6PitDW2	N	3.23	0.8	71.2	112	2.06	2.24	<0.50	<0.50	273	497

Appendix C - Historical Monitoring Data

E206438 - CM_CCPD

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Jan-08	0.107	< 3.0	0.32
5-Feb-08	0.01	< 3.0	0.21
4-Mar-08	0.01	< 3.0	0.27
1-Apr-08	0.0132	3	1.6
7-Apr-08	0.02	< 3.0	3.1
14-Apr-08	0.29	< 3.0	4.6
21-Apr-08	0.051	3	1.3
28-Apr-08	0.124	6	2.8
6-May-08	0.254	< 3.0	1.2
12-May-08	0.292	5	0.76
20-May-08	1.01	< 3.0	4.5
26-May-08	2.55	4	8.4
3-Jun-08	1.497	< 3.0	1
9-Jun-08	0.724	< 3.0	0.98
16-Jun-08	0.766	< 3.0	< 0.2
23-Jun-08	0.332	< 3.0	0.21
7-Jul-08	0.18	< 3.0	< 0.2
14-Jul-08	0.178	< 3.0	0.27
21-Jul-08	0.178	< 3.0	0.21
28-Jul-08	0.095	< 3.0	0.22
5-Aug-08	0.079	< 3.0	0.59
11-Aug-08	0.044	7	1.3
18-Aug-08	0.09	5	0.82
25-Aug-08	0.043	3	1.1
2-Sep-08	0.094	5	0.69
7-Oct-08	0.065	< 3.0	1.1
4-Nov-08	0.061	3	0.49
2-Dec-08	0.034	< 3.0	0.63
6-Jan-09	0.027	< 3.0	0.23
3-Feb-09	0.052	< 3.0	0.48
3-Mar-09	0.066	< 3.0	0.27
7-Apr-09		4.4	2.94
14-Apr-09	0.049	6.2	6.65

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
20-Apr-09	0.075	4.9	5.9
27-Apr-09	0.119	< 3.0	1.1
5-May-09	0.136	3.6	1.07
11-May-09	0.133	4.7	0.71
19-May-09	0.334	6.4	2.87
25-May-09	0.573	< 3.0	1.2
2-Jun-09	0.79	< 3.0	0.92
8-Jun-09	0.318	4.3	0.58
15-Jun-09	0.215	< 3.0	0.47
22-Jun-09	0.25	3.8	0.67
29-Jun-09	0.196	< 3.0	0.68
7-Jul-09	0.13	4.2	0.55
13-Jul-09	0.166	< 3.0	0.76
20-Jul-09	0.133	3.3	1.01
27-Jul-09	0.143	< 3.0	4.99
4-Aug-09	0.148	< 3.0	1.71
1-Sep-09	0.144	< 3.0	1.13
6-Oct-09	0.047	< 3.0	1.01
3-Nov-09	0.04	< 3.0	3.7
1-Dec-09	0.038	< 3.0	0.47
5-Jan-10	0.018		0.44
2-Feb-10	0.019	< 3.0	0.33
2-Mar-10	0.011	3.7	0.7
8-Mar-10	0.017		
15-Mar-10	0.016		
23-Mar-10	0.0243	< 3.0	0.93
29-Mar-10	0.037	3.1	1.15
6-Apr-10	0.033	< 3.0	1.75
12-Apr-10	0.03	< 3.0	0.51
19-Apr-10	0.049	< 3.0	1.36
26-Apr-10	0.324	< 3.0	1.21
4-May-10	0.255	< 3.0	1.6
10-May-10	0.187	5.3	0.55
17-May-10	0.403	4.3	0.46
25-May-10	0.43	< 3.0	0.52

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Jun-10	0.633	< 3.0	1.54
7-Jun-10	0.658	< 3.0	0.65
14-Jun-10	0.422	< 3.0	0.69
21-Jun-10	0.682	< 3.0	3.32
28-Jun-10	0.362	< 3.0	10.9
6-Jul-10	0.274	6.2	0.78
12-Jul-10	0.225	< 3.0	1.09
19-Jul-10	0.184	< 3.0	2.09
26-Jul-10	0.206	< 3.0	1.13
3-Aug-10	0.164	< 3.0	0.93
7-Sep-10	0.111	< 5.0	0.79
5-Oct-10	0.169	< 3.0	0.75
27-Oct-10	0.0827	< 3.0	0.82
2-Nov-10	0.162	4.3	3.58
7-Dec-10	0.099	< 3.0	0.36
3-Jan-11	0.0126	< 3.0	0.53
4-Jan-11	0.052	< 3.0	0.38
1-Feb-11	0.0063	75.4	0.26
7-Mar-11	0.0151	< 3.0	0.23
5-Apr-11	0.0672	< 3.0	1.44
12-Apr-11	0.0384	5	1.25
19-Apr-11	0.0157	9.8	2.86
26-Apr-11	0.052	3	3.04
3-May-11	0.0605	< 3.0	4.35
10-May-11	0.175	9.2	20.6
17-May-11	0.583	< 3.0	6.73
24-May-11	0.777	7.8	8.46
31-May-11	0.801	11.2	10.8
7-Jun-11	1.344	< 3.0	2.96
14-Jun-11	1.63	17.8	24.1
20-Jun-11	1.3	< 3.0	1.33
27-Jun-11	1.04	< 3.0	0.46
5-Jul-11	0.711	< 3.0	1.37
12-Jul-11	0.458	< 3.0	0.61
19-Jul-11	0.106	< 3.0	1.5

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
25-Jul-11	0.198	< 3.0	3
2-Aug-11	0.348	< 3.0	2.25
6-Sep-11		< 3.0	0.82
4-Oct-11	0.0512	< 3.0	1.37
1-Nov-11	0.0749	3.6	2.51
6-Dec-11	0.0225	< 3.0	0.62
3-Jan-12	0.0126	< 3.0	0.53
7-Feb-12	0.0304	< 3.0	0.41
7-Mar-12	0.0287	< 3.0	0.3
3-Apr-12	0.008	< 3.0	1.63
10-Apr-12		< 3.0	
17-Apr-12	0.0373	< 3.0	
24-Apr-12	0.343	10	
1-May-12	0.759	11.7	14.9
8-May-12	0.386	9.2	
15-May-12	0.862	11.3	
22-May-12	0.898	3.3	
29-May-12	0.58	< 3.0	
5-Jun-12	0.91	< 3.0	
12-Jun-12	0.865	3.7	
19-Jun-12	0.768	< 3.0	
26-Jun-12	0.77	< 3.0	
3-Jul-12	0.653	5.7	1.86
10-Jul-12	0.42	< 3.0	
17-Jul-12	0.291	< 3.0	
24-Jul-12		4	
31-Jul-12		< 3.0	
7-Aug-12	0.114	< 3.0	2.21
4-Sep-12	0.115	3.5	
6-Sep-12	0.0924	4.6	
7-Sep-12	0.0669	< 3.0	
10-Sep-12	0.0867	< 3.0	
12-Sep-12	0.0669	< 3.0	
14-Sep-12	0.0482	4	
17-Sep-12	0.0688	< 3.0	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
19-Sep-12	0.0547	< 3.0	
20-Sep-12	0.0564	59	
24-Sep-12	0.0498	3.3	
26-Sep-12	0.045	< 3.0	
2-Oct-12	0.0244		
6-Nov-12	0.067	< 3.0	
4-Dec-12	0.026	< 3.0	
2-Jan-13	0.0923	< 3.0	
5-Feb-13	0.067	< 3.0	0.39
5-Mar-13	0.0765	4.3	1.8
2-Apr-13	0.0851	9.4	10.2
9-Apr-13	0.171	15.7	5.79
16-Apr-13	0.0735	11.5	6.37
23-Apr-13	0.0528	9.1	10.4
30-Apr-13	0.124	< 3.0	3.87
7-May-13	0.24	11.4	7.57
14-May-13	1.376	33.8	26
21-May-13	0.719	< 3.0	3.64
28-May-13	0.719	3.9	2.99
4-Jun-13	0.628	4.3	1.61
11-Jun-13	0.414	< 3.0	1.17
18-Jun-13	0.365	6.2	0.71
21-Jun-13		27.8	24.8
22-Jun-13		7.8	10.7
24-Jun-13		9.1	4.92
25-Jun-13	0.875	6.7	4.46
2-Jul-13	0.489	< 3.0	1.1
9-Jul-13	0.292	< 3.0	1.76
16-Jul-13	0.362	< 3.0	0.84
23-Jul-13	0.222	3.3	1.07
30-Jul-13	0.169	< 3.0	1.02
2-Aug-13		20	36
2-Aug-13		< 4.0	11.8
6-Aug-13	0.24	5.4	1.88
3-Sep-13	0.097	3.6	1.11

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Oct-13	0.097	6.9	8.58
5-Nov-13	0.063	< 1.0	0.81
3-Dec-13		< 1.0	0.66
7-Jan-14	0	< 1.0	0.45
4-Feb-14		< 1.0	0.42
4-Mar-14		< 1.0	0.39
1-Apr-14		< 1.0	1.04
8-Apr-14	0.063	2.8	8.29
15-Apr-14	0.085	4.1	7.08
22-Apr-14	0.142	6.2	5.5
29-Apr-14	0.153	7.7	2.36
6-May-14	0.39	6.1	10.1
13-May-14	0.297	2	2.65
20-May-14	0.379	4.3	5.17
27-May-14	1.283	6.2	6.21
3-Jun-14	1.012	2.6	1.39
10-Jun-14	0.702	1.5	0.86
17-Jun-14	0.987	77	79.9
24-Jun-14	1.024	2.1	1.96
2-Jul-14	0.658	1.2	0.54
8-Jul-14	0.0084	< 1.0	0.65
15-Jul-14	0.344	1.1	0.58
22-Jul-14	0.25	< 1.0	1.32
29-Jul-14	0.26	1.9	1.41
5-Aug-14	0.18	< 1.0	0.93
2-Sep-14	0.12	1.1	0.79
7-Oct-14	0.073	2.3	1.48
4-Nov-14	0.091	4.5	3.17
3-Dec-14		< 1.0	1.68
6-Jan-15	0.063	< 1.0	0.71
3-Feb-15	0.0645	< 1.0	0.71
3-Mar-15	0.048	< 1.0	0.68
30-Mar-15	0.22	3.3	5.06
8-Apr-15	0.225	2.6	1.53
15-Apr-15	0.204	< 1.0	1.11
22-Apr-15	0.24	3.4	0.99
29-Apr-15	0.293	2.4	1.43

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
6-May-15	0.455504	3.2	3.04
13-May-15	0.413677	1.8	1.62
20-May-15	0.36	< 1.0	1.12
27-May-15	0.457716	10.1	4.62
2-Jun-15		6.8	7.67
3-Jun-15			
3-Jun-15	0.923	8.8	7
10-Jun-15	0.388	1	1.52
15-Jun-15		< 3.0	0.7
17-Jun-15	0.289	< 1.0	0.91
24-Jun-15	0.235	< 1.0	0.6
30-Jun-15	0.279	< 1.0	0.52
8-Jul-15	0.165	< 1.0	0.57
15-Jul-15	0.111	< 1.0	0.65
21-Jul-15	0.094	1.8	1.09
27-Jul-15	0.113	1.8	1.16
5-Aug-15	0.117	2.4	1.31
2-Sep-15	0.062	2.9	1.6
28-Sep-15	0.028	2	0.9
7-Oct-15	0.037	2.1	0.92
4-Nov-15	0.069	2.2	2.69
5-Nov-15			
2-Dec-15	0.088	< 1.0	0.77
6-Jan-16	0.057	< 1.0	0.50
3-Feb-16	0.049	< 1.0	0.74
3-Feb-16			
23-Feb-16		< 1.0	0.60
2-Mar-16	0.041	< 1.0	0.86
6-Apr-16	0.085	15.0	11.6
13-Apr-16	0.225	2.1	2.89
14-Apr-16		5.5	8.62
16-Apr-16	0.290	2.7	4.73
17-Apr-16	0.245	3.5	7.66
17-Apr-16		< 1.0	< 0.10
18-Apr-16		4.1	7.99
18-Apr-16	0.280		
19-Apr-16		3.4	5.60
19-Apr-16	0.320		
20-Apr-16	0.390	3.4	6.58
21-Apr-16		8.0	8.81
27-Apr-16	0.591	4.8	1.94
4-May-16	0.351	1.1	1.12
11-May-16	0.515		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
11-May-16		3.5	5.41
18-May-16	0.303		
18-May-16		2.5	1.92
25-May-16	0.235	2.4	2.59
1-Jun-16	0.336	2.1	2.00
8-Jun-16	0.290	1.8	0.93
15-Jun-16	0.235	2.4	1.40
22-Jun-16	0.222	2.0	1.14
29-Jun-16	0.189	< 1.0	1.47
6-Jul-16	0.225	1.9	1.45
13-Jul-16	0.198	2.7	1.42
20-Jul-16	0.123	< 1.0	1.03
27-Jul-16	0.138	1.9	1.04
3-Aug-16	0.119	1.3	0.79
7-Sep-16	0.078	1.6	2.15
5-Oct-16	0.061	2.0	1.39
2-Nov-16	0.262	7.2	11.4
15-Nov-16		5.4	7.82
17-Nov-16	0.228	5.1	5.77
23-Nov-16	0.228	2.0	3.41
30-Nov-16		2.0	3.74
13-Dec-16	0.169	< 1.0	1.25
1/17/2017	0.156	3.1	3.44
2/1/2017	0.149	1.3	0.95
3/1/2017	0.156	< 1.0	1.22
4/5/2017	0.134	1.9	4.06
4/12/2017	0.1612768	1.2	4.93
4/19/2017	0.14851092	22.7	6.98
4/26/2017	0.218	2.2	2.79
5/2/2017	0.218	15.2	7.16
5/6/2017		2.8	
5/9/2017	0.628	6.2	10.8
5/16/2017	0.834	4.7	5.62
5/17/2017		18.2	
5/17/2017		14.6	
5/18/2017		3.2	
5/23/2017	1.043	4.4	5.85
5/30/2017	1.146	8.4	17.2
6/6/2017	0.9775	2.8	4.25
6/14/2017	0.708	4.0	8.69
6/21/2017	0.4599	2.1	4.89
6/28/2017	0.3757	1.3	1.01
7/5/2017	0.413	1.8	2.26

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/12/2017	0.356	1.3	1.68
7/19/2017	0.2394	11.3	4.69
7/25/2017	0.249	58.2	10.4
8/1/2017	0.2146	< 1.0	1.03
8/22/2017	0.17457	2.2	1.18
9/12/2017	0.1028	4.4	2.63
9/19/2017	0.10276	3.2	2.3
10/3/2017	0.113400418	4.7	4.23
10/3/2017		3.2	3.56
10/10/2017	0.08306	14.5	8.24
10/11/2017		1.9	2.58
10/24/2017		8.7	6.42
11/7/2017		1.1	1.78
11/22/2017		8.1	6.87
11/28/2017		2.4	4.59
12/6/2017		2.5	3.42
12/12/2017		2.1	2.68
12/19/2017		2.3	3.14
12/27/2017		< 1.0	1.61
1/3/2018	0.149	1.1	0.91
1/9/2018	0.171871	1.4	1.61
1/16/2018	0.136277	< 1.0	1.37
1/23/2018	0.144	1.4	2.68
1/30/2018	0.161	1.1	1.99
2/6/2018		3.0	1.21
2/14/2018	0.124573	< 1.0	1.15
2/19/2018		< 1.0	0.61
2/19/2018	0.136277		
3/1/2018	0.126872	< 1.0	0.73
3/7/2018	0.126872	< 1.0	0.61
3/13/2018	0.124573	18.7	14.7
3/19/2018	0.102757	1.8	2.04
3/27/2018	0.106951	< 1.0	1.34
4/4/2018	0.1134	1.6	2.80
4/10/2018	0.122296	1.9	3.10
4/17/2018	0.102757	4.6	6.46
4/23/2018	0.092643		
4/24/2018	0.136277	9.7	16.1
4/25/2018	0.136277	14.4	24.1

