



2020 ANNUAL REPORT

QUARTZ MINING LICENSE QML-0009

March 2021

Prepared for:

YUKON GOVERNMENT - ENERGY, MINES AND RESOURCES

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1 INTRODUCTION

Alexco Keno Hill Mining Corp. (AKHM) was issued Quartz Mining License (QML) QML-0009 on November 17, 2009. A request for amendment of this License to include mining activities at the Lucky Queen and Onek 990 mines was submitted in 2012 and approved January 13, 2013. Prior to this, letters of approval for preliminary development of the Onek 990 and Lucky Queen mines were received in November 2012. On February 17, 2016, an amendment to the QML was issued to include the Flame & Moth mine. Most recently the QML was amended on November 27, 2019 to include the Bermingham mine.

On August 20, 2010, Type A Water Licence QZ09-092 was issued to AKHM for operation of the Bellekeno mine and District Mill. Subsequently, on September 7, 2010, the Bellekeno Mine became a “mine under development” as defined in subsection 2(1) and subsection 2(2) of the federal *Metal and Diamond Mining Effluent Regulations (MDMER)*. On May 16, 2013, AKHM received an amendment (QZ12-053) to Water Licence QZ09-092 to similarly include the Lucky Queen and Onek 990 mines. This report serves to fulfill the reporting requirements of the QML as defined under Clause 13.7 of QML-0009.

The district operations were placed in temporary closure in September 2013; therefore, no mining or milling activities occurred in 2014, 2015, 2016, or 2017. The District came out of temporary closure in 2018 with the commencement of the initial development of the Flame & Moth underground workings including completion of the Flame & Moth water treatment plant and pond, preparatory earthworks of the Flame & Moth P-AML waste rock storage facility and mill maintenance. In 2018, no activities associated with development were undertaken at Bellekeno, Onek or Lucky Queen.

In 2019, the District was put back in temporary closure and no activities associated with development were undertaken at Flame & Moth, Bellekeno, Onek or Lucky Queen. No activities were undertaken at Lucky Queen and Onek 990 in 2020 under the QML. On July 23, 2020, Type A Water Licence QZ18-044 was issued to AKHM for the operation of Bellekeno, Bermingham and Flame & Moth mines and the District Mill. Water Licence QZ18-044 is a renewal of QZ09-092. In 2020, the District resumed mine development activities at Bellekeno, Bermingham and Flame & Moth. In December 2020, the Flame & Moth mine became subject to “mine under development” as defined in subsection 2(1) and subsection 2(2) of the *MDMER*.

1.1 LOCATION

The Keno Hill Silver District (KHSD), owned and operated by AKHM, is located in the vicinity of Keno City (63° 55'N, 135° 29'W), in central Yukon, 354 km (by air) due north of Whitehorse. Access to the property is via a paved, two-lane highway from Whitehorse to Mayo (407 km) and an all-weather gravel road northeast from Mayo to Elsa (45 km); a total distance of 452 km. The property lies along the broad McQuesten River valley with three prominent hills to the south of the valley. Figure 1-1 shows the general project location within Yukon while Figure 1-2 shows the individual locations of the mines. The Bellekeno Mine is located about 3 km east of Keno City, the Onek 990 Mine is about 0.5 km to the northeast of Keno City, the Keno Hill Silver District Mill site and Flame & Moth portal are about 1.2 km to the west, while the Lucky Queen Mine is about 4 km to the north of Keno City and the Bermingham mine is about 7 km to the west of Keno City (Figure 1-2).



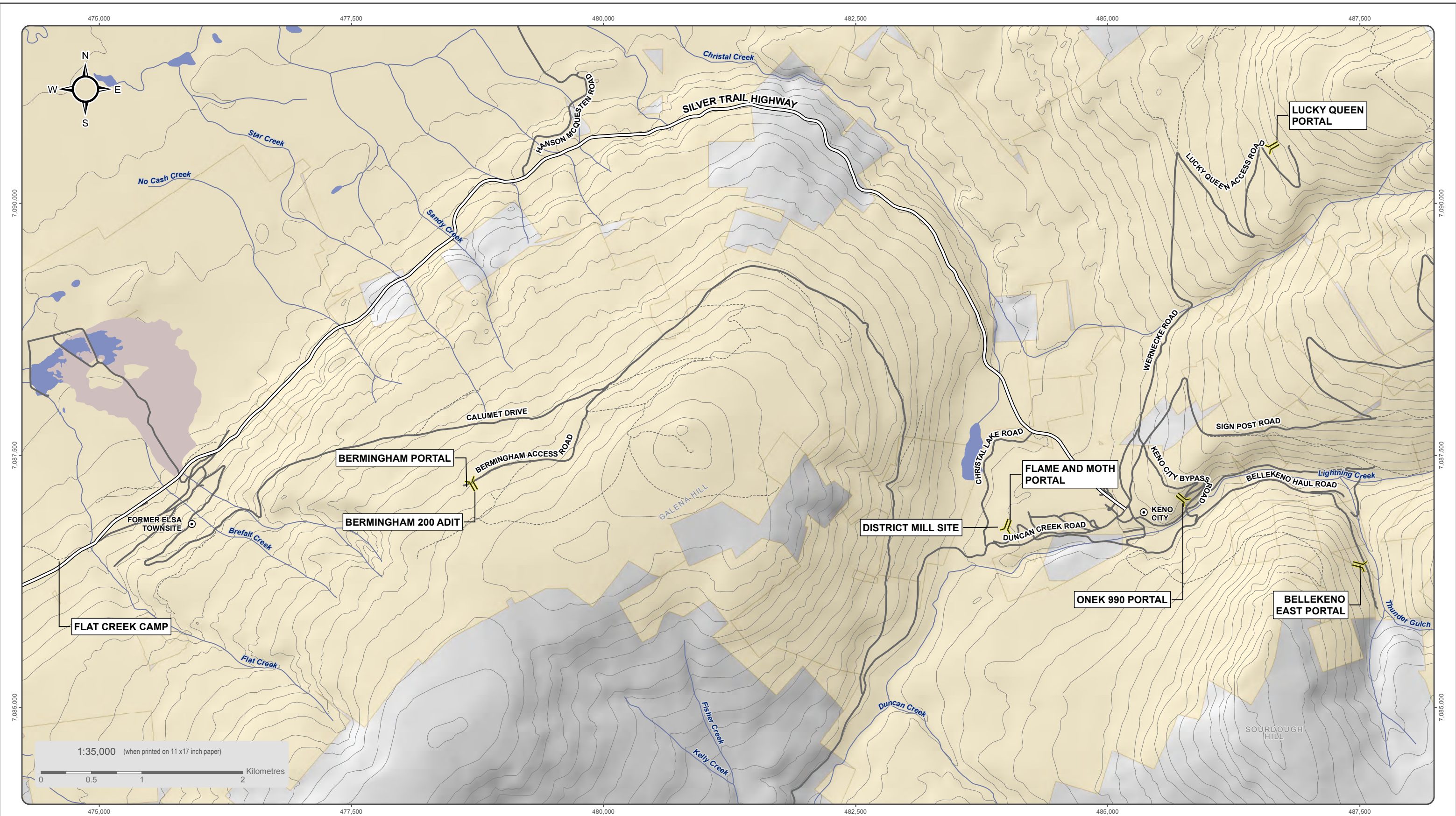
ALEXCO KENO HILL MINING CORP.
2020 ANNUAL REPORT WATER LICENSE QZ18-044

FIGURE 1-1 PROJECT LOCATION

MARCH 2021

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National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Satellite imagery obtained from Yukon Geomatics map service <http://mapservices.gov.yk.ca/ArcGIS/services> on March 2021

Datum: NAD 83; Map Projection: UTM Zone 8N

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- | | | |
|---------------------------|---------------|----------------------|
| Place of Interest | Tailings Area | Silver Trail Highway |
| Adit | Waterbody | Road |
| Alexco/ERDC Quartz Claims | Watercourse | Limited-Use Road |



ALEXCO KENO HILL MINING CORP.

FIGURE 1-2

KENO HILL SILVER DISTRICT

MINING OPERATIONS OVERVIEW

MARCH 2021

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2 MINING ACTIVITIES

2.1 MINE SITES

2.1.1 Bellekeno

The Bellekeno mine was in production from 2011 to 2013 when it was placed on care and maintenance. There is no significant new development required to extract the probable mineral Reserves in Bellekeno. The current workings in the mine are sized at 3.7m W x 4.0m H (average dimension). Access to the mine is via an existing portal and ramp system, emergency egress and ventilation through the 625 level fresh air drift.

Underground development at Bellekeno was placed under temporary closure in September 2013 and no mining activities occurred in 2014 to 2019. In 2020, mine activities resumed in Q4 with 2,028 tonnes of ore produced. There was 18 m of mine development in 2020 which generated of 703 tonnes of waste rock which was backfilled underground. As-built drawings for the Bellekeno underground workings can be seen in Figure 2-1.

The current site infrastructure includes miners' office buildings with septic storage, miners' dry area, warehouse containers, and surface layout area. The maintenance shop was removed in 2020.

Water discharge from the Bellekeno mine is treated at the Bellekeno 625 adit portal water treatment facility. All waste rock material generated from mining operations at Bellekeno will be backfilled underground in previously mined out areas. There is a temporary storage pad for potential acid metal leaching rock (P-AML) located near the Bellekeno East portal (Photo 2-1).



Photo 2-1: Bellekeno East Portal and Surface Facilities from 2018. Note shop was removed in 2020.

2.1.2 Lucky Queen



Photo 2-2: Lucky Queen Surface View from 2018.

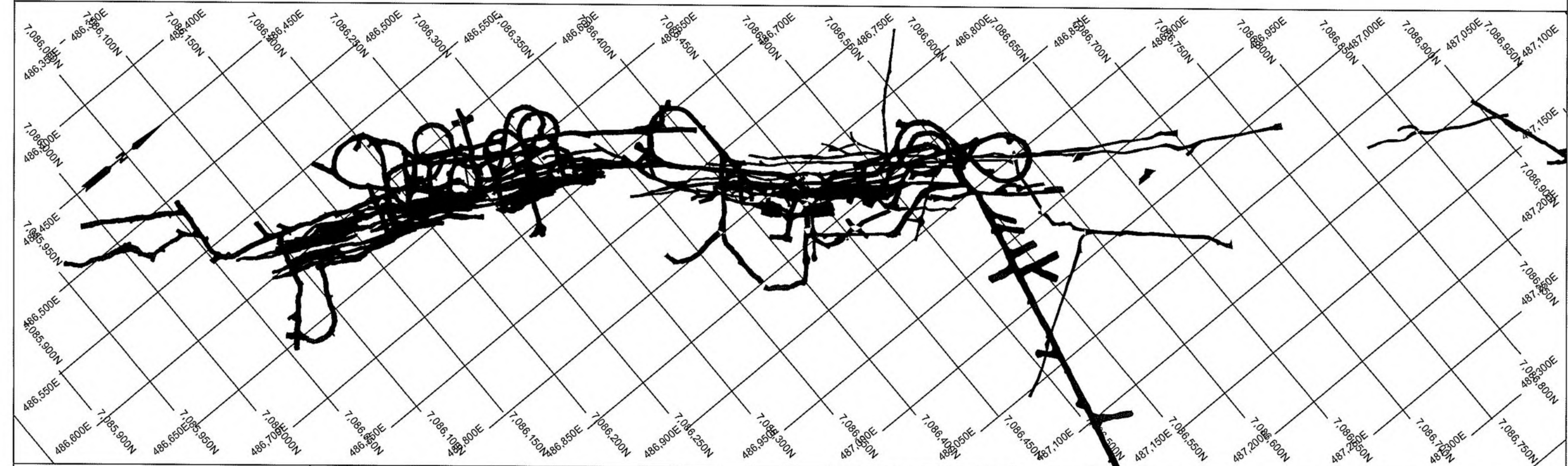
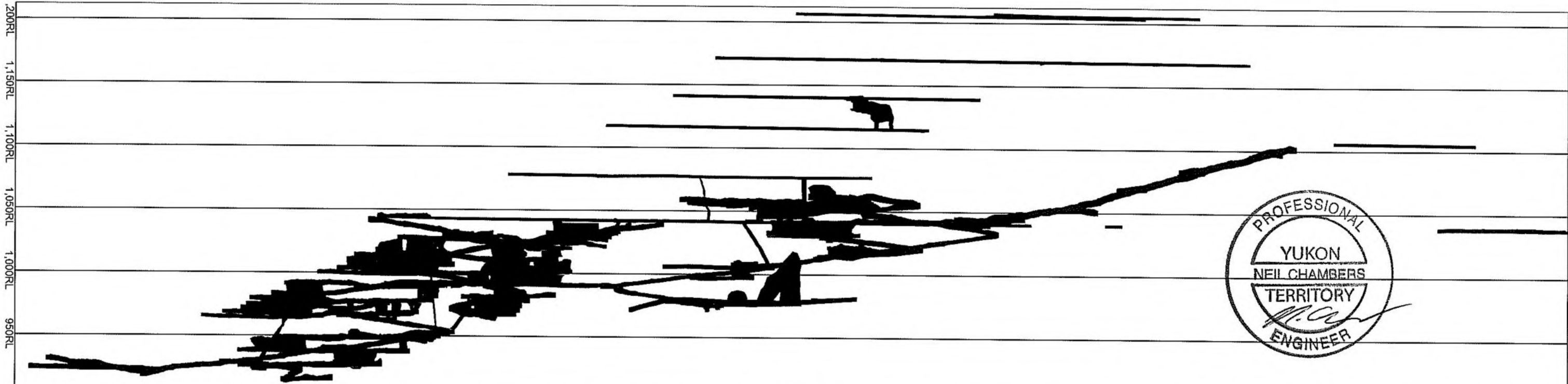
There have been no mining or development activities at Lucky Queen 2014 to 2020. The existing Lucky Queen portal pad, developed on a historic waste dump, will be used to support mining operations at Lucky Queen. The remaining surface infrastructure that includes a shop and office can be seen in Photo 2-2.

2.1.3 Onek 990

There have been no mining or development activities at Onek 990 from 2014 to 2020. Photo 2-3 shows the surface view for the Onek 990 mine.



Photo 2-3: Onek 990 Surface view from 2018.



Rev	Rev. Date	Description	DRAWN	CHECKED	GEO	MINE SUPER	Area	Keno Hill, Yukon Territory, Canada		Rev No.
1	2020-12-10							Figure 2-1 BELLEKENO ASBUILT (END OF 2020)		
2	2021-01-12									
3	2021-01-12									
4	2021-01-12									
5	2021-01-12									
6	2021-01-12									
7	2021-01-12									
8	2021-01-12									
9	2021-01-12									
								Drawn By	Chris Hopkins	ASBUILT
								Date Drawn	12-01-2021	
								Scale	1:3000	

2.1.4 Flame & Moth

The Flame & Moth mine is located adjacent to the existing mill and administration facilities. Access to the mine will be through an already developed portal and 370m long ramp. The Flame & Moth deposit will be mined by mechanized underground mining methods of cut and fill (MCF) and longhole stoping (LH) with cemented rock fill and unconsolidated rock fill. Ore from the Flame & Moth mine will be sourced from the Lightning and the Christal zones, which contains approximately 66% and 33% of total ore tonnes, respectively. Emergency egress and ventilation for the Flame & Moth Mine will be provided through a vent raise driven to surface.

A total of 5,837 tonnes of N-AML waste rock was generated in 2020 and used for construction around the mill area. Activities that occurred at Flame & Moth include installation of P-AML facility, a portal heater, installation of a booster fan underground and slashing in existing remuck for underground shop. Figure 2-2 shows the as-built drawing for the Flame & Moth underground workings.

The Flame & Moth mine uses existing infrastructure at the District Mill site. Existing infrastructure consists of geology and engineering office trailers, maintenance shop and fuel storage facility. Additional infrastructure in the area of the Flame & Moth mine portal, northeast of the mill building, consists of:

- a miners' office trailer and miners' dry facility;
- cold storage structure;
- portal ventilation fan and heater;
- air compressors; and
- settling pond for mine water discharge, with clarified water supplying the underground mine.

The fresh air raise collar location is planned south of the crusher and coarse vein material stockpile.

A plan view of the Flame & Moth mine area and surface infrastructure is presented in Figure 2-3.

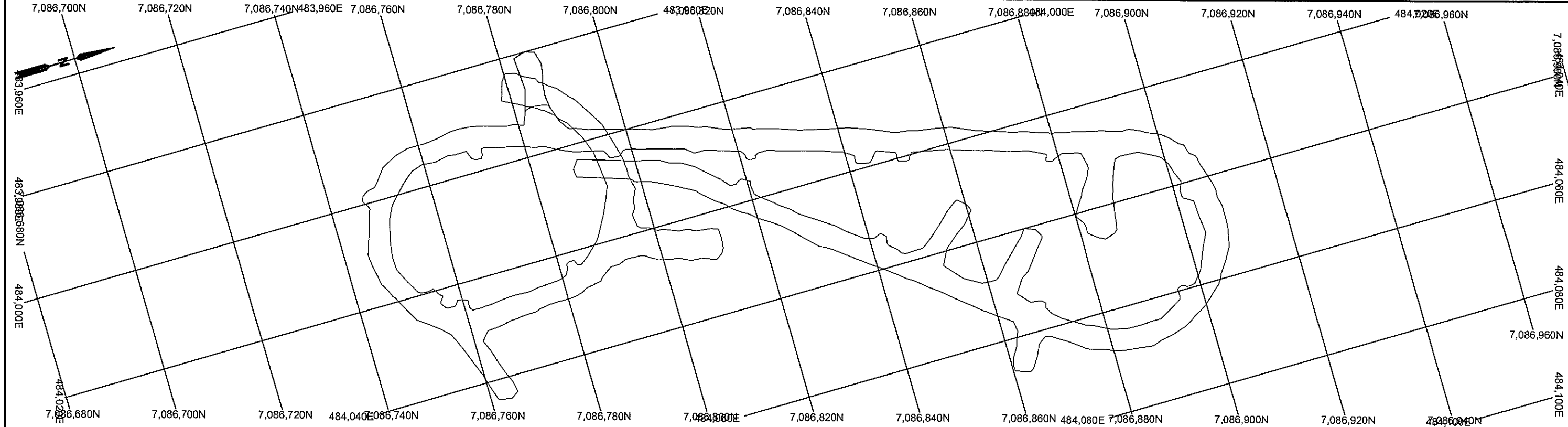
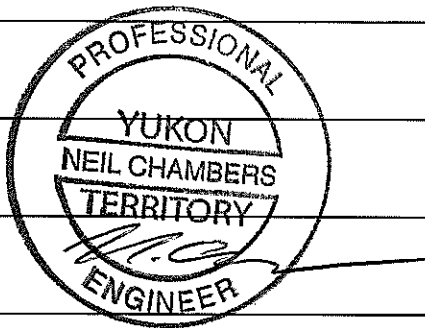
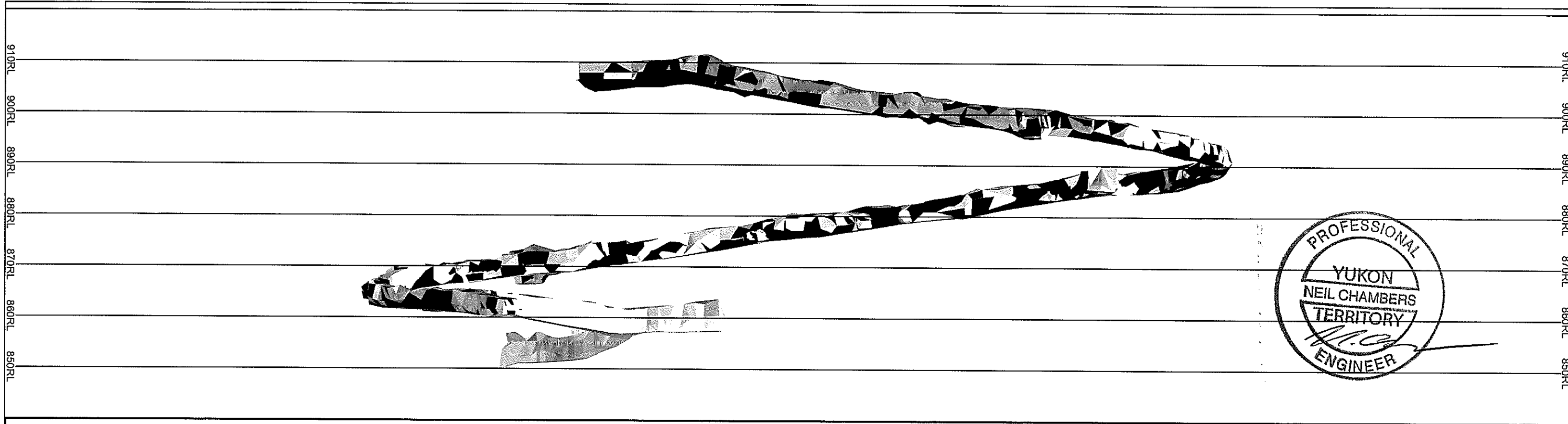
2.1.5 Bermingham

The Bermingham mine is located approximately 4 km from the mill underneath the historical Bermingham Pit. Access to the mine will be through an already developed portal and 520 m long ramp.

In 2017 the Bermingham portal was collared as part of the Class 4 Mining Land Use Approval LQ00476 and included the development of the decline to undertake an underground drill program. In 2020, 89 m of development occurred generating 4,545 tonnes of N-AML waste rock that was placed on surface to expand the portal pad. Figure 2-4 shows the as-built drawing for the Bermingham underground workings.

Various surface facilities and infrastructure were completed in 2020 to support the new Bermingham underground exploration decline including include a dedicated mine office, dry/lunch room, maintenance shop, diesel power generation, fuel storage tanks and laydown yard. The surface infrastructure that was constructed for the advanced exploration decline will remain in place and be expanded to facilitate development and production at the new Bermingham mine. A lined water management pond already constructed will be used as part of the water treatment system required during active mine operations.

A photograph and plan of the Bermingham mine area and surface infrastructure is presented in Figure 2-5.





Rev	Rev. Date	Description	Drwn	Chkd	Geo	11/6/2020
1	2021-01-11					
2	2021-01-11					
3	2021-01-11					
4	2021-01-11					
5	2021-01-11					
6	2021-01-11					
7	2021-01-11					
8	2021-01-11					
9	2021-01-11					

Flame & Moth

Rev No. ASBUILT

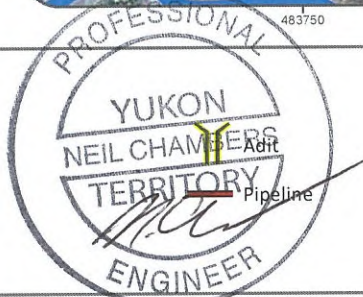
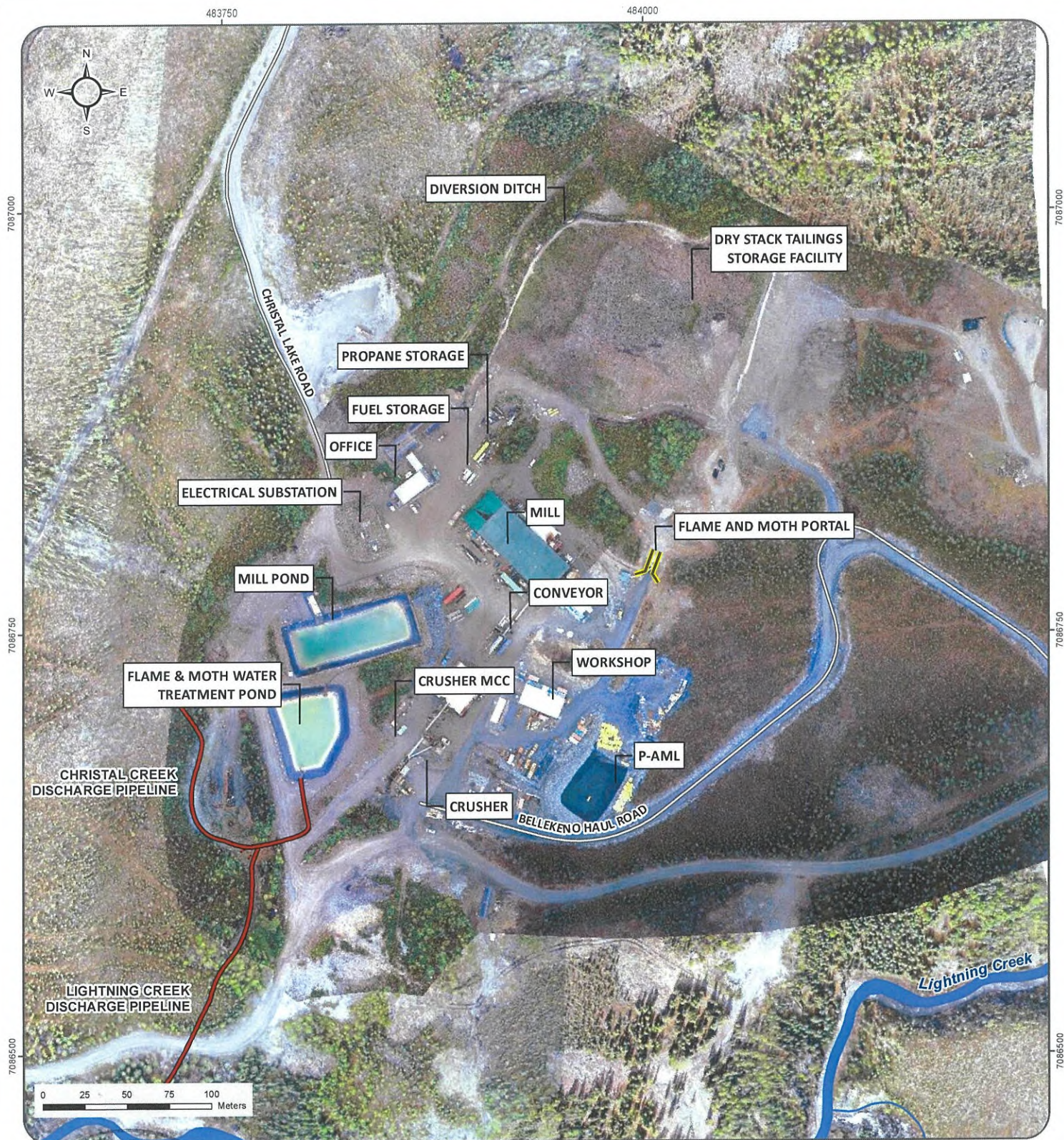
FLAME AND MOTH ASBUILT (END OF 2020)

Updated Chris Hopkins

Date Drawn 11-01-2021

Scale 1:250

Figure 2-2



- Waterbody
- Watercourse
- Road



ALEXCO KENO HILL MINING CORP.

FIGURE 2-3
MILL, DSTF, AND
FLAME & MOTH AREA AS-BUILT

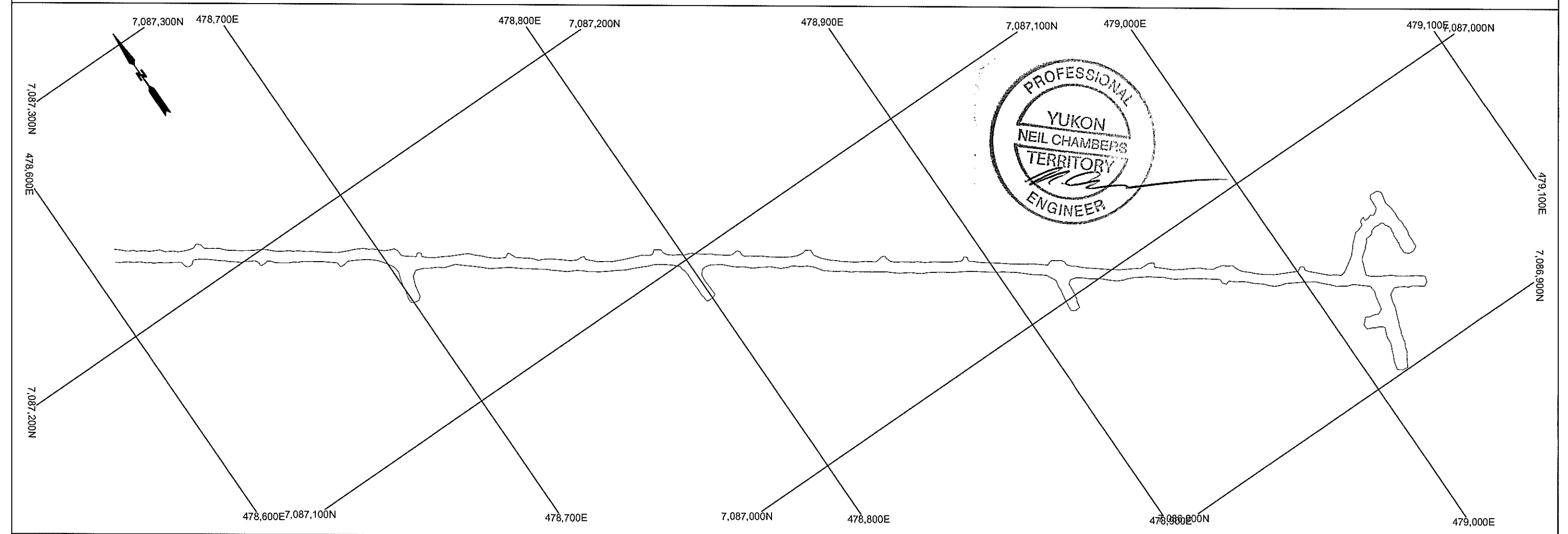
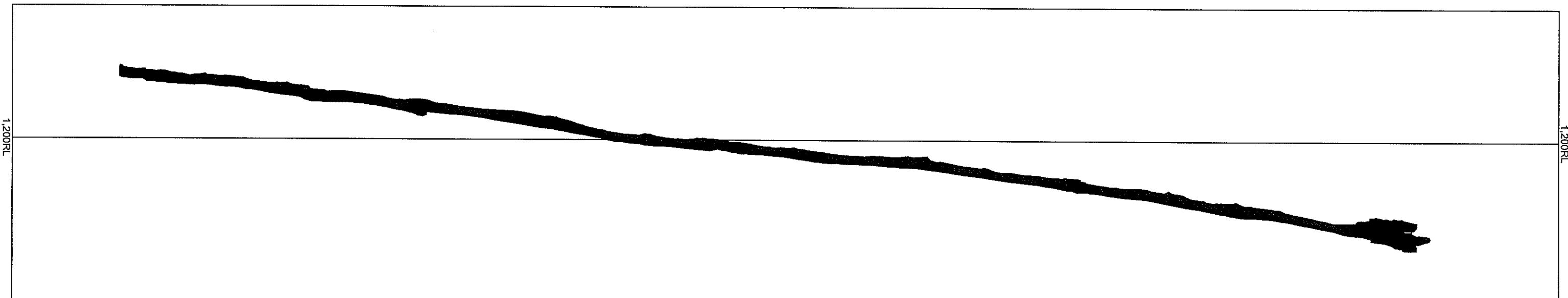
MARCH 2021

Satellite imagery obtained from Yukon Geomatics map service <http://mapservices.gov.yk.ca/ArcGIS/services> on March 2021

Datum: NAD 83; Projection: UTM Zone 8N

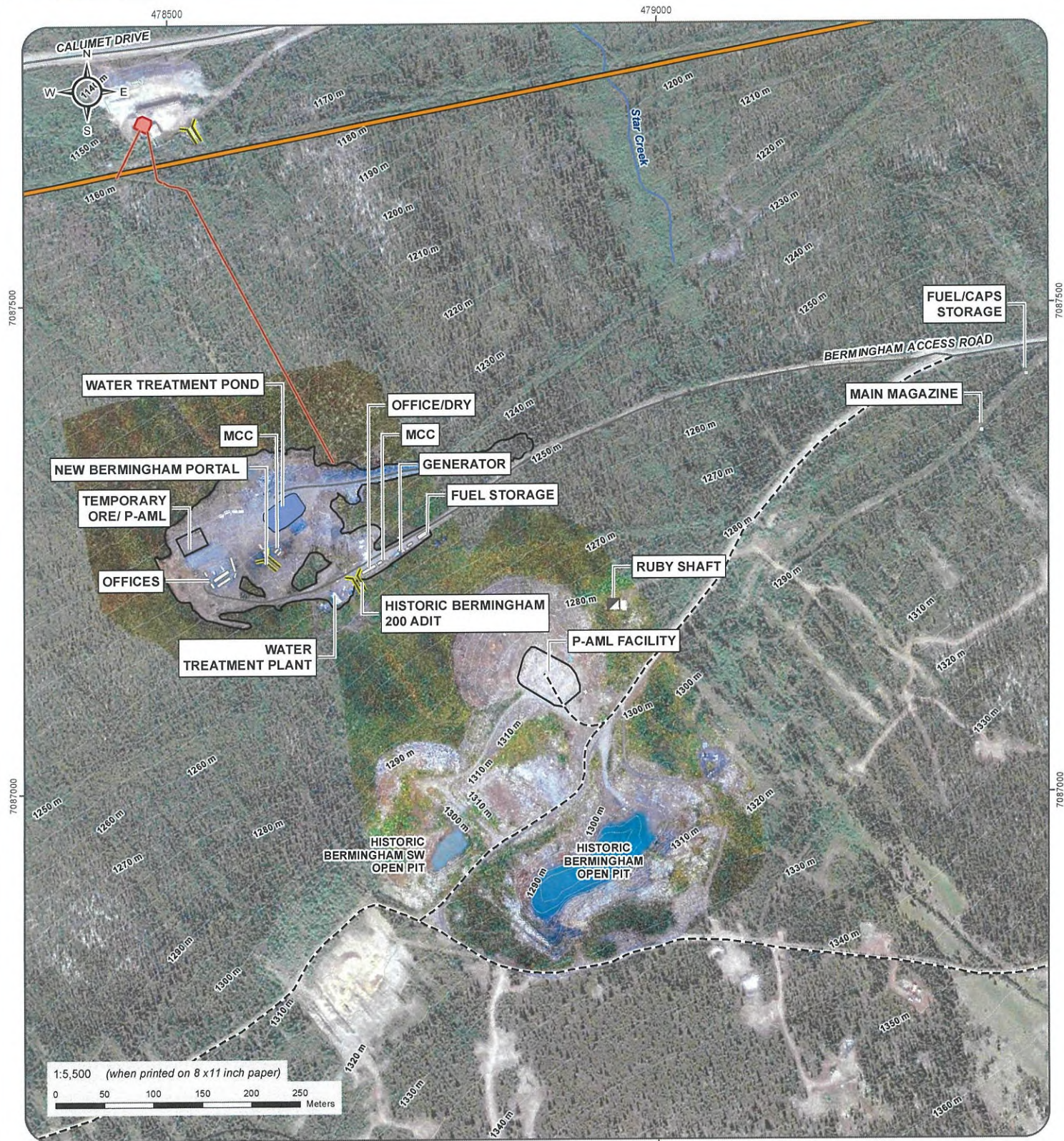
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Rev	Rev. Date	Description	Drwn	Chkd	Geo	Mine
1						
2						
3						
4						
5						
6						
7						
8						
9						

Bermingham		Rev No. 1	
Figure 2-4 BERMINGHAM ASBUILT (END OF 2020)			
Updated	Chris Hopkins		
Date Drawn	11-01-2021		
Scale	1:1500		
ASBUILT			



- Adit/Portal
- Shaft
- Electrical Building
- Power Line (Alexco)



- Existing Electrical Lines (Yukon Energy)
- Waterbody
- Surface Watercourse
- Road
- Limited-Use Road
- Contour (5m interval)

Satellite imagery obtained from ESRI ArcGIS map service <https://www.arcgis.com/ArcGIS/rest/services> on March 15 2021

Datum: NAD 83; Projection: UTM Zone 8N

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FIGURE 2-5 BERMINGHAM MINE AS- BUILT

MARCH 2021

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(Last edited by: amafashevska, 2021-03-15 12:17 PM)

2.2 LIFE OF MINE AND RESERVES

Alexco published the technical report “Prefeasibility Study of the Keno Hill Silver District Project, Yukon, Canada” in March 2019 (amended February 2020). The report is [available on SEDAR or here \(https://www.alexcoresource.com/site/assets/files/4288/pfs_2020_final_feb_13_all_chapters_2.pdf\)](https://www.alexcoresource.com/site/assets/files/4288/pfs_2020_final_feb_13_all_chapters_2.pdf). The Project contemplates the conventional mining and milling of silver-lead-zinc ore from four underground deposits in the District. Over the eight year mine life, the mines will produce 1.18 million (“M”) tonnes of mill feed (the probable Mineral Reserves) at an average 805 grams per tonne (“g/t”) silver (“Ag”), 2.98% lead (“Pb”), 4.13% zinc (“Zn”) and 0.34 g/t gold (“Au”).