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
4/26/2018	0.136277		
4/27/2018	0.148511		
4/27/2018	0.148511		
5/1/2018	0.217659	7.1	6.92
5/3/2018	0.146712		
5/3/2018	0.202764		
5/4/2018	0.217659		
5/5/2018	0.3182		
5/6/2018	0.3757		
5/7/2018	0.6074	2.8	15.8
5/8/2018	0.708		
5/9/2018	0.8828		
5/10/2018	1.0101	8.6	7.50
5/12/2018	0.8224		
5/13/2018	0.8224		
5/14/2018	0.8523		
5/15/2018	0.9454	5.0	3.88
5/16/2018	1.1461	4.0	4.93
5/17/2018	1.2907		
5/17/2018	1.15		
5/18/2018	1.2907		
5/19/2018	1.2173		
5/20/2018	1.1461		
5/21/2018	1.0101		
5/22/2018	0.9775	1.7	1.95
5/23/2018	1.0433		
5/24/2018	1.0433		
5/25/2018	1.0433		
5/26/2018	1.1113		
5/27/2018	1.0101		
5/28/2018	1.0101		
5/29/2018	0.9138	1.7	1.82
5/31/2018	0.7641		
6/1/2018	0.708		
6/4/2018	1.2173		
6/5/2018	0.5773	1.0	1.68
6/11/2018	0.4381		
6/12/2018	0.4168	1.0	1.79
6/13/2018	0.4168		
6/19/2018	0.356	2.8	2.43
6/22/2018	0.3369		
6/25/2018	0.3369	3.9	3.67
6/26/2018	0.396	2.9	2.48

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
6/28/2018	0.396		
6/29/2018	0.3757		
7/3/2018	0.356	2.3	4.52
7/4/2018	0.3369		
7/5/2018	0.3001		
7/9/2018	0.3369		
7/10/2018	0.3369	1.7	5.35
7/11/2018	0.3369		
7/12/2018	0.3369		
7/13/2018	0.3001		
7/16/2018	0.2331		
7/17/2018	0.1884	3.6	2.81
7/18/2018	0.2177		
7/19/2018	0.2331		
7/23/2018	0.233086		
7/24/2018	0.174573	< 1.0	0.67
7/25/2018	0.174573		
7/26/2018	0.188402		
7/26/2018		< 1.0	1.15
7/27/2018	0.202764	< 1.0	2.34
7/30/2018	0.174573		
7/31/2018	0.188402	1.5	1.26
8/1/2018	0.202764		
8/2/2018		2.5	1.10
8/7/2018	0.202764	1.3	0.83
8/8/2018	0.07145		
8/15/2018	0.136277	1.2	0.89
8/16/2018	0.202764		
8/21/2018	0.161276	1.9	0.97
8/27/2018	0.233086		
8/28/2018	0.202764	3.9	2.64
9/4/2018	0.148511	2.3	0.93
9/10/2018	0.174573		
9/11/2018	0.148511	1.8	1.56
9/12/2018	0.148511		
9/13/2018	0.124573		
9/17/2018	0.148511		
9/18/2018	0.174573	1.8	2.19
9/20/2018	0.174573		
9/21/2018	0.148511		
9/24/2018	0.148511		
9/25/2018	0.148511	2.0	2.64
9/26/2018	0.05007		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
10/1/2018	0.102757		
10/2/2018	0.148511	< 1.0	1.79
10/3/2018	0.124573	2.7	1.84
10/9/2018	0.148511	3.1	2.11
10/15/2018	0.124573		
10/16/2018	0.102757	1.8	1.30
10/16/2018	0.04857		
10/22/2018	0.102757		
10/23/2018	0.124573	< 1.0	1.35
10/29/2018	0.102757	2.5	3.52
11/2/2018	0.148511		
11/5/2018	0.124573	3.5	3.04
11/7/2018	0.124573		
11/13/2018	0.174573	1.8	2.60
11/15/2018	0.233086		
11/20/2018		3.6	2.27
11/20/2018	0.148511		
11/27/2018	0.102757	2.4	1.16
11/29/2018	0.0830581		
11/30/2018	0.0449198		
12/3/2018	0.102757	1.9	0.71
12/10/2018	0.102757		
12/11/2018	0.102757	1.9	0.70
12/17/2018	0.102757		
12/18/2018	0.102757	2.1	0.56
12/28/2018	0.102757	2.3	0.48

E298733 - CM_PC2

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
6-May-08	0.209		
3-Jun-08	0.215		
7-Jul-08	0.18		
23-Apr-09	0.351		
27-Apr-09	0.005		
5-May-09	0.005	< 3.0	0.68
11-May-09	0.012		
19-May-09	0.256		
25-May-09	0.219		
2-Jun-09	0.206	< 3.0	0.37
8-Jun-09	0.066		
15-Jun-09	0.018		
22-Jun-09	0.01		
29-Jun-09	0.011		
15-Mar-10			
19-Apr-10	0.043	< 3.0	0.88
26-Apr-10	0.077	< 3.0	0.25
4-May-10	0.024	< 3.0	0.2
10-May-10	0.004	6	0.13
17-May-10	0.138	3.7	0.26
25-May-10	0.034	< 3.0	0.19
1-Jun-10	0.105	< 3.0	0.2
7-Jun-10	0.105	< 3.0	0.12
14-Jun-10	0.085	< 3.0	0.15
21-Jun-10	0.209	< 3.0	0.2
28-Jun-10	0.043	3.1	0.16
6-Jul-10	0.004	< 3.0	0.11
12-Jul-10	0.001	< 3.0	0.41
19-Jul-10	0.001	< 3.0	0.17
10-May-11	0.081	< 3.0	0.47
17-May-11	0.239	< 3.0	0.42
24-May-11	0.159	< 3.0	1.11
31-May-11	0.168	< 3.0	0.22

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7-Jun-11	0.312	5.3	0.49
14-Jun-11	0.386	< 3.0	0.4
20-Jun-11	0.177	< 3.0	0.47
27-Jun-11	0.121	< 3.0	0.22
5-Jul-11	0.089	< 3.0	0.21
12-Jul-11	0.013	< 3.0	0.19
19-Jul-11	0.003	< 3.0	0.27
25-Jul-11	0.001	< 3.0	0.23
24-Apr-12		< 3.0	
1-May-12		< 3.0	0.23
8-May-12	0.0417	< 3.0	
15-May-12	0.221	< 3.0	
22-May-12	0.188	< 3.0	
29-May-12	0.0561	< 3.0	
5-Jun-12	0.301	< 3.0	
12-Jun-12	0.11	< 3.0	
19-Jun-12	0.177	< 3.0	
26-Jun-12	0.249	< 3.0	
3-Jul-12	0.069	< 3.0	0.25
10-Jul-12	0.0194	< 3.0	
17-Jul-12	0.00993	< 3.0	
24-Jul-12		< 3.0	
9-Apr-13	0.0316	< 3.0	0.21
16-Apr-13		< 3.0	0.14
23-Apr-13		5	0.4
30-Apr-13	0.0786	< 3.0	0.24
7-May-13	0.146	< 3.0	0.67
14-May-13	0.439	< 3.0	0.53
21-May-13			
21-May-13		< 3.0	0.21
28-May-13		< 3.0	0.22
28-May-13	0.165		
4-Jun-13	0.0576	< 3.0	0.21
11-Jun-13	0.0455		
11-Jun-13		< 3.0	0.23

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
18-Jun-13	0.6003	< 3.0	0.19
25-Jun-13	0.153	< 3.0	0.35
2-Jul-13	0.0286	< 3.0	0.19
9-Jul-13	0.004	< 3.0	0.15
16-Jul-13		< 3.0	0.16
16-Jul-13			
6-Aug-13	0.008	< 3.0	0.26
1-Oct-13	0.058	< 1.0	0.3
15-Apr-14	0.0075	< 3.0	0.44
22-Apr-14	0.016		
29-Apr-14	0.01	< 1.0	0.22
6-May-14	0.087	< 1.0	0.28
13-May-14	0.045	< 1.0	0.27
20-May-14	0.298	< 1.0	0.36
27-May-14	0.262	< 1.0	0.53
3-Jun-14	0.202	< 1.0	0.3
10-Jun-14	0.141	< 1.0	0.28
17-Jun-14	0.0411	< 1.0	0.42
24-Jun-14	0.153	< 1.0	0.28
2-Jul-14	0.021	< 1.0	0.53
8-Jul-14		< 1.0	0.15
15-Jul-14	0.00108	< 1.0	0.23
16-Mar-15		< 1.0	0.52
30-Mar-15	0.062569	< 1.0	0.32
8-Apr-15	0.006	< 1.0	0.17
15-Apr-15	0.003	< 1.0	0.11
22-Apr-15	0.147	< 1.0	0.24
29-Apr-15	0.077	< 1.0	0.19
6-May-15	0.155	1.6	0.14
13-May-15	0.034737	< 1.0	0.12
20-May-15	0.008	< 1.0	1.5
27-May-15	0.097930903	< 3.0	0.27
2-Jun-15		< 1.0	0.49
3-Jun-15			
6-Jan-16	0		
3-Feb-16	0		
2-Mar-16	0		
6-Apr-16	0.046	< 1.0	0.23
13-Apr-16	0.130	< 1.0	0.26
20-Apr-16	0.159	< 1.0	0.46

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
27-Apr-16	0.563	< 1.0	0.19
4-May-16	0.068	< 1.0	0.18
11-May-16	0.061	< 1.0	0.16
18-May-16	0.022	< 1.0	0.14
25-May-16	0.034	< 1.0	0.19
1-Jun-16	0.031	< 1.0	0.15
8-Jun-16	0.033	< 1.0	0.16
15-Jun-16	0.002	< 1.0	0.16
22-Jun-16	0	< 1.0	0.15
29-Jun-16	0	2.0	0.43
6-Jul-16	0	4.2	0.33
13-Jul-16	0		
20-Jul-16	0		
27-Jul-16	0		
3-Aug-16	0		
7-Sep-16	0		
5-Oct-16	0		
2-Nov-16	0.012	< 1.0	0.23
13-Dec-16	0		
4/12/2017	0.00012714	< 1.0	0.15
4/19/2017		9.7	2.88
4/26/2017	0.0287	< 1.0	0.19
5/2/2017	0.009573		
5/9/2017	0.178	< 1.0	0.29
5/16/2017	0.137	< 1.0	0.28
5/23/2017	0.347	2.4	0.64
5/30/2017	0.3473	< 1.0	0.65
6/6/2017	0.1561		
6/14/2017	0.04791	< 1.0	0.19
6/21/2017	0.02117	< 1.0	0.19
6/28/2017	0.00507	< 1.0	0.23
7/5/2017	0.0003	1.2	0.43
7/12/2017	0		
7/19/2017	0		
7/25/2017	0		
8/1/2017	0		
8/8/2017	0		
8/15/2017	0		
8/22/2017	0		
8/29/2017	0		
9/5/2017	0		
9/12/2017	0		
9/19/2017	0		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
9/26/2017	0		
10/3/2017	0		
10/10/2017	0		
10/17/2017	0		
10/24/2017	0		
10/31/2017	0		
11/7/2017	0		
11/14/2017	0		
11/21/2017	0		
11/22/2017			
11/24/2017	0.06467	< 1.0	1.02
11/28/2017	0		
12/6/2017	0		
12/12/2017	0		
12/19/2017	0		
12/27/2017	0		
1/3/2018	0		
1/9/2018	0		
1/16/2018	0		
1/23/2018	0		
1/30/2018	0		
2/6/2018	0		
2/14/2018	0		
2/19/2018	0		
3/1/2018	0		
3/7/2018	0		
3/13/2018	0		
3/19/2018	0		
3/27/2018	0		
4/4/2018	0		
4/10/2018	0		
4/17/2018	0		
4/23/2018	0		
4/24/2018	0		
4/26/2018	0		
5/1/2018	0.079858	1.1	0.30
5/3/2018	0.064		
5/3/2018	0.083562		
5/4/2018	0.130693		
5/5/2018	0.196		
5/6/2018	0.2479		
5/7/2018	0.2839	< 1.0	0.78
5/8/2018	0.2839		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5/9/2018	0.4087		
5/10/2018	0.3068	< 1.0	0.51
5/12/2018	0.2083		
5/13/2018	0.1783		
5/14/2018	0.1841		
5/15/2018	0.339	< 1.0	1.12
5/16/2018	0.4658	< 1.0	0.40
5/17/2018	0.3729		
5/17/2018	0.05		
5/18/2018	0.2692		
5/19/2018	0.2083		
5/20/2018	0.1615		
5/21/2018	0.1508		
5/22/2018	0.1726	< 1.0	0.21
5/23/2018	0.196		
5/24/2018	0.2021		
5/25/2018	0.2211		
5/26/2018	0.2083		
5/27/2018	0.196		
5/28/2018	0.1212		
5/29/2018	0.1561	< 1.0	0.19
5/31/2018	0.0874		
6/1/2018	0.0596		
6/4/2018	0.033		
6/5/2018	0.0452	< 1.0	0.16
6/11/2018	0.0195		
6/12/2018	0.0596	< 1.0	0.26
6/13/2018	0.0536		
6/19/2018	0.0212	< 1.0	1.14
6/22/2018	0.0163		
6/25/2018	0.0059		
6/26/2018	0.0051	2.3	0.50
6/28/2018	0.003		
6/29/2018	0.002		
7/3/2018	0.0001	< 1.0	0.13
7/4/2018	0		
7/5/2018	0		
7/9/2018	0		
7/10/2018	0	< 1.0	0.25
7/11/2018	0		
7/12/2018	0		
7/13/2018	0		
7/16/2018	0		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/17/2018	0		
7/18/2018	0		
7/19/2018	0		
7/23/2018	0		
7/24/2018	0		
7/25/2018	0		
7/26/2018	0		
7/26/2018	0		
7/27/2018	0		
7/30/2018	0		
7/31/2018	0		
8/1/2018	0		
8/7/2018	0		
8/15/2018	0		
8/16/2018	0		
8/21/2018	0		
8/27/2018	0		
8/28/2018	0		
9/4/2018	0		
9/10/2018	0		
9/12/2018	0		
9/13/2018	0		
9/13/2018	0		
9/17/2018	0		
9/18/2018	0		
9/21/2018	0		
9/24/2018	0		
9/25/2018	0		
10/1/2018	0		
10/2/2018	0		
10/9/2018	0		
10/15/2018	0		
10/16/2018	0		
10/22/2018	0		
10/23/2018	0		
10/29/2018	0		
11/2/2018	0		
11/5/2018	0		
11/7/2018	0		
11/13/2018	0		
11/15/2018	0		
11/20/2018	0		
11/27/2018	0		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
11/29/2018	0		
12/3/2018	0		
12/10/2018	0		
12/11/2018	0		
12/17/2018	0		
12/18/2018	0		
12/28/2018	0		