The estimated underground Mineral Resource includes the Bellekeno, Lucky Queen, Flame & Moth, Onek, and Bermingham deposits. The total estimated Mineral Resource (inclusive of the probable Mineral Reserve) is shown in Table 2-1 and Table 2-2.

Table 2-1 : Summary of Mineral Resource Estimates

Category ^{1,2,3}	Deposit	Tonnes	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Contained Ag (oz)
Indicated	Bellekeno ^{2,4&5}	262,000	585	n/a	3.5%	5.3%	4,928,000
	Lucky Queen ^{2,4&6}	132,300	1,167	0.2	2.4%	1.6%	4,964,000
	Flame & Moth ^{2,4&6}	1,679,000	498	0.4	1.9%	5.3%	26,883,000
	Onek ^{4&6}	700,200	191	0.6	1.2%	11.9%	4,300,000
	Bermingham ^{2,4&5}	1,102,300	930	0.1	2.4%	1.7%	32,959,000
Total Indicated		3,875,800	594	0.34	2.0%	5.3%	74,034,000
Inferred	Bellekeno ^{4&5}	243,000	428	n/a	4.1%	5.1%	3,344,000
	Lucky Queen ^{4&6}	257,900	473	0.1	1.0%	0.8%	3,922,000
	Flame & Moth ^{4&6}	365,200	356	0.3	0.5%	4.3%	4,180,000
	Onek ^{4&6}	285,100	118	0.4	1.2%	8.3%	1,082,000
	Bermingham ^{4&5}	509,400	717	0.2	1.7%	1.5%	11,743,000
Total Inferred		1,660,600	455	0.2	1.6%	3.7%	24,271,000

Notes:

- All mineral resources, except the Elsa Historical Tailings Resource, are classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (May 2014) of NI 43-101.
- Indicated mineral resources are inclusive of mineral reserves estimates.
- Mineral resources are not all mineral reserves and do not have demonstrated economic viability. All numbers have been rounded to reflect the relative accuracy of the estimates.
- The mineral resource estimates comprising Bellekeno, Lucky Queen and Flame & Moth, Onek and Bermingham are supported by disclosure in the news release dated March 28, 2019 entitled “Alexco Announces Positive Pre-Feasibility Study for Expanded Silver Production at Keno Hill Silver District” and the technical report filed on SEDAR dated February 14, 2020 with an effective date of March 28, 2019.
- The mineral resource estimate for the Bermingham and Bellekeno deposits are based on mineral resource estimates having an effective date of March 28, 2019. The Bellekeno deposit has been depleted to reflect all mine production from the Bellekeno mine to date.
- The mineral resource estimate for the Lucky Queen, Flame & Moth and Onek deposits have an effective date of January 3, 2017.
- The mineral resource estimate for the Elsa Tailings has an effective date of April 22, 2010 and is supported by the technical report dated June 16, 2010 entitled “Mineral Resource Estimation, Elsa Tailings Project, Yukon, Canada”. The Elsa Historical Tailings Resource is classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (December 2005) of NI 43-101.
- The disclosure regarding the summary of estimated mineral resources for Alexco’s mineral properties within the Keno Hill District has been reviewed and approved by Dr. Gilles Arseneau, P.Geol. (Lucky Queen, Flame & Moth, and Onek deposits), Cliff Revering, P.Eng (Bermingham deposit), and David Farrow, P.Geol. PrSciNat (Bellekeno deposit), Qualified Persons as defined by NI 43-101.

The mine plan comprises mining from four deposits; Bermingham, Flame & Moth, Bellekeno, and Lucky Queen. The majority of the mill feed will come from Bermingham and Flame & Moth (over 90%). The total Mineral Reserves for the Keno Hill Silver District are shown in Table 2-2. All Mineral Reserves are probable Mineral

Reserves. Please note that rounding of tonnes, average grades, and contained metal may result in apparent discrepancies with totals rounded.

Table 2-2: Mineral Reserves, Alexco Resource Corp. – Keno Hill Silver District Project

Deposit ³	Category	Tonnes	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)	Contained Metal (000 oz Ag)	Contained Metal (000 oz Au)	Contained Metal (M lbs Pb)	Contained Metal (M lbs Zn)
Bellekeno	Proven	-	-	-	-	-	-	-	-	-
	Probable	40,109	843.1	11.79	6.31	-	1,087	-	10	6
Lucky Queen	Proven	-	-	-	-	-	-	-	-	-
	Probable	70,717	1,244.39	2.63	1.38	0.12	2,829	-	4	2
Flame & Moth	Proven	-	-	-	-	-	-	-	-	-
	Probable	704,211	671.95	2.71	5.73	0.49	15,214	11	42	89
Bermingham	Proven	-	-	-	-	-	-	-	-	-
	Probable	362,343	972.02	2.59	1.32	0.13	11,324	2	21	11
Total	Proven	-	-	-	-	-	-	-	-	-
	Probable	1,177,380	804.51	2.98	4.13	0.34	30,454	13	77	107

Notes:

1. All mineral reserves for this table have the effective date of March 28, 2019 and are classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (May 2014), in accordance with the CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines and the guidelines of NI 43-101.
2. All numbers have been rounded to reflect the relative accuracy of the estimates. Mineral Reserves are reported herein based on an NSR cutoff value using estimated metallurgical recoveries, assumed metal prices and smelter terms, which include payable factors, treatment charges, penalties, and refining charges
3. Tonnage and grade measurements are in metric units. Contained gold and silver ounces are reported as troy ounces
4. The Bellekeno, Lucky Queen, Flame & Moth and Bermingham deposits are incorporated into the current mine plan supported by disclosure in the news release dated March 28, 2019 entitled "Alexco Announces Positive Pre-Feasibility Study for Expanded Silver Production at Keno Hill Silver District" and the technical report filed on SEDAR dated February 13, 2020 with an effective date of March 28, 2019.
5. The disclosure regarding the summary of probable mineral reserves for Alexco's mineral properties within the Keno Hill District has been reviewed and approved by Neil Chambers, P.Eng., Mine Superintendent and Qualified Person as defined by NI 43-101.

2.3 MINING METHODOLOGY

The Keno Hill Silver District (KHSD) project contains four separate deposits: Bellekeno, Bermingham, Flame & Moth, and Lucky Queen. All are characterized by high-grades, narrow vein widths, and challenging ground conditions. Historical mining methods used in the KHSD have included cut and fill, small scale longhole stoping, shrinkage stoping, and square set stoping.

All four deposits will be mined by mechanized underground mining methods of cut and fill (MCF) and longhole stoping (LH) with cemented rock fill and unconsolidated rock fill. In the wider areas of the orebody, a Drift and Fill method with cemented rock fill (CRF) will be used. Longhole Open Stopping will be either standard longitudinal retreat with CRF or uphole stoping with no CRF. Longhole stoping will be used where the ground conditions and ore body dip allow or to recover sill pillars between Cut and Fill levels. These mining methods were chosen due to the narrow steeply dipping nature of the orebody and to maximize safety and productivity.

Longhole stoping was the method use to mine the remaining ore at Bellekeno. In 2020 mining of ore did not occur at the Flame & Moth and Bermingham mines.

2.4 DEVELOPMENT

2.4.1 Bellekeno

At the Bellekeno, mine, a total development of 31.5 m was advanced in 2020. This is included 13.5 m of ore advance and 18 m of advance for level access.

2.4.2 Flame & Moth

A total development of 100.4 m occurred at the Flame & Moth mine in advancing the decline. Ramp development constituted 72.9 m, remuck was 18.9 m and underground bay was 8.7 m.

2.4.3 Bermingham

A total of 89.5 m was developed in waste advance at the Bermingham mine. Development for vent drive constituted 50.2 m and ramp development was 38.3 m.

3 CONSTRUCTION ACTIVITIES

With the announcement of a positive PFS and production decision in mid 2020, construction projects ramped up at site. In 2020, surface construction activities included the Bermingham water treatment plant, Bermingham P-AML waste rock storage facility, and the start of construction of the cover building for the District Mill crusher. The updated surface as-built drawing for the Mill area Facility for 2020 activities is presented as Figure 2-3

In accordance with our efforts to minimize the impact of the construction activities on the residents of Keno City, the majority of construction materials were delivered using the Christal Lake road to bypass Keno City.

3.1 ROAD CONSTRUCTION

All traffic between Elsa and the Mill facility and/or the Bellekeno mine is routed along the Christal Lake Road and subsequently the Bellekeno haul road. The Bermingham Mine traffic will use the Bermingham access road, Calumet Road and a short section of the Duncan Creek road (~3 km) between the Mill and the Bermingham mine. No major upgrades occurred on the roads to Lucky Queen, Christal Lake Road, Keno City Bypass to BKR, or the BKR haul road in 2020. Improvements were made to the Calumet Drive to Bermingham in 2020 to safely accommodate haul road traffic, including grading and construction of berms. Standard maintenance occurred throughout the year.

3.2 MILL SITE CONSTRUCTION

The current facilities at the District Mill facility include mine and mill offices and dry, an assay lab, first aid facilities, and the mill and DSTF complex, as seen on Figure 2-5. The mine geology and engineering office buildings from Bellekeno were moved to the mill area to serve as a central office and dry facility for all mining operations. In 2018 and 2019, a maintenance program of some of the District Mill components was undertaken. No further work was undertaken in 2019. The mill was recommissioned in 2020 and construction activities included installation of new tailings filter press, installation of a new fine ore feeder, and construction of a new building around the crusher.

The mill yard continues to be ditched and contoured to facilitate channeling melt water in the spring to sediment basins. Organics were consolidated and contoured to allow vegetation to take over and provide a central location for organics borrow source once reclamation begins.

3.3 DRY STACK TAILINGS FACILITY

In 2020, additional area was cleared and prepared for liner which will be laid in the for additional tailings placement. The DSTF as-built was presented in the 2013 QML annual report. The extent of the cover placed on the DSTF was expanded in 2015 is shown on Figure 2-3.

The monitoring data collected from annual inspection of the DSTF in 2020 is presented in Appendix A.

3.4 FLAT CREEK (ELSA) CAMP FACILITIES

The currently licensed Flat Creek camp facilities include a trailer camp, kitchen facility, and drillers dry assembled at the old Flat Creek town site (part of Elsa). The camp has a total capacity of 117 permanent beds. There are four refurbished houses located nearby the townsite of Elsa with a total of 28 rooms, and an additional 20 rooms available in a bunkhouse next to the houses which is used primarily for seasonal surface exploration programs. Two of the three bunkhouse complexes at Flat Creek camp were replaced with new units in Q4 2020. The entire capacity of the camp facilities is 165 rooms.

The camp is located on Surface Lease 105M13-001. There are four houses located on Surface Lease 105M13-009.

Alexco is licensed to withdraw water from Flat Creek and an existing groundwater well for domestic use. A water treatment facility located within the Flat Creek camp consists of 5,000 L of storage, a water softener, UV treatment, and chlorination. Alexco currently holds two sewage disposal system permits at Elsa issued by YG Environmental Health Services: an absorption bed permit for the Flat Creek Camp (Permit #3448) in replacement to a septic tank permit (Permit #3012) and an absorption permit for five houses (Permit #3449) in replacement of a septic tank permit (Permit #3246). Waste water is treated in septic tanks and released via drain fields.

Commercial Dump Permits # 81-012 and #81-067 are currently held from Yukon Government Environment in accordance with the Environment Act Solid Waste Regulations as well as the Public Health and Safety Act. The permits were renewed effective January 1, 2019 and will continue to be used in support of mine operations. In compliance with this permit, upgrades to the location of solid waste disposal included upgrades to the electric bear fence and the addition of a cattle guard to prevent animals from entering the facility. Permit 81-012 was amended in 2020 to include the use of an incinerator to meet the requirements of the QML listed under Schedule C item 2.6 (b). In 2020 an incinerator was purchased and installed in Elsa, but due to the COVID-19 travel restrictions the incinerator was not operated as the permit requires air emissions testing upon commissioning, which is not possible as this can only be done by technical consultant located outside of Yukon. Putrescible waste will continue to be transferred to the Mayo landfill until COVID-19 travel restrictions are changed and the technical consultant can travel to the Yukon.

3.5 ANNUAL INSPECTION

In accordance with Section 12.1 to 12.3 of QML-0009, an “*annual inspection of the physical stability of all engineered structures, works and installations located at the site is conducted by an engineer by August 1st of each year*”. Tetra Tech EBA Inc. was retained to complete the 2020 annual inspection of the surface engineered earth structures located throughout the Bellekeno mine and District Mill site. See Appendix A for a copy of the *2020 Annual Physical Inspection Report* which includes surface inspections.

3.6 UPCOMING MAINTENANCE AND UPGRADES

Maintenance of mine and mill areas continued in 2014 through 2019. Restart of mining activities and recommissioning of the mill commenced in 2020 in preparation for commercial operation.

3.6.1 Mill Upgrades and Maintenance

Since the temporary shutdown in 2013, maintenance projects have been completed in preparation for restarting the mill for the project described herein. The major maintenance works begun in 2018 and completed in 2020 included rebuilding all flotation cells and pumps, removal of the Derrick screen, installation of the cyclone cluster for both the grinding circuits and concentrate regrind circuits, removal of the smaller tailings filter press, and replacement of a larger tailings filter press. The new ball mill was installed in 2020, and tie in with the new grinding circuit configuration will be complete when the higher throughput is required.

A water treatment circuit to treat water from the Flame & Moth mine was installed in 2018 consisting of a clarifier and reagent addition (lime and flocculant) for treating water from underground, prior to discharge or recycle into the mill. The water treatment plant was constructed inside the existing mill building.

During the initial years of operation, campaigns will be run to test higher throughput rates and identify any bottlenecks or additional projects required to achieve the design throughput. These projects may include installation of concentrate regrind mills and replacement of slurry pumps.

3.6.2 Mine Upgrades and Maintenance

3.6.2.1 Bellekeno

The southwest decline was dewatered to open up access to 750 level. Rehabilitation was completed in the 750 level to make suitable for stopping. Mine discharge and water treatment continued in 2020. There are no planned upgrades for Bellekeno. The planned production for 2021 would be completed in Q2. Water treatment and maintenance of safe access will continue for 2021.

3.6.2.2 Flame & Moth

In 2020, a heater was installed at the mine portal and a booster fan installed underground to aid with ventilation. Some slashing was done in existing remuck for underground shop. Mine discharge was pumped from the underground and treated on surface before release into the receiving environment.

In 2021, the mine ramp development will continue, as will mine water management. Production of ore is expected to commence by Q3 of 2021. Regular maintenance will continue to support safe production for this

and subsequent years. Improvements and optimization of the mine water management and water treatment will continue to be evaluated, as mining proceeds and mine water inflows increase.

3.6.2.3 Bermingham

In 2020 at the Bermingham mine the following mine upgrades were completed: heater installed, booster fan installed underground, slashing of ramp floor completed to increase height of existing ramp for larger equipment, alimak chamber established for primary ventilation raise, and contractor getting set up, sump established at existing ramp bottom and cut-out for substation established.

In 2021, the mine ramp development will continue, as will mine water management. Production of ore is expected to commence in Q2 of 2021. Regular maintenance will continue to support safe production for this and subsequent years. Improvements and optimization of the mine water management and water treatment will continue to be evaluated, as mining proceeds and mine water inflows increase.



4 MILLING OPERATIONS

Mill operations did not occur in 2014 to 2019, but were resumed in 2020 with the commissioning of the mill by processing 310 tonnes of ore, which produced 257 tonnes of tailings. In 2020, Bellekeno ore was processed in short campaigns of less than 200 tpd in order to test the mill upgrades completed primarily in 2018. Concentrate was stockpiled on site in 2020 and shipping of concentrate began in January 2021.

5 WASTE MANAGEMENT

5.1 TAILINGS MANAGEMENT

Tailings were not generated from 2014 to 2019 as the mine was under temporary closure. In 2020, 257 tonnes of tailings were generated from the initial mill commissioning and placed in phase 1 of the DSTF.

5.2 WASTE ROCK MANAGEMENT

Waste rock was not generated in 2014, 2015, 2017 and 2019 under temporary closure. In 2016 there was 1,215 tonnes of waste rock produced from the development of the Flame & Moth portal. The N-AML waste rock generated was used to expand the laydown areas around the District Mill Site. In 2018, there was 18,857 tonnes of waste rock produced from further development of the Flame & Moth portal, which was all classified as N-AML by the Waste Rock Management Plan. In 2020, 11,084 tonnes of waste rock was generated from the development of Bellekeno (703 tonnes), Bermingham (4,544 tonnes) and Flame & Moth mines (5,837 tonnes). Waste rock at Bellekeno remained underground, while the N-AML waste rock from Bermingham and Flame & Moth were used to expand the portal pad and mill laydown area, respectively.

6 MONITORING

6.1 MONITORING AND SURVEILLANCE PLAN

Site environmental monitoring was carried out at the site in accordance with the *Monitoring and Surveillance Plan*. A revision to the Plan was submitted in October 2020. This updated plan included monitoring and surveillance to reflect requirements of the new Type A Water Licence QZ18-044 and also to reflect updates to other terrestrial monitoring (e.g. dust monitoring) which have been developed.

Water quality and groundwater monitoring have been carried out in accordance with the Type A Water License QZ18-044. Results of this monitoring are included in the Type A Water License 2020 Annual Report. Details can be seen in Appendix C1 of the QZ18-044 2020 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). Permafrost monitoring through geotechnical programs installed at the site of the future Non- acid-generating and/or metal leaching (N-AML) Waste Rock Disposal Area and the DSTF is monitored routinely by the engineers of record (Tetra Tech EBA Inc.) in accordance with the DSTF OMS Manual, which forms part of the DSTF Construction and Operation Plan.

6.1.1 Water Quality Surveillance Network

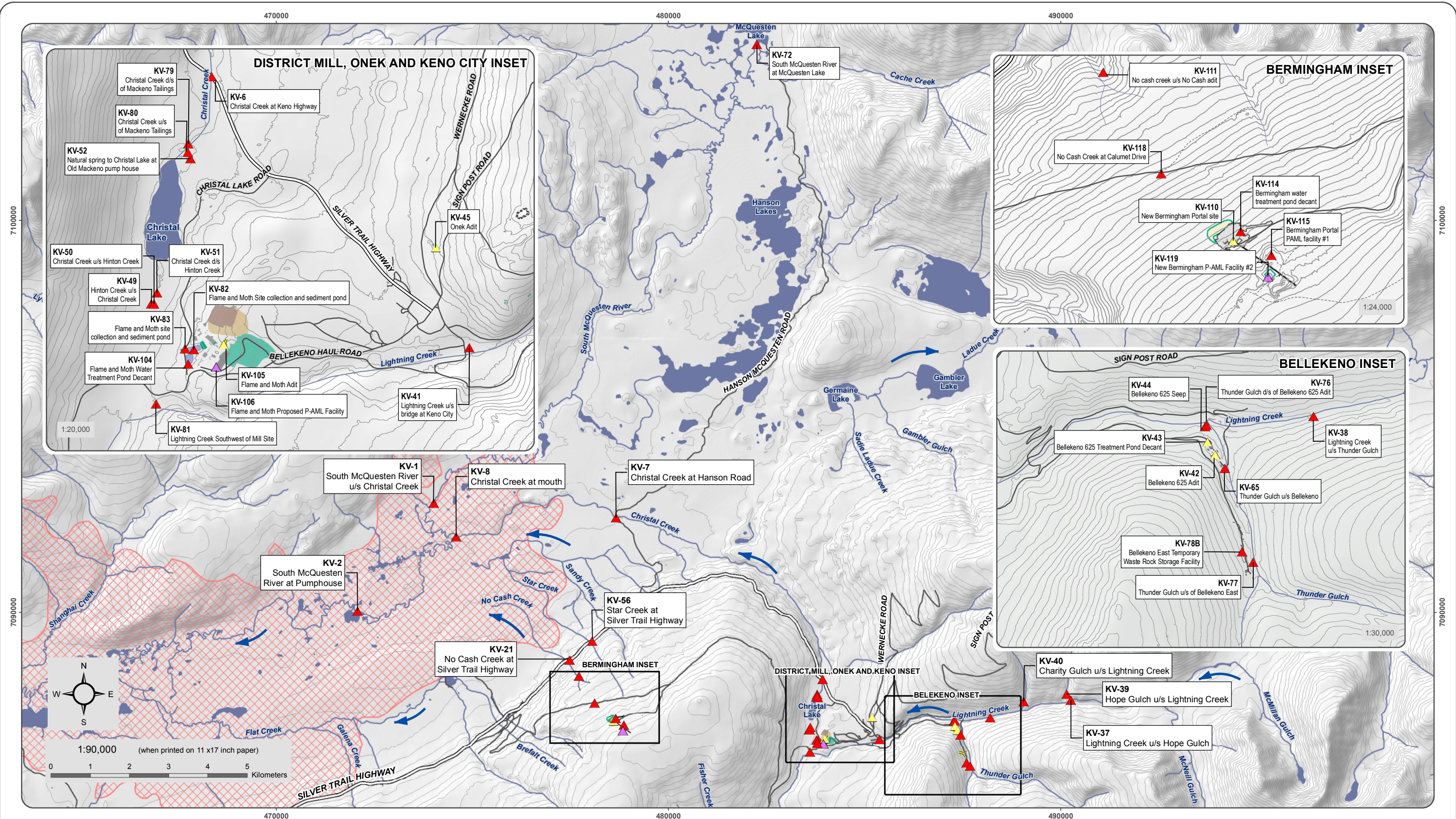
The existing water quality surveillance network for the KHSD Mining Operations includes surface receiving waters in the Lightning Creek and Christal Creek watersheds. Most of the monitoring stations have been sampled extensively in the past. Current water quality monitoring is required in these areas under Water Licence QZ17-076, and Water Licence QZ18-044. Results can be seen in the QZ18-044 2020 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). QZ18-044 surface and groundwater monitoring sites can be seen in Figure 6-1, and Figure 6-2.

6.1.2 Groundwater Surveillance Network

A groundwater monitoring plan for the KHSD has been developed under Water Licence QZ18-044. This program outlines monitoring locations and frequency for the Birmingham, Keno District Mill and Dry Stack Tailings Facility, Flame & Moth, and Keno City.

Groundwater wells are scheduled for monthly monitoring for both water level and quality for the first year, followed by quarterly sampling thereafter, for the duration of the project. 10 additional monitoring wells were installed in 2020 under the new Water Licence QZ18-044.

Results can be seen in the QZ18-044 2020 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). QZ18-044 groundwater monitoring locations can be seen in Figure 6-2.



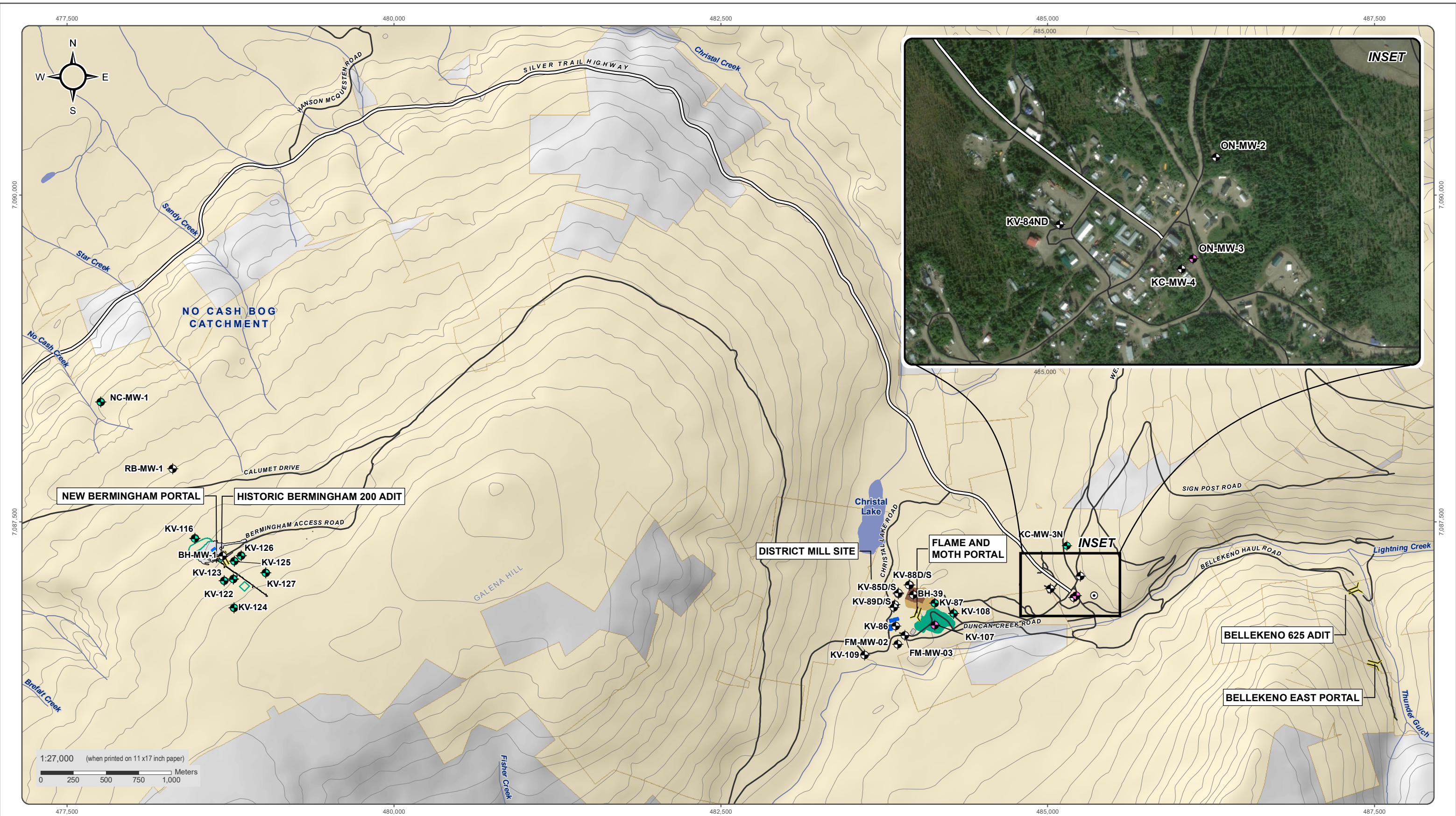
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- | | | |
|--------------------------------|------------------------------|---------------------------------|
| Adit Water Quality Station | Surface Water Flow Direction | Infrastructure Footprint |
| Surface Water Quality Station | Silver Trail Highway | Waterbody |
| Pending Water Quality Stations | Other Road | DSTF 322k Tonnes Design |
| Adit | Watercourse | Current DSTF |
| 2019 Forest Fire Extent | | To Be Constructed Mine Features |





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- Proposed Monitoring Well
- Monitoring Well
- Newly Installed Groundwater Monitoring Well
- Adit
- Infrastructure Footprint
- Pond
- DSTF 322k Tonnes Design
- Current DSTF
- To Be Constructed Mine Features

- Alexco/ERDC Quartz Claims
- Silver Trail Highway
- Other Road



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FIGURE 6-2

KHSD GROUNDWATER MONITORING LOCATIONS

MARCH 2021

D:\Project\AKHM\Keno_Area_Mines\ALL_SITES\02-Map\01_Overview\04-WO\GW\District\GW_monitoring_locations_District_AMP_20210218.mxd
(Last edited by: amallishanka 2021-03-17 09:17 AM)

6.1.3 Permafrost Monitoring

Geotechnical programs have identified areas of permafrost within operational areas of the project. Specifically, some permafrost was encountered beneath the proposed N-AML Waste Rock Storage Area (WRSA) and in the vicinity of the proposed DSTF. Ground temperature and permafrost monitoring is currently in place at these locations. Details on monitoring for the DSTF are included in the DSTF OMS manual, which forms a part of the *DSTF Development and Operations Plan*.

Locations are monitored routinely by the engineers of record (Tetra Tech EBA Inc.). Details on permafrost monitoring for the WRSA are included in the Mine Development and operations Plan.

Results of the 2020 permafrost monitoring can be seen in the Tetra Tech EBA Inc. monitoring report in Appendix A.

6.1.4 Physical Inspections

The purpose of the physical inspection is to observe and record sufficient information related to physical and water retaining structures to permit development of a course of action, repair or rehabilitation if it is required. Physical inspections are currently inspected under the *Physical Inspections and Reporting Plan* prepared for Water Licence QZ18-044. Results of these inspections are presented in Appendix A.

6.1.5 Meteorological Monitoring

As part of closure planning studies, a meteorological station was established on Galena Hill in summer 2007 by Alexco. The station measures air temperature, relative humidity, barometric pressure, rainfall, wind speed and direction, solar radiation, and soil temperature. As a condition of Type A Water Licence QZ18-044, a second meteorological station and snow course was established at the Keno District Mill site. The location of the mill site weather station is shown on Figure 6-3. A YG monitored snow course station also exists in the area. An analysis of the meteorological monitoring data results can be seen in the QZ18-044 2020 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline).

6.1.6 Noise Impacts and Sound Monitoring

The objective of noise impact monitoring was to reduce and mitigate impacts to local residents and the environment resulting from noise produced during the development and operations of the Bellekeno Mine and Keno District Mill. To achieve this goal, AKHM identified potential noise sources and receivers in the *Noise Monitoring and Management Plan*, and will continue to do so during development and production as a part of monitoring. Details can be found in the *Noise Monitoring and Management Plan* submitted under QML-0009. An update to this plan was approved on March 19, 2013, and includes potential noise impact associated with the development of the Lucky Queen and Onek 990 Mines. An updated version was submitted to YG in February 2021.

As identified in the 2011 review of the data collected from 2009 to 2011 (submitted in the 2011 QML Annual Report) no significant noise impacts (defined as exceedances of daytime or nighttime noise levels as recommended in the *Decision Document*) have been observed in Keno City as a result of operations. With the approval for development of the Lucky Queen and Onek 990 Mines in November 2012 and the updated *Noise*

Abatement Plan for 2013, noise monitoring at newly identified sites commenced in 2013. The results for the Noise Monitoring Program up to 2020 are presented in Appendix B.

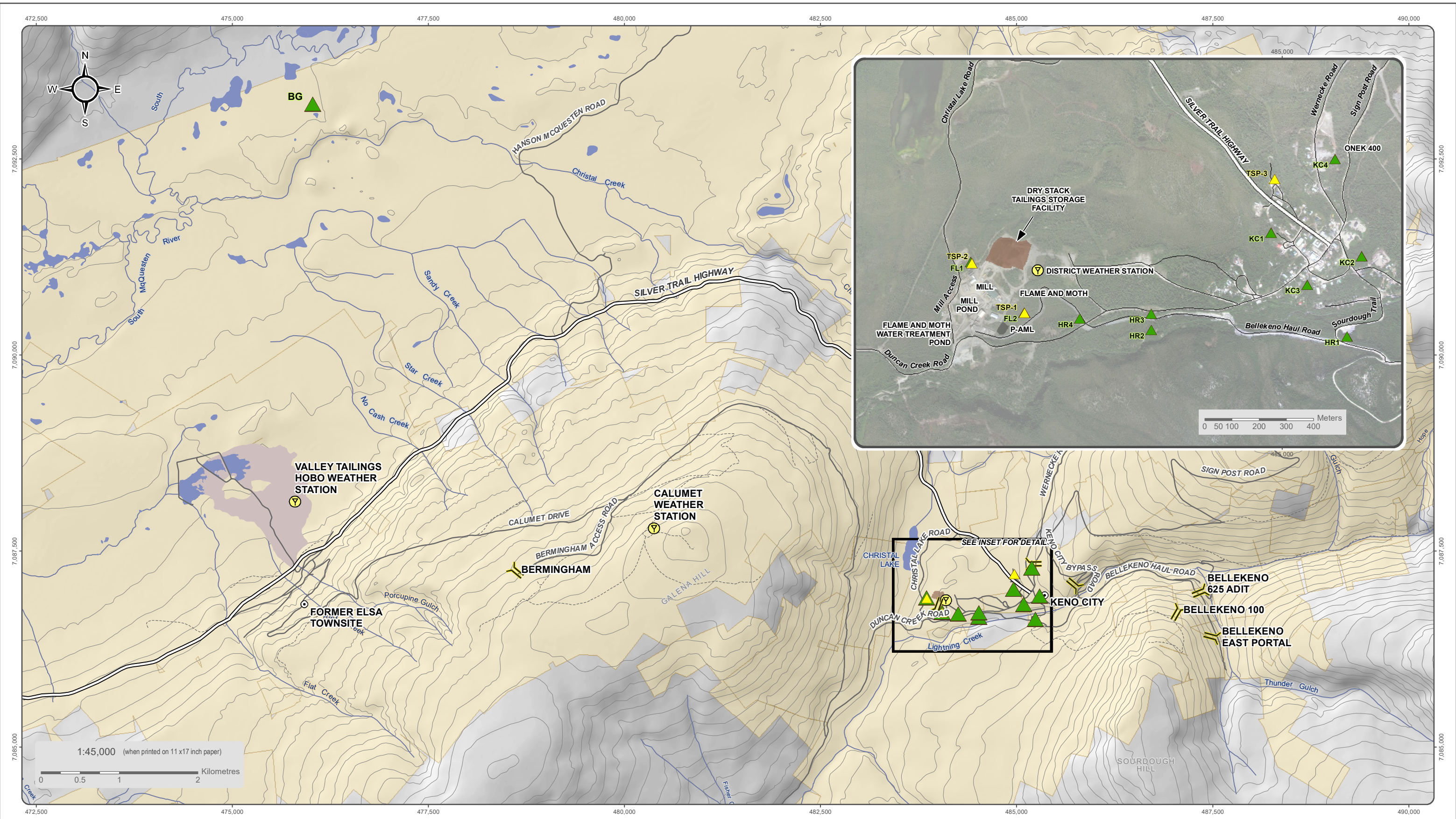
6.1.7 Dust Abatement and Monitoring

In accordance with Clause 69 of the Decision Document for the assessment for the Bellekeno Mine Project (Yukon Environmental and Socio-Economic Assessment Board [YESAB] File Number 2009-0030), dustfall monitoring stations were installed at four locations near the Keno District Mill site. Bergerhoff dust monitoring gauges were selected as the appropriate instrumentation to carry out this program. At the time of installation, the Yukon had not yet developed the *Ambient Air Quality Standards*.

The Bergerhoff deposit dust gauge is designed to measure dust deposition, which can be reported as a weight per unit area over unit time. These results are comparable to the *Ambient Air Control Objectives in the Pollution Control Objectives for the Mining, Smelting and Related Industries of BC* (1979), which provides an acceptable range of 1.7 to 2.9 mg/(dm²*d).

As a result of the updated Monitoring and Surveillance Plan Revision, as well as the development of the *Yukon Ambient Air Quality Standards*, two Total Suspended Particulate (TSP) monitoring devices were installed near the Keno District Mill site and one in Keno City. After a thorough investigation of both continuous duty (real-time) constant flow air monitoring systems and discrete (gravimetric) samplers, the BGI OMNI sampler was chosen as the most appropriate instrument. TSP, PM₁₀ and PM_{2.5} results have been compared to the *Yukon Ambient Air Quality Standards*. The details of the air quality monitoring is detailed in the Dust Abatement and Monitoring Plan most recently updated and submitted to YG for review in February 2021.

In addition to TSP, PM₁₀ and PM_{2.5} monitoring using the BGI OMNI samplers, samples from the TSP filters were analyzed for total metals. The metal speciation data from the TSP filters have been compared against the Ontario Ambient Air Quality Criteria and are presented in Appendix C. The complete 2020 monitoring results can be seen in Appendix C. Dust control measures including dust suppression of haul roads, mill site, and DSTF continue on an as-needed basis throughout the year. Mill site layout with locations of TSP monitoring instruments currently in place are shown on Figure 6-3.



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- Alexco TSP Monitoring Stations
- YG PM10 Monitoring Sites 2013
- Weather Station
- Adit

- Mine Feature Footprint
- Current DSTF
- Alexco/ERDC Quartz Claims
- Waterbody

- Watercourse
- Silver Trail Highway
- Other Road
- Limited-Use Road



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FIGURE 6-3
METEOROLOGICAL AND
AIR QUALITY MONITORING STATIONS LOCATION

MARCH 2020

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6.1.8 Waste Rock Monitoring

All waste rock management facilities are subject to monitoring for physical and geochemical stability (acid rock drainage or metal leaching). A complete Waste Rock Management Plan was attached to the Construction Site Plan Revision 1 and includes detailed descriptions of waste rock monitoring and mine wall testing. This plan was submitted as part of the QML-0009 2010 Annual Report submitted in June 2011. This plan was revised and approved in 2013 to include the Lucky Queen and Onek 990 Mines. The plan was updated for Flame & Moth and revision 5 of the plan was approved as part of the amended QML for Flame & Moth. An updated waste rock management plan was submitted in October 2020 under Water Licence QZ18-044 to include the Bermingham mine.

No new waste rock was generated in 2014 to 2015, 2017 and 2019, therefore no new monitoring was conducted during 2019. In 2016, 1,215 tonnes of waste rock was produced as part of the collaring of the Flame & Moth portal and was characterized as N-AML. In 2018, 18,587 tonnes of waste rock was produced at the Flame & Moth portal and was characterized as N-AML. In 2019 no waste rock was generated. In 2020, 11,084 tonnes of waste rock was generated. All waste rock was field screened as N-AML.

6.1.9 Environmental Effects Monitoring

AHKM prepared the first study design for the Environmental Effects Monitoring (EEM) program required under the federal Metal and Diamond Mining Effluent Regulations (MDMER) and submitted in September 2011. The first round of EEM program was completed in 2012 with the EEM interpretive report for Bellekeno completed and submitted in March 2013. Sub-lethal toxicity testing of effluent from the BK625 treatment pond decant was conducted during 2012 and no significant adverse effects were noted during these tests. The results for the first cycle of EEM were presented in the 2012 annual report. The second EEM cycle study was completed in 2015 and the results were presented as Appendix D of the 2015 annual report. Cycle 3 of the EEM was undertaken in 2018 and the interpretive report was submitted to Environment Canada and Climate Change in 2019. No EEM studies were required in 2019 and 2020, and the next EEM study will be completed in 2021.

6.1.10 Wildlife Monitoring Plan

The Keno Hill Silver District, including Elsa, the Silver Trail Highway, District Mill, Bellekeno, Flame & Moth, and Bermingham Mine sites, and all associated haul roads are frequented by natural wildlife in the area. This wildlife includes fox, bear, moose, wolverine, rabbit, lynx, and a number of other species of animal and birds. Wildlife encounters are recorded in a log located in the Elsa Administration Office. The most common sightings involved moose, fox, as well as both black and grizzly bears in 2013. Other less common sightings involved lynx, and wolves.

Any encounters between vehicles and wildlife are reported to both the Safety and Environmental departments for documentation and if required, incident investigation. 2014, 2015, 2016, 2017, 2018 and 2019 saw no encounters between AKHM vehicles and wildlife. No wildlife encounters were reported in 2020.

6.1.11 Traffic Management

The Bellekeno haul road crosses two public roads in the Keno City area, both Duncan Creek road and the access to the Sourdough Trail. Mine traffic has been redirected around Keno City to ensure that direct ore haulage traffic is routed around the community, effectively minimizing impact on the local community. This road

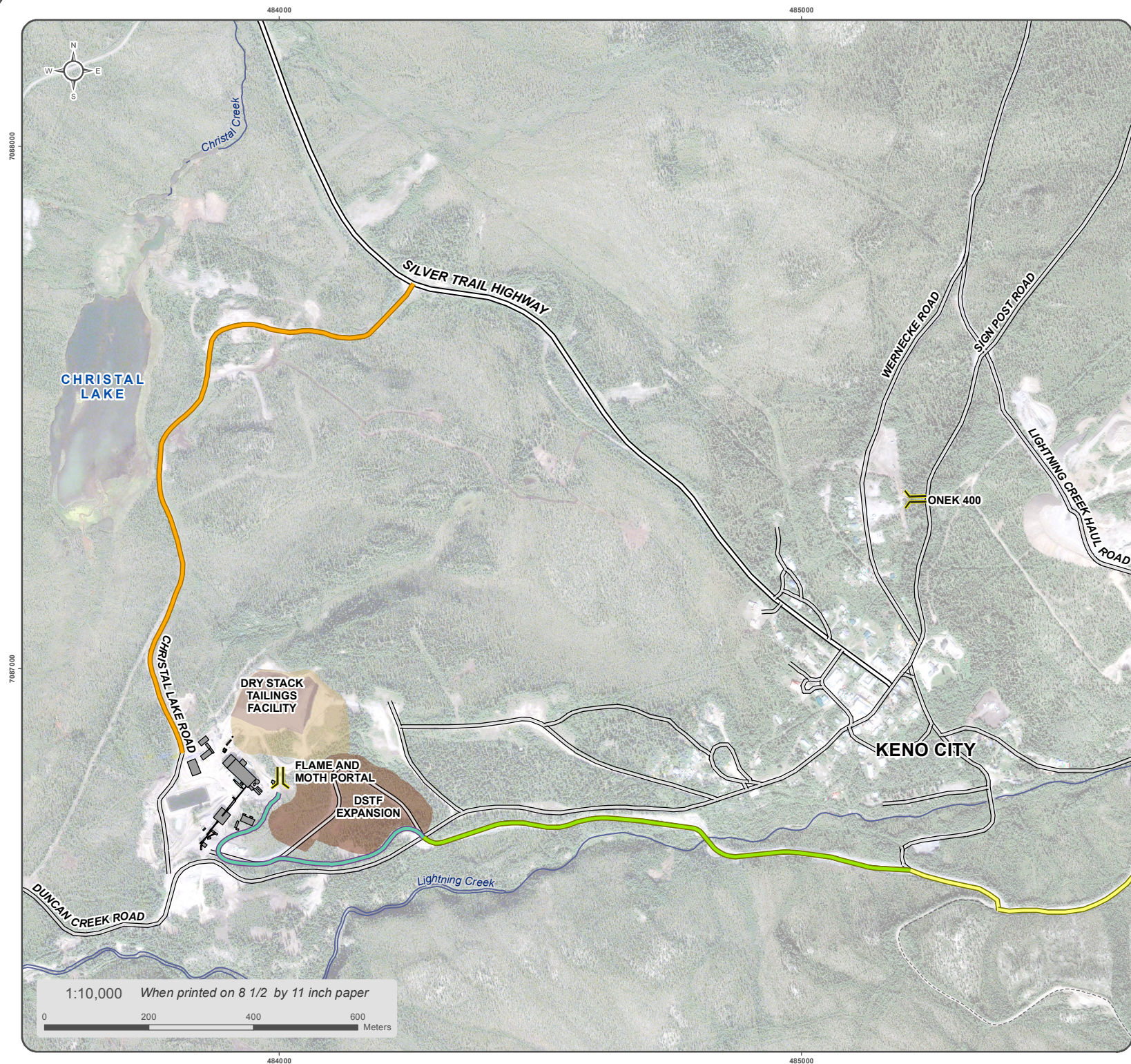
consists of two portions, the Bellekeno Bypass North, which ensures all mill traffic and concentrate haul will bypass Keno City via Christal Lake Road, and the Bellekeno Bypass South which connects the Sourdough Trail on the south side of Lightning Creek to the Duncan Creek Road across Lightning Creek. Figure 6-4 shows the routing of traffic around the community along the Bellekeno Haul Road.

The traffic routing for the Bermingham mine to the District Mill includes the Bermingham Access Road, Calumet Drive and a portion of the Duncan Creek Road (Figure 6-5).

Figure 6-4

BELLEKENO BYPASS ROAD

JULY 2018



Adit/Portal

Bellekeno Haul Road

Bellekeno Project Bypass Road North

Bellekeno Project Bypass Road South

Proposed Haul Road

Silver Trail Highway

Road

Limited-Use Road

Existing Building

DSTF 322k Tonnes Design

Current DSTF

DSTF Phase II Expansion

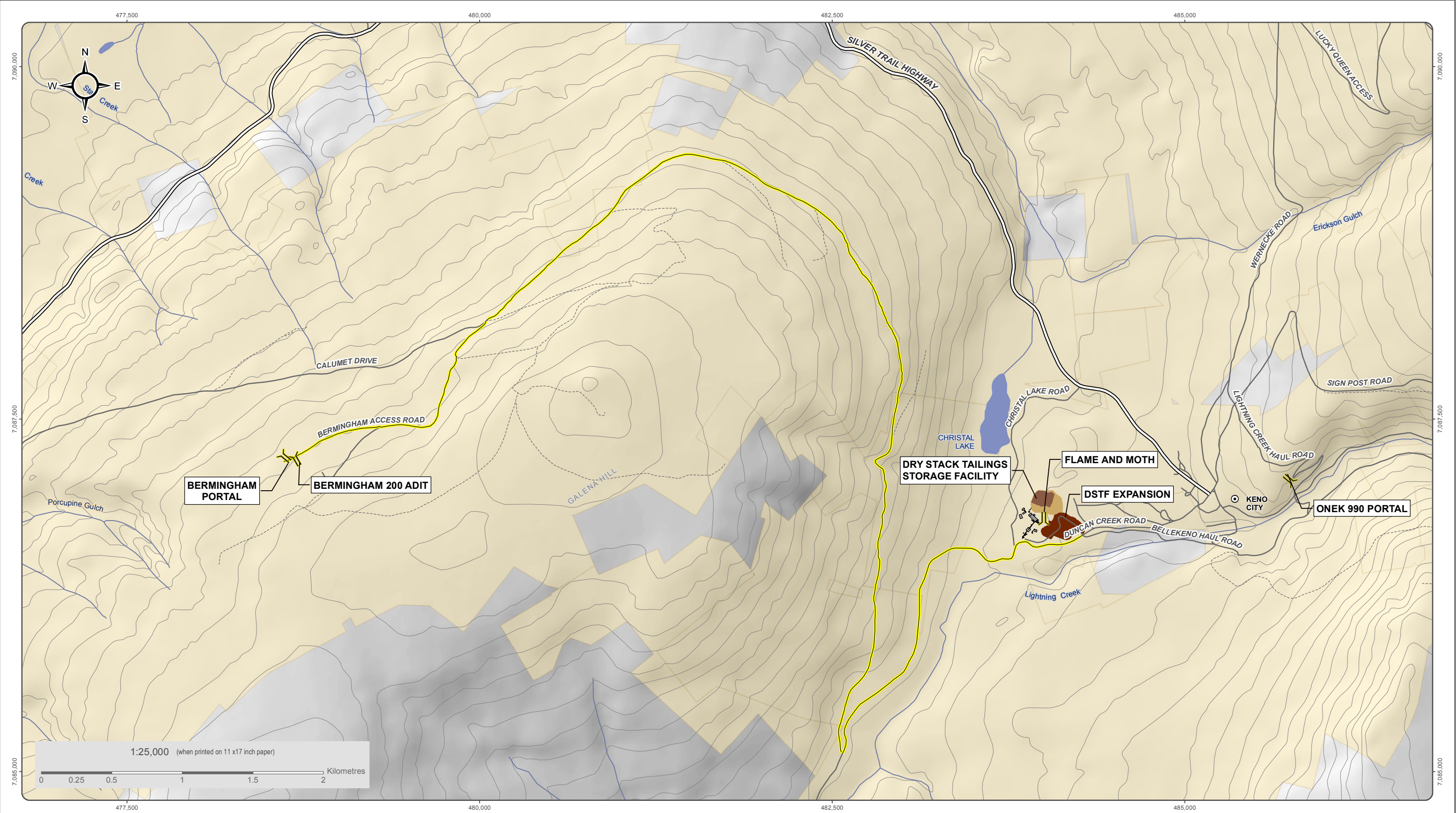
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- Place of Interest
- Adit
- Alexco/ERDC Quartz Claims

- DSTF 322k Tonnes Design
- Current DSTF
- DSTF Phase II Expansion

- Waterbody
- Watercourse
- Silver Trail Highway
- Other Road
- Limited-Use Road



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Figure 6-5

TRAFFIC ROUTING AND TRAFFIC MANAGEMENT – BERINGHAM MINE

SEPTEMBER 2017

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6.2 ADAPTIVE MANAGEMENT PLAN

Pursuant to Clause 90 and Clause 91 of QZ09-092, Alexco developed a Bellekeno *Adaptive Management Plan*, which was submitted to Yukon Water Board in April, 2011. This plan was based on the framework established by the District Wide Adaptive Management Plan, but was customized for the specific activities and developments of the Bellekeno Undertaking. The Adaptive Management Plan was updated in 2013 to include the Onek 990 and Lucky Queen Mines. The Adaptive Management Plan was updated to include Flame & Moth in 2018. No adaptive management activities were undertaken during 2014 to 2020. The Adaptive Management Plan was updated to include Bermingham mine and the most recent version was submitted in October 2020 under the renewed Water Licence QZ18-044.

Reporting for the AMP including a summary of any adaptive management triggers and actions was prepared for the Water Licence QZ18-044 2020 Annual Report. The QZ18-044 2020 Annual Report is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline).



7 UNAUTHORIZED DISCHARGE

7.1 REPORTABLE SPILLS

No reportable spill occurred in 2020. Minor spills that occurred in 2020 have been documented as part of the monthly reports submitted as part of Water Licence QZ18-044.

7.2 PERMIT EXCEEDANCES

There were 17 Water Licence exceedance during 2020 relating to Bellekeno mine, Flame & Moth mine and Bermingham mine discharge effluent quality standards, The exceedances are discussed further in the 2020 Annual Water Licence Report.

8 CARE AND MAINTENANCE AND RECLAMATION

The care and maintenance activities at the Keno Hill District are the primary objective of Water License QZ06-074, which was renewed for five years and issued as QZ12-057 and renewed as QZ17-076. The purpose of this license is to obtain water, divert water, store water, and to deposit waste for the purpose of care and maintenance activities for the Keno Hill Mines Property.

Information and analyses pertaining to the Bellekeno Mine, Flame & Moth Mine, Bermingham Mine and District Mill areas have been fully developed through Water Licence QZ18-044.

8.1 CARE AND MAINTENANCE ACTIVITIES

Prevention of environmental degradation within the Keno Hill Silver District is accomplished largely by the daily operation of lime-addition water treatment systems existing at Galkeno 900, Galkeno 300 and Silver King 100. The Valley Tailings Facility is also treated on an as-required basis during spring and early summer. Care and Maintenance activities and performance monitoring (i.e. water quality monitoring) is undertaken by Elsa Reclamation and Development Company Ltd. (ERDC), using on-site laboratory facilities for daily and weekly water quality analysis. Monitoring of surface and groundwater sites as well as physical conditions is completed as per Water Licence monitoring schedules.

A detailed discussion of these results and other Care and Maintenance activities can be found in 2020 Annual Water Licence report submitted to the Yukon Water Board as per Water Licence QZ17-076 in March 2021.

8.2 RECLAMATION ACTIVITIES

Progressive reclamation of the DSTF was initiated during the summer of 2012 as presented in the *Reclamation and Closure Plan* to prevent potential dusting and erosion of exposed tailings slopes. Final slope and bench elevations were reached on the west toe of the DSTF, allowing final reclamation to begin.

The progressive reclamation included four areas (block A, B, C, & D) on the DSTF which were covered with granular/organic material and seeded to test various cover trials. The cover material was local material that had been cleared and stockpiled during the initial construction of the Keno District Mill. The seed material (Keno District Dry Land Seed Mix) was selected using a blend of suitable species seeded at the Brewery Creek and Minto Mine sites also located in the Yukon. Additional slopes were contoured in 2013 for preparation of progressive reclamation that completed in 2014 including covering portions of the DSTF and seeding the cover. In 2015, further progressive reclamation activities were completed for the DSTF cover, which expanded the cover over the majority of the DSTF (Figure 2-3).

9 REFERENCES

- Alexco Resource Corp., *Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2*, Yukon, Canada, 2014
- Alexco Resource Corp., *Updated Preliminary Economic Assessment for the Eastern Keno Hill Silver District Project – Phase 2*, Yukon, Canada, 2013a
- Alexco Resource Corp., *Updated Technical Report on the Flame & Moth Deposit, Flame & Moth Property, Keno Hill District*, Yukon, 2013b
- Alexco Resource Corp., *Technical Report on the Onek Deposit, Onek Property, Keno Hill District*, Yukon, 2011
- Canadian Institute of Mining, *Estimation of Mineral Resource and Mineral Reserves Best Practices Guidelines*, 2003
- Roscoe Postle Associates Inc., *Technical Report Preliminary Economic Assessment of the Keno Hill Silver District Project*, Yukon Territory, Canada, 2017
- SRK Consulting, *Technical Report on the Bermingham Deposit, Bermingham Property, Keno Hill District*, Yukon, 2012
- SRK Consulting, *Technical Report on the Lucky Queen Deposit, Lucky Queen Property, Keno Hill District, Yukon. SRK Project 2CA017.001*. Prepared for Alexco Resource Corporation, September 8, 2011a.
- SRK Consulting, *Technical Report on the Onek Deposit, Onek Property, Keno Hill District, Yukon. SRK Project 2CA017.001*. Prepared for Alexco Resource Corporation, September 8, 2011b.

APPENDIX A

2020 ANNUAL PHYSICAL INSPECTION



November 17, 2020

Alexco Keno Hill Mining Corp.
Suite 1225 – 555 Burrard St.
Vancouver, BC
V7X 1M9

ISSUED FOR USE
FILE: 704-ENG.WARC03869-01
Via Email: lbroughton@alexcoresource.com

Attention: Linda Broughton – V.P. Technical Services

Subject: 2020 Annual Geotechnical Inspection – Mining Related Structures
Bellekeno Mine – Keno City, YT

1.0 INTRODUCTION

NND-EBA Land Protection Corp. operating as NELPCo Limited Partnership (NELPCo) was retained by Alexco Keno Hill Mining Corp. (Alexco) to complete the 2020 annual geotechnical inspection of structures related to development of the Bellekeno Mine near Keno City, Yukon. NELPCo is a limited partnership corporation owned by the NND Development Corporation (NNDDC) and Tetra Tech Canada Inc. (Tetra Tech). The inspection was conducted by Tetra Tech, NELPCo's exclusive engineering services provider. Authorization to complete this work was received by way of an Alexco purchase order (PO #23491) dated August 11, 2020.

2.0 SCOPE OF SERVICES

The following is Tetra Tech's scope of services for the 2020 annual inspection as was presented in the email submitted to Alexco on July 23, 2020:

- Complete a visual inspection of the earth structures identified by Alexco, which includes:
 - Bellekeno Mine
 - Potentially acid generating (PAG) waste storage facility;
 - Bellekeno Road waste rock pile;
 - Bellekeno 625 water treatment ponds;
 - Lightning Creek Bridge abutments (Bellekeno);
 - Lightning Creek Bridge abutments (Onek);
 - Mill water storage ponds; and
 - Dry Stacked Tailings Facility (DSTF).

The location of these structures is shown on Figure 1.

The work was also to include readings of the slope indicators and thermistor cables that are still operational within and around the dry stacked tailings facility.

Finally, an inspection report was to be prepared that documents the results of the inspection, including a summary of the stability, integrity, and status of all inspected structures, and any recommendations for remedial actions.

3.0 INSPECTION SUMMARY AND RECOMMENDATIONS

The 2020 annual inspection was completed by Taylor Pasloski, P.Eng. on August 18, 2020 in the company of Don Curry. The following sections summarize observations for each structure and describe remedial actions required to improve stability, if necessary. The recommended remedial actions have been separated into geotechnical stability concerns and ongoing facility maintenance issues to assist in the prioritization of remedial efforts. Select photographs taken during the inspection are included where appropriate.

3.1 Bellekeno Mine

3.1.1 PAG Waste Facility

The PAG waste storage facility is located south of the Bellekeno portal, as shown on Figure 1. The facility has not been used since mining operations were suspended in 2013, but currently contains some volume of waste rock. At the time of the inspection, the perimeter berms appeared intact with no visible sign of instability (Photo 1). No remedial action is required.



Photo 1 - Bellekeno PAG Storage Facility (August 18/20)

3.1.2 Bellekeno Road Waste Rock Pile

The Bellekeno waste rock pile forms a portion of the Bellekeno Haul Road and is located north of the Bellekeno portal, as shown on Figure 1. At the time of the inspection the side slopes of the waste rock pile appeared to be intact and stable. No remedial action is required.



Photo 2 – Bellekeno Road Waste Rock Pile/Haul Road (August 18/20)

3.1.3 Bellekeno 625 Water Treatment Ponds

The Bellekeno 625 water treatment ponds are located north of the Bellekeno 625 portal, as shown on Figure 1. The facility consists of two water treatment ponds that were both operating at the time of inspection. The primary treatment pond was operating at the discharge invert elevation with a freeboard of 0.5 m below the perimeter berm crest at the time of the inspection. The secondary pond was also operating at the discharge elevation, with a freeboard of 0.5 m in the south end. Treated water discharges through an HDPE pipe onto the hillside above Lightning Creek. A small rip in the liner was identified at the south end crest of the secondary pond, above and outside the water pond. The rip appeared to be caused by equipment operating around the pond and should be monitored and repaired if conditions worsen and it could potentially affect pond water containment.



Photo 3 - Bellekeno 625 Water Treatment Ponds (August 18/20)

The pipe from the treated water pond discharges directly onto the natural soils above Lightning Creek without any protection from erosion. The discharge pipe was still unhooked at a coupler upstream from the original discharge location. The outlet of the pipe has subsided into the ground and only the top half of the pipe was exposed, and the ground was starting to erode. The pipe should be elevated or moved so that the outlet is unobstructed. If further erosion takes place, riprap armouring must be installed.



Photo 4 - Bellekeno 625 Water Treatment Ponds, Discharge Location (August 18/20)

3.1.4 Lightning Creek Bridge Abutments (Bellekeno Haul Road)

The Lightning Creek Bridge on the Bellekeno Haul Road is located southwest of Keno City, as shown on Figure 1. The bridge is a single span steel structure with a wooden deck founded on earthfilled timber cribbed abutments. The abutments were stable at the time of the inspection and are sufficiently protected by riprap armouring from erosion of Lightning Creek.

As identified in the previous year's inspection, the approaches and safety berms have undergone erosion and are starting to become undermined by washout. It is recommended that the eroded areas be backfilled with coarse rock and the berms built up to maintain stability. Debris (tires, etc.) accumulated on the downslope side should be removed before backfilling. If coarse rock is used for the safety berm surface drainage would not be impeded, but it must be directed so that the berm is not eroded away.



Photo 5 - Bellekeno Haul Road, Approach Erosion (August 08/20)

3.1.5 Lightning Creek Bridge Abutments (Onek Road)

The Lightning Creek Bridge on the Onek Road is located east of Keno City, as shown on Figure 1. The bridge is a single span steel structure founded on earth filled timber cribbing abutments. The abutments were stable at the time of the inspection and are sufficiently protected from erosion by riprap, as shown in Photo 6 below. No remedial action is required for the Lightning Creek Bridge on the Onek Road at this time.



Photo 6 - Lightning Creek Bridge Abutments, Onek Road (August 18/20)

3.1.6 Mill Water Storage Ponds

The two mill water storage ponds are located at the Keno Hill District Mill Site, west of Keno City, as shown on Figure 1. At the time of the inspection the mill was not operating, but both ponds contained some water, with a freeboard of about 2 m below the perimeter berms in the older pond, and an estimated 6 m of freeboard in the newer pond. No remedial action is required for these ponds.



Photo 7 - Mill Water Storage Ponds (August 18/20)

The access road on the west side of the ponds has shown signs of erosion in three areas. The berms on the road should be restored to direct drainage away and reduce further erosion, and the safety berms should be restored. If necessary, surface drainage should be directed in a controlled manner to a riprap protected half-culvert down the slope.



Photo 8 - Mill Storage Ponds, Access Road Erosion (August 18/20)

3.1.7 Dry Stacked Tailings Facility

The dry stacked tailings facility (DSTF) is located at the Keno Hill District Mill Site west of Keno City, as shown on Figure 1. No tailings have been placed on the DSTF since mining operations were suspended in 2013. The tailings placed to date have been regraded, covered with organic materials and glacial till, then seeded as part of the progressive reclamation activities.

Marker posts previously installed at BH37 and BH40 to identify instrument locations were knocked down and should be re-installed.

Several tension cracks on the DSTF surface that were observed last year have been repaired by shallow excavation, backfilled with the excavated material capped with glacial till, and then compacted with the backhoe bucket. The location of the cracks is shown on Figure 1. All of these locations should continue to be monitored and repaired as necessary over the year so that the potential for water ingress into the DSTF is reduced. Ideally, the repairs should be capped higher than the surrounding terrain to keep surface runoff water away.

It is recommended that the locations of all these tension cracks be mapped, and new locations (if any), along with associated photographs, be added to an annual survey and submitted to the geotechnical engineer. The annual survey should be done in the spring, prior to any repairs.



Photo 9 – DSTF Surface Showing some Repaired Tension Cracks (August 18/20)

The diversion ditch around the side and base of the DSTF was cleaned out, but in the process the slope of the DSTF was locally increased. This area should be monitored for stability and erosion, and then repaired as required. The placement of riprap armouring in the ditch would assist in slowing runoff water velocity and minimizing future erosion/transport of tailings down the ditch.



Photo 10 - DSTF Diversion Ditch (August 18/20)

3.1.8 Instrumentation

Performance of the DSTF is monitored by taking regular readings on the instrumentation installed during and after construction. DSTF instrumentation consists of seven ground temperature cables installed to monitor permafrost (six in natural soils adjacent to the DSTF and one through tailings placed within the DSTF footprint), and three slope indicators installed to monitor lateral movement of the foundation soils. The locations of installed DSTF instrumentation are shown on Figure 2.

It should be noted that some critical instrumentation located within and adjacent to the DSTF is in need of repair and/or replacement. As further described below, the ground temperature cable in the centre of the DSTF (BH40) is the most critical of these installations and must be replaced as soon as a drill is available.

3.1.8.1 Background Ground Temperature Readings

Updated ground temperature readings were collected from five of the six ground temperature cables installed in natural soils adjacent to the DSTF during the inspection. Readings were not collected from BH17 as the protective steel casing has been damaged, making the ground temperature cable inaccessible. The protective casing should be repaired or removed to allow for instrumentation readings.

As indicated on the updated ground temperature profiles included in Appendix B, the ground temperatures near surface have stabilized. Ground temperature at depth have indicated that ground temperature has decreased over the last few years. Some of the beads on ground temperature cables indicating temperatures less than -3°C may

have been compromised and continued annual instrumentation readings are recommended to monitor ground temperature conditions.

The ground temperature cable installed in BH40, which extends through the tailings and into the foundation soils below to DSTF has been damaged and requires replacement. This is a critical installation needed to confirm design assumptions and provide ongoing temperature monitoring.

Access to BH15 and BH18 has overgrown with vegetation over the years and should be cleared to allow access for future monitoring.

3.1.8.2 Slope Indicator Readings

An updated lateral movement profile developed from readings collected from the slope indicators installed in BH36 and BH38 in natural soils adjacent to the DSTF is included in Appendix C. Lateral movement that ranged from 50 mm to 80 mm was identified in BH38. Tetra Tech does not consider this movement to be of concern at this time, but annual monitoring should continue.