E102488 - CM_SPD

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Jan-08		< 3.0	0.88
5-Feb-08		< 3.0	1.8
4-Mar-08	0.015	< 3.0	2.5
1-Apr-08	0.0102	63	72.4
7-Apr-08	0.0315	7	35.1
14-Apr-08	0.32	22	49.8
21-Apr-08	0.0669	8	11.4
28-Apr-08	0.137	9	19.6
6-May-08	0.273	3	13.3
12-May-08	0.213	5	8.4
20-May-08	0.311	18	17.7
26-May-08	0.389	17	39.8
3-Jun-08	0.247	5	11.7
9-Jun-08	0.206	4	31.9
16-Jun-08	0.0877	5	9.5
23-Jun-08	0.163	5	7
7-Jul-08	0.098	8	7.5
14-Jul-08	0.08	< 3.0	3.9
21-Jul-08	0.066	5	3.7
28-Jul-08	0.047	6	8.4
5-Aug-08	0.055	3	4.9
11-Aug-08	0.007	11	17.1
18-Aug-08	0.039	4	3.7
25-Aug-08	0.033	5	7.9

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Sep-08	0.033	6	7.1
7-Oct-08	0.077	9	5.6
4-Nov-08	0.023	3	2.9
2-Dec-08	0.011	< 3.0	1.56
6-Jan-09	0.01	< 3.0	0.67
3-Feb-09	0.007	13.6	7.47
3-Mar-09	0.03	181	233
7-Apr-09	0.087	37.6	34.5
14-Apr-09	0.077	13.5	31.1
20-Apr-09	0.13	19.6	39.8
27-Apr-09	0.143	14	19.8
5-May-09	0.122	19.6	30.7
11-May-09	0.164	12.7	22.3
19-May-09	0.179	13.1	36.8
25-May-09	0.157	9.7	23.4
2-Jun-09	0.143	9.8	14.1
8-Jun-09	0.094	10.3	13.5
15-Jun-09	0.066	13.6	15.2
22-Jun-09	0.234	31.7	44.7
29-Jun-09	0.041	10.2	11.6
7-Jul-09	0.043	7.5	3.86
13-Jul-09	0.029	10.3	0.1
20-Jul-09	0.033	< 3.0	7.91
27-Jul-09	0.048	12.3	18.2
4-Aug-09	0.042	6.9	7.24
1-Sep-09	0.026		2.85
6-Oct-09	0.019	3.2	6.42
3-Nov-09	0.026	7.3	18.7
1-Dec-09	0.02	< 3.0	2.61
5-Jan-10	0.004		0.55
2-Feb-10	0.005	< 3.0	0.7
2-Mar-10	0.023	7.7	7.03
8-Mar-10	0.036		
15-Mar-10	0.026		
23-Mar-10	0.029	5	3.85

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
29-Mar-10	0.048	7.1	21.2
6-Apr-10	0.024	< 3.0	3.5
12-Apr-10	0.024	< 3.0	3.22
19-Apr-10	0.099	12.5	34.5
26-Apr-10	0.09	9.3	13.3
4-May-10	0.016	11.1	20
10-May-10	0.068	< 3.0	6.2
17-May-10	0.117	9	7.31
25-May-10	0.083	< 3.0	4.87
1-Jun-10	0.161	14.7	39.2
7-Jun-10	0.12	3.3	14.9
14-Jun-10	0.099	3	10.5
21-Jun-10	0.201	6.2	14
28-Jun-10	0.165	6.4	8.58
6-Jul-10	0.108	6.2	7.95
12-Jul-10	0.043	21.3	35.6
19-Jul-10	0.014	3.2	6.08
26-Jul-10	0.132	< 3.0	9.79
3-Aug-10	0.052	5.8	6.58
7-Sep-10	0.055	10	8.58
5-Oct-10	0.178	3.1	3.73
27-Oct-10	0.04	5.7	7.02
2-Nov-10	0.182	28.3	55
7-Dec-10	0.107	< 3.0	2.39
3-Jan-11	0.0336	7.7	9.76
4-Jan-11	0.0913	4.7	2.07
1-Feb-11	0.0036	< 3.0	1.28
7-Mar-11	0.045	6.1	4.09
5-Apr-11	0.102	4.2	13.2
12-Apr-11	0.0869	9	11
19-Apr-11	0.0759	11.2	11.9
26-Apr-11	0.04	12.3	21
3-May-11	0.107	27.3	36.1
10-May-11	0.135	57.4	67.3
17-May-11	0.458	44.6	42

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
24-May-11	0.223	26.9	36
27-May-11		80	
31-May-11	0.291	43.9	62.3
7-Jun-11	0.132	29.3	24.9
14-Jun-11	0.426	< 3.0	2.03
20-Jun-11	0.24	10.8	10.3
27-Jun-11	0.163	7.1	7.03
5-Jul-11	0.154	10.3	4.71
12-Jul-11	0.288	10	8.97
19-Jul-11	0.232	6.3	6.37
25-Jul-11	0.169	4.1	4.99
2-Aug-11	0.226	6	6.32
6-Sep-11	0.07	4.7	5.95
4-Oct-11	0.024	5.5	2.26
13-Oct-11			
1-Nov-11	0.0882	16.9	21
6-Dec-11	0.0523	6.8	8.66
3-Jan-12	0.0336	7.7	9.76
7-Feb-12	0.0235	4	8.17
7-Mar-12	0.0851	6	4.83
3-Apr-12	0.106	4.9	13.7
10-Apr-12	0.138	26.9	
17-Apr-12	0.186	29.5	
23-Apr-12		362	
24-Apr-12	0.887	128	
25-Apr-12		104	
1-May-12	0.424	65.1	85
8-May-12	0.358	22.2	
15-May-12	0.391	24	
22-May-12	0.281	20.7	
29-May-12	0.226	13.3	
5-Jun-12	0.208	8	
12-Jun-12	0.238	7	
19-Jun-12	0.203	52.8	
26-Jun-12	0.288	24.4	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
3-Jul-12	0.239	29.7	39.3
10-Jul-12	0.128	19.3	
17-Jul-12	0.137	6.7	
24-Jul-12		18	
31-Jul-12	0.086	11.6	
7-Aug-12	0.126	14	12.6
4-Sep-12	0.0794	< 3.0	
5-Sep-12	0.0891		
6-Sep-12	0.085	5	
7-Sep-12	0.0836	12.4	
10-Sep-12	0.111	13.3	
11-Sep-12	0.0867		
12-Sep-12	0.0806	3.7	
13-Sep-12	0.0794		
14-Sep-12	0.08	5.3	
17-Sep-12	0.0742	5	
18-Sep-12	0.0812		
19-Sep-12	0.0824	3.2	
20-Sep-12	0.0748	9.7	
24-Sep-12	0.081	4	
25-Sep-12	0.078		
26-Sep-12	0.064	< 3.0	
2-Oct-12			
6-Nov-12	0.14	13.9	
4-Dec-12	0.078	33.6	
2-Jan-13	0.0618	< 3.0	
8-Jan-13		< 4.0	
9-Jan-13		9	
10-Jan-13		5	
11-Jan-13		< 4.0	
12-Jan-13		10	
13-Jan-13		< 4.0	
14-Jan-13		6	
15-Jan-13		6	
16-Jan-13		< 4.0	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
17-Jan-13		7	
18-Jan-13		8	
19-Jan-13		21	
20-Jan-13		17	
21-Jan-13		< 4.0	
22-Jan-13		< 4.0	
23-Jan-13		6	
24-Jan-13		5	
25-Jan-13		15	
26-Jan-13		42	
28-Jan-13		< 4.0	
29-Jan-13		6	
30-Jan-13		19.2	
31-Jan-13		10	
1-Feb-13		57	
2-Feb-13		15	
3-Feb-13		14	
4-Feb-13		< 4.0	
5-Feb-13	0.0548	10.7	18
6-Feb-13		16	
7-Feb-13		4	
8-Feb-13		10	
9-Feb-13		14	
10-Feb-13		< 4.0	
11-Feb-13		12	
12-Feb-13		6	
13-Feb-13		6	
14-Feb-13		9.5	
15-Feb-13		11.5	
16-Feb-13		9	
16-Feb-13		5	
16-Feb-13		15	
17-Feb-13		8	
17-Feb-13		11	
17-Feb-13		5.2	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
21-Feb-13		7.5	
22-Feb-13		< 4.0	
23-Feb-13		< 4.0	
24-Feb-13		6.5	
25-Feb-13		4.5	
26-Feb-13		11	
27-Feb-13		11	
28-Feb-13		12.5	
1-Mar-13		8.5	
2-Mar-13		10	
3-Mar-13		7	
4-Mar-13		14	
5-Mar-13	0.0548	21.875	43.7
6-Mar-13		15.5	
7-Mar-13		10.5	
8-Mar-13		17	
9-Mar-13		9	
10-Mar-13		8.5	
11-Mar-13		23.5	
12-Mar-13		11.5	
13-Mar-13		77	
14-Mar-13		18	
15-Mar-13		26.5	
16-Mar-13		10	
16-Mar-13		11.5	
17-Mar-13		14	
18-Mar-13		15	
19-Mar-13		13.5	
20-Mar-13		26	
21-Mar-13		19	
22-Mar-13		10	
23-Mar-13		< 4.0	
24-Mar-13		6	
28-Mar-13		19.4	
31-Mar-13		42.6	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Apr-13	0.103	37	56.1
9-Apr-13	0.151	19.7	38
16-Apr-13	0.0394	70.3	59.2
23-Apr-13	0.0394	37.8	38.7
30-Apr-13	0.129	19.2	25.4
7-May-13	0.177	27.6	35.9
14-May-13	0.177	42.5	61.5
21-May-13	0.118	7.3	8.89
28-May-13	0.118	20.5	20.1
4-Jun-13	0.0875	13.6	16.2
11-Jun-13	0.0613	8.3	8.52
12-Jun-13		9	
18-Jun-13	0.1561	9.1	6.16
19-Jun-13		677	< 0.10
20-Jun-13		1670	1200
21-Jun-13		129	153
22-Jun-13		59.2	78.6
24-Jun-13		33.3	40.8
25-Jun-13	0.159	23.9	31.1
2-Jul-13	0.0394	25.9	19.4
9-Jul-13	0.0535	15.3	16.7
16-Jul-13	0.0394	4.6	2.42
23-Jul-13	0.0353	3.5	2.98
30-Jul-13	0.053	< 3.0	2.45
2-Aug-13		84	139
2-Aug-13		30	70.8
6-Aug-13	0.067	19.3	15.6
3-Sep-13	0.0302	11.2	4.69
1-Oct-13	0.019	14.9	20.6
5-Nov-13	0.021	1.2	2.16
3-Dec-13	0.006	1.7	3.1
7-Jan-14	0	< 1.0	0.98
4-Feb-14	0.013	12.7	3.46
4-Mar-14	0.00174	2.5	1.8
26-Mar-14		13.7	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Apr-14	0.013	8.4	21.7
8-Apr-14		29	69.7
8-Apr-14	0.152	66.3	68.5
9-Apr-14		417	520
9-Apr-14		96	119
10-Apr-14		43.3	70.6
10-Apr-14		21.9	40.8
10-Apr-14		22.9	45.4
11-Apr-14		32.2	41.2
15-Apr-14	0.147	27.2	52.3
22-Apr-14	0.175	61.1	64
29-Apr-14	0.088	29.7	34.2
6-May-14	0.178	41.8	53.3
13-May-14	0.169	22.9	27.5
20-May-14	0.221	27.3	25.2
27-May-14	0.171	28.4	35
3-Jun-14	0.193	8.5	6.25
10-Jun-14	0.101	3.8	3.41
17-Jun-14	0.393	134	140
24-Jun-14	0.074	18.4	20.9
2-Jul-14	0.046	11.8	7.68
8-Jul-14	0.033	18.3	6.37
15-Jul-14	0.103	25.3	17.4
22-Jul-14	0.04	11.5	14.5
29-Jul-14	0.0425	26.7	8.16
5-Aug-14	0.592	3.4	1.54
2-Sep-14	0.009	6.9	2.16
7-Oct-14	0.016	7.3	1.75
4-Nov-14	0.088	77.1	38
3-Dec-14	0.052	1.8	5.53
6-Jan-15	0.032	1.9	1.26
3-Feb-15	0.03016	2	1.46
3-Mar-15	0.029	1.6	1.93
30-Mar-15	0.148	9.4	22.3
8-Apr-15	0.112	3.7	4.3

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
15-Apr-15	0.089	3.9	3.01
22-Apr-15	0.159	12	3.96
29-Apr-15	0.116	14.8	4.14
6-May-15	0.111615	18	16.9
13-May-15	0.04776	10.8	8.49
20-May-15	0.06	4	1.37
27-May-15	0.103246	16.1	3.18
2-Jun-15		51.6	51.5
2-Jun-15		39.2	42.3
2-Jun-15		20.2	21.2
3-Jun-15			
3-Jun-15		7	8.69
3-Jun-15	0.188119	8.9	6.95
10-Jun-15	0.097375	9.7	2.96
17-Jun-15	0.068267	4.2	0.67
24-Jun-15	0.061085	2.4	0.6
30-Jun-15	0.059	< 1.0	2.13
8-Jul-15	0.0459	2.1	0.72
15-Jul-15	0.051	8	1.23
21-Jul-15	0.030495	2	1.61
27-Jul-15	0.012	1.3	0.73
5-Aug-15	0.036	2	1.09
17-Aug-15		3.9	
24-Aug-15		6.3	
2-Sep-15	0.029	2.5	1.09
28-Sep-15	0.0053	2.8	1.04
7-Oct-15	0.04	1.8	1.22
4-Nov-15			
4-Nov-15	0.039	9.5	17.6
2-Dec-15	0.033	2	2.67
6-Jan-16	0.035	1.3	0.84
3-Feb-16	0.019	< 1.0	< 0.10
2-Mar-16	0.050	2.2	4.96
6-Apr-16	0.160	10.3	5.49
13-Apr-16	0.261	9.0	16.4
20-Apr-16	0.197	6.6	7.17
27-Apr-16	0.231	2.4	1.36
4-May-16	0.249	12.5	5.11
11-May-16	0.261	13.6	11.6
18-May-16	0.123	2.3	0.71

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
25-May-16	0.131	11.6	13.3
1-Jun-16	0.217	< 1.0	< 0.10
8-Jun-16	0.165	< 1.0	< 0.10
15-Jun-16	0.165	4.5	1.92
22-Jun-16	0.086	5.5	2.42
22-Jun-16		< 1.0	< 0.10
29-Jun-16	0.102	3.6	3.52
6-Jul-16	0.102	3.3	1.27
13-Jul-16	0.085	4.8	2.51
20-Jul-16	0.077	4.5	1.76
27-Jul-16	0.015	2.1	1.27
3-Aug-16	0.015	2.6	1.43
7-Sep-16	0.026	2.1	1.77
5-Oct-16	0.034	2.3	2.16
17-Oct-16		8.0	9.47
2-Nov-16	0.153	< 1.0	< 0.10
7-Nov-16		1.6	2.80
8-Nov-16	0.126	1.8	0.78
9-Nov-16	0.131	1.5	2.36
10-Nov-16		2.7	1.98
15-Nov-16	0.167	10.4	17.0
17-Nov-16	0.131	1.9	2.41
23-Nov-16	0.111	1.2	2.21
30-Nov-16		5.4	8.88
30-Nov-16	0.111	5.0	8.48
13-Dec-16	0.093	< 1.0	< 0.10
1/17/2017	0.063	1.6	1.68
1/24/2017	0.053		
1/29/2017	0.0471		
1/30/2017	0.044		
2/1/2017	0.0472	1.9	2.8
2/7/2017	0.05		
2/21/2017	0.053		
3/1/2017	0.056	1.6	2.07
3/7/2017	0.0561		
3/29/2017	0.113		
4/5/2017	0.133	16.2	8.11
4/10/2017		8.2	
4/12/2017	0.141770504	2.7	3.4
4/19/2017	0.210043417	3.9	4.37
4/26/2017	0.46512	8.8	15.0
4/27/2017		20.9	
4/27/2017		18.1	