BH36 has also shown approximately 0.2 m of lateral displacement starting about 4 m below surface along the B-axis of the slope indicator (strike direction of the DSTF) since it was originally installed. Alexco has excavated an area to the north west of the slope indicator to use as a laydown area. The movement identified in BH36 is in the direction of the laydown, and the displacement is considered as “creep” (or relaxing) of the soil towards the excavation. The movement is not a concern at this time, but annual monitoring should continue.

Ice accumulated at the bottom two metres of BH38 and should be cleaned out and preserved using liquid suitable for use in permafrost conditions. The slope indicator located at BH28 is blocked and was not recorded. This instrument has been non-operational for several years and should be replaced.

4.0 CONCLUSION AND RECOMMENDATIONS

The structures inspected pose no significant risk to the environment or human health and safety in their current condition. The remedial actions recommended in the previous sections of this report are summarized in Table 1.

Table 1 - Summary of Remedial Recommendations

Structure	Stability Recommendations	Maintenance Recommendations
BELLEKENO		
PAG Waste Storage Facility	None	None
Bellekeno Road Waste Rock Pile	None	None
Bellekeno 625 Water Treatment Ponds	None	- Small rip on northeast corner of secondary pond from equipment. Monitor the rip and repair if it gets worse; - Discharge line unhooked at coupler. Lift or move discharge hose to clear outlet. Monitor erosion and place riprap if required.
Lightning Creek Bridge Abutments (Bellekeno Haul Road)	None	Remove debris on slope. Reconstruct safety berms to protect the edge of the bridge deck and the top of the abutments from surface water erosion.
Lightning Creek Bridge Abutments (Onek Road)	None	None
Mill Water Storage Ponds	None	Access road erosion located at three spots on the west side. The safety berm should be restored to direct surface water drainage to an armoured location.
Dry Stacked Tailings Facility	- Repair or remove casing at BH17 to allow for ground temperature mentoring; - Install a new ground temperature cable to replace damaged cable at BH40; - Purge and clean BH38 and preserve using liquid suitable for use in permafrost conditions (silicone oil); - Replace the slope indicator located at BH28;	- Annual spring survey and photographs of tension cracks, prior to repairs - Continue annual instrumentation readings to monitor DSTF foundation conditions; - Restore marker posts on top of DSTF (mainly BH40 and BH37); and - Trim vegetation for future access to BH15 and BH18. - Monitor containment ditch slopes

5.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Alexco Keno Hill Mining Corp. and their agents. NELPCo Limited Partnership (NELPCo) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Alexco Keno Hill Mining Corp., or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this document is subject to the Limitations on the Use of this Document attached in the Appendix or Contractual Terms and Conditions executed by both parties.

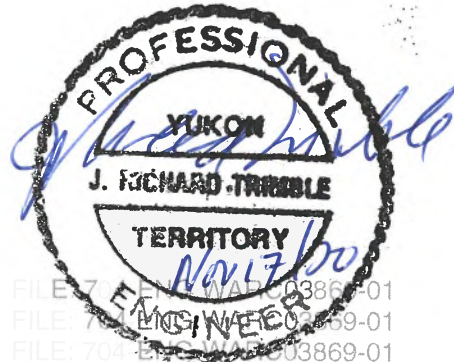
6.0 CLOSURE

We trust this document meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
NELPCo Limited Partnership



Prepared by:
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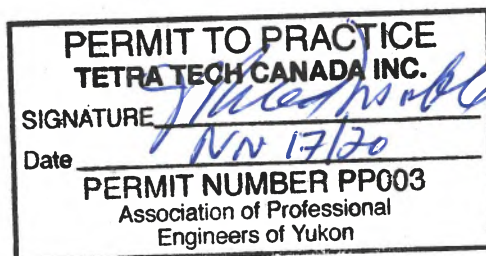


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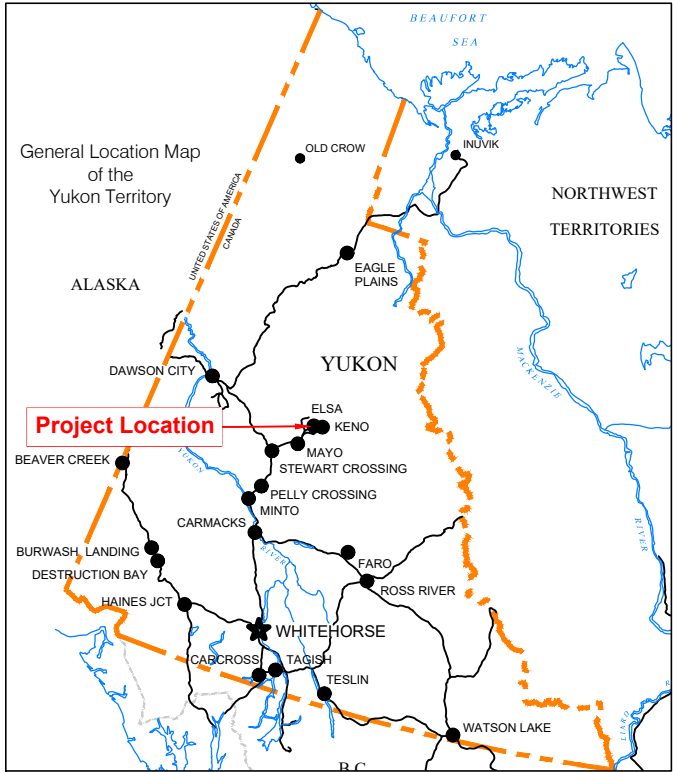
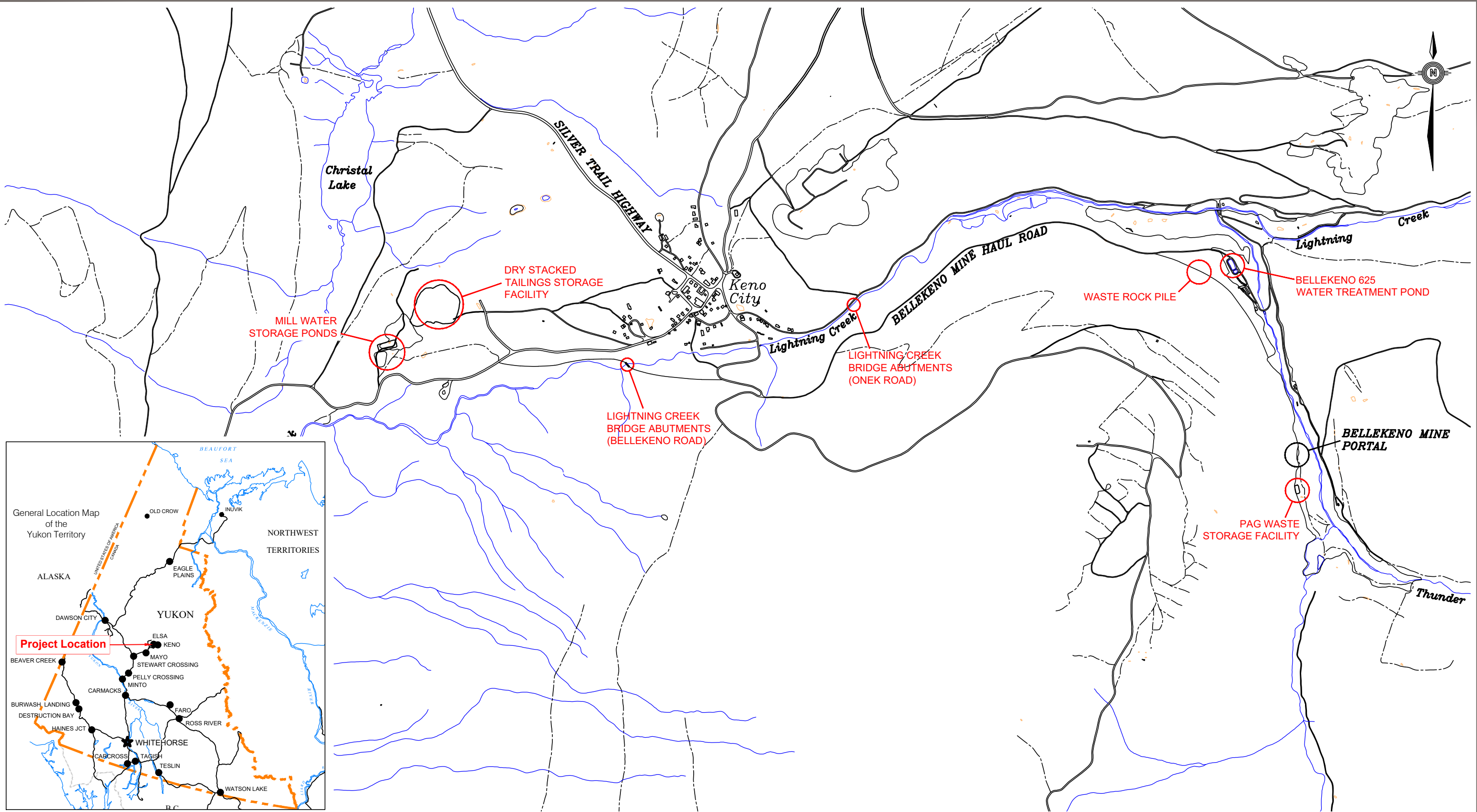
- Figure 1 – Site plan showing structure locations
- Figure 2 – Site plan showing borehole and instrument locations
- Appendix A – NELPCo's limitations on the use of this document
- Appendix B – Ground temperature readings
- Appendix C – Slope indicator readings



FIGURES

Figure 1	Site Plan Showing Structure Locations
Figure 2	Site Plan Showing Borehole and Instrument Locations

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Scale: 1:15,000 @ 11"x17"

NOTES
CONTOUR INFORMATION IS BASED ON DRAWING
PROVIDED BY ALEXCO RESOURCE INC.

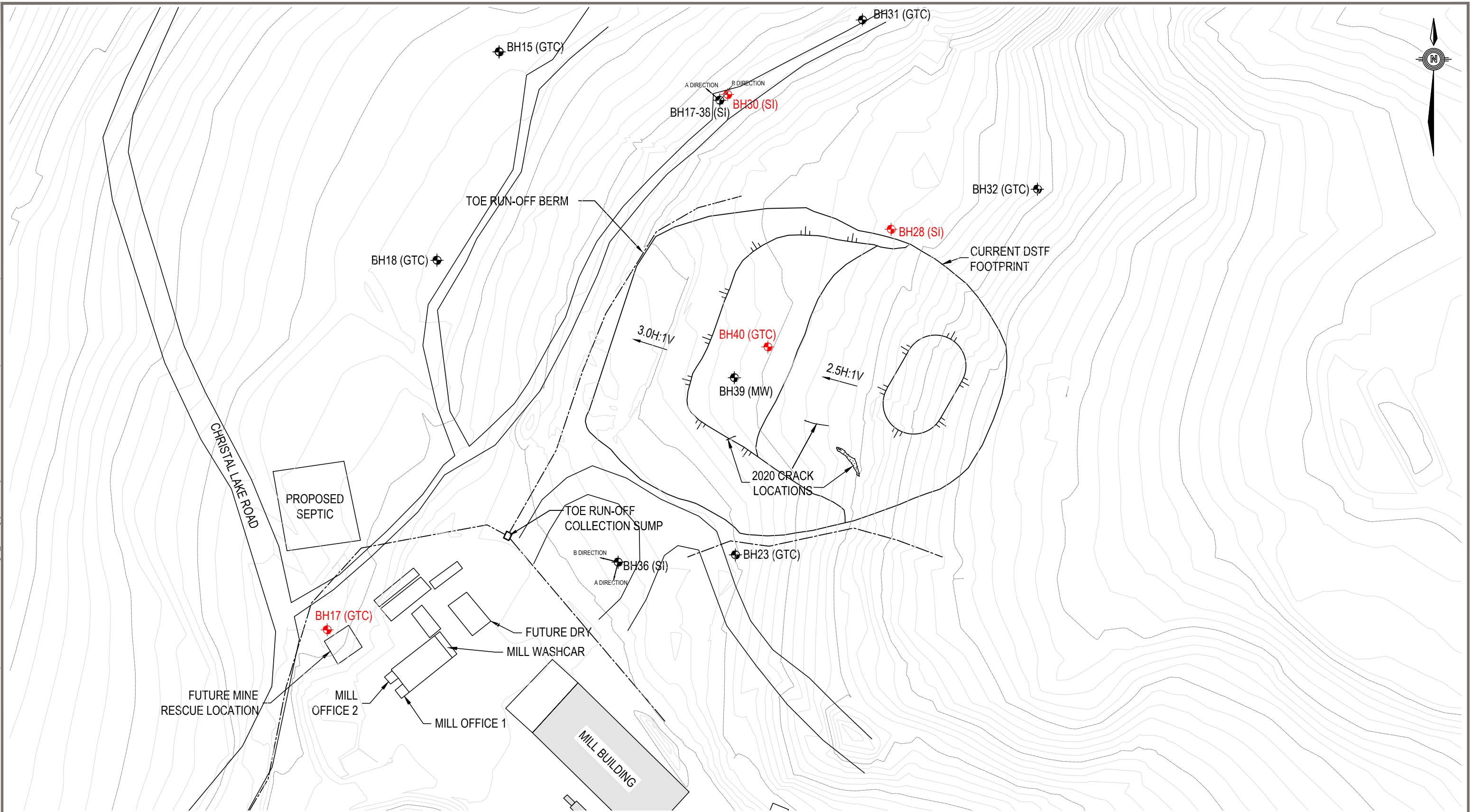
CLIENT


ALEXCO


TETRA TECH

2020 AKHM ANNUAL INSPECTION BELLEKENO MINE SITE - KENO CITY, YUKON				
SITE PLAN SHOWING STRUCTURE LOCATIONS				
PROJECT NO. ENG.WARC03869-01	DWN TP	CKD JRT	REV 0	Figure 1
OFFICE EBA-WHSE	DATE August 24, 2020			

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LEGEND

- GTC - GROUND TEMPERATURE CABLE
SI - SLOPE INDICATOR
MW - MONITORING WELL

NOTE

INSTRUMENTATION SHOWN IN RED HAS BEEN DAMAGED OR DESTROYED AND IS NOT READABLE. SOME OF THESE NEED TO BE REPAIRED AND/OR REPLACED. SEE ACCOMPANYING REPORT TEXT.

CLIENT

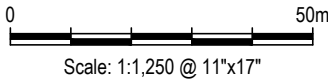


2020 AKHM ANNUAL INSPECTION
BELLEKENO MINE SITE - KENO CITY, YUKON

SITE PLAN SHOWING
BOREHOLE AND INSTRUMENTATION LOCATIONS

PROJECT NO. ENG.WARC03869-01	DWN TP	CKD JRT	REV 0
OFFICE EBA-WHSE	DATE August 24, 2020		

Figure 2



APPENDIX A

LIMITATIONS ON THE USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

GEOTECHNICAL

1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

The Professional Document is intended for the sole use of NELPCO Limited Partnership's (NELPCo) Client (the "Client") as specifically identified in the NELPCO Services Agreement or other Contractual Agreement entered into with the Client (either of which is termed the "Contract" herein). NELPCO does not accept any responsibility for the accuracy of any of the data, analyses, recommendations or other contents of the Professional Document when it is used or relied upon by any party other than the Client, unless authorized in writing by NELPCO.

Any unauthorized use of the Professional Document is at the sole risk of the user. NELPCO accepts no responsibility whatsoever for any loss or damage where such loss or damage is alleged to be or, is in fact, caused by the unauthorized use of the Professional Document.

Where NELPCO has expressly authorized the use of the Professional Document by a third party (an "Authorized Party"), consideration for such authorization is the Authorized Party's acceptance of these Limitations on Use of this Document as well as any limitations on liability contained in the Contract with the Client (all of which is collectively termed the "Limitations on Liability"). The Authorized Party should carefully review both these Limitations on Use of this Document and the Contract prior to making any use of the Professional Document. Any use made of the Professional Document by an Authorized Party constitutes the Authorized Party's express acceptance of, and agreement to, the Limitations on Liability.

The Professional Document and any other form or type of data or documents generated by NELPCO during the performance of the work are NELPCO's professional work product and shall remain the copyright property of NELPCO.

The Professional Document is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of NELPCO. Additional copies of the Document, if required, may be obtained upon request.

1.2 ALTERNATIVE DOCUMENT FORMAT

Where NELPCO submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed NELPCO's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by NELPCO shall be deemed to be the original. NELPCO will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of NELPCO's Instruments of Professional Service shall not, under any circumstances, be altered by any party except NELPCO. NELPCO's Instruments of Professional Service will be used only and exactly as submitted by NELPCO.

Electronic files submitted by NELPCO have been prepared and submitted using specific software and hardware systems. NELPCO makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

1.3 STANDARD OF CARE

Services performed by NELPCO for the Professional Document have been conducted in accordance with the Contract, in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of NELPCO.

1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with NELPCO with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for NELPCO to properly provide the services contracted for in the Contract, NELPCO has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

1.5 INFORMATION PROVIDED TO NELPCO BY OTHERS

During the performance of the work and the preparation of this Professional Document, NELPCO may have relied on information provided by third parties other than the Client.

While NELPCO endeavours to verify the accuracy of such information, NELPCO accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

1.6 GENERAL LIMITATIONS OF DOCUMENT

This Professional Document is based solely on the conditions presented and the data available to NELPCO at the time the data were collected in the field or gathered from available databases.

The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this document, at or on the development proposed as of the date of the Professional Document requires a supplementary exploration, investigation, and assessment.

NELPCO is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

1.7 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, NELPCO has not been retained to explore, address or consider and has not explored, addressed or considered any environmental or regulatory issues associated with development on the subject site.

1.8 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems, methods and standards employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. NELPCO does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

1.9 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

1.10 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historical environment. NELPCO does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional exploration and review may be necessary.

1.11 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

1.12 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

1.13 INFLUENCE OF CONSTRUCTION ACTIVITY

Construction activity can impact structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques, and construction sequence are known.

1.14 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, and the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

1.15 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued satisfactory performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

1.16 DESIGN PARAMETERS

Bearing capacities for Limit States or Allowable Stress Design, strength/stiffness properties and similar geotechnical design parameters quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition used in this report. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions considered in this report in fact exist at the site.

1.17 SAMPLES

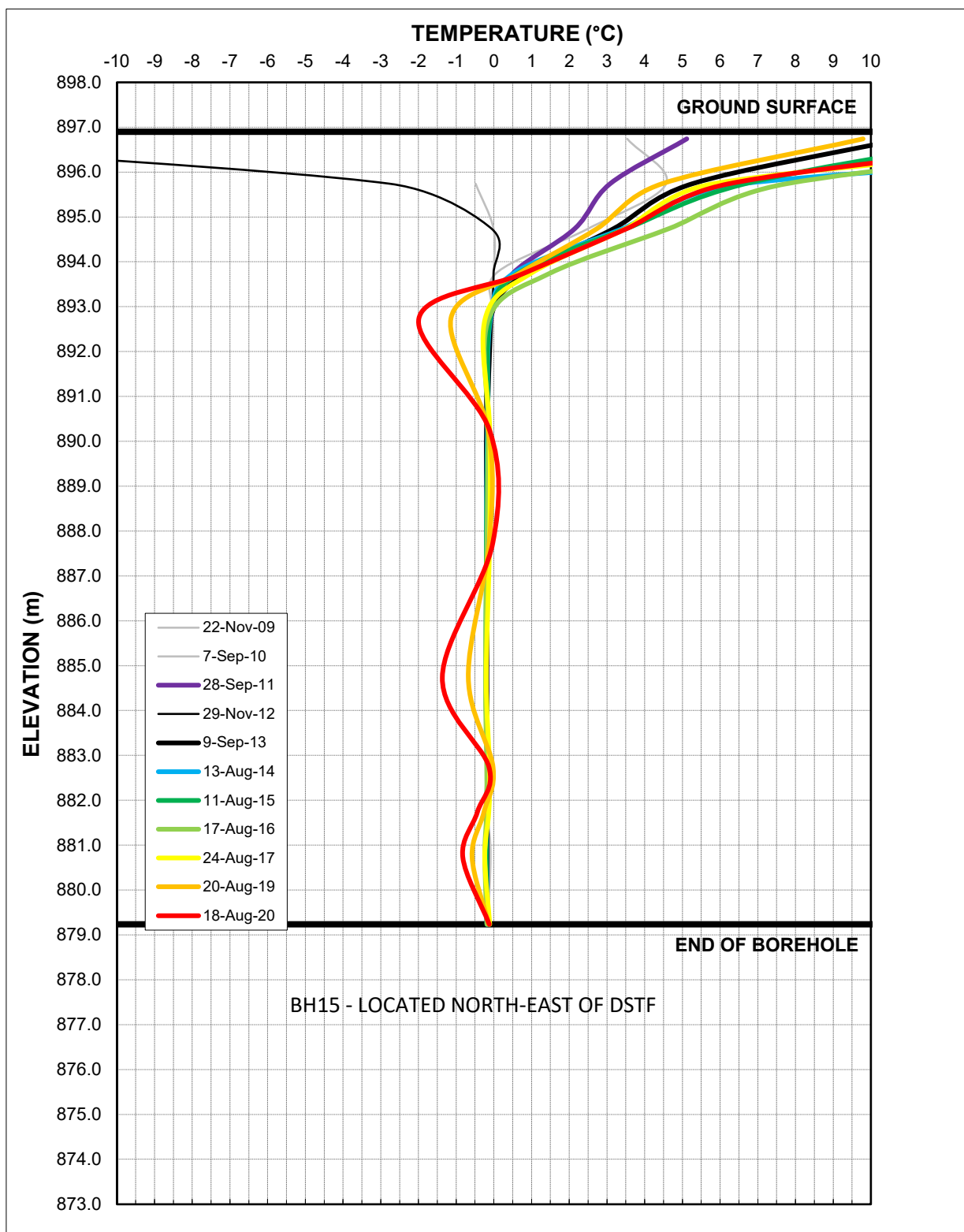
NELPCO will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

1.18 APPLICABLE CODES, STANDARDS, GUIDELINES & BEST PRACTICE

This document has been prepared based on the applicable codes, standards, guidelines or best practice as identified in the report. Some mandated codes, standards and guidelines (such as ASTM, AASHTO Bridge Design/Construction Codes, Canadian Highway Bridge Design Code, National/Provincial Building Codes) are routinely updated and corrections made. NELPCO cannot predict nor be held liable for any such future changes, amendments, errors or omissions in these documents that may have a bearing on the assessment, design or analyses included in this report.

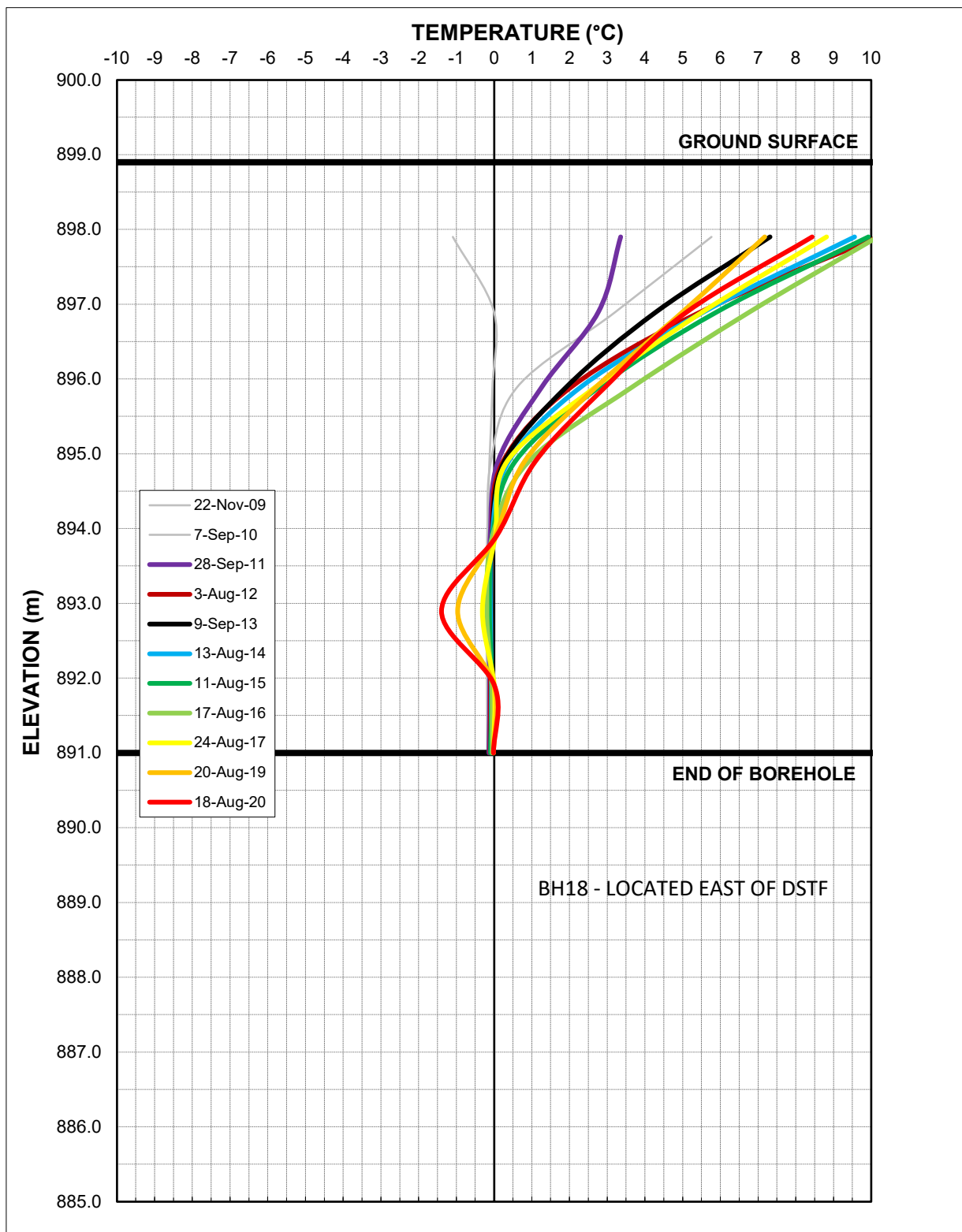
APPENDIX B

GROUND TEMPERATURE PROFILES



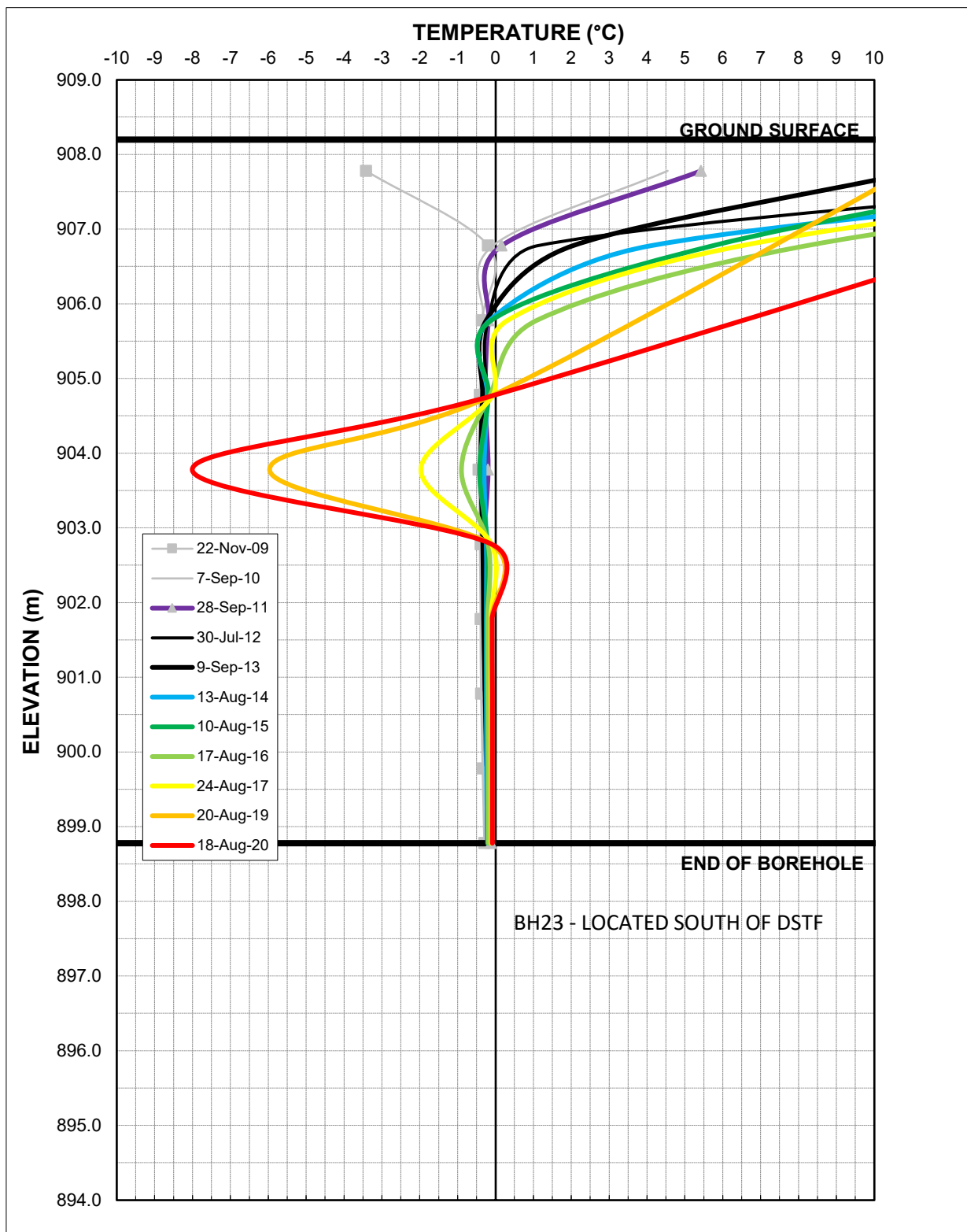
Install Date August 30, 2009
 Last Updated August 18, 2020
 Cable No: 2207

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH15
Figure T1



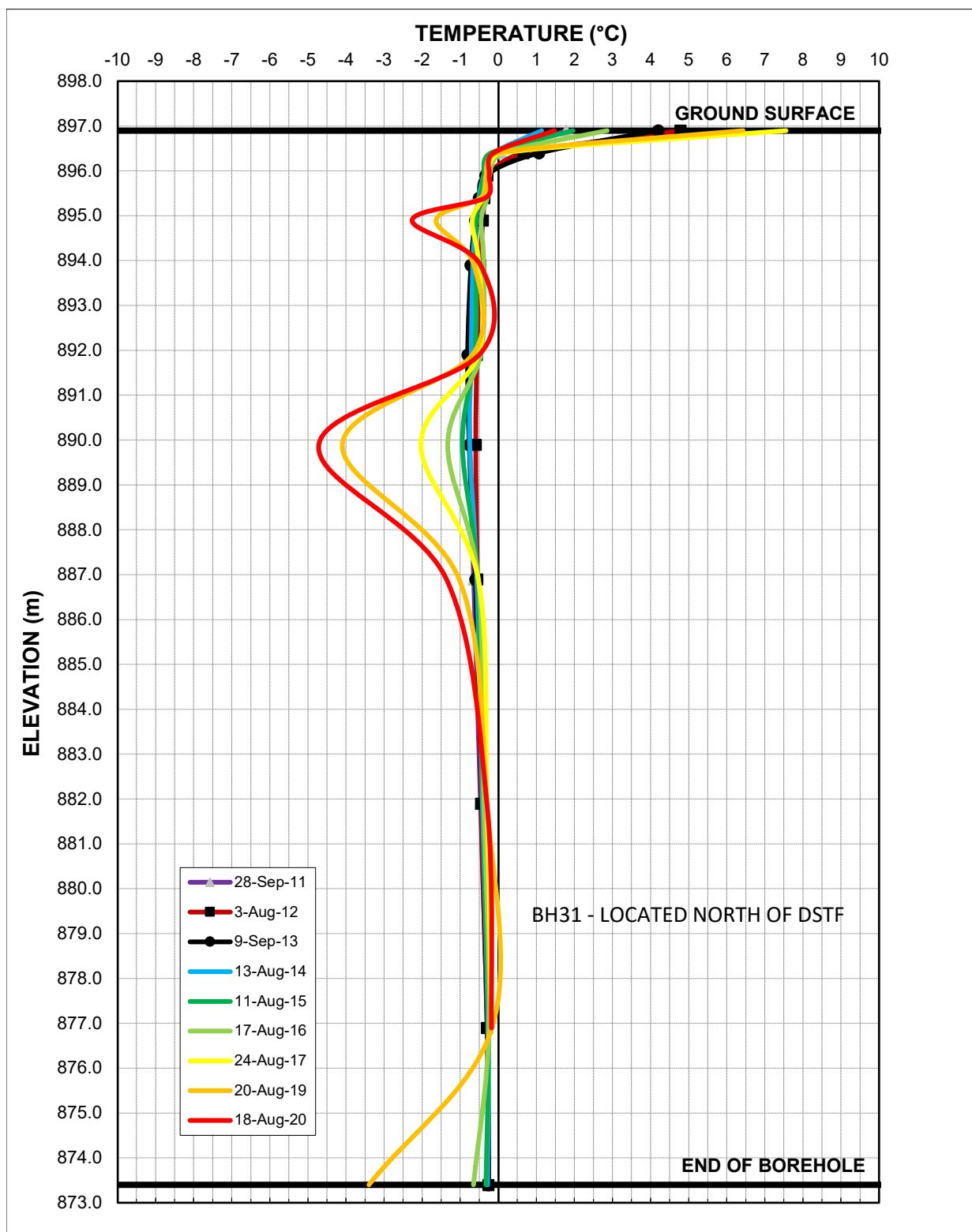
Install Date September 2, 2009
 Last Updated August 18, 2020
 Cable No: 2209

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH18
Figure T3



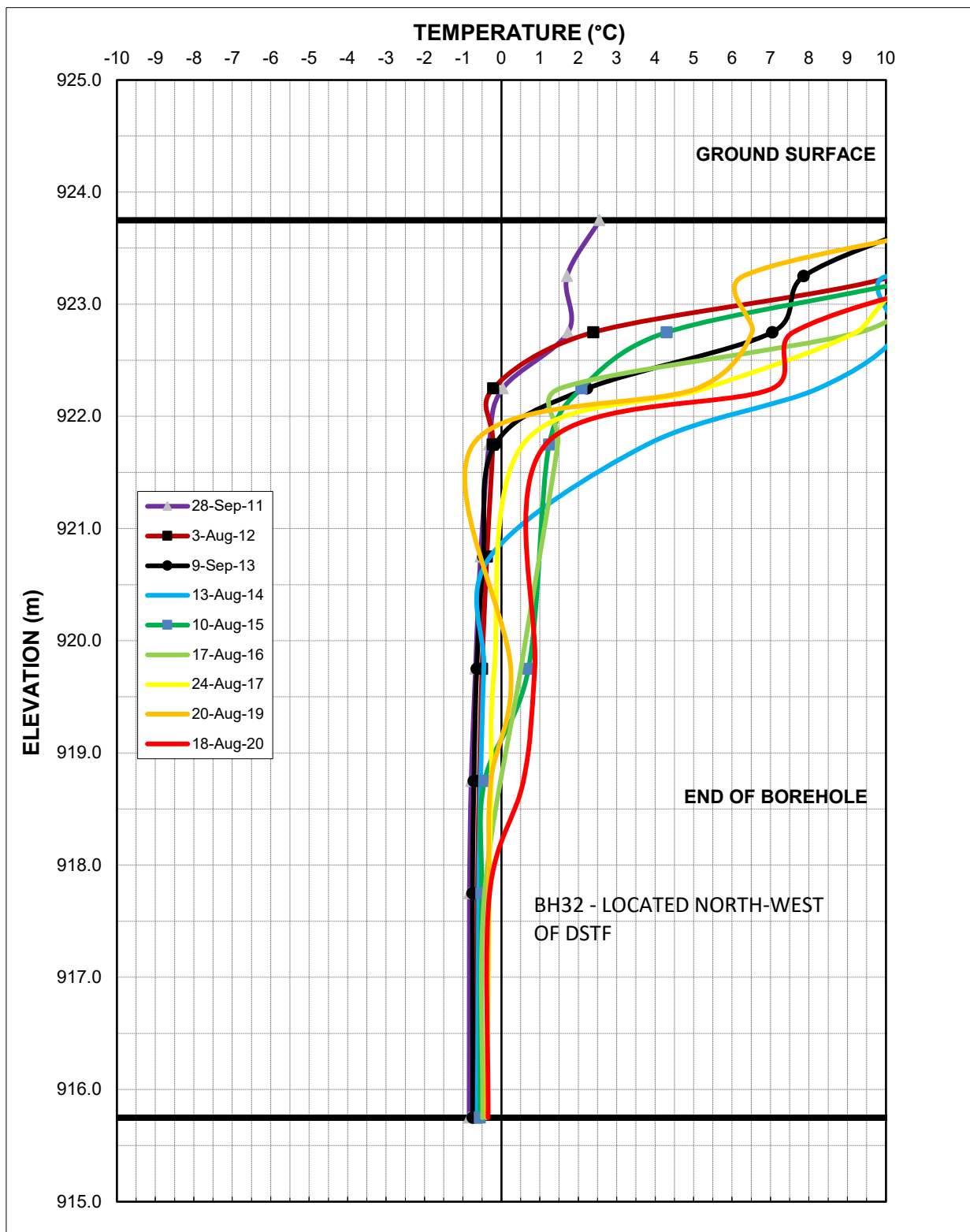
Install Date September 29, 2009
 Last Updated August 18, 2020
 Cable No: 2210

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH23
Figure T4



Install Date February 22, 2011
 Last Updated August 18, 2020
 Cable No: 2263

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH31
Figure T5



Install Date February 22, 2011
 Last Updated August 18, 2020
 Cable No: 2264

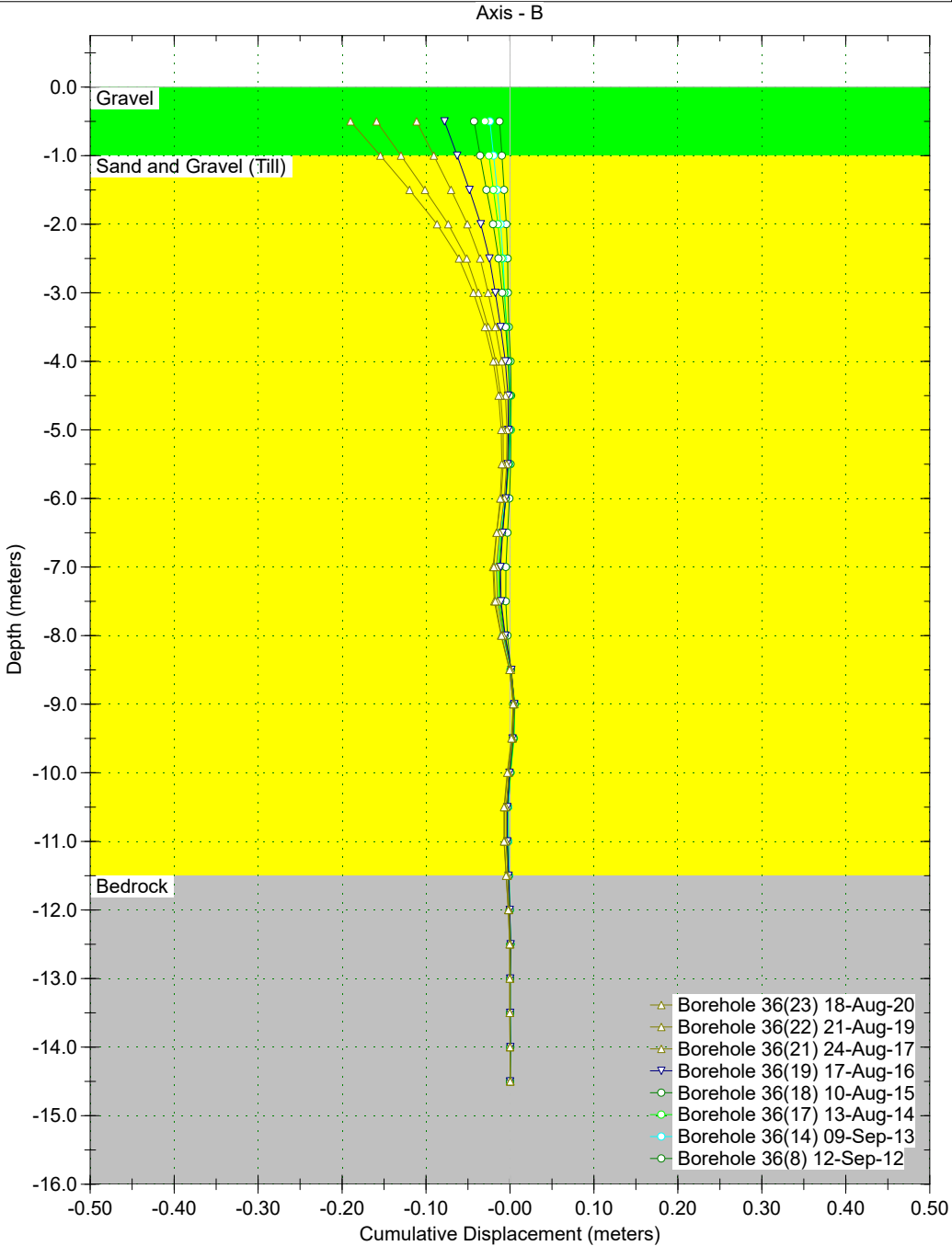
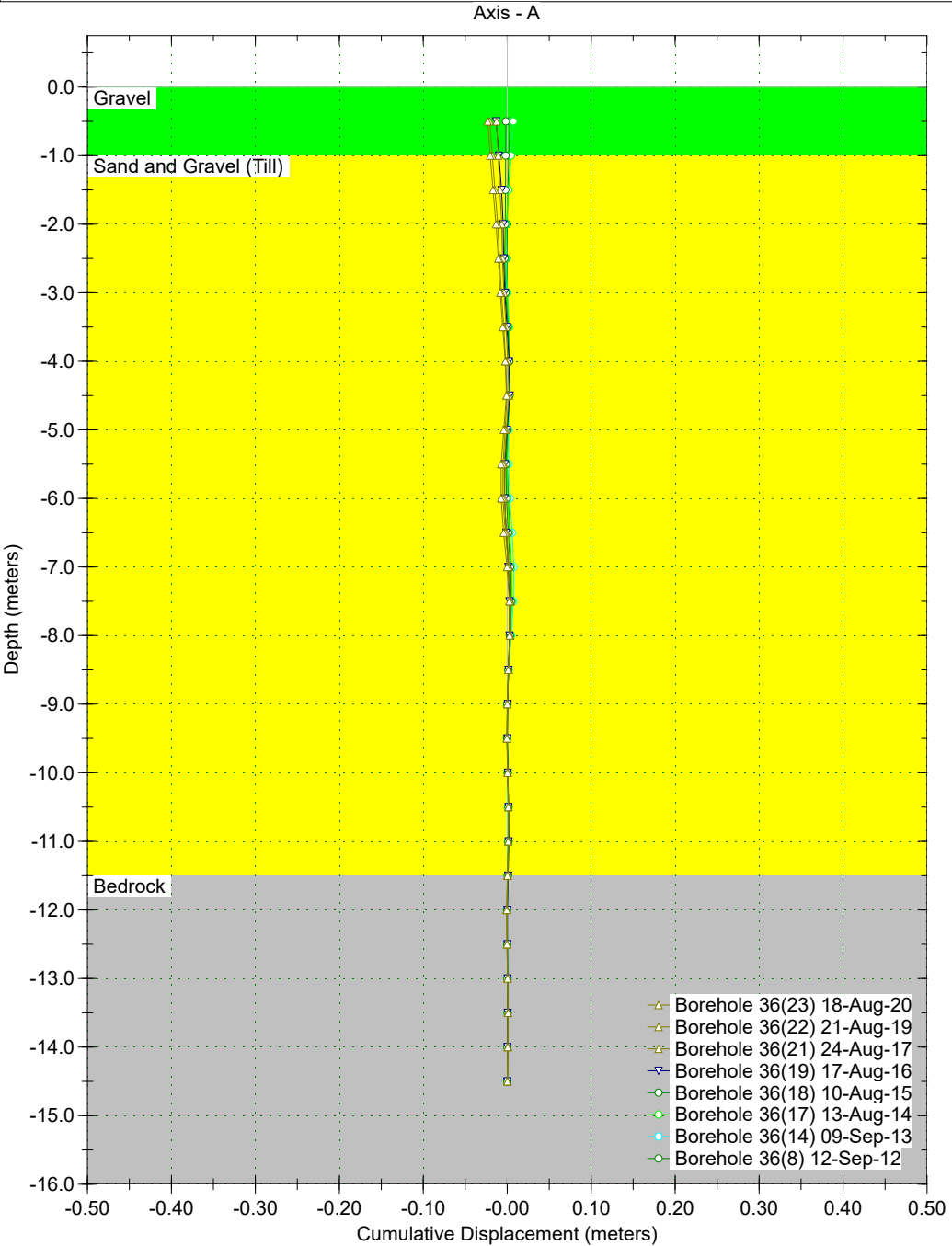
Ground Temperature Profile
Keno Hill District Mill Site Borehole BH32
Figure T6

APPENDIX C

SLOPE INDICATOR PROFILES

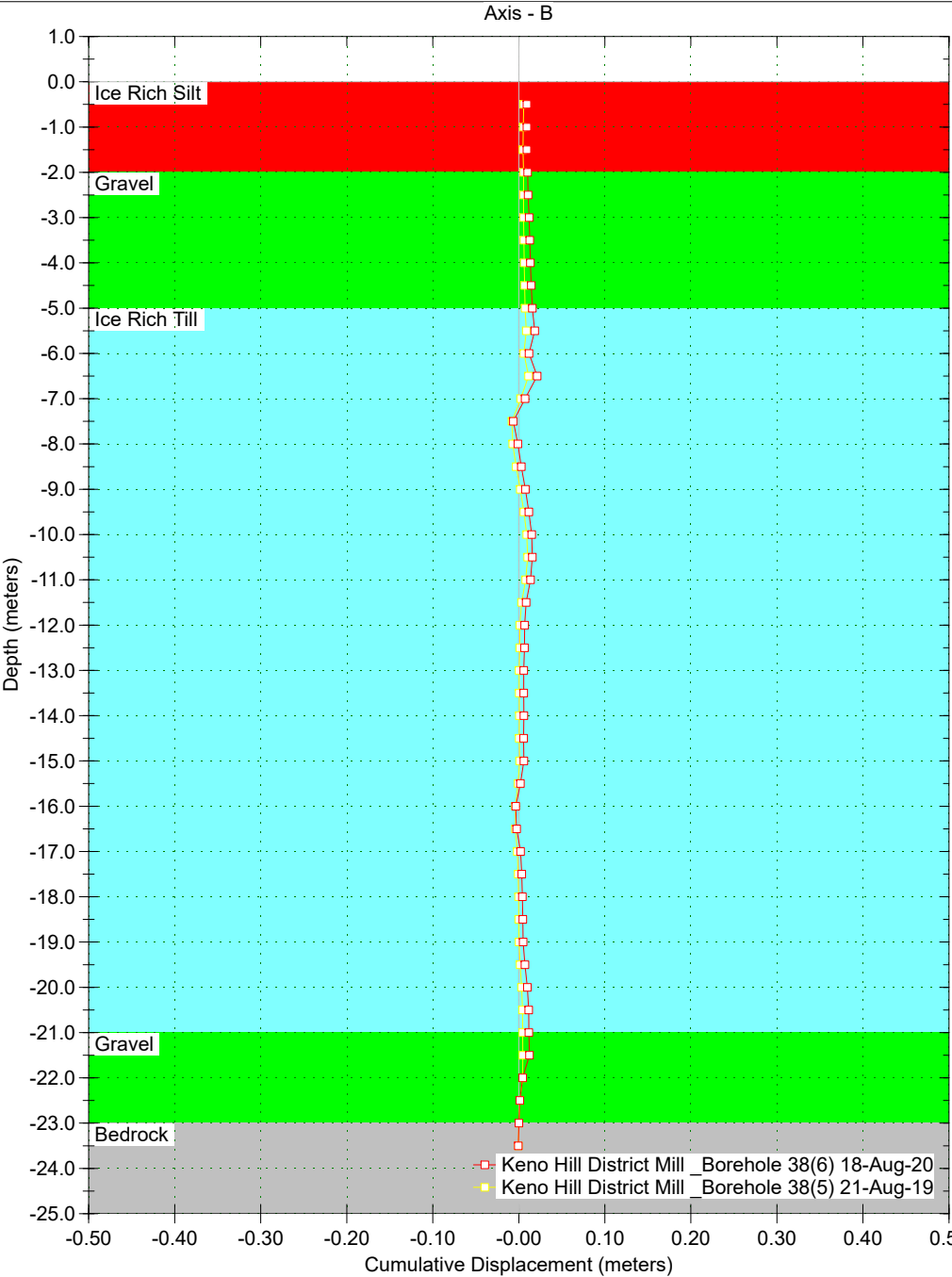
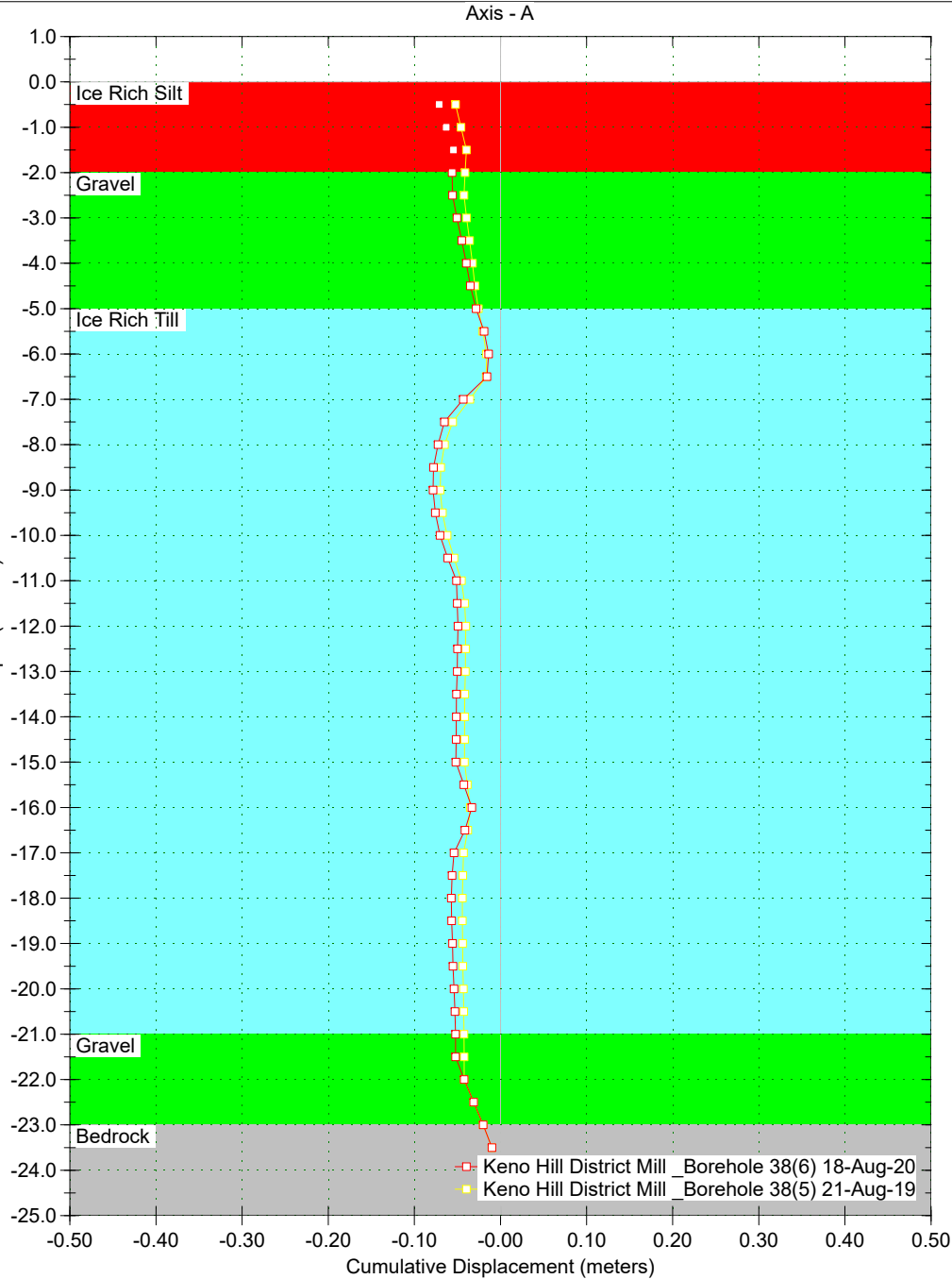
Borehole : Borehole 36
Project : Keno Hill District Mill
Location : DSTF
Northing : 7086872
Easting : 483931
Collar : 908.1

Spiral Correction : N/A
Collar Elevation : 0.00 meters
Reading Depth : 14.5 meters
A+ Groove Azimuth : 165
Base Reading : 2011 Dec 14 16:52
Applied Azimuth : 0.0 degrees



Borehole : Borehole 38
Project : Keno Hill District Mill
Location : DSTF
Northing : 7087034
Easting : 483969
Collar : 907.6

Spiral Correction : N/A
Collar Elevation : 0.00 meters
Reading Depth : 23.5 meters
A+ Groove Azimuth : 310
Base Reading : 2017 Aug 24 13:06
Applied Azimuth : 0.0 degrees



APPENDIX B

2020 NOISE MONITORING RESULTS



Unit 3 151 Industrial Road ■ Whitehorse, YT Y1A 2V3
T. (867) 668-6463 ■ www.ensero.com

Memorandum

To: Alexco Keno Hill Mining Corp.

From: Ensero Solutions Canada, Inc.

Date: March 29, 2021

Re: 2020 Noise Monitoring Data Summary, Keno, YT

Attachment A – Keno Noise Monitoring Data September 2013 to November 2014
B – Keno Noise Monitoring Data December 2014 to December 2020

1 INTRODUCTION

As part of the Keno Hill Silver District Mining Operations Noise Monitoring and Management Plan (the Plan) (AKHM, 2021), Alexco Keno Hill Mining Corp. (AKHM) monitors noise levels in Keno City. The Plan was initially developed to address any potential noise effects that might occur with the addition of the two new mines, Lucky Queen and Onek 990. In addition to noise mitigation measures and the creation of a Noise Disturbance Notification Form and Noise Disturbance Register to track noise disturbance claims, AKHM committed to monitor noise levels within the community at various locations to assess the actual versus predicted noise levels and to determine if the noise abatement measures are effective. The noise data collected between September 2013 to April 2018 provide a baseline for no active mining period for the District, although exploration and care and maintenance of the District was ongoing throughout this period. Flame & Moth development occurred from May to October 2018 and then the site returned to care and maintenance for November and December 2018. Data collected in 2019 can be combined with baseline data as no mining development activities took place in 2019 at the Mill or close to Keno City. Exploration drilling was undertaken in the Bermingham area. Any other noise activity detected in instrumentation at the site would be due to increased helicopter activities in response to the forest fire in the area during July and August 2019.

Mining activities resumed in Q4 of 2020 including development at Bellekeno, Flame & Moth and the Bermingham mines, and recommissioning the mill in December. Additionally, the Onek Water Treatment Plant was constructed August to September and began operating in September 2020. Further, new wells were drilled in the Bermingham, Dry Stack Tailings Facility (DSTF) and Onek 400 portal area in October and November.

The predicted noise levels were presented in the Noise Impact Assessment (NIA) completed by Patching Associates Acoustical Engineering Ltd. (PAAE, 2014) conducted during the Yukon Environmental and Socio-



Economic Assessment Act (YESAA) process (Project 2011-0315). The NIA identifies the noise sources from the current mining-related activities, noise receptors, and predicts the anticipated noise level from all existing sources and those associated with the addition of Lucky Queen and Onek 990 mining operations.

This memo presents noise monitoring results up until December 2020 with reference to the data collected since 2013

2 NOISE RECEPTORS

AKHM has monitored noise at the five locations selected in the NIA as being potential noise receptors within a 2 km radius study area around Keno City. Since November 2013, noise has also been monitored at a sixth location, the Keno City Campground. These monitoring locations are listed in Table 1. Noise monitoring at station R02 was not conducted in 2020.

Table 1: Representative Locations Assessed in Keno City

Monitoring Location	GPS Location	Description
R01	N63.90827 W135.29599	East end Residence, north side of Lightning Creek Road
R02	N63.91019 W135.29968	Residence, east side of Sign Post Road
R03	N63.91023 W135.30205	Town Center, north from the Snack Bar
R04	N63.91239 W135.30376	Residence, west side of Wernecke Road
R05	N63.90851 W135.30993	Residence, about 850 m east from the Mill
Campground	N63.90772 W135.29998	Keno City campground

The background noise levels experienced by these locations vary considerably, depending on location and local activities. Climate parameters, such as relative humidity, temperature, and temperature inversions impact the sound level and propagation experienced by each of these receptors. Sound travels faster through hot air, as it is less dense, humidity has the same effect, dry air absorbs far more acoustical energy. As per Figure 1, noise is expected to travel more efficiently in summer months while the ambient air is warmer and drier.

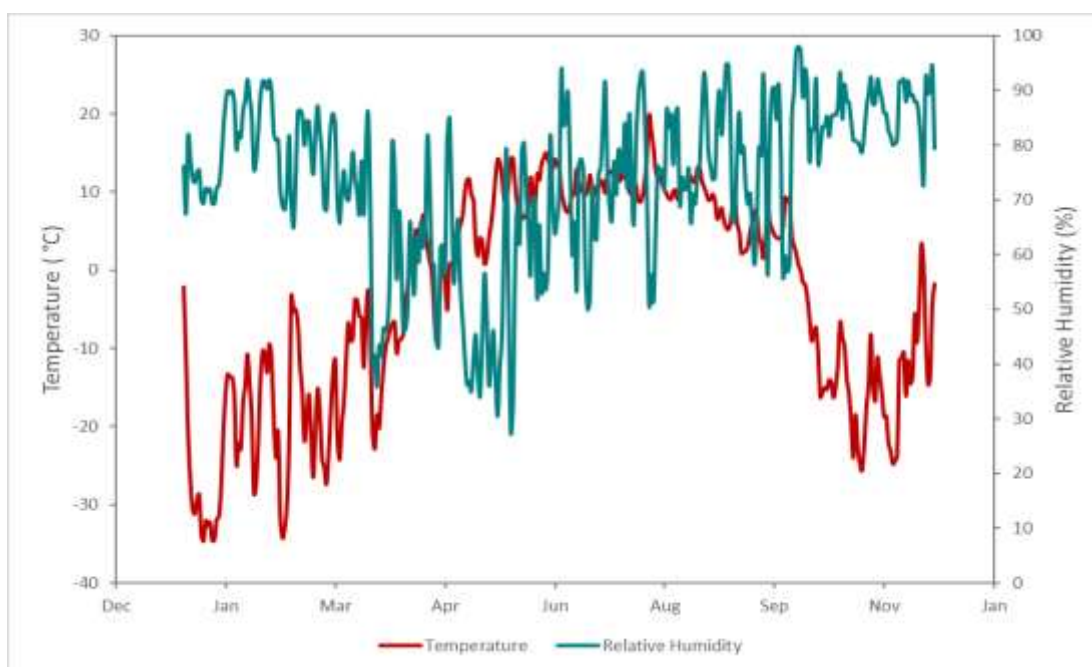


Figure 1: 2020 Daily Temperature and Relative Humidity at Flame & Moth Meteorological Station

3 MINING ACTIVITIES TIMELINE

Mining took place at Bellekeno, and milling at the Keno District Mill throughout 2013, until these were suspended on September 3, 2013. Operations at Onek 990 ceased at the end of May 2013. Exploration activities at Flame & Moth took place from late March to early November 2014. The remaining months: September 2013 through March 2014, and December 2014 to April 2018, can be considered baseline conditions as no mining or exploration activities were taking place near Keno City at that time. Care and Maintenance as well as preparation of the Flame & Moth water treatment pond occurred in 2017. In 2018, Flame & Moth Development occurred from May to October. In 2019, no mining nor development occurred, some drilling activities occurred in the Bermingham area during the summer months, which is approximately 5 km away from Keno City on Galena Hill. AKHM has been in ongoing Care and Maintenance since September 2013.

From January to July 2020, the mine continued in Care and Maintenance, including maintaining roads and other small construction activities in the mill area, operating water treatment plants. From August to September 2020, the Onek Water Treatment Plant was built and began operation at the end of September. Well drilling activities began in October in the Bermingham area and continued in Keno City near the Onek adit and the dry stack area in November and around No Cash 500 in mid-November. Three new wells (KV-87, KV-108, and KC-MW-03N) were installed near town and nearby noise monitoring location R03 in October. Mine development occurred at Flame & Moth and Bermingham in Q4 of 2020 and the mill was recommissioned in December 2020. Figure 2 shows noise monitoring stations at the KHSD.



Satellite imagery obtained from Yukon Geomatics map service <http://mapservices.gov.yk.ca/ArcGIS/services> on January 2021

Datum: NAD 83; Projection: UTM Zone 8N

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1:6,000 (when printed on 11 x17 inch paper)

0 50 100 150 200 250 Meters

 Noise Monitoring Station

 Adit

 Current DSTF

 Pond

 Mine Feature Footprint

 Watercourse

 Silver Trail Highway

 Secondary Road



ALEXCO KENO HILL MINING CORP.

FIGURE 2
NOISE MONITORING STATIONS

JANUARY 2021

D:\Project\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\04-Studies\Air_Noise_Dust\Air_Quality_Noise_Mill_20210113.mxd
(Last edited by: ftsberg: 1/13/2021/12:29 PM)



4 MONITORING EQUIPMENT

The noise monitoring profiles collected between April 2013 and November 2014 were measured using an Extech Integrating Sound Level Datalogger (Model 407780) to capture average dBA over a single ten-minute period. The wind speed, wind direction, temperature and precipitation data from the District Mill Meteorological Station, on top of the dry stack tailings facility, associated with each noise monitoring event have been reported as these can have a significant effect on measured noise levels. Any notable noise sources associated with the monitoring event were also documented where possible. The results from 31 monitoring events from April 2013 to November 2014 are presented in Appendix A.

Starting in December 2014, noise monitoring readings were collected with a Casella CEL-63X Sound Level Meter and a Casella CEL-495 Microphone. The microphone was mounted on a tri-pod at approximately 1.5 meters above ground and surrounded by a windscreen provided by Casella for use with this microphone to reduce wind impacts as required for outdoor sound measurements. The sound level meter and battery power source were housed inside a weather-proof case which was held in a locked metal box for extra security.

- In 2015, 24 hr period data were able to be collected in January and August through November; equipment issues preventing the collection of 24 hr period data for the remainder of the year.
- In 2016, 24 hr period data were collected every month; however, not all stations could be monitored every month due to battery or other equipment issues, or the temperature being below operating conditions for the equipment.
- In 2017, a combination of equipment malfunction, equipment vandalism, and very cold temperatures only allowed for 24 hr period noise data collection in June, July and November.
- In 2018, similar issues were encountered early in the year, samples were collected from March to December 2018.
- In 2019, a total of 57 successful recording out of 65 attempted recordings from January to December 2019. Some of the mis-recordings are due to battery issues, cold temperatures and technical difficulties.
- In 2020, there was a total of 38 successful recordings from January to December 2020. 24-hr period data were collected every month with the exception of September, October and November; however, not all stations could be monitored every month due to battery, or the temperature being below operating conditions for the equipment.



5 RESULTS

In 2020, a total of 38 24-hr period sampling events took place. Noise monitoring frequency was affected from equipment failure and no data was collected for September, October, and November 2020.

The LA_{eq} values for all of these measurements ranged from 18.9 to 118.3 dB, with a median of 44.4 dB. The LA_{eq} is an equivalent continuous sound level which would contain the same sound energy as the varying sound record. The LA_{eq} values exceeds the LAF_{10} value for 23 out of 38 measurements (61%), indicating that these 24-hr noise monitoring events are characterized by short-term events and not general background levels, this proportion of measurement is more than 2019. The difference between the LA_{eq} and the LAF_{90} provides an indication if the LA_{eq} has been heavily influenced by short term noise events (difference greater than 20dB) or if the LA_{eq} indicates a very steady noise background level (difference less than 5 dB).

Mining and development activities were on going when noise data was collected in 2020. Well drilling took place in the Bermingham area, in Keno City, around Onek 400 and DSTF phase 2 expansion area, the Onek 400 water treatment plant was built and was operations, and the mill was operational in December.

Approximately 68% of the LA_{eq} measurements in 2020 exceeded the predicted levels from the NIA range (from 32 to 39 dB). Baseline noise levels were greater than those predicted in the NIA on several occasions between 2014 and 2016 as well, indicating that many of the notable noise sources are not linked to Keno mining or milling operations. During the 2020 noise monitoring program, mining development activities had increased and took place near noise monitoring sites. However, while there was more activity occurring at the mine there was a decrease in the noise monitoring sampling events being recorded compared to 2019. Lower sampling frequency in 2020 is due to the influence of staff turnover and equipment failure effecting the number of sampling events recorded.

The Casella sound meter is calibrated in the field before and after each set of measurements. This calibration data is recorded with the noise monitoring records. The drift can be affected by temperature or too long a period from factory calibration. If the drift is greater than ± 3.0 dB not all data is recorded. Since drift increases as temperature decreases, it is important to keep the sound level meter and microphone as warm as possible. During periods of extended low temperatures, the data validity may need to be assessed. In 2020, calibration drift remained smaller than ± 3.0 dB for all of the 24-hr sampling events.

Table 2 presents all 24-hr period noise data available in 2020 (all data runs with <24 hours have been excluded), and associated meteorological parameters obtained from the District Mill meteorological station (averaged from hourly data for the corresponding 24-hr period). The existing 2013 and 2014 ten-minute noise data measurements are provided in Appendix A. Appendix B presents all the available 24-hr noise data to date, from December 2014 to December 2020.