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
4/282017		21.3	
5/2/2017	0.217	5.2	3.6
5/5/2017		32.4	
5/5/2017		26.6	
5/6/2017		39.5	
5/6/2017		29.0	
5/6/2017		20.0	
5/6/2017		21.0	
5/7/2017		12.2	
5/9/2017	0.532	10.5	12.3
5/16/2017	0.141	6.5	10.2
5/17/2017		26.6	
5/17/2017		16.6	
5/18/2017		8.6	
5/23/2017	0.57295	8.6	9.35
5/30/2017	0.51857	7	10.5
6/6/2017	0.51857	23.6	16.3
6/14/2017	0.488782	8.2	3.99
6/21/2017	0.2171	12.5	10.1
6/28/2017	0.217058	2.1	1.79
7/4/2017	0.2242	10.3	7.02
7/12/2017	0.1198	4.4	1.68
7/19/2017	0.09569	8.1	2.37
7/25/2017	0.07323	3.8	3.2
8/1/2017	0.04066	40.8	14.0
8/8/2017	0.0455	13.7	5.68
8/15/2017	0.04439	3.4	3.72
8/22/2017	0.04439	5	5.1
8/29/2017	0.05065	1.9	2.49
9/5/2017	0.04948	5.2	2.72
9/12/2017	0.04331	2	1.03
9/19/2017	0.0000460721	4	5.96
10/3/2017	0.034253685	1.6	1.29
10/19/2017		11.1	13.2
10/19/2017		33.0	35.6
10/20/2017		12.0	22.7
10/23/2017		2.7	7.63
11/7/2017	0.02849	1.3	1.36
11/22/2017	0.088903	2.0	4.05
12/6/2017	0.050	1.1	4.69
12/12/2017	0.146		
1/9/2018	0.0297642	1.0	0.61
2/6/2018	0.031962	< 1.0	0.78

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2/28/2018		1.1	0.70
3/7/2018	0.018814	1.1	0.58
3/11/2018	0.025648		
3/12/2018	0.043308		
3/13/2018	0.044394		
3/14/2018	0.044394		
3/15/2018	0.044394	6.3	21.6
3/19/2018	0.034254	9.2	15.3
3/27/2018	0.030196	1.5	3.21
3/29/2018	0.039127		
3/29/2018	0.039127		
4/3/2018	0.039127		
4/4/2018	0.0333254	1.2	3.42
4/9/2018	0.041186	1.7	2.68
4/13/2018	0.056149		
4/16/2018	0.077743		
4/17/2018	0.053054	9.9	15.8
4/18/2018	0.056149		
4/18/2018	0.050064		
4/18/2018	0.050064		
4/18/2018	0.136348		
4/19/2018	0.131051		
4/21/2018	0.111109		
4/22/2018	0.076981		
4/23/2018	0.085623		
4/24/2018	0.120833	3.3	4.18
4/25/2018	0.158808		
4/26/2018	0.177018		
4/27/2018	0.217058		
4/27/2018	0.238939		
4/28/2018	0.529576		
4/28/2018	0.578104		
4/29/2018	0.662359		
4/29/2018	0.662359		
4/30/2018	0.518573		
5/1/2018	0.552985	8.9	7.74
5/2/2018	0.3259		
5/3/2018	0.541056		
5/4/2018	0.604782		
5/5/2018	0.6048		
5/6/2018	0.553		
5/7/2018	0.553	5.9	19.7
5/8/2018	0.6187		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5/9/2018	0.6048		
5/9/2018		10.5	12.7
5/10/2018	0.5781	9.1	11.2
5/12/2018	0.5081		
5/13/2018	0.5186		
5/14/2018	0.5186		
5/15/2018	0.5186	6.4	5.25
5/16/2018	0.5296	12.8	15.5
5/16/2018	0.342		
5/17/2018	0.4592		
5/18/2018	0.5081		
5/19/2018	0.4888		
5/20/2018	0.4722		
5/21/2018	0.4722		
5/22/2018	0.5186	3.2	3.49
5/23/2018	0.5081		
5/24/2018	0.5081		
5/25/2018	0.5081		
5/26/2018	0.6048		
5/27/2018	0.6048		
5/28/2018	0.4888		
5/29/2018	0.4981	2.3	2.95
5/31/2018	0.4722		
6/1/2018	0.4722		
6/4/2018	0.1898		
6/5/2018	0.2389	2.6	2.82
6/11/2018	0.2171		
6/12/2018	0.2315	1.6	2.92
6/13/2018	0.203166		
6/19/2018	0.2032	5.8	2.54
6/22/2018	0.0808		
6/25/2018	0.1898		
6/26/2018	0.1834	8.1	4.63
6/28/2018	0.1898		
6/29/2018	0.1898		
7/3/2018	0.1418	3.1	2.50
7/4/2018	0.1019		
7/5/2018	0.1208		
7/9/2018	0.1208		
7/10/2018	0.1208	< 1.0	1.28
7/11/2018	0.1208		
7/12/2018	0.1208		
7/12/2018	0.1208		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/12/2018	0.1111		
7/13/2018	0.1019		
7/16/2018	0.1111		
7/17/2018	0.1083	1.2	1.28
7/18/2018	0.1064		
7/19/2018	0.0931		
7/23/2018	0.10187		
7/24/2018	0.0931078	1.2	0.79
7/25/2018	0.10187		
7/26/2018	0.10187		
7/26/2018	0.120833		
7/26/2018		28.3	35.5
7/27/2018	0.120833	7.4	13.3
7/30/2018	0.120833		
7/31/2018	0.106429	< 1.0	1.08
8/1/2018	0.10187		
8/7/2018	0.0931078	< 1.0	1.20
8/8/2018	0.103882		
8/9/2018	0.111109	1.8	1.59
8/15/2018	0.0931078		
8/16/2018	0.10187		
8/21/2018	0.0931078		
8/27/2018	0.111109		
9/4/2018	0.0931078	< 1.0	0.53
9/10/2018	0.0931078		
9/12/2018	0.0848143		
9/12/2018	0.0848143		
9/12/2018	0.0769805		
9/12/2018	0.056149		
9/13/2018	0.0297642		
9/13/2018	0.0342537		
9/13/2018	0.0342537		
9/14/2018	0.0769805		
9/17/2018	0.056149		
9/17/2018	0.056149		
9/17/2018	0.056149		
9/18/2018	0.0297642		
9/18/2018	0.0297642	3.0	2.57
9/18/2018	0.0256477		
9/18/2018	0.0342537		
9/19/2018	0.0342537		
9/19/2018	0.0297642		
9/19/2018	0.0297642		

Sample Date	INSTANTANEOUS FLOW (m^3/s)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
9/19/2018	0.0256477		
9/20/2018	0.0218931		
9/20/2018	0.0218931		
9/20/2018	0.0218931		
9/21/2018	0.0218931		
9/24/2018	0.0297642		
9/26/2018	0.02268		
10/1/2018	0.0297642		
10/2/2018	0.0500644	< 1.0	1.06
10/15/2018	0.0256477		
10/22/2018	0.14177		
10/29/2018	0.0931078		
11/2/2018	0.111109		
11/5/2018	0.0848143	3.8	4.21
11/7/2018	0.0848143		
11/15/2018	0.0848143		
11/29/2018	0.0297642		
12/3/2018	0.0297642	2.5	1.56
12/5/2018	0.025675		
12/10/2018	0.0297642		
12/17/2018	0.0256477		

0200209 - CM_CC1

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Jan-08	< 3.0	0.27
5-Feb-08	< 3.0	0.22
4-Mar-08	< 3.0	0.21
1-Apr-08	3	0.93
7-Apr-08	< 3.0	3.9
14-Apr-08	21	32.4
21-Apr-08	4	2
28-Apr-08	3	4.8
6-May-08	< 3.0	2.5
12-May-08	3	1.8
20-May-08	3	3.8
26-May-08	6	9
3-Jun-08	< 3.0	2.1

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
9-Jun-08	< 3.0	4
16-Jun-08	< 3.0	1.7
23-Jun-08	< 3.0	1.5
7-Jul-08	4	1.1
14-Jul-08	3	1.1
21-Jul-08	< 3.0	0.26
28-Jul-08	< 3.0	1.3
5-Aug-08	< 3.0	1.2
11-Aug-08	3	3
18-Aug-08	5	0.9
25-Aug-08	< 3.0	1.6
2-Sep-08	3	1.5
7-Oct-08	18	7.6
4-Nov-08	7	0.86
2-Dec-08	< 3.0	1.23
6-Jan-09	< 3.0	0.39
3-Feb-09	< 3.0	0.45
3-Mar-09	7.3	9.53
7-Apr-09	11	11.6
14-Apr-09	21.5	14.8
20-Apr-09	9.6	14
27-Apr-09	4	6.18
5-May-09	6.9	8.92
11-May-09	8.7	4.83
19-May-09	23.1	16.5
25-May-09	11.7	6.2
2-Jun-09	< 3.0	2.6
8-Jun-09	3.7	1.63
15-Jun-09	< 3.0	2.56
22-Jun-09	19.8	20.1
29-Jun-09	< 3.0	1.3
7-Jul-09	5.5	0.96
13-Jul-09	< 3.0	1.71
20-Jul-09	< 3.0	2.13
27-Jul-09	5.7	3.37
4-Aug-09	< 3.0	1.43

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Sep-09	< 3.0	0.91
6-Oct-09	< 3.0	1.1
3-Nov-09	< 3.0	3.07
1-Dec-09	< 3.0	1.53
5-Jan-10		0.26
2-Feb-10	< 3.0	0.25
2-Mar-10	< 3.0	1.27
8-Mar-10		
15-Mar-10		
23-Mar-10	< 3.0	0.88
29-Mar-10	3.8	4.59
6-Apr-10	< 3.0	0.99
12-Apr-10	< 3.0	0.74
19-Apr-10	7.7	14.6
26-Apr-10	8	2.7
4-May-10	< 3.0	4.35
10-May-10	4	1.56
17-May-10	5.7	2.36
25-May-10	< 3.0	1.32
1-Jun-10	8.5	14
7-Jun-10	< 3.0	2.61
14-Jun-10	< 3.0	1.96
21-Jun-10	< 3.0	3.64
28-Jun-10	< 3.0	2.02
6-Jul-10	< 3.0	1.94
12-Jul-10	8	6.93
19-Jul-10	< 3.0	1.75
26-Jul-10	< 3.0	3.91
3-Aug-10	5.1	1.47
7-Sep-10	< 3.0	2.07
5-Oct-10	3.1	1.72
27-Oct-10	11	3.68
2-Nov-10	15.7	17.9
7-Dec-10	< 3.0	1.41
3-Jan-11	3.7	3.23
4-Jan-11	< 3.0	1.16

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Feb-11	< 3.0	0.59
7-Mar-11	< 3.0	1.52
5-Apr-11	< 3.0	2.9
12-Apr-11	5.7	3.31
19-Apr-11	7.8	4.49
26-Apr-11	5.7	7.54
3-May-11	14.7	14
10-May-11	40.4	39.8
17-May-11	10.6	12.8
24-May-11	20.9	13.8
27-May-11	24	
31-May-11	10.5	18.2
7-Jun-11	15.3	5.51
14-Jun-11	3.8	4.14
20-Jun-11	3.5	2.37
27-Jun-11	3.1	1.17
5-Jul-11	< 3.0	1.43
12-Jul-11	4	2.09
19-Jul-11	< 3.0	1.77
25-Jul-11	< 3.0	2.25
2-Aug-11	7.3	2.14
6-Sep-11	4	1.73
4-Oct-11	< 3.0	1.07
1-Nov-11	4.9	5.34
6-Dec-11	< 3.0	2.24
3-Jan-12	3.7	3.23
7-Feb-12	< 3.0	2.38
7-Mar-12	< 3.0	1.31
3-Apr-12	< 3.0	3.77
10-Apr-12	12.2	
17-Apr-12	16.9	
23-Apr-12	248	
24-Apr-12	74.7	
1-May-12	22.4	31.2
2-May-12	260	
2-May-12	650	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8-May-12	10.2	
15-May-12	10	
22-May-12	5.3	
29-May-12	4	
5-Jun-12	< 3.0	
12-Jun-12	4.3	
19-Jun-12	10.2	
26-Jun-12	28.9	
3-Jul-12	8.3	7.91
10-Jul-12	< 3.0	
17-Jul-12	4	
24-Jul-12	8	
31-Jul-12	< 3.0	
7-Aug-12	5.3	1.75
4-Sep-12	< 3.0	
5-Sep-12		
6-Sep-12	< 3.0	
7-Sep-12	15.8	
10-Sep-12	3.5	
11-Sep-12		
12-Sep-12	< 3.0	
13-Sep-12		
14-Sep-12	< 3.0	
17-Sep-12	< 3.0	
18-Sep-12		
19-Sep-12	< 3.0	
20-Sep-12	3.7	
24-Sep-12	< 3.0	
25-Sep-12		
26-Sep-12	< 3.0	
2-Oct-12		
6-Nov-12	5.6	
7-Nov-12	1800	
7-Nov-12	25	
7-Nov-12	22	
4-Dec-12	< 3.0	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Jan-13	< 3.0	
8-Jan-13	< 4.0	
9-Jan-13	< 4.0	
10-Jan-13	< 4.0	
11-Jan-13	< 4.0	
12-Jan-13	< 4.0	
13-Jan-13	< 4.0	
14-Jan-13	6	
15-Jan-13	< 4.0	
16-Jan-13	< 4.0	
17-Jan-13	4	
18-Jan-13	< 4.0	
19-Jan-13	< 4.0	
20-Jan-13	< 4.0	
21-Jan-13	< 4.0	
22-Jan-13	< 4.0	
23-Jan-13	< 4.0	
24-Jan-13	< 4.0	
25-Jan-13	< 4.0	
26-Jan-13	< 4.0	
27-Jan-13	< 4.0	
28-Jan-13	< 4.0	
29-Jan-13	< 4.0	
30-Jan-13	< 4.0	
31-Jan-13	< 4.0	
1-Feb-13	18	
2-Feb-13	< 4.0	
3-Feb-13	< 4.0	
4-Feb-13	< 4.0	
5-Feb-13	< 3.0	1.34
6-Feb-13	4	
7-Feb-13	< 4.0	
8-Feb-13	< 4.0	
9-Feb-13	< 4.0	
10-Feb-13	17	
11-Feb-13	7.5	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
12-Feb-13	< 4.0	
13-Feb-13	< 4.0	
14-Feb-13	< 4.0	
15-Feb-13	< 4.0	
16-Feb-13	< 4.0	
16-Feb-13	4	
16-Feb-13	< 4.0	
17-Feb-13	7	
17-Feb-13	< 4.0	
17-Feb-13	< 4.0	
21-Feb-13	< 4.0	
22-Feb-13	< 4.0	
23-Feb-13	< 4.0	
24-Feb-13	< 4.0	
25-Feb-13	< 4.0	
26-Feb-13	< 4.0	
27-Feb-13	< 4.0	
28-Feb-13	< 4.0	
1-Mar-13	< 4.0	
2-Mar-13	< 4.0	
3-Mar-13	< 4.0	
4-Mar-13	< 4.0	
5-Mar-13	7	6.77
6-Mar-13	4	
7-Mar-13	< 4.0	
8-Mar-13	4.5	
9-Mar-13	< 4.0	
10-Mar-13	< 4.0	
11-Mar-13	< 4.0	
12-Mar-13	< 4.0	
13-Mar-13	30	
14-Mar-13	5	
15-Mar-13	13	
16-Mar-13	< 4.0	
16-Mar-13	< 4.0	
17-Mar-13	4.5	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
18-Mar-13	< 4.0	
19-Mar-13	< 4.0	
20-Mar-13	6	
21-Mar-13	6	
22-Mar-13	< 4.0	
23-Mar-13	< 4.0	
24-Mar-13	< 4.0	
2-Apr-13	20.8	21.9
9-Apr-13	13.7	12.4
16-Apr-13	8.1	4.95
23-Apr-13	13.6	9.39
30-Apr-13	8.4	5.85
7-May-13	17.1	7.99
14-May-13	25.2	20.1
21-May-13	< 3.0	3.03
28-May-13	8.5	3.22
31-May-13		
4-Jun-13	3.6	1.39
11-Jun-13	< 3.0	1.19
18-Jun-13	< 3.0	0.87
19-Jun-13	2850	3910
20-Jun-13	1100	848
21-Jun-13	52.5	37.8
22-Jun-13	24.5	19.2
24-Jun-13	14.3	7.21
25-Jun-13	11.9	6.17
2-Jul-13	5.3	1.03
9-Jul-13	< 3.0	1.48
16-Jul-13	< 3.0	0.67
23-Jul-13	< 3.0	0.55
30-Jul-13	< 3.0	0.65
2-Aug-13	35	36.9
2-Aug-13	21	24.5
6-Aug-13	6.4	1.62
3-Sep-13		0.49
3-Sep-13	< 3.0	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1-Oct-13	4.9	4.16
5-Nov-13	< 1.0	0.55
3-Dec-13	< 1.0	0.6
7-Jan-14	< 1.0	0.28
4-Feb-14	< 1.0	0.39
4-Mar-14	2.4	0.47
26-Mar-14	169	
27-Mar-14	6.3	
27-Mar-14	< 4.0	
28-Mar-14	545	
1-Apr-14	6.6	6.62
1-Apr-14	48.5	
2-Apr-14	19.3	
3-Apr-14	5.1	
4-Apr-14	< 4.0	
7-Apr-14	< 4.0	6.11
8-Apr-14	14.6	23.5
8-Apr-14	23.4	20.6
8-Apr-14	74.6	40.1
9-Apr-14	149	178
9-Apr-14	85.3	68.3
10-Apr-14	28	34.6
10-Apr-14	17.3	17.2
11-Apr-14	15	16.6
15-Apr-14	14.5	17.6
22-Apr-14	32.5	20.4
29-Apr-14	7.9	7.43
6-May-14	13.1	10.8
13-May-14	8.1	5.9
20-May-14	14.1	5.66
27-May-14	9.2	8.37
3-Jun-14	1.7	1.15
10-Jun-14	1.5	0.92
17-Jun-14	32.6	20.7
24-Jun-14	3.7	2.88
2-Jul-14	< 1.0	1.13