All 24-hr noise recording results from 2014 to 2020 are presented with the Noise Impact Assessment (NIA) values that were calculated in 2014 by PAAE in Figure 3. PAAE had estimated that the Predicted Sound Levels with both ambient and day-time activities associated with the mine would be from 32dBA at R03 to a maximum of 39dBA at R01. PAAE had also predicted an increase above current sound levels associated with the activity changes in Flame & Moth to be a maximum of 2dB at R04 for both day-time and nighttime conditions. NIA is presented in all the following figures as a minimum of 32dBA and a maximum of 39dBA. As seen in Figure 3, the baseline data shows that PAAE overestimated noise levels during winter months when fewer activities are



occurring and underestimated the summertime continuous noise levels. However, in 2020 with increased activity, continuous noise levels were above the max NIA of 39dBA.

Some of the dataset did not have records for the station they were collected at, for those monitoring events we averaged the LAeq values for the month and placed them under “unknown station”.

Figure 4 presents the current conditions measured in 2020 with NIA levels, in June there are high values at locations R01, and R03. There is a large gap in data between August and December due to equipment failure. The highest value of 2020 was in February at an unknown location, when no mining activities occurred and is likely associated with an activity such as chain sawing by a resident. LAF 10% are also presented in the figure, LAF is the measured sound pressure levels, or in other terms it measures the peaks in the continuous measurement. For example, LAF 10% is a measurement of frequent noisy occurrences such as steady road traffic. When the LAeq values exceed the LAF 10% values, it indicates the presence of significant short-term loud events.

In 2018, a portion of the underground Flame & Moth decline was developed, hence blasting activities, material transportation and surface facility construction took place. May 2018 to October 2018 are considered operation noise data. As such, noise data collected before May 2018 or after October 2018 were considered baseline noise levels. August 2020 to present is considered operation noise data as mining activities have resumed.



Table 2: 2020 24-hr Noise Data and Corresponding Meteorological Data

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAlaq (dB)	LAE (dB)	Lceq (dB)	LCeq-Laeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
Campground	2020-01-30 13:05	19.4	18.5	17	Yes	2.4	45.2	23.8	68.7	27.8	8.4	-0.2	-12.0	90.3	0.74
R01	2020-02-21 14:00	19.3	20	17	No	2.3	45.3	21.5	66.7	32.9	13.6	0.1	-3.4	59.2	0.33
R01	2020-03-31 14:20	44.2	47.5	17.5	No	26.7	56.2	44.2	93.5	43.7	-0.5	0	-12.5	31.6	2.27
R01	2020-06-25 13:15	53.3	54	52.5	No	0.8	64	53.8	102.7	56.8	3.5	-0.1	10.4	72.7	1.27
R02	Station was not monitored in 2020.														
R03	2020-02-20 12:10	44.2	48	18	No	26.2	77.8	46	93.6	65.3	21.1	0.1	-5.8	63.7	2.44
R03	2020-03-12 14:00	43.4	45.5	18	Yes	25.4	52.7	43.9	92.7	46	2.6	-0.2	-21.2	57.1	0.99
R03	2020-05-06 14:55	40.9	34.5	20	Yes	20.9	56.2	47.6	90.3	50.4	9.5	0	10.0	32.4	2.27
R03	2020-06-23 08:00	53.2	54	33	No	20.2	60.6	65.5	102.6	56.8	3.6	-0.2	5.7	94.3	1.76
R04	2020-01-31 14:05	47.7	46	45.5	Yes	2.2	58.8	50	97	51.8	4.1	0.4	-13.0	89.6	0.54
R04	2020-02-18 14:10	111	114	103	No	7.7	123.4	116.2	160.1	116.2	5.5	-0.4	-21.3	80.3	0.52
R04	2020-03-09 13:35	34.6	31	19.5	Yes	15.1	62.8	41	83.9	47.8	13.2	0.2	-10.5	83.3	1.01
R04	2020-05-07 16:05	31.8	33	23.5	Yes	8.3	55	36.3	76	41.5	9.7	-0.1	10.4	35.4	0.97
R04	2020-06-30 13:15	44.4	42.5	30	Yes	14.4	51.9	53.5	93.7	50.3	5.9	0.1	11.7	72.0	2.48
R05	2020-01-23 01:55	19.4	20	17.5	No	1.9	47.5	23.3	59.5	27.9	8.5	0.1	-11.9	90.4	0.04
R05	2020-02-26 13:00	33.8	19.5	17	Yes	16.8	44.3	41.3	83.1	41.5	7.7	-0.3	-18.6	83.5	1.20
R05	2020-03-26 14:50	44.4	47.5	21	No	23.4	74.6	44.9	93.8	59.7	15.3	0.3	-5.0	67.6	3.03
R05	2020-05-22 12:45	41.8	36.5	28.5	Yes	13.3	60.1	46.5	80.1	52.2	10.4	0	16.8	21.7	2.05
R05	2020-06-24 12:10	51.1	43.5	27	Yes	24.1	55.9	63.2	100.5	53.3	2.2	0.1	7.2	91.8	1.38
Unknown	2020-02-07 14:20	29.9	20.5	17.5	Yes	12.4	42.5	32.3	79.3	39.5	9.6	0	-10.8	90.7	0.33
Unknown	2020-02-27 13:50	118	119	117	No	1.3	125	118.4	167.6	116.9	-1.4	0.4	-16.1	81.9	2.51
Unknown	2020-03-25 14:30	31	27.5	18	Yes	13.0	49.1	37.9	80.4	38.8	7.8	-0.4	-0.7	81.3	2.65
Unknown	2020-04-02 13:00	18.9	18.5	17.5	Yes	1.4	54.2	23.6	58.4	34.7	15.8	0.3	-7.3	37.1	1.70
Unknown	2020-04-10 00:15	35.2	28	18	Yes	17.2	62.6	41.6	84.5	46	10.8	-0.1	-4.4	34.4	2.15
Unknown	2020-04-16 14:20	35.8	36.5	17.5	No	18.3	63.7	40.6	85.2	49.2	13.4	0.2	8.4	59.1	2.31
Unknown	2020-04-28 02:02	22.3	23.5	18	Yes	4.3	52.1	24.7	71.6	38.1	15.8	-0.3	4.8	44.5	2.55
Unknown	2020-07-16 14:45	52.4	38	25.5	Yes	26.9	57.5	63.5	101.7	55.2	2.8	-0.1	18.7	43.6	1.87
Unknown	2020-07-22 12:55	56.1	53	51	Yes	5.1	59.3	65.4	105.4	58.5	2.4	0.1	11.0	86.5	2.03
Unknown	2020-07-23 14:45	51.4	42	26	Yes	25.4	61.9	54.9	100.8	60	8.6	-0.1	12.8	55.7	1.66
Unknown	2020-07-30 15:00	42.8	45	35.5	No	7.3	51.7	43.4	92.1	47.4	4.6	0.2	21.5	50.0	1.97

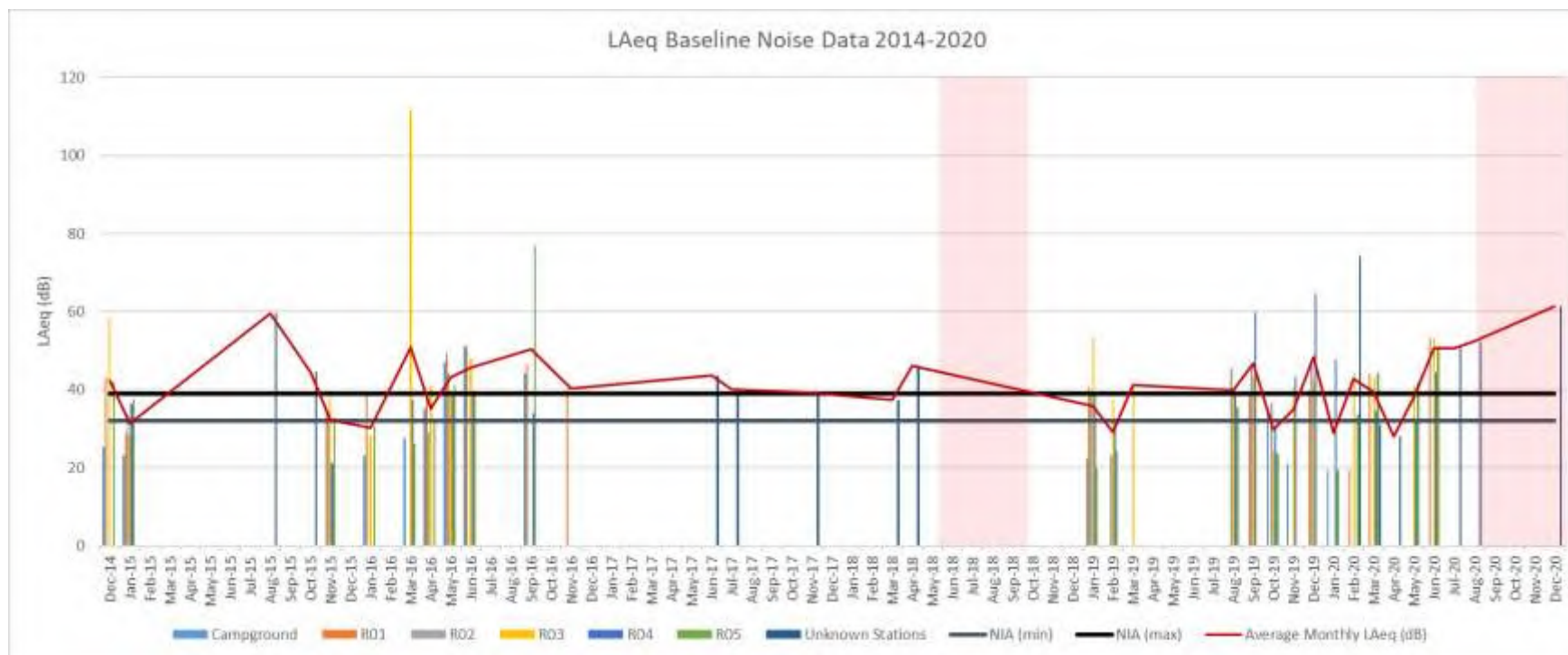


Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	Lceq (dB)	LCeq-Laeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
Unknown	2020-08-04 13:45	48.6	37	23.5	Yes	25.1	52.1	58.6	98	50.7	2.1	0.1	15.1	64.0	2.39
Unknown	2020-08-23 09:15	46.9	48	25	No	21.9	61.8	55.8	96.3	60.1	13.2	-0.2	11.5	82.2	0.17
Unknown	2020-08-24 10:20	54.8	49.5	24	Yes	30.8	59	68.8	104.2	58.5	3.7	0.2	10.3	87.2	0.67
Unknown	2020-08-25 10:45	58.8	58	27	Yes	31.8	64.5	71.1	108.1	63.7	4.9	-0.5	11.7	89.2	0.91
Unknown	2020-12-07 11:45	50.8	51	50.5	No	0.3	57.1	51.4	100.1	52.9	2.1	-0.3	-3.8	97.2	0.71
Unknown	2020-12-09 14:50	83.5	52	49	Yes	34.5	89.8	84.6	132.7	86.7	3.2	0.1			
Unknown	2020-12-17 08:35	51.9	53	50	No	1.9	71.2	53.6	101.3	67.6	15.7	0.4			
Unknown	2020-12-18 09:10	66.3	51.5	49	Yes	17.3	75.4	67	115.7	74	7.7	-0.6			
Unknown	2020-12-20 02:48	54.5	56.5	51.5	No	3.0	69.7	56.3	103.9	66.2	11.7	-0.1			

*Unknown is a station location not recorded

** Flame & Moth Meteorological Station values was used

Legend:	
Yes	When LAeq > LAF10
<5	LAeq - LAF90 (dB) less than 5
>10	LAeq - LAF90 (dB) greater than 10
Red	Calibration Drift greater than 3.0 dB



Active Mining Activities

Figure 3: All 24-hr noise recording results from 2014-2020 presented with the Noise Impact Assessment

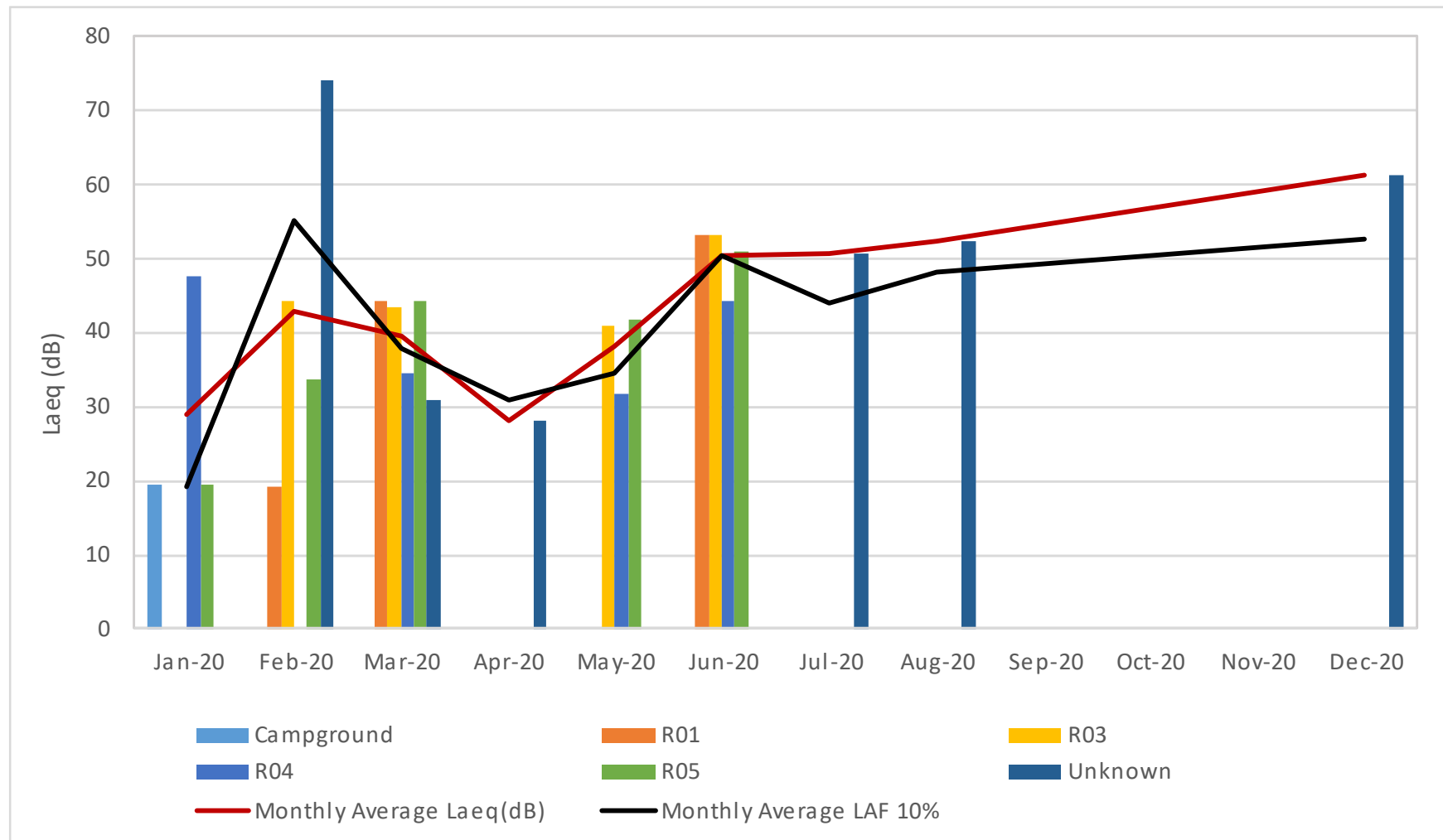


Figure 4: 2020 Noise Levels and Monthly Average



6 NOISE COMPLAINTS

No formal noise complaints were received by AKHM in 2020.

7 RECOMMENDATIONS

It is unclear under what circumstances the R02 station was removed from the monitoring schedule in 2020. It is recommended R02 be reinstated during the 2021 monitoring program.

8 CONCLUSION

Noise levels measured at all noise receptors were well within or below the 20-60 dBA range deemed to be socially acceptable for daytime noise limits, apart from the unknown station data points recorded in February, which was outside of the window when mining activities took place in 2020. NIA values developed in 2014 were found to be generally overestimated in winter months and underestimated in summer months but provide a valid measure to analyze against. 68% of the total 24-hr recordings exceeded maximum NIA threshold of 39db, generally occurring from February to March and June to December. 61% of the recordings exceeded their LAF 10%, which indicates that the 24-hr monitoring events are characterized by short-term events and not the background noise levels. Thirteen of these events were exceeding maximum NIA level and their LAF 10% values. Continued accurate monthly monitoring over a 24-hour interval provides further data which can better inform noise monitoring thresholds.

9 REFERENCES

Alexco Keno Hill Mining Corp., Noise Monitoring and Management Plan. Keno Hill Silver District Mining Operations, February, 2021.

Patching Associates Acoustical Engineering Ltd. (PAAE).2014. Noise Impact Assessment Update. Alexco Keno Hill Mining Corp., Proposed Flame & Moth Mine Project, Yukon Territory. Prepared for Yukon Environmental and Socio-Economic Assessment Board (YESAB), September 23,2014.



ATTACHMENT A

Keno Noise Monitoring Data September 2013 to November 2014

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
08/04/2013	R01	12:26	2	Windy SSE	None	52.0	
08/04/2013	R02	12:05	2	Windy SSE	None	58.6	
08/04/2013	R03	11:45	2	Windy SSE	None	52.4	
08/04/2013	R04	11:25	2	Windy SSE	None	67.2	A dog barked 2 times.
08/04/2013	R05	11:04	2	Windy SSE	None	48.5	
10/04/2013	R01	11:33	-6	Light SSW	None	42.1	
10/04/2013	R02	13:00	-6	Light SSW	None	42.5	
10/04/2013	R03	12:40	-6	Light SSW	None	49.0	Doors slamming. People talking.
10/04/2013	R04	12:20	-6	Light SSW	None	39.4	
10/04/2013	R05	12:00	-6	Light SSW	None	39.1	
06/05/2013	R01	15:30	2	Wind West	None	35.1	Backup alarm at Onek. Tarps flapping in wind.
06/05/2013	R02	15:30	2	Slight breeze	None	34.4	
06/05/2013	R03	15:30	2	Windy	None	44.8	Dog barking. Boart truck.
06/05/2013	R04	15:30	2	Slight breeze	None	32.8	
06/05/2013	R05	15:30	2	Slight breeze	None	37.5	Dog barking.
19/05/2013	R01	10:25	-2	Light (<10km/h) N	Light snow	69.6	Creek flowing loud. Squirrels making noise. Tarp flapping. Volvo going by on the BKR.
19/05/2013	R02	10:10	-2	Light (<10km/h) E	Light snow	43.2	Creek flowing below. A few birds chirping. Boart pickup went by.
19/05/2013	R03	9:55	-2	Light (<10km/h) E	Light snow	56.3	A few birds. Talking and trucks in town in the distance. Water truck went by.
19/05/2013	R04	9:30	-2	Light (<10km/h) E	Light snow	46.6	Lots of birds calling and a woodpecker pecking close by.
19/05/2013	R05	8:55	-2	Light (<10km/h) E	Light snow	36.4	A few birds and a squirrel chirping.
18/06/2013	R01	16:25	22	Light (<10km/h) S	None	48.6	Creek flowing. Leaves rustling.
18/06/2013	R02	16:10	22	Light (<10km/h) S	None	46.8	Volvo on BKR. 2 vehicles drove past. Gusts of wind rustling trees. Chainsaw nearby in town.
18/06/2013	R03	15:55	22	Light (<10km/h) S	None	44.8	People talking and walking close by. 2 Vehicles driving through town and 1 driving by.
18/06/2013	R04	15:40	21	Light (<10km/h) S	None	34.9	Wind rustling leaves. Birds calling.
18/06/2013	R05	14:55	21	Light (<15km/h) S	None	37.6	Wind rustling leaves. Volvo on the BKR.
24/07/2013	R01	11:07	23	light (<20km/h) S	None	48.7	Leaves rustling. Creek nearby. Birds chirping.
24/07/2013	R02	10:55	23	light (<10km/h) S	None	40.4	Three vehicles driving nearby. Leaves rustling.
24/07/2013	R03	10:43	23	light (<10km/h) S	None	47.7	Backup alarm at Mill. Leaves rustling. Someone in town hammering. Two vehicles drove by.
24/07/2013	R04	10:30	23	light (<10km/h) SE	None	38.0	Backup alarm at Mill. Mill crusher. Leaves rustling. Car drove by twice. Car on Silver Trail.
24/07/2013	R05	10:14	23	Calm	None	38.0	Backup alarm at Mill. Volvo down BKR. Mill crusher.
16/11/2013	R01	14:11	-20	Calm	None	27.8	Birds.
16/11/2013	R02	13:51	-20	Calm	None	31.9	Squirrel, ravens, birds noise.
16/11/2013	R03	13:35	-20	Calm	None	34.9	Squirrel, ravens, birds noise+ truck.
16/11/2013	R04	13:20	-20	Calm	None	40.6	Lots of ravens activity, birds.
16/11/2013	R05	14:27	-20	Calm	None	38.1	Birds, truck plus door slamming + humain voive + dog barking. All at about 200 meters from sound meter.
17/11/2013	R01	12:46	-30	Calm	None	25.4	Birds.
17/11/2013	R02	12:25	-30	Calm	None	27.6	Birds, squirrel and vehicle.
17/11/2013	R03	12:07	-30	Calm	None	31.1	Ravens, squirrel and vehicle.
17/11/2013	R04	11:48	-30	Calm	None	35.9	Ravens.
17/11/2013	R05	13:01	-30	Calm	None	23.8	Quiet.
29/11/2013	Cmpgrnd	15:08	-23	Calm	None	26.4	Chainsaw in town, birds chirping.
29/11/2013	R01	14:52	-23	Calm	None	27.4	Birds chirping, snowmobile in distance.
29/11/2013	R03	14:36	-23	Calm	None	46.7	Ravens, chainsaw and dog barking in the distance, water truck drove by and backed up (alarm) nearby.
29/11/2013	R04	14:20	-23	Calm	None	29.0	squirrels and little birds in distance, ravens flying by, someone coughing, doors closing nearby, dog barking.
29/11/2013	R05	13:59	-24	Calm	None	30.7	Raven calling, snowmobile in distance, squirrel nearby.
13/12/2013	Cmpgrnd	10:55	-20	N-W Calm	None	25.2	Quiet, birds signing once.
13/12/2013	R01	10:35	-20	N-W Calm	None	24.4	Quiet.
13/12/2013	R02	10:17	-20	N-W Calm	None	32.1	Raven, birds, squirrel.
13/12/2013	R03	10:02	-20	N-W Calm	None	27.3	Raven, birds, squirrel.
13/12/2013	R04	9:44	-20	N-W Calm	None	31.2	Raven flying and walking around. Birds signing.
13/12/2013	R05	11:13	-20	N-W Calm	None	27.1	Quiet, squirrel.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
31/12/2013	R05	13:52	-18	calm	None	30.7	A few little birds chirping.
31/12/2013	R04	14:06	-18	Calm	None	44.0	lots of ravens flying, calling. Dog chewing on bone nearby. Person walking by, closing door.
31/12/2013	R03	14:20	-17	Light (<10km/h)S	None	35.8	Two vehicles drove through town. Flagpole dinging in the wind. People talking, walking in town.
31/12/2013	R01	14:34	-17	Calm	None	26.4	Little birds chirping. Raven flew by.
31/12/2013	Cmpgrnd	14:49	-17	Calm	None	25.2	Ravens calling in distance. Someone coughing. Little birds chirping.
20/01/2014	R04	14:04	-14	Calm	None	49.8	Distant grader. Birds. Vehicle.
20/01/2014	R03	14:24	-13	Calm	None	45.6	Distant grader. Birds.
20/01/2014	Cmpgrnd	14:39	-13	Calm	None	30.7	Distant grader.
20/01/2014	R01	15:13	-14	Calm	None	38.8	Distant grader. Vehicle.
20/01/2014	R05	14:56	-14	Calm	None	68.1	Grader went by.
29/01/2014	R05	15:07	-12	Calm	None	26.6	Squirrels, whiskeyjack calling nearby.
29/01/2014	R04	15:23	-12	Calm	None	33.5	Small bird chirping, ravens calling and flying by.
29/01/2014	R03	15:36	-12	Calm	None	41.1	Ravens calling, truck driving by, squirrel chatting, small bird chirping.
29/01/2014	R01	15:50	-12	Calm	None	26.1	Squirrel chatting, door closing in distance, birds calling, neighbour getting firewood.
29/01/2014	Cmpgrnd	16:06	-12	Calm	None	23.5	Squirrel chatting, bird chirping, ravens flying over and calling.
05/02/2014	R05	12:55	-20	light (5km/h)	None	28.4	Raven calling, squirrel chattering.
05/02/2014	R04	13:12	-20	light(<5km/h)	None	31.2	Small bird chirping, ravens calling and flying, door closing in distance X3, neighbour getting firewood.
05/02/2014	R03	13:27	-20	light(<5km/h)	None	26.5	Ravens calling in distance. Squirrel chattering, small birds, truck creaking.
05/02/2014	R01	13:40	-18	light(<5km/h)	None	43.0	Squirrel chattering, ice inside old dump truck (beside sample site) cracked loudly, birds chirping.
05/02/2014	Cmpgrnd	13:59	-19	light(<5km/h)	None	26.0	Small birds chirping, ravens in distance.
26/02/2014	R05	14:14	-9	Calm	None	32.5	Water truck running nearby, driving. Squirrel chattering, little birds calling.
26/02/2014	R04	14:31	-8	Calm	None	35.4	Ravens calling, person walking by and into house.
26/02/2014	R03	14:56	-8	Calm	None	30.9	Lots of squirrels chattering, dog barking in distance, small birds chirping, radio from neighbours house, raven calling.
26/02/2014	R01	15:10	-8	Calm	None	27.7	Little birds chirping. Squirrels.
26/02/2014	Cmpgrnd	15:26	-8	Calm	None	31.2	Someone chainsawing in town. Birds chirping.
05/03/2014	R05	14:19	-14	Calm	None	28.0	Raven calling in distance. Lots of little birds chirping nearby.
05/03/2014	R04	14:37	-14	Slight breeze	None	30.1	Ravens calling nearby. Squirrels chattering. Helicopter in distance. Little birds chirping. Ravens flying by.
05/03/2014	R03	14:50	-13	light (<10km/h)	None	40.1	Vehicle in town idling. Lots of little birds chirping. Raven calling. Flags tinging on flagpoles. Helicopter in distance.
05/03/2014	R01	15:04	-13	calm	None	26.9	Vehicle driving through town and by twice.
05/03/2014	Cmpgrnd	15:19	-14	very slight breeze	None	28.5	lots of little birds chorping. Rvens in distance. Helicopter faintly in distance.
29/03/2014	R05	14:31	-3	Slight breeze	None	28.7	little birds chirping. Ravens in distance. Helicopter in distance. Backup alarm in town.
29/03/2014	R04	14:48	0	light (10 km/h)	None	34.8	Lots of small birds calling nearby. Squirrel chattering.
29/03/2014	R03	15:00	0	light (10 km/h)	None	29.8	Ravens calling closeby. Small birds calling. Diamond drill and equipment working in distance. Wind chimes. Someone scraping snow.
29/03/2014	R01	15:13	0	Slight breeze	None	31.3	Flags hitting flagpoles. Lots of small birds calling nearby. Raven calling. Squirrel chattering. Squirrel climbing on sign nearby.
29/03/2014	Cmpgrnd	15:34	0	Slight breeze	None	27.6	Small birds. Squirrel chattering. Steel pipe made sound as it expanded.
09/04/2014	R01	10:04	-10	Calm	None	45.9	Small birds calling. Bulldozer (drillers) going down Duncan creek road in distance. Someone working on something in town. Raven calling.
09/04/2014	R02	9:55	-10	Calm	None	44.7	Pickup , backup alarm. Birds.
09/04/2014	R03	9:24	-10	Calm	None	29.8	Water truck x 2, delivering.
09/04/2014	R04	9:00	-10	Calm	None	33.8	Water truck x 2, delivering.
09/04/2014	R05	10:47	-10	Calm	None	28.0	Ravens.
09/04/2014	Cmpgrnd	10:32	-10	Calm	None	25.2	Ravens.
18/04/2014	R01	15:43	2	Calm	None	32.0	Squirrel.
18/04/2014	R02	16:22	2	Calm	Snow/rain	30.0	Birds, loader, backup alarm far away.
18/04/2014	R03	15:20	2	Calm	Snow	61.4	Car, birds.
18/04/2014	R04	15:04	2	Calm	Snow	36.2	Loader, backup alarm. Car +horn. People talking, dog barking.
18/04/2014	R05	16:37	2	Calm	None	31.6	Ravens, birds.
18/04/2014							Birds.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
18/04/2014	Cmpgrnd	15:04	2	Calm	Rain/snow	34.2	Birds.
11/05/2014	R01	9:14		strong N wind	None	45.7	Birds, creek.
11/05/2014	R02	8:58		Light N wind	None	40.7	Birds, car, house doors slamming.
11/05/2014	R03	8:42		Light N wind	None	40.3	Birds.
11/05/2014	R04	8:27		calme	None	34.4	Birds.
11/05/2014	R05	10:21		Light N wind	None	38.8	Wind in trees, bear or moose cracking branches.
11/05/2014	Cmpgrnd	9:30		Light N wind	None	52.4	Creek.
29/05/2014	R01	10:50		Light SW wind	None	43.4	Creek.
29/05/2014	R02	10:30		Light SW wind	None	31.5	Raven, truck.
29/05/2014	R03	9:50		Light SW wind	None	44.3	Raven, car, truck running idle, starting.
29/05/2014	R04	9:40		Light SW wind	None	33.6	Ravens.
29/05/2014	R05	11:40		Light SW wind	None	32.7	Birds.
29/05/2014	Cmpgrnd	11:20		Light SW wind	None	47.9	Creek.
01/06/2014	R01	15:49		strong wind all directions	None	46.1	Creek, wind, dog barking.
01/06/2014	R02	15:33		strong wind all directions	None	36.8	Doors slamming x 2.
01/06/2014	R03	15:20		strong wind all directions	None	40.8	Truck, trailer, horn.
01/06/2014	R04	15:03		light wind all directions	None	31.8	ATV far away.
01/06/2014	R05	16:18		strong wind all directions	None	35.7	Silent.
01/06/2014	Cmpgrnd	16:03		strong wind all directions	None	50.0	Creek.
26/06/2014	R01	12:52		strong N wind	None	47.0	Wind in trees,creek, birds.
26/06/2014	R02	12:38		strong N wind	None	57.3	Wind in trees, car, chainsaw, ravens, people talking.
26/06/2014	R03	12:25		N wind	None	49.0	Wind in trees, ATV, music, car, ravens.
26/06/2014	R04	12:09		N wind	None	33.5	Wind in trees, birds.
26/06/2014	R05	13:30		N wind	None	42.3	Wind in trees, birds.
26/06/2014	Cmpgrnd	13:11		N wind	None	50.5	Wind in trees, creek.
05/08/2014	R01	10:14		N wind	None	42.8	Wind in trees, creek, birds.
05/08/2014	R02	9:51		N wind	None	34.6	Truck running, people talking, door slamming, wind.
05/08/2014	R03	9:33		N wind	None	39.6	Truck running, people talking, wind.
05/08/2014	R04	9:19		N wind	None	38.7	Car starting, door slamming,, car passing by, wind.
05/08/2014	R05	11:47		N wind	None	36.9	Wind in willows.
05/08/2014	Cmpgrnd	11:17		N wind	None	46.1	Creek, wind, people talking.
23/08/2014	R01	13:36		N wind	None	45.1	Creek, house building.
23/08/2014	R02	13:19		N wind	None	67	Pickup truck, motor running.
23/08/2014	R03	13:07		N wind	None	32	Dog barking x 2, vehicles.
23/08/2014	R04	12:43		N wind	None	36.3	Ravens.
23/08/2014	R05	15:44		N wind	None	38.6	Dump truck, vehicles, drill far away.
23/08/2014	Cmpgrnd	13:54		N wind	None	48.9	Creek, vehicles.
03/09/2014	R01	16:01		W wind, strong	None	49.9	Wind + creek.
03/09/2014	R02	15:47		W wind, strong	None	47.8	Dogs barking, ATV's, wind, door slamming.
03/09/2014	R03	15:35		W wind, strong	None	52.7	2 trucks drove by, dogs barking, wind.
03/09/2014	R04	15:22		W wind, strong	None	37.9	Wind, ravens.
03/09/2014	R05	16:29		W wind, strong	None	41.6	Drill, wind.
03/09/2014	Cmpgrnd	16:15		W wind, strong	None	51.1	Wind, creek, vehicles.
18/09/2014	R01	16:02		NW little wind	None	45.3	Strong wind, creek.
18/09/2014	R02	15:48		NW little wind	None	53.9	ATVs, birds.
18/09/2014	R03	15:35		NW little wind	None	39.2	ATVs, birds.
18/09/2014	R04	15:22		NW little wind	None	32.5	Birds.
18/09/2014	R05	16:30		NW little wind	None	43.1	Little wind, leaves in wind.
18/09/2014	Cmpgrnd	16:15		NW little wind	None	48.9	Strong wind, creek.
15/10/2014	R01	14:28		No Wind	None	42.5	Creek, ravens, birds.
15/10/2014	R02	14:14		No Wind	None	46.7	Car, ravens, birds, squirrels.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
15/10/2014	R03	14:00		No Wind	None	40.2	Car, ravens.
15/10/2014	R04	13:40		No Wind	None	29.6	Squirrel, birds, door slamming.
15/10/2014	R05	15:31		No Wind	None	28.8	Ravens, birds.
15/10/2014	Cmpgrnd	14:46		No Wind	None	45.7	Creek, ravens, birds.
25/10/2014	R01	9:33		No Wind	None	38.0	Calm, creek, ravens, birds.
25/10/2014	R02	9:08		No Wind	None	30.2	Calm, ravens, birds.
25/10/2014	R03	8:53		No Wind	None	27.8	Calm, ravens, birds.
25/10/2014	R04	8:37		No Wind	None	31.0	Calm, ravens, birds.
25/10/2014	R05	10:36		No Wind	None	39.2	Calm, ravens.
25/10/2014	Cmpgrnd	10:22		No Wind	None	38.3	Calm, creek, ravens.
14/11/2014	R01	10:57		No Wind	None	67.4	Water truck, squirrel, creek.
14/11/2014	R02	10:37		No Wind	None	33.8	Calm.
14/11/2014	R03	10:10		No Wind	None	37.8	Car x 2.
14/11/2014	R04	9:56		No Wind	None	31.6	Ravens, calm.
14/11/2014	R05	11:30		No Wind	None	33.3	Calm.
14/11/2014	Cmpgrnd	11:12		No Wind	None	38.2	Creek, truck.
23/11/2014	R01	9:45		No Wind	None	26.5	Squirrel.
23/11/2014	R02	9:22		No Wind	None	27.9	Ravens.
23/11/2014	R03	9:01		No Wind	None	53.9	Ravens, truck x2.
23/11/2014	R04	8:46		No Wind	None	40.7	Ravens, truck idling.
23/11/2014	R05	10:12		No Wind	None	33.3	Ravens.
23/11/2014	Cmpgrnd	9:58		No Wind	None	22.7	Ravens.
01/12/2014							Noise Monitoring converted to 24 hours from 10 min measurements in December 2014

*All readings are taken using an Extech integrating sound level datalogger model 407780 to measure DBA for 10 min. Reading from 16/11/13 taken with an Casella CEL-63X model. (Laeq, Db.)



ATTACHMENT B

Keno Noise Monitoring Data December 2014 to December 2020



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAeq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
R01	2014-12-14 10:30	43.1	N/A	N/A			72.7	45.3	92.4	59.4	16.4	-4.8	-4.4	92.6	n/a
R02	2014-12-15 16:20	44.3	N/A	N/A			77.1	49.6	93.7	64.3	20	-4.8	-1.9	76.4	1.35
R03	2014-12-17 10:00	58.6	N/A	N/A			59.4	62	108	59.2	0.6	-4.8	-8.4	94.4	0.70
R05	2014-12-18 10:30	42	N/A	N/A			50.6	45.2	91.3	48.5	6.6	-4.8	-13.6	90.7	0.60
Campground	2014-12-22 12:30	25.4	N/A	N/A			43.5	27.4	74.8	38	12.6	-4.8	-9.6	93.8	n/a
R01	2015-01-10 10:15	28.8	N/A	N/A			38.2	33.4	78.2	35.6	6.8	-4.8	-10.2	93.7	n/a
R02	2015-01-11 15:50	33.8	N/A	N/A			43.8	36	83.2	40.3	6.5	-4.8	-10.1	93.3	n/a
R03	2015-01-13 8:40	28.6	N/A	N/A			40.7	31.6	78	37.9	9.3	---	-7.3	95.3	n/a
R04	2015-01-14 9:45	36.5	N/A	N/A			51.4	41.8	85.9	47.6	11.1	-4.8	-9.4	93.9	n/a
R05	2015-01-15 12:30	37.5	N/A	N/A			47.8	42.1	86.9	41.1	3.6	-4.8	-1.8	99.0	0.52
Campground	2015-01-22 8:30	23.2	N/A	N/A			28	23.4	72.6	22.5	-0.7	---	-9.8	93.6	0.47
N/A	2015-08-13 11:00	34.2	35.5	22.5	No	11.70	56.1	36.6	83.6	51.4	17.2	0.3	8.6	63.3	1.57
N/A	2015-08-14 13:30	111.8	116	45.5	No	66.30	123.9	119.1	161.2	118	6.2	0.3	9.7	68.4	1.68
N/A	2015-08-16 14:00	49.2	48	46.5	Yes	2.70	62.6	52.6	98.6	61.3	12.1	0.3	11.3	67.5	1.56
N/A	2015-08-23 11:00	60.6	61	60	No	0.60	62.7	61.2	110	62	1.4	0.3	8.3	84.0	1.38
N/A	2015-08-24 13:00	41.9	38.5	20.5	Yes	21.40	54.1	47.2	91.3	52	10.1	0.3	7.7	87.2	0.95
N/A	2015-09-12 10:00	---	8.5	8			---	---	57.7	---	-1.1	0.3	4.6	79.4	1.73
N/A	2015-09-14 10:15	---	8.5	8			---	---	57.7	---	-1.1	0.3	3.3	87.8	1.00
N/A	2015-09-15 10:30	---	8.5	8			---	---	57.7	---	-1.1	0.3	1.4	93.6	1.09
N/A	2015-09-17 6:00	---	8.5	8			---	---	57.7	---	-1.1	0.3	5.2	84.6	1.58
N/A	2015-09-18 13:15	---	8.5	8			---	---	57.6	---	-1.1	0.3	2.5	81.2	1.65
N/A	2015-10-17 12:40	30.4	31.5	20	No	10.40	44.8	35.8	79.8	40.5	10.1	0.3	3.3	94.8	0.76
N/A	2015-10-18 16:33	58.9	59.5	58.5	No	0.40	61	59.4	108.3	59.8	0.9	0.3	4.1	85.3	0.84
R05	2015-11-14 11:30	32.8	17	15	Yes	17.80	42.4	33.6	82.2	39.2	6.4	0.3	-18.4	86.5	n/a
R01	2015-11-16 8:30	34.7	19.5	16	Yes	18.70	51.2	37	84	49.2	14.5	0.3	-17.4	87.3	n/a
R04	2015-11-17 10:00	21.3	18	15.5	Yes	5.80	46.4	27.3	70.6	36.3	15	0.3	-21.0	83.9	n/a
R02	2015-11-19 9:00	33.1	16	15.5	Yes	17.60	46.9	40.3	82.4	44.2	11.1	0.3	-28.4	76.7	n/a
R03	2015-11-21 9:40	39.7	17.5	16	Yes	23.70	47.8	46	89	46.3	6.6	0.3	-9.0	94.0	n/a
Campground	2016-01-07 11:30	23.2	20	15.5	Yes	7.70	38.1	30.2	72.5	75.8	7.8	0.1	-16.1	81.8	0.63
R03	2016-01-08 18:45	28.3	19.5	16.5	Yes	11.80	40	35.9	77.7	74.6	4.5	-0.2	-11.5	90.4	0.44
R01	2016-01-09 19:30	39	20	15.5	Yes	23.50	48.9	41.7	88.4	79.3	6.4	-0.2	-14.6	89.7	0.51
R05	2016-01-10 20:30	30.6	20.5	15.5	Yes	15.10	44.1	35.5	80	71.6	5.7	-0.2	-18.2	86.5	0.33
N/A	2016-01-14 17:00	25.4	17	15.5	Yes	9.90	36.5	33.6	74.7	68.1	6.6	0.1	-8.1	94.5	n/a
Test	2016-02-13 14:00	22.3	25.5	16	No	6.30	41.9	28.3	43.5	40.2	14.5	0.1			



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAeq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
R04	2016-02-15 17:00	25.5	19	15.5	Yes	10.00	48.5	33.9	74.9	68.1	6.3	0.3	-7.8	89.0	1.12
R03	2016-02-17 10:00	23.9	19	15	Yes	8.90	40.3	30.2	73.3	66.8	11.6	-2.1	-22.9	77.9	0.45
Ball diamond	2016-02-25 9:00	---	18.5	15.5	Yes		43.7	24.4	69.3	56.2	9.2	-0.2	-5.5	81.4	1.27
Campground	2016-02-26 9:35	21.4	21.5	16	No	5.40	43.9	26	68.9	57	9.3	0.2			
R01	2016-02-28 10:40	22.4	20.5	16.5	Yes	5.90	55.1	26.1	71.8	65	15.6	-0.5	-2.8	85.0	0.92
R04	2016-03-12 17:30	37.5	25	15.5	Yes	22.00	56.9	44.4	86.8	82	3.8	0.4	-5.3	62.8	1.03
N/A	2016-03-14 10:32	44.9	24	21	Yes	23.90	49	48.2	94.2	91.6	2.9	0.1	-7.6	88.2	0.87
R05	2016-03-15 11:32	26.1	22	17	Yes	9.10	56.1	32.5	75.5	65.4	13.8	-0.1	-6.2	91.4	0.86
R03	2016-03-17 10:00	111.8	115.5	45.5	No	66.30	127.7	120.4	161.2	136.7	7.8	-0.1	-4.9	70.9	1.09
Campground	2016-03-18 11:00	27.7	30.5	18.5	No	9.20	57.5	31.3	77.1	63.7	12.9	-0.1	-7.8	72.8	1.89
N/A	2016-04-01 15:00	54.4	46	30.5	Yes	23.90	61.6	64.7	103.7	108.5	4.9	0.2	3.5	67.2	1.25
R05	2016-04-15 11:46	31.9	30	18	Yes	13.90	54.3	34.4	81.2	67.1	9.1	-0.1	3.2	63.6	1.51
R03	2016-04-16 13:00	41	34.5	17	Yes	24.00	60.8	43.7	90.4	75.3	12.1	----	3.7	57.2	1.56
R04	2016-04-18 15:30	28	27	17	Yes	11.00	56.3	36.1	77.4	72	11.9	-0.1	0.5	64.2	1.73
R02	2016-04-23 8:30	29.1	28.5	16.5	Yes	12.60	65.9	38	78.5	66.9	20.1	0.1	7.3	59.3	1.44
Campground	2016-04-24 9:05	35.2	34.5	27.5	Yes	7.70	52.4	36.9	84.5	67.9	14.3	-0.1	7.6	59.9	1.28
R01	2016-04-25 12:00	39.1	39.5	36.5	No	2.60	55.1	39.5	88.4	73.4	13.5	-0.1	5.7	57.5	1.78
R01	2016-05-15 8:40	49.3	50.5	48	No	1.30	57.5	49.7	98.7	66.3	3.3	-0.1	12.2	47.4	2.30
R02	2016-05-16 11:10	44.4	42.5	24.5	Yes	19.90	64.9	56.9	93.8	84.1	10.7	----	5.9	71.5	3.12
R03	2016-05-18 13:00	38.7	38.5	24.5	Yes	14.20	60.2	40.4	88.1	76.9	13.6	0.1	7.5	66.6	1.88
R04	2016-05-19 14:15	39.2	34	21.5	Yes	17.70	59.5	46.8	88.6	81	6.3	-0.2	10.3	56.7	1.57
Campground	2016-05-21 8:30	47.1	48.5	44.5	No	2.60	56.8	47.8	96.4	79.2	7.7	----	16.6	39.4	1.47
R05	2016-05-22 11:30	41	44	30.5	No	10.50	52.8	42.8	90.4	69.9	10.3	-0.2	9.9	66.2	1.72
R01	2016-06-13 8:40	50.9	51	50	No	0.90	53.8	54.5	100.2	85.4	2.5	----	11.1	78.0	1.63
R05	2016-06-19 8:40	39.7	42.5	31.5	No	8.20	53	41.6	89.1	70.4	7.5	0.1	19.6	26.9	2.28
R04	2016-06-20 13:40	38.5	34	21	Yes	17.50	55.6	48.8	87.9	82.7	10	0.1	10.3	79.6	1.47
R03	2016-06-29 13:00	48	44	22.5	Yes	25.50	61	53.6	97.3	91.1	10.8	-0.2	15.5	67.8	1.35
Campground	2016-06-30 18:00	51.1	51	15.5	Yes	35.60	57	60.1	100.5	95.4	5	0.1	12.7	83.3	0.69
R05	2016-07-17 8:30	40.5	42	30.5	No	10.00	52.9	43.3	89.9	75.8	8.9	----	14.8	64.6	2.50
Campground	2016-07-18 14:30	48.3	46.5	44.5	Yes	3.80	54.1	56.6	97.6	90.1	4.7	-0.1	11.2	82.5	1.61
R03	2016-07-30 19:30	40.3	38.5	27	Yes	13.30	61.1	46.4	89.7	84.8	14	----	13.7	69.0	2.00
R01	2016-07-31 20:00	91	92.5	61.5	No	29.50	105.5	97.9	140.3	128.2	5.4	0.2	12.5	65.7	1.93
N/A	2016-08-18 16:35	94.1	71	35	Yes	59.10	109.9	101.7	143.5	132.6	7.9	-0.2	9.6	87.0	0.84
N/A	2016-08-20 13:00	38.1	40	29	No	9.10	52.3	40.5	87.4	75.3	10.4	0.1	10.6	72.3	1.55



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAeq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
Campground	2016-09-21 17:05	44.3	46	40.5	No	3.80	59.3	47.9	93.7	77.5	5.1	----	10.1	36.8	2.63
R01	2016-09-22 17:51	46.5	47	45	No	1.50	64.8	46.9	95.8	72.8	5.2	0.1	7.2	56.4	2.47
R04	2016-09-23 20:15	33.9	33.5	23.5	Yes	10.40	57.2	38.1	83.3	72	13.8	-0.1	4.1	59.1	1.85
R05	2016-09-24 20:40	77.2	73.5	39.5	Yes	37.70	89.3	89.8	126.6	122.1	4.5	0.2	0.9	94.4	0.88
N/A	2016-09-28 15:30	37	31	22.5	Yes	14.50	58.5	39.8	86.3	77.2	13.7	----	1.0	66.7	1.90
N/A	2016-10-09 9:30	42.2	43	41	No	1.20	49.5	42.8	88.4	72.6	5.3	-0.2			
N/A	2016-10-21 12:45	35.2	22	19	Yes	16.20	47.5	47.2	83.9	91.5	11.4	1.3			
N/A	2016-10-22 9:25	42	39.5	38	Yes	4.00	54.2	48.2	90.5	91.7	11.1	-1.1			
N/A	2016-10-23 10:28	38.7	39	38	No	0.70	45.6	40.9	87.2	82.1	3.2	-0.1			
N/A	2016-10-25 10:00	36	35.5	26	Yes	10.00	63.4	40.8	85.3	81	22.3	-0.1	-15.2	89.0	0.54
N/A	2016-10-26 11:00	33.2	34.5	25	No	8.20	59.3	35.6	82.6	70.6	22.2	-0.1	-10.7	92.1	0.66
NA	2016-10-28 9:00	35.2	37	28	No	7.20	60.3	37.9	78.6	67.8	21.4	-0.1			
NA	2016-10-31 14:00	31.4	34	21.5	No	9.90	60.1	33.8	79.9	65.9	23.3	-0.1			
Campground	2016-11-09 7:30	34.2	34	32.5	Yes	1.70	56.4	39.5	69.2	68	6.3	0.1			
R05	2016-11-10 8:35	45.6	48.5	31	No	14.60	72.7	53.3	94.7	85.5	13.4	----			
R01	2016-11-11 7:15	40.4	40.5	37.5	No	2.90	53.6	42.4	89.8	83.4	7.1	----	1.3	69.8	1.90
	2017-06-22 13:15	42	31.5	21.5	Yes	20.50	55.6	49.9	91.4	52.7	10.7	-0.2	13.3	61.6	1.41
	2017-06-27 9:05	42.2	41	28.5	Yes	13.70	50.8	50.6	91.6	49	6.8	-0.1	12.6	65.2	1.89
	2017-06-28 13:50	46.5	44.5	42	Yes	4.50	52.6	54.7	95.9	51.6	5.1	0.1	13.2	67.1	1.60
	2017-07-23 11:30	43.7	41	25	Yes	18.70	61.7	47.5	93.1	56.2	12.5	-0.1	17.0	56.1	2.12
	2017-07-24 12:30	36.4	36.5	22	No	14.40	64	40.3	85.8	50.7	14.3	-3.3	17.0	57.0	2.00
	2017-11-17 9:00	41.5					53	43	90.9	46.9	5.3	----	-21.5	82.8	0.34
	2017-11-22 9:00	37					46.8	38.6	86.3	37.9	0.9	----	-28.8	75.8	0.14
	2018-03-29 8:30	35.2	31.5	21.5	Yes	13.70	65	42.6	84.5	54.1	18.9	0	-11.8	42.0	1.53
	2018-03-30 13:30	39.4	39.5	20.5	Yes	18.90	68	44.7	88.8	56.5	17.1	0.1	-11.0	42.0	1.78
	2018-04-03 13:20	44.7	47.5	19.5	Yes	25.20	75.4	48.4	91.9	35.2	20.5	0.1	-12.0	46.0	2.38
	2018-04-05 15:20	47.6	49.5	18.5	Yes	29.10	78.3	51.8	89.1	68.1	20.5	-0.3	-13.6	49.5	1.49
R05	2018-06-14 20:43	42.4					38.6	28.9	71.5	37.4	11.4	-5.7	10.4	53.0	1.74
R02	2018-06-19 17:49	26.8					40.9	26.9	69.2	34.7	10.5	-5.7	17.4	45.1	2.11
R05	2018-06-21 0:54	34.5					50.6	51.3	84	49.4	10.1	-5.7	16.9	55.8	1.47
R01	2018-06-26 16:35	39.2					51.3	38	79.5	50	15.5	0	11.3	71.8	1.38
R05	2018-07-19 0:18	24.2					43.4	31.4	72.1	40.6	13.8	-3.1	11.6	64.2	1.30
Campground	2018-07-24 19:55	26					73.5	49	85.9	66.1	23.7	0.1	17.3	52.9	1.17
R04	2018-08-29 12:45	37.1	32.5	23.5	Yes	13.60	62.3	41.1	86.4	50.5	13.4	0.1	8.3	75.5	1.40



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAeq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
R01	2018-08-30 13:45	53.1	53.5	52.5	No	0.60	57.4	54.6	102.4	55.9	12.8	-0.1	6.7	74.7	1.46
R03	2018-08-31 15:15	47.4	46	29.5	Yes	17.90	65.9	55.2	96.8	60	12.6	-0.1	4.1	90.7	0.98
Campground	2018-09-05 12:35	48.4	47.5	47	No	1.40	56.8	53.3	97.8	54.2	5.8	-0.1	7.1	73.0	1.37
R03	2018-09-06 12:55	42.2	42	25.5	Yes	16.70	65.5	52.2	94.5	56.6	11.4	0	5.0	89.4	0.60
R01	2018-09-07 18:20	46.8	47	45	No	1.80	62.7	47.6	96.2	55.1	8.3	0	4.7	85.5	1.07
R02	2018-09-09 7:50	31	30.5	20.5	Yes	10.50	59.1	36.3	80.4	49.2	18.2	-0.1	4.7	65.2	2.25
R05	2018-09-10 8:10	35.7	36.5	24.5	Yes	11.20	63.1	38.5	85.1	50	14.3	0.2	5.6	57.2	1.20
	2018-10-02 17:41	35.6	41.5	19	Yes	16.60	56.5	38.1	77	47.1	11.5	0	1.4	43.8	1.57
	2018-10-05 18:55	39.5	33.5	20	Yes	19.50	64.8	43.4	88.9	52	12.5	0	-2.7	56.5	1.15
R03	2018-10-07 8:00	45.9	40.5	21	Yes	24.90	64.7	53.1	95.3	63.3	17.4	-0.2	-3.5	53.8	2.26
Campground	2018-10-08 8:27	127.8	129.5	124	No	3.80	131.1	128.5	177.1	129.3	1.5	0.3	-7.2	65.2	1.29
	2018-10-10 10:00	45	30	17.5	Yes	27.50	58	46	94.3	54.9	9.9	0.3	-3.4	70.5	1.09
	2018-10-24 10:00	38.8	32	24.5	Yes	14.30	52.3	41.1	88.1	48	9.2	-0.5	3.3	79.2	1.89
	2018-10-25 10:35	39.1	40	21.5	Yes	17.60	68.3	44.3	88.5	54.7	15.6	0	4.6	57.8	2.92
	2018-11-18 17:35	35.9	23	19	Yes	16.90	50.6	41.3	85.3	47.1	11.2	-0.2	-16.5	87.6	0.40
	2018-11-19 18:20	25.7	21.5	18	Yes	7.70	51.8	29.8	75.1	41.5	15.8	-0.1	-11.6	91.6	0.36
	2018-11-21 8:34	40.7	19	17	Yes	23.70	55.3	43.1	90	54.1	13.4	0.6	0.1	96.3	0.44
	2018-11-28 13:05	27.6	23.5	18.5	Yes	9.10	42.5	29.2	76.9	40.5	12.9	-0.4	0.7	82.0	1.78
	2018-11-30 13:05	38.8	37	37	Yes	1.80	52.6	39.6	88.2	49.2	10.4	-0.3	-4.1	96.9	0.29
	2018-12-11 7:01	41.3	40	19.5	Yes	21.8	69.9	47	90.6	56.7	15.4	-0.4	-3.6	84.1	1.43
	2018-12-12 9:01	37.6	37.5	37	Yes	0.6	54.7	37.9	86.9	42.3	4.7	0.2	-3.1	81.9	1.90
	2018-12-13 9:24	39.4	38	38	Yes	1.4	52.4	42.7	79.4	40.4	1	0.2			
	2018-12-27 13:50	7.5	8	7.5	No	0	12.7	7.7	50.6	6.6	-0.9	0.2			
	2018-12-29 14:50	20	21.5	17.5	No	2.5	37.7	20.9	61.6	30.9	10.9	-0.3			
Campground	2019-01-25 15:20	22.5	22	17	Yes	5.5	44.6	28	71.9	37.9	15.4	-0.3	-10.1	92.8	0
Campground	2019-02-23 15:25	20.5	19	17	Yes	3.5	37.2	23.7	69.8	31.1	10.6	0.1	-21.5	77.9	0.95
Campground	2019-05-10 14:30	48.5	44.5	42	Yes	6.5	63.9	58.8	97.8	53.7	5.2	0	9.7	34.5	2.51
Campground	2019-07-11 14:20	53.5	40	37	Yes	16.5	67.9	62.3	102.9	65.9	12.4	-0.1	13.6	77.2	1.23
Campground	2019-10-31 11:30	34.4	35	32.5	No	1.9	42.2	36.9	83.8	38.4	4	-0.4	-4.6	95.9	0.93
Campground	2019-11-14 13:15	21	23	17	No	4	41.8	24.8	70.4	32.6	11.6	0.2	-17.3	84.4	0.9
R01	2019-01-29 13:00	40.6	41	40	No	0.6	50.1	40.8	84.2	39.6	-1	-0.2	-16.4	87.8	0.41
R01	2019-02-24 16:35	43.2	43.5	42	No	1.2	51.5	43.2	92.5	41.5	-1.7	0.1	-18.4	77.8	0.75
R01	2019-04-25 12:30	41.8	40.5	18.5	Yes	23.3	59.6	43.6	91.1	58.6	16.8	0.2	-3.4	63.4	1.63
R01	2019-05-01 11:30	34.8	38	21	No	13.8	55.9	38.8	84.2	48.1	13.3	0.1	5.2	33.9	2.95



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
R01	2019-07-16 14:45	37.7	38.5	26.5	No	11.2	52.6	39.8	87	50.3	12.6	-0.1	14.8	64.7	1.54
R01	2019-09-24 13:40	38.3	39	26.5	No	11.8	50.5	39.7	87.7	49.4	11.1	-0.1	2.3	71.9	1.3
R01	2019-10-23 13:50	49.8	40	39	Yes	10.8	53.9	51.1	99.1	51.1	1.3	-0.1	-5.5	91.5	1.02
R02	2019-08-28 14:40	45.5	44	43	Yes	2.5	60.3	47.2	91.1	52.9	7.4	0	8.4	61	1.56
R02	2019-09-27 13:30	45.8	45.5	44.5	Yes	1.3	61.1	46.7	84.8	51	5.2	0.4	-1.2	64.2	1.42
R03	2019-03-05 13:20	41.3	44	17.5	No	23.8	52.2	42.2	89	45	3.7	-0.9	-16.2	65	0.92
R03	2019-03-07 13:20	37.5	41.5	17	No	20.5	53.1	38.6	75.1	44.6	7.1	-0.9	-14.9	57.5	0.92
R03	2019-02-22 13:25	40.3	31	17.5	Yes	22.8	55.6	41.6	82.2	53.7	13.4	-0.4	-19.3	73.1	1.33
R03	2019-03-07 16:51	28.3	21	17	Yes	11.3	48.8	30.4	70.6	45.4	17.1	0.2	-14.7	61.6	1.2
R03	2019-04-20 10:30	45.1	39.5	21.5	Yes	23.6	65.3	48.4	94.5	58.8	13.7	-0.1	0.4	56.1	1.84
R03	2019-05-23 13:30	56.4	45.5	27	Yes	29.4	83.2	68.8	105.7	74.6	18.2	0	14	44.2	1.57
R03	2019-08-27 14:20	39.1	39	23.5	Yes	15.6	60.7	42.6	84.8	53.6	14.5	-0.1	8.1	61.7	1.89
R03	2019-09-19 14:05	43.4	45.5	24.5	No	18.9	67.9	51.8	92.7	62.4	19	0.1	5.4	93.5	1.03
R03	2019-10-25 15:55	24.3	22.5	19	Yes	5.3	42.6	32.6	71.8	38.9	14.6	0.1	-5	91.2	0.98
R03	2019-11-20 12:10	40.6	23.5	17.5	Yes	23.1	47.3	43.6	89.9	44.3	3.7	0.1	-6	95.5	0.8
R03	2019-12-17 12:30	42.4	45	17.5	No	24.9	50.6	42.4	91.7	42.2	-0.2	-0.3	-21.4	83.3	0.21
R04	2019-01-31 16:30	39.4	40	39	No	0.4	50	39.5	76.4	39.9	0.5	1	-14.2	86.1	1.62
R04	2019-02-26 13:35	31.4	21	17.5	Yes	13.9	41.6	34.7	80.7	38.5	7.1	-0.2	-14.4	78.2	0.6
R04	2019-04-16 18:22	27	30	20.5	No	6.5	52.3	31.3	63.3	44.7	17.7	0.1	0	69.5	1.11
R04	2019-04-19 9:45	39.2	35.5	21.5	Yes	17.7	61.8	42.6	88.5	55.7	16.5	-0.4	2.2	60.1	2.27
R04	2019-05-09 11:15	33.6	34	20.5	No	13.1	67.4	35.7	82.9	52.5	18.9	0.1	8.4	50.1	2.35
R04	2019-06-26 13:15	38.3	33.5	21.5	Yes	16.8	58.1	42.9	87.6	46.4	8.1	0.2	15.2	49.4	1.96
R04	2019-07-04 13:25	39.4	32.5	20.5	Yes	18.9	53.9	47.1	88.7	43	3.6	0.1	15.7	67.6	1.42
R04	2019-08-23 13:50	39.2	33	22.5	Yes	16.7	55	43	83.5	46.4	7.2	0.1	8.5	61	1.22
R04	2019-09-18 11:35	59.8	58.5	22.5	Yes	37.3	69.7	72.4	109.1	63.1	3.3	-0.3	5.1	86	1.53
R04	2019-10-17 13:00	29.6	28.5	20.5	Yes	9.1	46.8	35.4	79	40.4	10.8	-0.3	-3.2	88.3	0.77
R04	2019-11-15 11:50	43.4	45	18.5	No	24.9	50.9	44.5	92.8	42.5	-0.9	0.1	-21.2	80.8	0.69
R04	2019-12-13 17:18	64.5	66	59	No	5.5	67	71.5	85.3	66	1.5	0.3	-11.1	89.6	0.35
R05	2019-01-23 11:20	19.8	19.5	17	Yes	2.8	37.7	22.9	69.2	29.1	9.3	-0.2	-23.93	80.8	0
R05	2019-02-21 8:45	24.3	27	17	No	7.3	47.4	26	73.1	32.6	8.3	-0.4	-16.9	82	1.66
R05	2019-04-15 17:30	115	117.5	110	No	5	124.2	117.6	164.4	120.2	5.2	-0.3	-0.6	66.6	1.37
R05	2019-05-07 10:55	33	35	19	No	14	54.7	35.3	82.4	43.6	10.6	0.1	8.3	53.5	1.82
R05	2019-06-27 13:15	35.5	39	23.5	No	12	50.3	36.3	81.1	40.9	5.4	-0.2	15.4	29.8	1.64
R05	2019-08-22 13:20	35.4	39	19.5	No	15.9	49.2	37	79	42.7	7.3	0	4.8	66	1.2



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAeq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
R05	2019-10-22 13:15	23.7	26	19	No	4.7	43.8	26.5	73.1	30.7	7	0.1	-3.1	90.4	0.93
Campground	2020-01-30 13:05	19.4	18.5	17	Yes	2.4	45.2	23.8	68.7	27.8	8.4	-0.2	-12.0	90.3	0.74
R01	2020-02-21 14:00	19.3	20	17	No	2.3	45.3	21.5	66.7	32.9	13.6	0.1	-3.4	59.2	0.33
R01	2020-03-31 14:20	44.2	47.5	17.5	No	26.70	56.2	44.2	93.5	43.7	-0.5	0	-12.5	31.6	2.27
R01	2020-06-25 13:15	53.3	54	52.5	No	0.80	64	53.8	102.7	56.8	3.5	-0.1	10.4	72.7	1.27
R02	Station was not monitored in 2020.														
R03	2020-02-20 12:10	44.2	48	18	No	26.20	77.8	46	93.6	65.3	21.1	0.1	-5.8	63.7	2.44
R03	2020-03-12 14:00	43.4	45.5	18	Yes	25.40	52.7	43.9	92.7	46	2.6	-0.2	-21.2	57.1	0.99
R03	2020-05-06 14:55	40.9	34.5	20	Yes	20.90	56.2	47.6	90.3	50.4	9.5	0	10.0	32.4	2.27
R03	2020-06-23 08:00	53.2	54	33	No	20.20	60.6	65.5	102.6	56.8	3.6	-0.2	5.7	94.3	1.76
R04	2020-01-31 14:05	47.7	46	45.5	Yes	2.20	58.8	50	97	51.8	4.1	0.4	-13.0	89.6	0.54
R04	2020-02-18 14:10	110.7	114	103	No	7.70	123.4	116.2	160.1	116.2	5.5	-0.4	-21.3	80.3	0.52
R04	2020-03-09 13:35	34.6	31	19.5	Yes	15.10	62.8	41	83.9	47.8	13.2	0.2	-10.5	83.3	1.01
R04	2020-05-07 16:05	31.8	33	23.5	Yes	8.30	55	36.3	76	41.5	9.7	-0.1	10.4	35.4	0.97
R04	2020-06-30 13:15	44.4	42.5	30	Yes	14.40	51.9	53.5	93.7	50.3	5.9	0.1	11.7	72.0	2.48
R05	2020-01-23 01:55	19.4	20	17.5	No	1.9	47.5	23.3	59.5	27.9	8.5	0.1	-11.9	90.4	0.04
R05	2020-02-26 13:00	33.8	19.5	17	Yes	16.80	44.3	41.3	83.1	41.5	7.7	-0.3	-18.6	83.5	1.20
R05	2020-03-26 14:50	44.4	47.5	21	No	23.40	74.6	44.9	93.8	59.7	15.3	0.3	-5.0	67.6	3.03
R05	2020-05-22 12:45	41.8	36.5	28.5	Yes	13.3	60.1	46.5	80.1	52.2	10.4	0	16.8	21.7	2.05
R05	2020-06-24 12:10	51.1	43.5	27	Yes	24.10	55.9	63.2	100.5	53.3	2.2	0.1	7.2	91.8	1.38
Unknown	2020-02-07 14:20	29.9	20.5	17.5	Yes	12.40	42.5	32.3	79.3	39.5	9.6	0	-10.8	90.7	0.33
Unknown	2020-02-27 13:50	118.3	119	117	No	1.3	125	118.4	167.6	116.9	-1.4	0.4	-16.1	81.9	2.51
Unknown	2020-03-25 14:30	31	27.5	18	Yes	13	49.1	37.9	80.4	38.8	7.8	-0.4	-0.7	81.3	2.65
Unknown	2020-04-02 13:00	18.9	18.5	17.5	Yes	1.40	54.2	23.6	58.4	34.7	15.8	0.3	-7.3	37.1	1.70
Unknown	2020-04-10 00:15	35.2	28	18	Yes	17.20	62.6	41.6	84.5	46	10.8	-0.1	-4.4	34.4	2.15
Unknown	2020-04-16 14:20	35.8	36.5	17.5	No	18.3	63.7	40.6	85.2	49.2	13.4	0.2	8.4	59.1	2.31
Unknown	2020-04-28 02:02	22.3	23.5	18	Yes	4.30	52.1	24.7	71.6	38.1	15.8	-0.3	4.8	44.5	2.55
Unknown	2020-07-16 14:45	52.4	38	25.5	Yes	26.90	57.5	63.5	101.7	55.2	2.8	-0.1	18.7	43.6	1.87
Unknown	2020-07-22 12:55	56.1	53	51	Yes	5.10	59.3	65.4	105.4	58.5	2.4	0.1	11.0	86.5	2.03
Unknown	2020-07-23 14:45	51.4	42	26	Yes	25.40	61.9	54.9	100.8	60	8.6	-0.1	12.8	55.7	1.66
Unknown	2020-07-30 15:00	42.8	45	35.5	No	7.3	51.7	43.4	92.1	47.4	4.6	0.2	21.5	50.0	1.97
Unknown	2020-08-04 13:45	48.6	37	23.5	Yes	25.1	52.1	58.6	98	50.7	2.1	0.1	15.1	64.0	2.39
Unknown	2020-08-23 09:15	46.9	48	25	No	21.90	61.8	55.8	96.3	60.1	13.2	-0.2	11.5	82.2	0.17
Unknown	2020-08-24 10:20	54.8	49.5	24	Yes	30.80	59	68.8	104.2	58.5	3.7	0.2	10.3	87.2	0.67



Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAlaq (dB)	LAE (dB)	LCeq (dB)	LCeq- LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
Unknown	2020-08-25 10:45	58.8	58	27	Yes	31.80	64.5	71.1	108.1	63.7	4.9	-0.5	11.7	89.2	0.91
Unknown	2020-12-07 11:45	50.8	51	50.5	No	0.3	57.1	51.4	100.1	52.9	2.1	-0.3	-3.8	97.2	0.71
Unknown	2020-12-09 14:50	83.5	52	49	Yes	34.50	89.8	84.6	132.7	86.7	3.2	0.1			
Unknown	2020-12-17 08:35	51.9	53	50	No	1.9	71.2	53.6	101.3	67.6	15.7	0.4			
Unknown	2020-12-18 09:10	66.3	51.5	49	Yes	17.30	75.4	67	115.7	74	7.7	-0.6			
Unknown	2020-12-20 02:48	54.5	56.5	51.5	No	3.00	69.7	56.3	103.9	66.2	11.7	-0.1			

APPENDIX C

2020 DUST MONITORING RESULTS

Memorandum

To: Alexco Keno Hill Mining Corp.