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8-Jul-14	2.4	0.88
15-Jul-14	4.1	1.42
22-Jul-14	1.5	1.1
29-Jul-14	2.2	1.05
5-Aug-14	< 1.0	0.45
2-Sep-14	1.5	0.61
7-Oct-14	< 1.0	0.43
4-Nov-14	10.2	5.33
3-Dec-14	1.1	1.47
6-Jan-15	< 1.0	0.48
3-Feb-15	< 1.0	0.46
3-Mar-15	< 1.0	0.64
16-Mar-15	14.6	15.7
23-Mar-15	1.8	2.01
30-Mar-15	3.6	4.32
8-Apr-15	1	1.14
15-Apr-15	< 1.0	0.72
22-Apr-15	4.4	1.41
29-Apr-15	4.1	2.03
6-May-15	2.8	1.96
13-May-15	2.2	1.6
20-May-15	1.2	0.8
27-May-15	4.7	1.95
3-Jun-15	29.5	7.67
10-Jun-15	2.1	1.06
17-Jun-15	1.8	0.45
24-Jun-15	< 1.0	0.42
30-Jun-15	1	0.35
8-Jul-15	< 1.0	0.33
15-Jul-15	1.1	0.36
21-Jul-15	1	0.57
27-Jul-15	1.9	0.3
5-Aug-15	1.1	0.38
2-Sep-15	< 1.0	0.33
7-Oct-15	3.4	0.37
4-Nov-15	3.5	4.68

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Dec-15	< 1.0	0.74
6-Jan-16	< 1.0	0.31
3-Feb-16	< 1.0	0.25
2-Mar-16	< 1.0	0.97
15-Mar-16	1.5	1.95
22-Mar-16	1.1	1.68
29-Mar-16	1.6	1.02
6-Apr-16	4.8	2.73
13-Apr-16	2.9	3.66
13-Apr-16	5.0	4.95
16-Apr-16	2.6	3.20
17-Apr-16	2.9	4.33
18-Apr-16	3.5	6.01
19-Apr-16	3.2	2.42
20-Apr-16	7.0	4.79
21-Apr-16	7.6	3.98
27-Apr-16	2.5	1.16
4-May-16	1.9	1.49
11-May-16	2.3	2.25
18-May-16	2.4	0.91
25-May-16	5.0	2.39
1-Jun-16	3.8	1.56
8-Jun-16	3.1	0.59
15-Jun-16	2.7	1.01
22-Jun-16	2.6	0.53
29-Jun-16	1.6	1.13
6-Jul-16	< 1.0	0.65
6-Jul-16	1.9	0.74
13-Jul-16	2.1	1.16
20-Jul-16	1.3	0.54
27-Jul-16	< 1.0	0.39
3-Aug-16	< 1.0	0.40
7-Sep-16	1.3	0.58
5-Oct-16	1.6	0.46
17-Oct-16	4.2	3.16
2-Nov-16	3.4	3.41

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7-Nov-16	1.2	1.48
8-Nov-16	1.5	1.22
9-Nov-16	1.3	1.24
10-Nov-16	2.7	1.07
15-Nov-16	4.6	5.86
17-Nov-16	1.1	0.91
23-Nov-16	1.0	1.02
30-Nov-16	1.8	2.58
13-Dec-16	1.1	1.10
1/17/2017	1.2	1.03
2/1/2017	< 1.0	1.01
3/1/2017	1.0	1.05
3/15/2017	3.2	2.29
3/22/2017	3.4	1.66
3/29/2017	8.0	4.06
4/5/2017	1.6	2.4
4/12/2017	2.5	1.43
4/19/2017	4.3	2.8
4/26/2017	6.4	7.08
5/2/2017	3.6	1.15
5/9/2017	6.8	7.14
5/16/2017	4.3	5.05
5/17/2017	13.2	
5/17/2017	10.4	
5/18/2017	4.4	
5/23/2017	7.8	4.97
5/30/2017	6.2	8.38
6/6/2017	3.4	4.23
6/14/2017	2.0	2.56
6/21/2017	4.5	3.75
6/28/2017	2.7	0.7
7/5/2017	2.0	1.46
7/12/2017	3.5	1.04
7/19/2017	1.7	0.37
7/25/2017	1.0	0.43
8/1/2017	25.7	3.49

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8/8/2017	1.7	0.74
8/15/2017	1.8	0.99
8/22/2017	1.0	1.18
8/29/2017	2.3	0.75
9/5/2017	2.8	0.68
9/12/2017	< 1.0	0.57
9/19/2017	1.2	0.43
10/4/2017	1.2	0.44
11/7/2017	3.3	0.65
12/6/2017	1.1	1.24
1/9/2018	< 1.0	0.56
2/6/2018	< 1.0	0.37
2/28/2018	< 1.0	0.30
3/6/2018	< 1.0	0.26
3/19/2018	2.0	2.40
3/27/2018	< 1.0	0.76
4/4/2018	< 1.0	1.23
4/10/2018	1.1	0.58
4/17/2018	2.1	4.03
4/24/2018	2.3	1.89
5/1/2018	4.9	4.34
5/2/2018		
5/7/2018	3.3	12.5
5/16/2018		
5/16/2018	8.2	3.93
5/22/2018	2.2	1.49
5/29/2018	1.9	1.50
6/5/2018	1.0	1.20
6/6/2018		
6/12/2018	1.2	1.30
6/19/2018	2.6	1.40
6/26/2018	1.5	1.05
7/3/2018	1.9	1.86
7/10/2018	1.3	1.35
7/17/2018	1.2	0.54
7/24/2018	1.2	0.38

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/26/2018	13.7	6.85
7/27/2018	2.0	3.08
7/31/2018	1.1	0.50
8/7/2018	< 1.0	0.43
8/9/2018		
9/4/2018	< 1.0	0.69
9/10/2018	1.4	0.78
9/10/2018		
10/2/2018	< 1.0	0.66
11/5/2018	2.1	1.41
12/3/2018	< 1.0	0.46
12/19/2018		

E258175 - CM_MC1

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Jan-08	< 3.0	< 0.2
5-Feb-08	< 3.0	0.2
4-Mar-08	< 3.0	< 0.2
1-Apr-08	< 3.0	0.24
7-Apr-08	< 3.0	0.29
14-Apr-08	< 3.0	0.2
21-Apr-08	< 3.0	< 0.2
28-Apr-08	3	0.33
6-May-08	< 3.0	1.4
12-May-08	3	0.47
26-May-08	18	15.9
3-Jun-08	3	7.6
9-Jun-08	< 3.0	4.7
16-Jun-08	< 3.0	3.1
23-Jun-08	< 3.0	1.9
7-Jul-08	< 3.0	< 0.2
14-Jul-08	< 3.0	< 0.2
21-Jul-08	< 3.0	< 0.2
28-Jul-08	< 3.0	0.21

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5-Aug-08	< 3.0	0.22
11-Aug-08	3	0.3
18-Aug-08	< 3.0	0.22
25-Aug-08	< 3.0	0.22
2-Sep-08	< 3.0	0.28
7-Oct-08	5	7.5
4-Nov-08	< 3.0	0.25
2-Dec-08	< 3.0	0.14
6-Jan-09	< 3.0	0.35
3-Feb-09	< 3.0	0.16
3-Mar-09	< 3.0	< 0.10
7-Apr-09	< 3.0	0.32
14-Apr-09	< 3.0	0.39
20-Apr-09	< 3.0	0.35
27-Apr-09	< 3.0	0.31
5-May-09	< 3.0	0.47
11-May-09	< 3.0	0.54
19-May-09	9.7	9.46
25-May-09	5	3.06
2-Jun-09	4.4	5.06
8-Jun-09	5	2
15-Jun-09	< 3.0	1.06
22-Jun-09	7.1	5.71
29-Jun-09	< 3.0	0.68
7-Jul-09	< 3.0	0.56
13-Jul-09	< 3.0	0.47
20-Jul-09	< 3.0	0.43
27-Jul-09	5.7	0.7
4-Aug-09	< 3.0	0.48
1-Sep-09	< 3.0	0.26
6-Oct-09	< 3.0	0.27
3-Nov-09	< 3.0	0.26
1-Dec-09	< 3.0	0.22
5-Jan-10		0.36
2-Feb-10		0.17
2-Mar-10	< 3.0	0.13

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8-Mar-10	< 3.0	
15-Mar-10		
23-Mar-10	< 3.0	< 0.1
29-Mar-10	< 3.0	0.15
6-Apr-10	< 3.0	0.11
12-Apr-10	< 3.0	0.11
19-Apr-10	3	0.48
26-Apr-10	< 3.0	0.85
4-May-10	< 3.0	0.38
10-May-10	3.3	0.19
17-May-10	< 3.0	4.59
25-May-10	< 3.0	1.12
1-Jun-10	6.5	4.63
7-Jun-10	5.3	6.7
14-Jun-10	< 3.0	2.87
21-Jun-10	6.2	4.35
28-Jun-10	< 3.0	0.95
6-Jul-10	6.2	0.74
12-Jul-10	< 3.0	2.88
19-Jul-10	< 3.0	0.4
26-Jul-10	4.9	2.04
3-Aug-10	< 3.0	0.27
7-Sep-10	9	0.57
5-Oct-10	< 3.0	0.25
27-Oct-10	< 3.0	0.38
2-Nov-10	7.3	7.51
7-Dec-10	< 3.0	0.27
3-Jan-11	< 3.0	0.19
4-Jan-11	< 3.0	0.37
1-Feb-11	< 3.0	0.36
7-Mar-11	< 3.0	0.22
5-Apr-11	< 3.0	0.16
12-Apr-11	< 3.0	0.16
19-Apr-11	< 3.0	0.22
26-Apr-11	< 3.0	0.2
3-May-11	< 3.0	0.23

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
10-May-11	< 3.0	0.67
17-May-11	< 3.0	2.51
24-May-11	10.3	7.09
31-May-11	3.9	2.3
7-Jun-11	22.7	12.7
14-Jun-11	12.5	8.17
20-Jun-11	12.8	8.15
27-Jun-11	8.4	2.39
5-Jul-11	7	3.56
12-Jul-11	4.7	2.62
19-Jul-11	3	0.89
25-Jul-11	3.5	1.19
2-Aug-11	< 3.0	0.76
6-Sep-11	< 3.0	0.27
4-Oct-11	< 3.0	0.83
1-Nov-11	< 3.0	0.4
6-Dec-11	< 3.0	0.28
3-Jan-12	< 3.0	0.19
7-Feb-12	< 3.0	0.18
7-Mar-12	< 3.0	0.14
3-Apr-12	< 3.0	0.31
10-Apr-12	< 3.0	
17-Apr-12	< 3.0	
1-May-12	< 3.0	2.31
8-May-12	< 3.0	
15-May-12	12	
22-May-12	13.3	
29-May-12	< 3.0	
5-Jun-12	54	
12-Jun-12	8.3	
19-Jun-12	22.2	
26-Jun-12	49.6	
3-Jul-12	12.3	9.66
10-Jul-12	3.3	
17-Jul-12	< 3.0	
24-Jul-12	3.3	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
31-Jul-12	< 3.0	
7-Aug-12	< 3.0	0.3
4-Sep-12	< 3.0	0.23
2-Oct-12	< 3.0	
6-Nov-12	< 3.0	
4-Dec-12	< 3.0	
2-Jan-13	< 3.0	
5-Feb-13	< 3.0	0.25
5-Mar-13	< 3.0	0.45
2-Apr-13	7	1.19
9-Apr-13	6.3	1.95
16-Apr-13	3.3	1.03
23-Apr-13	3.6	1.05
30-Apr-13	< 3.0	1.07
7-May-13	9.6	5.8
14-May-13	68.5	25.1
21-May-13	8	5.24
28-May-13	18.5	4.61
4-Jun-13	4.3	2.69
11-Jun-13	4.8	2.79
18-Jun-13		1.53
25-Jun-13	19.6	19.5
2-Jul-13	< 3.0	1.75
9-Jul-13	< 3.0	0.97
16-Jul-13	< 3.0	0.46
23-Jul-13	< 3.0	0.41
30-Jul-13	< 3.0	0.49
6-Aug-13	< 3.0	0.75
3-Sep-13	< 3.0	0.23
1-Oct-13	2.3	2.66

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5-Nov-13	1	0.4
3-Dec-13	< 1.0	0.24
7-Jan-14	< 1.0	0.11
4-Feb-14	< 1.0	0.25
4-Mar-14	1.2	0.46
1-Apr-14	< 1.0	0.24
8-Apr-14	< 1.0	0.2
15-Apr-14	< 3.0	0.21
22-Apr-14	< 1.0	0.23
29-Apr-14	< 1.0	0.19
6-May-14	1.8	2.61
13-May-14	1.6	1.69
20-May-14	31.7	12.1
27-May-14	39.5	21.8
3-Jun-14	15.1	14.1
10-Jun-14	13.7	9.76
17-Jun-14	473	230
24-Jun-14	7.7	4.32
2-Jul-14	2.3	1.26
8-Jul-14	< 1.0	0.73
15-Jul-14	1.8	1.06
22-Jul-14	< 1.0	0.69
29-Jul-14	1.5	0.57

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5-Aug-14	< 1.0	0.26
2-Sep-14	4.1	0.77
7-Oct-14	< 1.0	0.29
4-Nov-14	5.9	5.82
3-Dec-14	< 1.0	0.45
6-Jan-15	< 2.0	0.35
3-Feb-15	< 1.0	0.17
3-Mar-15	< 1.0	0.21
30-Mar-15	1.8	1.61
8-Apr-15	1.4	0.4
15-Apr-15	< 1.0	0.28
22-Apr-15	1.3	0.93
29-Apr-15	5.2	3.11
6-May-15	3.8	2.68
13-May-15	1	1.14
20-May-15	1.7	1.59
27-May-15	22.5	6.05
3-Jun-15	47.2	20.5
10-Jun-15	3.7	1.39
17-Jun-15	1.4	0.59
24-Jun-15	< 1.0	0.36
30-Jun-15	< 1.0	0.54
8-Jul-15	< 1.0	0.25
15-Jul-15	< 1.0	0.25
21-Jul-15	2	0.35
27-Jul-15	1.8	0.34
5-Aug-15	< 1.0	0.28
2-Sep-15	< 1.0	0.25
2-Sep-15	< 1.0	< 0.10
7-Oct-15	< 1.0	0.13
4-Nov-15	< 1.0	0.34
2-Dec-15	< 1.0	0.18
6-Jan-16	< 1.0	0.15
3-Feb-16	< 1.0	0.13

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
2-Mar-16	< 1.0	0.24
6-Apr-16	< 1.0	0.37
13-Apr-16	4.4	2.68
20-Apr-16	3.8	4.03
27-Apr-16	3.6	2.43
4-May-16	7.1	4.41
11-May-16	3.5	2.51
18-May-16	5.6	1.63
25-May-16	2.5	2.02
1-Jun-16	1.6	1.37
8-Jun-16	3.8	1.51
15-Jun-16	3.1	0.64
22-Jun-16	4.0	0.39
29-Jun-16	1.4	0.44
6-Jul-16	< 1.0	0.24
13-Jul-16	1.9	0.54
20-Jul-16	< 1.0	0.21
27-Jul-16	2.8	0.39
3-Aug-16	1.1	0.22
7-Sep-16	< 1.0	0.15
5-Oct-16	1.9	0.84
2-Nov-16	1.4	1.72
13-Dec-16	1.0	0.42
1/18/2017	2.0	0.75
2/1/2017	< 1.0	0.37
3/1/2017	< 1.0	0.22
4/5/2017	< 1.0	0.53
4/12/2017	1.5	0.4
4/19/2017	1.7	0.44
4/26/2017	2.8	1.26
5/2/2017	< 1.0	0.41
5/9/2017	3.8	2.87
5/16/2017	2.7	2.36
5/23/2017	27.2	13.9
5/30/2017	27.2	20.5
6/6/2017	18.4	10.8
6/14/2017	9.4	6.46
6/21/2017	3.5	2.94
6/28/2017	1.9	1.09
7/4/2017	2.5	0.11
7/12/2017	2.8	0.78
7/19/2017	3.1	0.38
7/25/2017	< 1.0	0.37
8/1/2017	< 1.0	0.41

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8/8/2017	< 1.0	0.35
8/15/2017	< 1.0	0.35
8/22/2017	1.0	0.44
8/29/2017	< 1.0	0.58
9/12/2017	< 1.0	0.22
9/19/2017	< 1.0	0.28
9/26/2017	1.2	0.38
10/2/2017	2.4	1.28
10/10/2017	< 1.0	0.16
10/17/2017	< 1.0	0.22
10/24/2017	< 1.0	0.42
10/31/2017	< 1.0	0.3
11/7/2017	2.3	0.8
12/6/2017	< 1.0	0.56
1/9/2018	< 1.0	0.30
2/6/2018	12.0	2.46
2/19/2018	< 1.0	0.13
2/27/2018	< 1.0	0.22
3/6/2018	< 1.0	0.18
3/13/2018	< 1.0	0.11
3/20/2018	< 1.0	0.11
3/27/2018	< 1.0	0.15
4/4/2018	3.4	0.50
4/10/2018	< 1.0	0.17
4/17/2018	< 1.0	0.16
4/24/2018	1.3	0.32
4/30/2018	4.5	2.37
5/8/2018	9.1	10.5
5/14/2018	6.4	4.91
5/15/2018	24.9	7.54
5/17/2018	15.7	11.1
5/22/2018	8.6	4.79
5/29/2018	12.9	5.41
6/5/2018	3.6	1.50
6/12/2018	1.0	1.01
6/19/2018	1.8	0.69
6/26/2018	< 1.0	0.49
7/3/2018	2.1	24.0
7/10/2018	2.5	0.38
7/17/2018	2.4	0.53
7/24/2018	< 1.0	0.25
7/26/2018	16.9	30.2
7/27/2018	< 1.0	0.50
7/31/2018	< 1.0	0.25

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8/7/2018	< 1.0	0.24
8/15/2018	< 1.0	0.55
8/21/2018	1.9	1.23
8/28/2018	< 1.0	0.37
9/4/2018	< 1.0	0.16
9/13/2018	< 1.0	0.62
9/14/2018	< 1.0	0.72
10/2/2018	2.4	0.42
10/30/2018	< 1.0	0.29
11/2/2018	34.8	26.7
11/6/2018	< 1.0	0.33
11/13/2018	< 1.0	0.24
11/20/2018	< 1.0	0.26
11/27/2018	< 1.0	0.42
12/4/2018	< 1.0	0.23

E258937 - CM_MC2

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
18-Jan-00	8	0.7
2-Jan-08	4	1.8
5-Feb-08	< 3.0	0.2
4-Mar-08	< 3.0	0.22
1-Apr-08	< 3.0	1.1
7-Apr-08	< 3.0	1.3
14-Apr-08	53	18.8
21-Apr-08	< 3.0	1.7
28-Apr-08	< 3.0	2.1
6-May-08	3	4.5
12-May-08	< 3.0	1.8
20-May-08	21	25.1
26-May-08	28	21
3-Jun-08	9	15.5
9-Jun-08	< 3.0	4.8
16-Jun-08	< 3.0	3.4
23-Jun-08	3	4.6
7-Jul-08	< 3.0	1.3
14-Jul-08	< 3.0	1.1

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
21-Jul-08	< 3.0	1
28-Jul-08	< 3.0	0.21
5-Aug-08	< 3.0	0.81
11-Aug-08	< 3.0	1.4
18-Aug-08	< 3.0	0.68
25-Aug-08	< 3.0	0.65
2-Sep-08	3	0.66
7-Oct-08	8	5.2
4-Nov-08	< 3.0	0.48
2-Dec-08	< 3.0	0.42
7-Apr-09	3	2.99
14-Apr-09	4.8	2.59
20-Apr-09	5.6	3.56
27-Apr-09	3.3	1.88
5-May-09	< 3.0	2.69
11-May-09	3.3	2.01
19-May-09	41.1	34
25-May-09	41.7	33
2-Jun-09	11.8	11.1
8-Jun-09	7.7	3.25
15-Jun-09	8.2	4.61
22-Jun-09	16.4	11.3
29-Jun-09	< 3.0	2.11
7-Jul-09	< 3.0	1.46
13-Jul-09	3.7	1.91
20-Jul-09	3.3	1.41
27-Jul-09	9	7.38
4-Aug-09	4.2	2.29
1-Sep-09	< 3.0	1.27
6-Oct-09	< 3.0	0.71
3-Nov-09	< 3.0	1.04
1-Dec-09	< 3.0	0.63
5-Jan-10		0.38
2-Feb-10	< 3.0	0.29
2-Mar-10	4.3	0.79
23-Mar-10	< 3.0	0.52

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
29-Mar-10	3.1	1.16
6-Apr-10	< 3.0	0.44
12-Apr-10	3.2	0.52
19-Apr-10	10.4	6.24
26-Apr-10	9.3	2.9
4-May-10	< 3.0	1.92
10-May-10	< 3.0	1.08
17-May-10	32.3	19.2
25-May-10	6	3.56
1-Jun-10	12	10.7
7-Jun-10	26	21.9
14-Jun-10	8.3	8.17
21-Jun-10	8.9	5.72
28-Jun-10	12.4	3.84
6-Jul-10	7.7	1.54
12-Jul-10	16.7	18.6
19-Jul-10	< 3.0	1.26
26-Jul-10	< 3.0	2.3
3-Aug-10	3.3	1.06
7-Sep-10	< 3.0	1.11
5-Oct-10	< 3.0	1.14
27-Oct-10	< 3.0	1.22
2-Nov-10	13.8	10.1
7-Dec-10	3.2	0.77
3-Jan-11	3.7	1.41
4-Jan-11	< 3.0	1.06
7-Mar-11	4.6	1.37
5-Apr-11	< 3.0	1.73
12-Apr-11	9.8	4.01
19-Apr-11	13.8	4.65
26-Apr-11	4.3	2.68
3-May-11	7	4.81
10-May-11	23.9	16.4
17-May-11	12.9	8.52
24-May-11	41.9	24.6
31-May-11	16.5	12.5

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7-Jun-11	64.7	36.9
14-Jun-11	35.2	22.7
20-Jun-11	29.5	19.1
27-Jun-11	22.4	10.7
5-Jul-11	21	8.29
12-Jul-11	12	5.94
19-Jul-11	9	2.42
25-Jul-11	4.8	2.05
2-Aug-11	4	1.51
6-Sep-11	< 3.0	0.87
4-Oct-11	< 3.0	1.48
1-Nov-11	3.6	2.67
6-Dec-11	< 3.0	0.87
3-Jan-12	3.7	1.41
7-Feb-12	< 3.0	0.83
7-Mar-12	5.3	0.93
3-Apr-12	< 3.0	1.63
10-Apr-12	< 3.0	
17-Apr-12	7.5	
23-Apr-12	224	
24-Apr-12	155	
1-May-12	13.1	12.6
8-May-12	6.8	
15-May-12	38	
22-May-12	36	
29-May-12	4.7	

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
5-Jun-12	174	
12-Jun-12	22.3	
19-Jun-12	45.5	
26-Jun-12	45.6	
3-Jul-12	19.7	10.8
10-Jul-12	8	
17-Jul-12	4	
24-Jul-12	5.3	
31-Jul-12	3.7	
7-Aug-12	< 3.0	0.72
4-Sep-12	< 3.0	0.39
2-Oct-12	< 3.0	
6-Nov-12	9.7	
7-Nov-12	705	
7-Nov-12	29	
7-Nov-12	15	
4-Dec-12	< 3.0	
2-Jan-13	3.2	
5-Feb-13	4	0.95
5-Mar-13	5	3.32
2-Apr-13	7.1	6.01
9-Apr-13	6.3	5.14
16-Apr-13	3.8	2.22

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
23-Apr-13	3.6	2.07
30-Apr-13	5	3.45
7-May-13	27.6	14.8
14-May-13	143	67.5
21-May-13	18	13.2
28-May-13	17.2	8.02
4-Jun-13	6.9	3.89
11-Jun-13	13.2	5.68
18-Jun-13	5.1	2.11
20-Jun-13	533	290
24-Jun-13	60.3	35.4
25-Jun-13	37.5	25.6
2-Jul-13	14.7	4.07
9-Jul-13	3.3	2.25
16-Jul-13	< 3.0	0.77
23-Jul-13	< 3.0	0.63
30-Jul-13	< 3.0	0.81
6-Aug-13	3.7	1.62
3-Sep-13	< 3.0	0.65
1-Oct-13	6.3	5.22
5-Nov-13	< 1.0	0.49
3-Dec-13	< 1.0	0.63
7-Jan-14	< 1.0	0.24
4-Feb-14	< 1.0	0.32
4-Mar-14	1	0.45
1-Apr-14	6.6	5.19
8-Apr-14	9.6	6.52
15-Apr-14	9.1	11.1
22-Apr-14	14.6	7.12
29-Apr-14	3.9	3.24
6-May-14	15.8	8.72
13-May-14	9	4.78
20-May-14	53.9	24.5
27-May-14	144	68.5

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
3-Jun-14	28.4	16.9
10-Jun-14	21.6	10.6
17-Jun-14	320	136
24-Jun-14	20.4	12.1
2-Jul-14	5.8	2.48
8-Jul-14	5.3	1.75
15-Jul-14		
15-Jul-14	3.7	1.65
22-Jul-14	1.7	1.9
29-Jul-14	2.4	0.68
5-Aug-14	< 1.0	0.53
2-Sep-14	1.8	0.78
7-Oct-14	< 1.0	0.5
4-Nov-14	9.1	9.79
3-Dec-14	1.7	1.19
6-Jan-15	1.7	0.47
3-Feb-15	< 1.0	0.26
3-Mar-15	1.7	0.53
10-Mar-15	2.1	1.09
16-Mar-15	29.7	18.9
23-Mar-15	4.5	2.09
30-Mar-15	10.2	6.69
8-Apr-15	4.3	1.81
15-Apr-15	2.2	1.03
22-Apr-15	10.6	3.78
29-Apr-15	17	8.88
5-May-15	9.6	5.84
6-May-15	13.4	5.83
12-May-15	3	1.95
19-May-15	3.8	2.42
26-May-15	111	54
3-Jun-15	47.1	28.5
10-Jun-15	13.4	4.12
17-Jun-15	5.3	0.95
24-Jun-15	1.6	0.56
30-Jun-15	2.8	0.7

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8-Jul-15	2.2	0.6
15-Jul-15	1.9	0.55
21-Jul-15	1.2	0.61
27-Jul-15	1.4	0.32
29-Jul-15	1.6	0.41
5-Aug-15	< 1.0	0.42
12-Aug-15	1.6	0.42
19-Aug-15	1.6	0.69
26-Aug-15	< 1.0	0.4
2-Sep-15	1.5	0.61
7-Oct-15	< 1.0	0.41
26-Oct-15	6.6	0.99
2-Nov-15	3.4	3.36
4-Nov-15	< 1.0	0.85
9-Nov-15	< 1.0	0.49
16-Nov-15	3.1	2.82
23-Nov-15	6.3	2.34
1-Dec-15	15.3	3.48
2-Dec-15	1.7	0.64
6-Jan-16	< 1.0	0.27
3-Feb-16	< 1.0	0.14
16-Feb-16	< 1.0	0.34
1-Mar-16	< 1.0	0.57
2-Mar-16	< 1.0	0.40
8-Mar-16	1.1	0.86
15-Mar-16	< 1.0	0.63
22-Mar-16	1.2	0.88
29-Mar-16	< 1.0	0.33
6-Apr-16	5.3	1.87
13-Apr-16	9.6	5.63
13-Apr-16	< 1.0	< 0.10
16-Apr-16	5.2	3.93
16-Apr-16	4.9	3.36
17-Apr-16	6.9	4.69
18-Apr-16	6.7	4.90
19-Apr-16	13.8	7.39
20-Apr-16	30.8	15.2
21-Apr-16	26.6	15.0
27-Apr-16	14.5	6.51
4-May-16	19.7	10.9
11-May-16	11.6	6.46

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
18-May-16	8.2	2.54
25-May-16	6.0	3.30
1-Jun-16	6.3	2.10
8-Jun-16	3.8	7.58
15-Jun-16	3.2	1.67
22-Jun-16	2.8	0.79
29-Jun-16	2.6	1.24
6-Jul-16	2.2	0.51
13-Jul-16	1.7	0.63
20-Jul-16	1.4	0.46
27-Jul-16	1.3	0.48
3-Aug-16	1.7	0.45
23-Aug-16	1.5	0.37
30-Aug-16	< 1.0	0.67
6-Sep-16	< 1.0	0.41
7-Sep-16	< 1.0	0.35
13-Sep-16	< 1.0	0.28
20-Sep-16	3.1	0.83
5-Oct-16	1.3	0.35
17-Oct-16	9.1	3.75
25-Oct-16	1.9	0.68
1-Nov-16	3.4	2.67
2-Nov-16	4.2	3.42
7-Nov-16	2.2	1.99
8-Nov-16	2.4	1.80
9-Nov-16	2.1	1.63
10-Nov-16	2.9	1.78
15-Nov-16	6.4	5.66
17-Nov-16	6.5	2.64
23-Nov-16	1.6	1.11
30-Nov-16	2.2	1.67
13-Dec-16	2.5	1.14
1/17/2017	1.7	0.53
1/30/2017	1.1	0.46
2/1/2017	1.3	0.82
2/28/2017	1.1	0.55
3/1/2017	4.8	1.01
3/7/2017	1.1	0.69
3/14/2017	1.2	0.65
3/15/2017	4.2	2.28
3/21/2017	4.2	3.1
3/22/2017	13.4	6.79
3/29/2017	2.2	2.21
4/5/2017	2.4	1.98

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
4/12/2017	1.7	1.61
4/19/2017	3.5	2.72
4/24/2017	9.0	6.91
5/2/2017	4.4	2.27
5/9/2017	16.0	11.5
5/16/2017	15.9	16.4
5/23/2017	48.6	24.5
5/30/2017	70.2	43.3
6/6/2017	33.8	20.5
6/13/2017	6.7	8.14
6/14/2017	22.8	13.8
6/21/2017	13.9	9.15
6/28/2017	4.9	3.73
7/4/2017	3.9	1.39
7/12/2017	2.3	1.08
7/19/2017	6.8	0.81
7/25/2017	2.4	1.03
8/1/2017	2.1	0.92
8/8/2017	5.1	1.6
8/15/2017	3.0	1.4
8/22/2017	3.4	0.85
8/29/2017	1.1	0.52
9/12/2017	1.6	0.53
9/19/2017	2.2	0.35
9/26/2017	1.2	0.32
10/2/2017	1.4	0.63
10/2/2017	5.2	2.23
10/3/2017	1.2	0.8
10/5/2017	< 1.0	0.29
10/6/2017	< 1.0	0.46
10/10/2017	1.0	0.25
10/11/2017	< 1.0	0.34
10/12/2017	< 1.0	0.48
10/16/2017	1.1	0.29
10/17/2017	5.2	2.08
10/19/2017	154	66.5
10/20/2017	4.6	4.01
10/23/2017	1.3	1.3
10/24/2017	1.3	1.18
10/26/2017	1.4	0.83
10/30/2017	1.7	1.37
10/31/2017	1.5	0.6
11/7/2017	8.9	3.08
11/9/2017	< 1.0	0.5

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
11/14/2017	< 1.0	0.47
11/21/2017	< 1.0	0.42
11/28/2017	2.0	2.07
12/6/2017	< 1.0	0.59
12/12/2017	1.7	0.93
12/19/2017	< 1.0	0.64
12/27/2017	1.6	0.72
1/3/2018	2.7	0.47
1/9/2018	1.0	0.44
1/16/2018	1.3	0.75
1/23/2018	< 1.0	0.79
1/30/2018	< 1.0	0.37
2/6/2018	< 1.0	0.32
2/14/2018	1.0	0.25
2/19/2018	< 1.0	0.24
2/27/2018	< 1.0	0.25
3/6/2018	1.0	0.56
3/13/2018	1.7	0.90
3/20/2018	1.0	1.14
3/27/2018	< 1.0	0.52
4/4/2018	< 1.0	1.02
4/10/2018	1.3	0.54
4/17/2018	1.6	1.56
4/24/2018	1.7	1.39
4/30/2018	11.2	5.51
5/8/2018	6.2	71.3
5/15/2018	60.9	20.1
5/22/2018	42.0	24.2
5/29/2018	30.7	15.8
6/5/2018	7.2	3.11
6/12/2018	1.8	1.93
6/19/2018	3.0	1.21
6/26/2018	2.5	1.02
7/3/2018	1.9	0.64
7/10/2018	< 1.0	0.69
7/17/2018	1.4	0.57
7/24/2018	< 1.0	0.44
7/26/2018	33.4	37.9
7/27/2018	1.7	1.32
7/31/2018	< 1.0	0.25
8/7/2018	< 1.0	0.45
8/15/2018	1.0	0.54
8/21/2018	< 1.0	0.33
8/28/2018	1.8	0.87

Sample Date	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
9/4/2018	3.5	0.45
9/11/2018	1.2	0.50
9/18/2018	1.4	0.58
9/25/2018	< 1.0	0.50
10/2/2018	1.1	0.61
10/9/2018	1.5	0.43
10/16/2018	< 1.0	0.31
10/23/2018	1.8	1.19
10/30/2018	1.5	0.84
11/6/2018	1.0	0.86
11/13/2018	< 1.0	0.60
11/20/2018	< 1.0	0.50
11/27/2018	2.0	0.54
12/4/2018	1.5	0.46
12/11/2018	< 1.0	0.44
12/18/2018	1.2	0.80
12/28/2018	1.1	0.21

E206437 - CM_WBE

Sample Date	EPH (mg/L)	FLOW (m^3/day)	THE (mg/L)
1/3/2008		24.64	19
3/5/2008			130
4/1/2008		24.43	57
4/10/2008			3
4/28/2008			14
5/6/2008			2.1
6/3/2008			23
7/7/2008		39.3	0.53
8/5/2008		37.84	9.5
9/2/2008		42.23	51
10/7/2008		43.5	0.23
11/4/2008		53.83	1
12/3/2008		26.36	25.4
1/6/2009		11.14	4.2
2/3/2009		31.96	1.28
3/3/2009		34.01	10.5
4/7/2009		55.61	17
5/5/2009			18.6
6/2/2009		40.8	27.7
7/7/2009		40.86	2.74
8/4/2009		23.67	385
9/1/2009		35.3	20.9
10/6/2009		32.69	11.8
11/3/2009		39.99	16.6

Sample Date	EPH (mg/L)	FLOW (m^3/day)	THE (mg/L)
12/1/2009		39.95	10.1
1/5/2010			39.4
2/2/2010		39.75	27.8
3/2/2010		39.75	7.92
4/6/2010		39.67	4.3
5/4/2010		42.25	20
6/1/2010		52.84	8.65
7/6/2010		45.29	20.9
8/3/2010		42.47	4.92
9/7/2010		0.13	16.9
10/5/2010		27.64	4.47
10/27/2010		38.47	
11/2/2010		48.96	15
12/7/2010		27.03	2.42
1/4/2011		18.14	3.34
2/1/2011		21.9	12.7
3/8/2011		24.67	83.77
4/6/2011		49.87	< 0.5
5/3/2011			2.25
6/7/2011		65.54	3.78
7/6/2011		67.43	0.6
8/2/2011		35.22	3.58
9/6/2011		60.76	3.43
10/4/2011			1.23
11/1/2011		45.89	3.56
12/6/2011		26.8	11.6
1/4/2012		18.14	3.34
2/8/2012		37.26	9.56
3/6/2012		28.48	7.5
4/4/2012		38.62	2.5
5/1/2012		81.75	1.79
6/5/2012		72.84	5.39
7/4/2012		86.09	5.03
8/7/2012		63.65	
8/8/2012		63.65	3.92
9/4/2012		55.92	2.12
10/2/2012		55.92	6.04
11/6/2012		60.75	
12/4/2012		46.43	16.1
1/3/2013		25.75	3.39
2/6/2013		30.78	3.26
3/6/2013		42.12	3.29
4/2/2013		56.32	9.09
5/7/2013		71.29	3.68
6/4/2013		59.16	1.22
7/2/2013		55.36	1.94
8/6/2013			11.8
9/3/2013		50.44	7.63

Sample Date	EPH (mg/L)	FLOW (m^3/day)	THE (mg/L)
10/1/2013		53.19	0.63
11/5/2013		44.26	22.2
12/3/2013		35.99	1.53
1/7/2014			0.54
2/4/2014		23.5	3.55
3/4/2014		33	4.12
4/1/2014		33.14	1.25
5/6/2014		36.22	18.2
6/3/2014		23.38	18.5
7/9/2014			19.3
8/5/2014			1.14
9/2/2014			1.92
10/7/2014		38.25	1.75
11/4/2014		39.57	34.0
12/3/2014		26.3	4.35
1/6/2015		20.48	1.55
2/3/2015		28	2.02
3/3/2015		43.3	2.02
4/8/2015		51	2.27
5/6/2015		32.86	7067
6/3/2015		28.86	1.64
7/8/2015	1.39	29.41	1.17
8/5/2015	1.3	22.07	1.14
9/2/2015	< 0.50	30.86	0.36
10/7/2015	< 0.50	33.71	0.36
11/4/2015	1.40	31.71	1.15
12/2/2015	1.67	23.71	1.45
1/6/2016	< 0.50	24	0.42
4/6/2016	13.3	50.86	12.8
7/18/2016		21.86	
7/20/2016	4.80	21.86	4.22
10/5/2016	1.93	40.14	1.71
1/19/2017	1.34	31.43	1.23
4/5/2017	4.78	23.58	4.29
7/5/2017	5.91	18.33	5.59
11/23/2017	0.57	9.63	0.56
1/3/2018		12.78	
1/10/2018	1.57		1.36
2/4/2018		12.19	
2/13/2018		4.44	
2/20/2018		16.14	
2/26/2018		23	
3/5/2018		4.43	
3/13/2018		19.63	
3/20/2018		9.43	
3/27/2018		16.71	
4/4/2018	1.61	25.5	1.46
4/10/2018		17.33	

Sample Date	EPH (mg/L)	FLOW (m^3/day)	THE (mg/L)
4/17/2018		12.71	
4/24/2018		32.43	
5/1/2018		46.29	
5/8/2018		25.43	
5/16/2018		21.13	
5/22/2018		12.5	
5/29/2018		12.57	
6/4/2018		20	
6/5/2018	319		318
6/11/2018	2.22		2.14
6/25/2018		22.55	
6/26/2018		22.55	
7/3/2018	< 0.50	18.71	< 0.25
7/10/2018		6.86	
7/19/2018	2.02	14	2.24
7/24/2018		14	
7/31/2018		25.83	
8/7/2018	6.21	15.71	5.47
8/28/2018		16.71	
9/4/2018	14.5	12.75	12.7
9/10/2018		29.4	
9/18/2018		47.5	
9/25/2018		25	
10/2/2018		13.71	
10/2/2018	3.07		2.87
10/9/2018		37	
10/16/2018		16.57	
10/29/2018		8.67	
11/5/2018	< 0.50		0.46
11/20/2018		11.43	
11/27/2018		10.29	
12/3/2018	4.77	1.5	4.24
12/11/2018		0.31	
12/18/2018		0.06	
12/28/2018		0.03	

E206439 - CM_SEW

Sample Date	BOD_5 (mg/L)	FLOW (m^3/day)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
1/3/2008	4	21.93	10	
2/6/2008	17	28	15	
3/5/2008	7	28.1	12	
4/1/2008	2	24.42	7	
5/6/2008	< 2	20.956	11	

Sample Date	BOD_5 (mg/L)	FLOW (m^3/day)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
6/3/2008	< 2	23.37	6	
7/7/2008	< 2	21.81	14	
8/5/2008	< 2	19.96	18	
9/2/2008	< 2	24.26	25	
10/7/2008	< 2	18.72	12	
11/4/2008	< 2	17.69	9	
12/3/2008	< 5	19.68	11	
1/6/2009	7	23.21	21.3	
2/3/2009	9	18.29	23.6	
3/3/2009	17	16.24	9.3	
4/7/2009	< 5.0	28.6	5.7	
5/5/2009	< 5.0	16	12.9	
6/2/2009	< 5.0	16	< 3.0	
7/7/2009	< 5.0	14.91	< 5.0	
8/4/2009	347	18.22	7.6	
9/1/2009	< 5.0	20.8	11.3	
10/6/2009	< 5.0	20.4	< 3.0	
11/3/2009	< 5.0	19.1	< 3.0	
12/1/2009	< 2.0	17.805	< 3.0	
1/5/2010	< 5	15.57	< 3	
2/2/2010	< 5	15.15	< 3	
3/2/2010	< 5	18.435	7.1	
4/6/2010	< 5	18.117	6	
5/4/2010	< 5	18.85	3.3	
6/1/2010	6.6	2.18	53	
7/6/2010	< 5	33.5	46	
8/3/2010	< 5	18.465	< 3	
9/7/2010	< 5	17.83	< 3	
10/5/2010	< 5	16.47	6.8	
11/2/2010	< 5	17.14	4.3	4.53
12/7/2010	< 5	19.032	13.8	
1/4/2011	< 5.0	22.007	< 3.0	
2/1/2011	< 5.0	22.85	< 3.0	
3/8/2011	< 2		7	
4/6/2011	< 2	17.59	6	
5/3/2011	< 5.0	17.86	3.5	
6/8/2011	6.2	18.091	30	
6/22/2011			20	

Sample Date	BOD_5 (mg/L)	FLOW (m^3/day)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/6/2011	5.6	16.825	48	
7/18/2011			45	
8/2/2011	< 5	16.867	58.7	
8/16/2011			47	
8/17/2011			13	
8/30/2011			10	
9/6/2011	< 5	40.477	18.7	
9/15/2011			36	
9/26/2011			36	
10/4/2011	< 5		23.7	
10/19/2011			8	
11/1/2011	< 5.0	8.03	14.2	
11/9/2011			32	
11/30/2011			30	
12/2/2011			54	
12/6/2011	< 5.0	14.167	< 3.0	
12/21/2011			4	
1/4/2012	< 5.0	22.007	< 3.0	
2/8/2012	< 5.0	18.64	6	
2/15/2012			< 3.0	
3/6/2012	< 5.0	19.41	5.2	
4/4/2012	< 5.0	16.076	5.7	
5/1/2012	< 5.0	25.45	< 3.0	
6/5/2012	< 5.0	19.537	< 3.0	
7/4/2012	< 5.0	16.85	< 3.0	
8/7/2012	< 5.0	15.11	3.2	
8/8/2012	< 5.0		3.2	
9/4/2012	< 5.0	15.35	< 3.0	
10/2/2012	< 5.0	14.439	< 3.0	
11/6/2012	< 5.0	17.166	< 3.0	
12/4/2012	< 5.0	16.59	< 3.0	
1/3/2013	< 5.0	11.57	7.3	
1/3/2013				
2/6/2013	< 5.0	16.22	< 3.0	
3/6/2013	< 2.0	16.21	< 3.0	
4/2/2013	< 2.0	20.3	3.1	
5/7/2013	< 2.0	19.33	< 3.0	
6/4/2013	< 2.0	18.53	< 3.0	

Sample Date	BOD_5 (mg/L)	FLOW (m^3/day)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
7/2/2013	< 2.0	22.14	< 3.0	
8/6/2013	< 2.0	17.2	3.1	
9/3/2013	< 2.0	17.2	< 3.0	
10/1/2013	< 2.0	18.1	< 3.0	
11/5/2013	< 2.0	19.66	< 3.0	
12/3/2013	< 2.0	16.59	< 1.0	
1/7/2014	< 2.0	21.67	< 1.0	
2/4/2014	< 2.0	23.51	< 1.0	
3/4/2014	< 2.0	23.94	< 1.0	
4/1/2014	< 2.0	23.53	< 1.0	
5/6/2014	< 2.0	24.24		
6/3/2014	< 2.0		< 1.0	
7/2/2014	< 2.0		< 1.0	
8/5/2014	< 2.0		< 1.0	
9/2/2014	< 2.0		1.3	
10/7/2014	< 2.0	15.83	< 1.0	
11/4/2014	< 2.0	18.66	< 3.0	
12/3/2014	< 2.0	21.7	< 1.0	
1/6/2015	< 2.0	15.9	< 1.0	1.26
2/5/2015	< 2.0	13.59	< 1.0	0.19
3/3/2015	< 2.0	19.65	< 1.0	0.20
4/8/2015	< 2.0	18.04	< 1.0	0.17
5/6/2015	< 2.0	17.15	< 3.0	0.21
6/3/2015	< 2.0	16.62	1.5	0.55
7/8/2015	< 2.0	12.88	< 1.0	0.16
8/5/2015	< 2.0	9.72	< 1.0	0.14
9/2/2015	< 2.0		< 1.0	
9/21/2015	< 2.0	18.06	< 1.0	0.45
10/7/2015	< 2.0	17.206	< 1.0	0.13
11/4/2015	< 2.0	17.54	< 1.0	0.22
12/2/2015	< 2.0	16.94	< 1.0	0.22
1/6/2016	< 2.0	13.3	< 1.0	0.13
2/3/2016	< 2.0	16.9	< 1.0	0.12
3/2/2016	< 2.0	15.31	< 1.0	0.94
4/6/2016	< 2.0	14.5	1.6	1.08
5/4/2016	< 2.0	14.5	< 1.0	0.43
6/6/2016	< 2.0	14.39	12.3	8.12
7/20/2016		32.63	3.4	1.14

Sample Date	BOD_5 (mg/L)	FLOW (m^3/day)	TOTAL SUSPENDED SOLIDS (mg/L)	TURBIDITY, LAB (NTU)
8/3/2016	< 2.0	14.31	1.9	0.27
9/26/2016	4.7	13.09	20.1	10.4
10/5/2016	< 2.0	11.08	1.6	1.45
11/2/2016	2.9	14.6571	< 1.0	0.42
12/13/2016	< 2.0	13.9317	< 1.0	0.16
1/17/2017	< 2.0	12.88	< 1.0	0.16
2/1/2017	< 1.0	12.94	< 1.0	0.22
3/1/2017	< 2.0	12.2	< 1.0	0.56
4/5/2017	< 2.0	12.8543	< 1.0	0.19
5/2/2017	< 0.50	12.544	< 1.0	0.20
6/6/2017	< 2.0	12.286	< 2.0	0.35
7/4/2017	< 2.0	12.0793	< 1.0	
8/1/2017	< 2.0	12.7926	< 3.0	0.29
9/12/2017	< 2.0	12.3333	2.0	0.81
10/4/2017	< 2.0	12.6909	< 1.0	0.14
11/7/2017	< 2.0	11.794	< 1.0	0.22
12/6/2017	< 1.0		< 1.0	0.47
12/6/2017		15.931		
1/10/2018	< 2.0	9.54	1.4	0.47
2/6/2018	< 2.0		1.2	0.45
2/6/2018		10.34		
3/6/2018	< 2.0	16.0893	1.1	0.13
4/4/2018	< 2.0	19.614	< 1.0	0.20
5/7/2018	< 2.0	23.033	1.8	0.30
6/5/2018	< 2.0	19.3103	< 1.0	0.15
7/4/2018	< 2.0	13.65	1.0	0.35
8/7/2018	< 2.0	7.37059	< 1.0	0.16
9/4/2018	< 2.0	6.06897	< 1.0	0.94
10/2/2018	< 2.0	6.44074	< 1.0	0.16
11/5/2018	< 2.0	5.64412	< 1.0	0.48
12/3/2018	< 2.0	5.72857	1.5	1.63

Appendix D - CMO Reportable Spills 2018

Incident #	Date	Type	Substance	Quantity	Units	Location	Incident Summary	Corrective Action	PEP #
1	1-Feb-2018	Oil / Petroleum	Hydraulic Oil	110	Litres	6 Pit	108 Dozer was above 4 shovel pushing coal in 6 Pit, when he noticed a Hydraulic leak near the rear of the Dozer. He had shut the machine down, and due to a Hydraulic Hose being blown the contents of the Tank drained onto the floor of Coal.	CAP task assigned to Mine Ops Supervisor to review the Spill Clean up SP&P GEN31B and review appropriate clean up actions (i.e. excavate and put material in contaminated soil bin). Environment representative discussed corrective actions with the Mine Ops General Supervisor at the monthly Environmental Action Committee meeting.	DGIR 173782
2	3-Feb-2018	Oil / Petroleum	Hydraulic Oil	342	Litres	Load Out	501 loader was feeding loadout front feeder. A main hydraulic line failed and loader operator immediately backed loader out of the feeder grizzly area and around to front of south loadout pile in order to accommodate safe repair work. A spill pool was put in place and captured approximately 100 litres after the loader was shutdown.	A spill pool captured about 100 liters and was sucked out on February 5. Soaker pads were placed under the loader and cleaned up by maintenance when loader was repaired. Environment representative discussed with Mine Ops General Supervisor and Maintenance General Supervisor how to avoid missing spill clean up when a piece of equipment is down for several days. Discussion at monthly EAC meeting.	DGIR 173815
3	8-May-18	Miscellaneous	Sediment	>200	Litres	Decommissioned 7 Pit Ponds site	May 15, 2018: Reported to Environment Canada a potential Total Suspended Solids (TSS) discharge event that may have occurred on Tuesday May 8, 2018. The location of the potential TSS discharge was from Kuta Creek into Michel Creek. The laboratory results received on May 11, 2018 indicate that Kuta Creek TSS was > 25 mg/L above the background TSS for the receiving environment (Michel Creek). Kuta Creek TSS was 101 mg/L, Michel Creek downstream of Kuta Creek was 83.4 mg/L and Michel Creek upstream was 70.3 mg/L. Compliance was confirmed on Monday, May 14, 2018. Confirmation of the TSS discharge event was sent to Environment Canada on May 23, 2018. The TSS event was likely a result of rapid snowmelt across the decommissioned Seven Pit Pond area and additional seasonal run-off from Peach Creek all, which were flowing into Kuta Creek above the	The area was hydro seeded and planted in June. Once vegetation is established, it is expected to prevent TSS occurrences. CMO implemented a number of immediate erosion and sediment control (ESC) measures to reduce the surface run-off into Kuta Creek. In addition to the straw bales, straw logs, and silt fencing that was still in place from last year we added 4 rows of silt fencing, approximately 25 spring berms, redirected natural run-off away from the construction area and used an excavator to re-grade the swale for better drainage. The ESC measures are currently effective; we continue to monitor the area regularly.	

Incident #	Date	Type	Substance	Quantity	Units	Location	Incident Summary	Corrective Action	PEP #
							Flathead Road. The rapid snowmelt occurring in the area was likely due unseasonably high temperatures in the Elk Valley.		
4	14-Jun-2018	Miscellaneous	Sand/Gravel	464	m3	Quarry	The east side of the sand and gravel quarry is showing signs of erosion, likely due to freshet. The erosion has resulted in fine sand and gravel material moving downslope via a channel in the bank into an area of undisturbed vegetation that is within the Mine Permit Boundary and not directly near water. The material is not mine waste rock, nor tailings material.	Sand and gravel was not cleared from the undisturbed area. Interim erosion control measures were put in place (silt berms). An erosion control and reclamation plan for the area is being escalated - led by the Biodiversity and Closure team.	DGIR 180981
5	16-Jun-2018	Oil / Petroleum	Hydraulic Oil	73	Litres	6 Pit	Loader 403 was loading a truck when the haul truck operator saw a leak, the operator of 403 loader then stopped to check out the leak and put a spill pool down to catch the hydraulic fluid leaking out. When the mechanic inspected where the leak was coming from he determined a bolt had broken in a flange cause the leak (estimate 273L hydraulic oil), which was repaired.	Spill pool captured approximately 200 L. The mine ops supervisor reported the spill as 273 L, which is why it was reported to PEP. An updated volume was provided to PEP; approximately 73 L hit the ground and was cleaned up with soaker pads and the dirt was scrapped up and put in the contaminated soils bin.	DGIR 180998
6	26-Jul-18	Miscellaneous	Sediment	>200	Litres	Decommissioned 7 Pit Ponds site	On July 26, 2018 204 mg/L TSS was mobilized from the Seven Pit Pond Decommissioned area to the newly re-established Kuta Creek during a rain event. Sample CM_KTC (204 mg/L) was taken directly below the decommissioned area from Kuta Creek. Sample results from MC1 location indicate that the background TSS in Michel Creek was 16.9 mg/L.	The area was hydro seeded and planted in June. Once vegetation is established, it is expected to prevent TSS occurrences. The monitoring on July 27 confirmed that conditions had returned to normal and additional erosion controls were added to the Kuta Creek area, which included silt fencing and new silt berms. The Seven Pit Pond area continues to be inspected on a weekly basis or during rain events.	DGIR 181505
7	2-Aug-2018	Miscellaneous	Sediment	>200	Litres	Corbin Dam Spillway (CM_CCPD)	There was a Corbin Dam foundation-drilling program occurring at Coal Mountain Operations (CMO). Ministry of Energy, Mines and Petroleum Resources (EMPR) and Ministry of Environment and Climate Change Strategy (ENV) were notified of the program prior to work commencing. The Drilling Program started August 1, 2018 and drilling water was discharged to the Pond, turbidity	Due to the potential of the fine sediments in the drilling water not settling within the pond during windy events, CMO pumped the drilling water into totes and did not directly release the drilling water to the pond. The tote allowed CMO to hold and control the release of the water when weather conditions were ideal.	DGIR 182157

Incident #	Date	Type	Substance	Quantity	Units	Location	Incident Summary	Corrective Action	PEP #
							monitored every hour during drilling. No turbidity issues occurred. On Aug 2, the baseline turbidity sample was taken and drilling water was not discharging to the pond. However, environmental monitoring continued to occur on an hourly basis and a spike in turbidity was noted from 12:42 (156 NTU) to 13:17 (22 NTU). The cause of the rapid spike in turbidity is likely from high winds causing wave action on the pond and mobilizing the finer sediment from August 1, 2018 drilling water.		
8	7-Aug-2018	Fuel	Diesel	200	Litres	6 Pit	The shovel had been over filled with diesel causing it to leak out the over flow.	Soaker pads were placed down to pick up the pool of diesel and then the contaminated soil was removed and discarded into the contaminated soils bin. Maintenance Supervisor indicated shovel was decommissioned.	DGIR 181661
9	8-Aug-2018	Oil / Petroleum	Hydraulic Oil	275	Litres	Middle Mountain return to refuse bin road	A hydraulic hose blew on 003 Cat truck spilling of hydraulic oil. The cause was two hoses rubbing together until one wore right through.	Absorbent pads and spill tubs were used then the bobcat was used to remove the contaminated soil. All material was put into waste containment bins.	DGIR 181678
10	9-Aug-2018	Miscellaneous	Chlorinated water	124000	Litres	Plant	At approximately 9:15 pm on August 8, 2018, a low-level alarm was triggered from the potable water reservoir at Coal Mountain Operations. The low-level alarm indicated the level as less than 70%. Between approximately 9:15 pm and 3:00 am, staff undertook investigations as to the cause of the alarm. At approximately 3:00 am on August 9, 2018, the leak was found to be coming from a pipe in the processing plant, located under the stairs beside the Plant Maintenance lunchroom. After the leak was discovered, Staff immediately shut off the chlorinated water pump. At 4:00 am staff shut off the valve at the potable water reservoir, which significantly reduced flow at the leak. The	At approximately 9:00 am, Staff fixed the leak in the pipe and potable water service returned to normal.	DGIR 181687

Incident #	Date	Type	Substance	Quantity	Units	Location	Incident Summary	Corrective Action	PEP #
							chlorinated water had discharged from the processing plant to the ground south of the plant, as well as to a surface water ditch. The chlorinated water is expected to have traveled from the surface water ditch to horseshoe ponds, the Main Sedimentation Ponds, and thence into Corbin Creek. Approximately 124,000 L is expected to have discharged.		
11	10-Sep-2018	Miscellaneous	Chlorinated water	66000	Litres	Middle Mountain access road	At approximately 8:00 am September 10, 2018, a potable water line was struck by equipment removing accumulated solids from a ditch northwest of the diesel island at Coal Mountain Operations. At approximately 8:30 am, the chlorinated water pump was shut off and the valve was closed to prevent further loss of water from the potable water reservoir. The chlorinated water discharged from the ruptured pipe to the ditch and thence to ground. The potable water did not directly enter the surface water system. Approximately 66,000 L is expected to have discharged.	CMO fixed the ruptured line on September 10. Waterline accurately surveyed level of ditch elevated and signs have been put up (“Potable Waterline No Digging”).	DGIR 182111
12	13-Sep-2018	Miscellaneous	Sediment	>200	Litres	Decommissioned 7 Pit Ponds site	On September 13, 2018, 205 mg/L TSS was mobilized from The Seven Pit Pond Decommissioned area to the recently re-established Kuta Creek during a rain event. Kuta Creek turbidity was 205 mg/L during the rain event and background TSS in Michel Creek was <1 mg/L TSS (after the rain event).	The Seven Pit Pond area has been hydro seeded, and planted as part of the final reclamation stages earlier this summer 2018. In the future, the vegetation cover will act as a mitigation to these types of events once fully established. CMO continues to monitor the area regularly and will be implementing further upgrades to the existing silt fencing and spring berms through the addition of erosion control blankets. These improvements should help control possible future rain runoff reporting to low flow Kuta Creek via the swale where the vegetation is not yet well established.	DGIR 182157
13	24-Nov-2018	Oil / Petroleum	Hydraulic Oil	150	Litres	37 Pit	The bleeder valve on #005 haul truck brake system failed causing a hydraulic fluid loss to ground.	Ground and snow was removed and taken to a bin for off site disposal. Spill pads and spill pool were picked up and taken for proper disposal.	DGIR 183054