From: Emilie Bouchard, Ensero Solutions

CC: Kai Woloshyn, Ensero Solutions

Date: March 29, 2021

Re: Air Quality Monitoring Summary 2020, Keno, YT

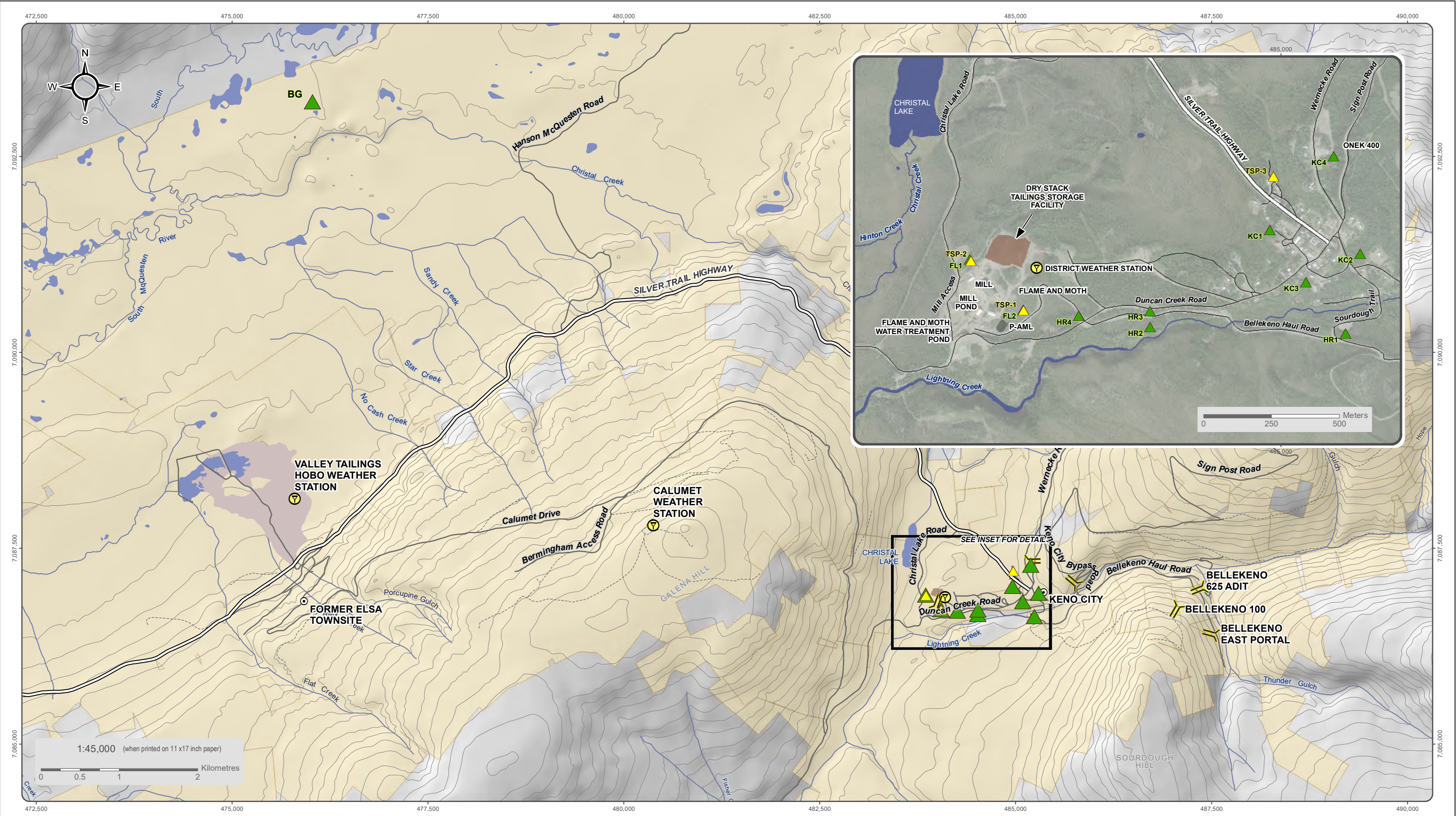
Attachments: A1 to A5 – Results and Meteorological Data (2012-2020)
B – Statistical Tests Results

1 INTRODUCTION

Alexco Keno Hill Mining Corp. (Alexco) submitted a Dust Abatement and Monitoring Plan (AKHM, 2021) to the Yukon Government to fulfill conditions set out in Schedule B of Quartz Mining License QML-0009 (issued November 27, 2019). The air quality monitoring program was established in 2009, in accordance with recommendations (clause 68 to 70) stated in the Decision Document for the assessment of the Bellekeno Mine Project (YESAB File Number 2009-0030). Air quality was monitored using dustfall monitoring stations installed at four locations near the Keno District Mill site (2011). The monitoring program was amended in 2012 in accordance with the Decision Document (clauses 36 to 37) for the assessment of the Onek and Lucky Queen Deposit production (YESAB File Number 2011-0315). The amended program included measurement of total particulates per volume of air for select size fractions (total suspended particulates (TSP)). Additional sampling for coarse and fine fractions of particulate matter (PM₁₀ and PM_{2.5}, respectively) was instigated in August 2015, in accordance with the revised Dust Abatement and Monitoring Plan required in the Decision Document (clause 19) for the assessment of the Flame & Moth Development and Production Program (YESAB file Number 2013-0161). Currently there are three air quality sampling stations in use for the project. This memorandum presents the results of the air quality monitoring program through 2020.

Mining development activities restarted in the fourth quarter of 2020 at Bellekeno, Flame & Moth and Bermingham mines. The Onek Water Treatment Plant near Keno City was constructed and commissioned in August to September. Exploration activities occurred on Galena Hill throughout the summer into the fall. Further drilling activity was completed in October and November 2020 to install groundwater wells at Bermingham, the Dry Stack Tailings Facility (DSTF) area and the Onek 400 portal. The mill was re-commissioned in December and included placement of tailings at the DSTF.

The goal of the monitoring program is to collect samples from three locations (TSP-1, TSP-2, and TSP-3: Figure 1) each month, to capture variability in air quality from various weather conditions. Potential dust sources include the DSTF, the crusher (building constructed over crusher in 2020), and unpaved access roads.



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Satellite imagery obtained from Yukon Geomatics map service <http://mapservices.gov.yk.ca/ArcGIS/services> on January 2021

Datum: NAD 83; Map Projection: UTM Zone 8N

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- Alexco TSP Monitoring Stations
- YG PM10 Monitoring Sites 2013
- Weather Station
- Adit

- Mine Feature Footprint
- Current DSTF
- Alexco/ERDC Quartz Claims
- Waterbody

- Watercourse
- Silver Trail Highway
- Other Road
- Limited-Use Road



ALEXCO KENO HILL MINING CORP.

FIGURE 1

METEOROLOGICAL AND

AIR QUALITY MONITORING STATIONS LOCATION

JANUARY 2021

D:\Project\All\Projects\Keno_Area_Mines\ALL-SITES\02-Map\04-Studies\Air_Noise_Dust\Air_Quality_Stra_YTG_20190328.mxd
(Last edited by: amalehaevka, 2021-01-12 09:30 AM)

2 INSTRUMENTATION AND METHODOLOGY

Two BGI Omni Ambient Air Quality Samplers (Figure 2) were commissioned in August 2012, one to the east of the mill and crusher (TSP-1) and one at the toe of the dry stack tailings facility (TSP-2). A third sampler (TSP-3), located in Keno City, was commissioned in December 2014, in accordance with the revised Dust Abatement and Monitoring Plan required in the Decision Document for the assessment of the Flame & Moth Development and Production Program (YESAB file Number 2013-0161). In August 2018, the plan was further revised, TSP-1 was relocated to the DSTF phase 2 expansion area to characterize ambient concentrations closer to town, and TSP-3 was relocated to the Alexco house in Keno City. The air quality samplers are equipped to such that the jet sizes installed can be changed to sample three sizes: TSP, PM₁₀ or PM_{2.5} inlets (Figure 3).

Samples are collected following Ensero's standard operating procedure (Ambient Air Quality Installation and Standard Operating Procedure; Ensero, 2021) to comply with the 24-hr, gravimetric NAPS reference method. If the 24-hr run is interrupted (e.g., power loss) a minimum of 75% data completeness is required for comparison to the Standard (CCME, 2011). As such filter runs were retained and sent to the laboratory if they ran for 18 or more hours.

On a monthly basis a total of nine samples are collected at each site, three samples for each filter inlet size, and sent to Bureau Veritas Laboratories (formerly Maxxam Analytics) for gravimetric analysis and ICP metals mass spectrometry for the TSP jet sample only. The monthly monitoring requirements are summarized as:

- Three (3) 24-hr runs with the TSP jet installed at each site: TSP-1, TSP-2, and TSP-3;
- Three (3) 24-hr runs with the PM_{2.5} jet installed at each site: TSP-1, TSP-2, and TSP-3; and
- Three (3) 24-hr runs with the PM₁₀ jet installed at each site: TSP-1, TSP-2, and TSP-3.

There are circumstances where the monthly requirements cannot be met, due to operating conditions. The air quality sampling equipment is not designed to operate below -20°C and as such during winter months the amount of sampling possible is reduced. In 2020, other than reduced sampling due to temperature below -20°C, seven samples were missed in March 2020, all for inlet jet size TSP, where site location TSP-1 was not sampled. TSP-2 was sampled twice, and TSP-3 was sampled once instead of three times. Three samples were missed in May 2020, all for inlet jet size TSP, where location TSP-1, TSP-2, and TSP-3 were all only sampled twice instead of three times. Five samples were missed in June 2020, all for inlet jet size TSP, where site location TSP-1 and TSP-2 were sample two times instead of three and TSP-3 was not sampled at all.

All these occurrences were due to power failure or time not recorded (i.e., runs were less than 18 hours). Full monthly sampling records would include all three sites, conducted with all three jet sizes. In 2020, complete monthly sampling records only occurred in February, August and September, while no data was collected in November 2020.

The dust sampling program at site is done concurrently with meteorological monitoring, particularly temperature, windspeed, and wind direction. This meteorological data is key in understanding where the prevailing winds would move any dust. The Keno District Mill weather station (shown on

Figure 1), records hourly wind speed and direction (height of 10 meters).



Figure 2: BGI Omni Ambient Air Quality Sampler



Figure 3: Inlet jet sizes: TSP (grey), PM10 (blue), and PM2.5 (red)

2.1 QUALITY ASSURANCE/QUALITY CONTROL

As per the field protocol, blanks were collected at rate of one blank per month as a quality assurance and quality control measure. Once a month the sampler randomly selects one sample site and one jet size and uses 2 filters: one is run in the equipment as a full sample run, the second (blank) is left at the air quality sampler in the field in its lab petri dish while the regular run occurs.

Collection of blanks began in December 2015. Each month the blank is sent to Bureau Veritas Laboratories with the full month of samples to be analysed for gravimetric analysis and ICP metals mass spectrometry. To date, 65 blanks have been collected, with most results measured as less than the detection limit. Results greater than two times the reported detection limit (RDL) are shown in Table 1. Note that blank results from September 29, 2017 were removed from the database as unusually elevated values indicated potential contamination of the filter.

2.1.1 Blanks

Blanks provide information on potential sampler and monitor contamination, as well as ambient air conditions. The 2020 blanks sampling events showed results higher than Reported Detection Limits in every month except July and December, as seen in Table 1 in blue. In March 2019, detection limits were revised for multiple parameters, and hence blanks would report more concentrations and insights into data.

Table 1: 2016 to 2020 Blanks with Results Greater Than Two Times the Reported Detection Limit (RDL)

Date	Parameters
29-Sep-2016	Cr, Sr
29-Dec-2016	Cr
29-Jan-2017	Cr
25-Mar-2017	Cr
25-May-2017	Cr, Fe, Zn
27-July-2017	Cr
21-Mar-2018	Cr
30-Oct-2018	Cr, Zn
27-Dec-2018	Fe
28-Mar-2019	Ni, Zn, Ca, As, Mn, Cr
30-Apr-2019	Na, Zn, Ca, Ba, Cd, K, Cr, Cu
28-May-2019	Cr
25-Jun-2019	Ni, Zn, Ca, Cr
30-Jul-2019	Zn, Ca, Cr
30-Aug-2019	Pb, Ni, Zn, Mn, Cr
27-Sep-2019	Pb, Zn, Cd, Mn, Cr
29-Oct-2019	As, Cr, Cu, Ni, Zn
28-Nov-2019	Ca, Cr, Zn
27-Dec-2019	Ca, Cr, Zn
31-Jan-2020	Cd, Ca, Cr, Mo

Date	Parameters
28-Feb-2020	Cr, Zn
31-Mar-2020	Ca, Cr, Pb, Mn, Zn
30-Apr-2020	Cd, Ca, Cr, Ni, Zn
30-May-2020	Ca, Cr
24-Jun-2020	Ba, Ca, Cr, Fe, Pb, Mn
29-Aug-2020	Cr, Cu
25-Sep-2020	Cd, Ca, Cr, Zn
24-Nov-2020	Ca, Cr, Pb

Note: cells highlighted blue are 2020 samples where blanks were greater than two times the Reported Detection Limit.

3 RESULTS

3.1 AMBIENT TSP, PM₁₀ AND PM_{2.5} CONCENTRATIONS

Results of the gravimetric analyses are converted into 24-hr average ambient concentrations based on the flow rate of the instruments. These are compared with the Yukon Ambient Air Quality Standard (YAAQS) (24-hr average):

- 120 µg/m³ for TSP;
- 50 µg/m³ for PM₁₀; and
- 28 µg/m³ for PM_{2.5}.

3.1.1 2020 Sample Results

Summary statistics for January 2020 to December 2020 are presented in Table 2 below for the three sampling locations (TSP-1, TSP-2 and TSP-3). When results were below the detection limit half the detection limit was used to calculate the summary statistics.

All results met standards for YAAQS, apart from one PM₁₀ exceedance at TSP-3 on July 23, 2020.

The greatest average TSP concentration was measured at TSP-3 (5.2 µg/m³) and the lowest average at TSP-1 (3.9 µg/m³); however, the difference is not statistically significant, and concentrations are less than the YAAQS (120 µg/m³).

For coarse particulate matter (PM₁₀), the greatest average concentration was recorded at TSP-3 (5.3 µg/m³) and the lowest average at TSP-2 (3.4 µg/m³) well below the YAAQS (50 µg/m³). For fine particulate matter (PM_{2.5}), the greatest average concentration was recorded at TSP-3 (3.4 µg/m³) and the lowest average at TSP-1 (3.1 µg/m³) well below the YAAQS (27 µg/m³).

Table 2: Total Suspended Particulates, Coarse and Fine Particulate Matter Summary Statistics 2020 ($\mu\text{g}/\text{m}^3$)

	TSP ($\mu\text{g}/\text{m}^3$)			PM ₁₀ ($\mu\text{g}/\text{m}^3$)			PM _{2.5} ($\mu\text{g}/\text{m}^3$)		
Yukon Ambient Air Quality Standards	120			50			27		
Sampling Location	TSP-1	TSP-2	TSP-3	TSP-1	TSP-2	TSP-3	TSP-1	TSP-2	TSP-3
Average	3.9	4.1	5.2	3.5	3.4	5.3	3.1	3.2	3.4
Count	24	26	19	36	35	28	36	36	29
Minimum	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Maximum	11.4	22.9	16.2	16	10.8	65.7	6.1	8.5	10
Geometric Mean	3.4	3.4	4.4	3.2	3.2	3.3	3	3	3.2
Count <DL	20	22	11	32	31	25	33	33	25
Standard Deviation	2.7	4.2	3.7	2.5	1.9	11.9	0.9	1.2	1.7
1st Quartile	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Median	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
3rd Quartile	2.8	2.8	6.3	2.8	2.8	2.8	2.8	2.8	2.8
Count Over Standard	0	0	0	0	0	1	0	0	0
% Over Standard	0	0	0	0	0	3.6	0	0	0

Note: bold = exceedance of YAAQS

3.1.2 Cumulative 2012-2020 Results

Summary statistics for 2012-2020 are presented in Table 3 for the three sampling locations (TSP-1, TSP-2 and TSP-3), and the complete results are presented in Attachment A1 and A2. When results were below the detection limit, half the detection limit was used to calculate the summary statistics.

All results met standards for YAAQS, apart from one PM₁₀ exceedance at TSP-3 on July 23, 2020 and one PM_{2.5} exceedance at TSP-1 on July 9, 2019.

The sample collected on July 14, 2017 is considered an outlier as it was an order of magnitude higher than historic TSP-3 and TSP-1 results; and results for TSP-2 from samples collected on the same day. The air quality monitoring results on the same day for TSP-1 for PM_{2.5} was 7.9 $\mu\text{g}/\text{m}^3$ and TSP-2 PM₁₀ was 9.2 $\mu\text{g}/\text{m}^3$ both closer to the Mill and dry stack tailings area. The TSP-3 PM_{2.5} outlier result from July 14, 2017 may be due to laboratory error or filter contamination between being provided by the lab and being analysed in the lab. No trends in the TSP, PM₁₀ and PM_{2.5} data before on or after this date validate this outlier result. Note that over half of the results for each of the three parameters are below the detection limit at all three stations.

The air quality monitors located on site are 160 m (TSP-1) and 46 m (TSP-2) away from the DSTF and 163 m (TSP-1) and 240 m (TSP-2) away from the crusher, two of the main potential dust sources. The nearest residence is 710 m from the DSTF and 860 m from the crusher. As shown in the Windrose plots for 2011-2020 and 2020 (Figure 4 and Figure 5) the prevailing winds measured by the District Mill weather station comes from an easterly direction. Given that the DSTF and crusher are west and downwind of the prevailing winds with respect to Keno City this lowers the potential contribution on air quality to Keno City. TSP levels experienced at the nearest residence are better approximated by levels observed at air quality monitor TSP-3,

located in Keno City (950 m from the DSTF and 1240 m from the crusher). Note that the mine announced a temporary closure as of September 4, 2013 and operation were limited to water treatment, inspections, and monitoring until the commencement of underground development at Flame & Moth in May 2018. Therefore, the crusher and DSTF would not have contributed to fugitive dust emissions during the period from September 2013 to May 2018.

Table 3: Total Suspended Particulates, Coarse and Fine Particulate Matter Summary Statistics 2012 – 2020 ($\mu\text{g}/\text{m}^3$)

	TSP ($\mu\text{g}/\text{m}^3$)			PM ₁₀ ($\mu\text{g}/\text{m}^3$)			PM _{2.5} ($\mu\text{g}/\text{m}^3$)		
Yukon Ambient Air Quality Standards	120			50			28		
Sampling Location	TSP-1*	TSP-2	TSP-3	TSP-1	TSP-2	TSP-3	TSP-1	TSP-2	TSP-3*
Average	5.1	6.1	5.3	4.7	4.6	4.6	3.9	4.1	4.3
Count	296	283	189	185	168	169	181	174	169
Minimum	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Maximum	53.2	62.2	68.1	46	38.1	65.7	28.2	23.1	21.2
Geometric Mean	4	4.5	4.1	3.6	3.6	3.7	3.4	3.5	3.7
Count <DL	0	0	0	0	0	0	0	0	0
Standard Deviation	5.4	7.1	6.5	5.5	5	5.7	3	3.4	2.9
1 st Quartile	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Median	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
3 rd Quartile	6.1	7.2	6.1	2.8	2.8	2.8	2.8	2.8	5.7
Count Over Standard	0	0	0	0	0	1	1	0	0
% Over Standard	0	0	0	0	0	0.6	0.6	0	0

Note: bold = exceedance of YAAQS

* Two outliers removed (TSP-1 976.4 $\mu\text{g}/\text{m}^3$ on July 1, 2015; TSP-3 65 $\mu\text{g}/\text{m}^3$ on July 14, 2017)

The greatest average TSP concentration was measured at TSP-2 (6.1 $\mu\text{g}/\text{m}^3$) and the lowest average at TSP-1 (5.1 $\mu\text{g}/\text{m}^3$). For coarse particulate matter (PM₁₀), the greatest average concentration was recorded at TSP-1 (4.7 $\mu\text{g}/\text{m}^3$) while TSP-2 and TSP-3 had the same measured average (both 4.6 $\mu\text{g}/\text{m}^3$); however, the difference is not statistically significant, and concentrations are less than the YAAQS. For fine particulate matter (PM_{2.5}), the greatest average concentration was recorded at TSP-3 (4.3 $\mu\text{g}/\text{m}^3$) and the lowest average at TSP-1 (3.9 $\mu\text{g}/\text{m}^3$). The 2020 results do not deviate from the average, with results being only slightly lower at some stations (approximately 1.0 $\mu\text{g}/\text{m}^3$). Exceedances were recorded for TSP concentration at monitoring location TSP-1 (July 1, 2015); however, this was determined to be outlier as all other results were less than the YAAQS.

3.2 METAL SPECIATION

There are no ambient air quality standards for metals in Yukon; however, the Ontario Ministry of Environment has developed a comprehensive list of Ambient Air Quality Criteria (AAQC) that includes 24-hr average concentrations for metals. These are referenced in the following discussion for information (context) only.

3.2.1 2020 Metal Speciation Results

Table 4 presents the summary statistics for January 2020 to December 2020 for metal concentrations from samples TSP-1, TSP-2 and TSP-3. When results were below the detection limit, a value of half the detection limit was used to calculate the statistics. All parameters in 2020 met AAQC criteria.

Table 4: Metal Concentrations Summary Statistics (24-hour) 2020

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Sn	Ti	V	Zn	Zr	
Ontario Ambient Air Quality Criteria (µg/m³)	-	25	0.3	10	0.01	120	0.025	-	0.5	0.1	50	4	0.5	-	0.4	120	2	-	-	10	-	1	-	120	-	10	120	2	120	-	
TSP-1																															
Average	0.052	0.0121	0.005	0.001	0.001	0.021	0.001	0.41	0.069	0.003	0.005	0.084	0.008	0.028	0.004	0.003	0.004	0.069	0.094	0.003	0.524	0	0.187	0.001	63.6	0.005	0.014	0.015	0.030	0.006	
Count	24	24	24	24	24	24	24	24	22	24	24	24	24	24	24	24	24	24	24	24	22	20	22	24	24	24	24	24	24	24	
Minimum	<0.20	<0.005	<0.0050	<0.005	<0.0050	<0.30	<0.0010	<1.0	0.348	<0.005	<0.005	0.3	<0.005	<0.30	<0.005	<0.003	0.006	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050	
Maximum	0.16	0.139	0.056	0.006	0.006	0.021	0.014	0.944	0.089	0.035	0.035	0.262	0.056	0.081	0.02	0.035	0.035	0.208	0.694	0.035	1.528	0	0.931	0.005	69.4	0.056	0.014	0.021	0.083	0.035	
Geometric Mean	0.037	0.001	0.001	0.001	0	0.021	0	0.367	0.068	0.001	0.002	0.073	0.003	0.025	0.003	0	0.002	0.062	0.048	0.001	0.391	0	0.138	0.001	40.2	0.001	0.014	0.014	0.0221	0.004	
Count <DL	9	21	23	4	24	24	8	1	0	24	3	0	5	20	3	22	2	24	22	24	6	20	10	8	24	19	24	24	4	24	
Standard Deviation	0.046	0.039	0.016	0.001	0.001	0	0.004	0.178	0.010	0.010	0.009	0.052	0.015	0.018	0.004	0.010	0.009	0.043	0.185	0.010	0.411	0	0.19	0.001	19.6	0.016	0	0.002	0.022	0.009	
1 st Quartile	0.014	0.0004	0.0004	0.001	0.0004	0.021	0.0001	0.33	0.063	0.0004	0.001	0.054	0.001	0.021	0.001	0.0002	0.001	0.056	0.035	0.0004	0.174	0.0001	0.069	0.0007	69.4	0.0004	0.014	0.014	0.014	0.003	
Median	0.038	0.0004	0.0004	0.001	0.0004	0.021	0.0002	0.417	0.068	0.0004	0.002	0.062	0.003	0.021	0.002	0.0002	0.002	0.056	0.035	0.0004	0.41	0.0001	0.153	0.001	69.4	0.0004	0.014	0.014	0.025	0.003	
3 rd Quartile	0.056	0.0004	0	0.0016	0.0004	0.021	0	0.49	0.074	0.0004	0.003	0.088	0.006	0.021	0.004	0.0002	0.002	0.056	0.035	0.0004	0.657	0.0001	0.232	0.001	69.4	0.0010	0.014	0.014	0.0438	0.003	
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TSP-2																															
Average	0.047	0.001	0.001	0.002	0	0.021	0	0.415	0.067	0	0.002	0.096	0.007	0.03	0.005	0	0.002	0.056	0.047	0	0.176	0	0.156	0.001	69.4	0.001	0.014	0.014	0.0457	0.003	
Count	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	24	26	26	26	26	26	26	26	26	
Minimum	<0.20	<0.00	<0.0050	<0.005	<0.0050	<0.30	<0.0010	<1.0	0.307	<0.005	<0.005	<0.30	<0.005	<0.30	0.0087	<0.003	0.006	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<1000	<0.005	<0.20	<0.20	<0.050	<0.050	
Maximum	0.29	0.003	0.003	0.004	0	0.021	0.005	0.819	0.088	0	0.006	0.239	0.047	0.054	0.023	0.001	0.012	0.056	0.158	0	0.514	0	0.486	0.004	69.4	0.004	0.014	0.014	0.150	0.003	
Geometric Mean	0.03	0	0	0.001	0	0.021	0	0.361	0.066	0	0.002	0.083	0.004	0.028	0.004	0	0.002	0.056	0.041	0	0.159	0.0002	0.132	0.001	69.4	0	0.014	0.014	0.028	0.003	
Count <DL	11	21	23	2	26	26	8	2	0	26	1	1	1	17	0	21	0	26	22	26	23	23	10	5	26	22	26	26	3	26	
Standard Deviation	0.059	0.001	0.001	0.001	0	0	0.001	0.178	0.013	0	0.001	0.057	0.010	0.013	0.005	0	0.002	0	0.03	0	0.107	0	0.097	0.001	0	0.001	0	0	0.0432	0	
1 st Quartile	0.014	0.0004	0.0004	0.001	0.0004	0.021	0.0001	0.375	0.058	0.0004	0.001	0.064	0.001	0.021	0.002	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.069	0.001	69.4	0.0004	0.014	0.014	0.014	0.003	
Median	0.029	0.0004	0	0.001	0.0004	0.021	0.0002	0.431	0.066	0.0004	0.002	0.072	0.003	0.021	0.003	0.0002	0.002	0.056	0.035	0.0004	0.139	0.0001	0.153	0.001	69.4	0.0004	0.014	0.014	0.031	0.003	
3 rd Quartile	0.046	0	0	0.002	0.0004	0.021	0	0.482	0.077	0.0004	0.003	0.114	0.006	0.043	0.008	0	0.002	0.056	0.035	0.0004	0.139	0.0001	0.204	0.001	69.4	0.0004	0.014	0.014	0.053	0.003	
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TSP-3																															
Average	0.042	0.0005	0.0004	0.0014	0.0004	0.021	0.0002	0.352	0.0709	0.0004	0.002	0.062	0.0013	0.029	0.002	0.0002	0.0014	0.056	0.041	0.0004	0.203	0.0001	0.132	0.0012	69.4	0.0009	0.014	0.014	0.0662	0.003	
Count	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
Minimum	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.30	<0.0010	<1.0	0.383	<0.0050	0.0054	<0.30	<0.0050	<0.30	0.0069	<0.0030	0.0067	<0.80	<0.50	<0.0050	<2.0	<0.0020	<1.0	<0.0050	<1000	<0.0050	<0.20	<0.20	<0.050	<0.050	
Maximum	0.117	0.0014	0.0004	0.0036	0.0004	0.021	0.0005	0.611	0.0843	0.0004	0.004	0.103	0.0040	0.060	0.007	0.0004	0.0024	0.056	0.112	0.0004	0.542	0.0001	0.278	0.0035	69.4	0.0086	0.014	0.014	0.4125	0.003	
Geometric Mean	0.033	0.0004	0.0004	0.0012	0.0004	0.021	0.0001	0.279	0.0702	0.0004	0.001	0.057	0.0010	0.027	0.001	0.0002	0.0013	0.056	0.039	0.0004	0.180	0.0001	0.114	0.0009	69.4	0.0005	0.014	0.014	0.0313	0.003	
Count <DL	5	16	19	1	19	19	11	4	0	19	0	2	4	14	0	18	0	19	17	19	14	19	10	5	19	16	19	19	2	19	
Standard Deviation	0.034	0.0004	0	0.0007	0	0.000	0.0001	0.185	0.0100	0	0.001	0.022	0.0009	0.014	0.002	0.0001	0.0004	0	0.019	0	0.119	0	0.075	0.0010	0	0.0019	0	0	0.1004	0	
1 st Quartile	0.021	0.0004	0.0004	0.0009	0.0004	0.021	0.0001	0.202	0.0646	0.0004	0.001	0.048	0.0008	0.021	0.001	0.0002	0.0011	0.056	0.035	0.0004	0.139	0.0001	0.069	0.0005	69.4	0.0004	0.014	0.014	0.0156	0.003	
Median	0.031	0.0004	0.0004	0.0013	0.0004	0.021	0.0001	0.389	0.0749	0.0004	0.001	0.065	0.0011	0.021	0.001	0.0002	0.0013	0.056	0.035	0.0004	0.139	0.0001	0.069	0.0008	69.4	0.0004	0.014	0.014	0.0261	0.003	
3 rd Quartile	0.041	0.0004	0.0004	0.0016	0.0004	0.021	0.0002	0.444	0.0791	0.0004	0.002	0.072	0.0015	0.032	0.002	0.0002	0.0016	0.056	0.035	0.0004	0.222	0.0001	0.188	0.0011	69.4	0.0004	0.014	0.014	0.05	0.003	
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0																			

Note: bold = exceeded standard

3.2.2 Cumulative 2012-2020 Metal Speciation Results

Table 5 presents the summary statistics for 2012 to 2020 for metal concentrations from samples TSP-1, TSP-2 and TSP-3, while the complete result tables are presented in Attachment A3 to A5. When results were below the detection limit a value of half the detection limit was used to calculate the statistics.

All parameters met AAQC criteria except for cadmium (TSP-2 – 0.7% of samples; TSP-3 – 0.5% of samples), lead (TSP-1 – 0.7% of samples; TSP-2 – 0.4% of samples), and manganese (TSP-2 – 1.4% of samples).

Table 5: Metal Concentrations Summary Statistics (24-hour) 2012 – 2020

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Sn	Ti	V	Zn	Zr
Ontario Ambient Air Quality Criteria (µg/m³)	-	25	0.3	10	0.01	120	0.025	-	0.5	0.1	50	4	0.5	-	0.4	120	2	-	-	10	-	1	-	120	-	10	120	2	120	-
TSP-1*																														
Average	0.168	0.1099	0.0441	0.0025	0.0045	0.023	0.0110	0.335	0.0769	0.0275	0.028	0.183	0.0521	0.034	0.010	0.0275	0.0278	0.176	0.557	0.0278	0.375	0.0166	0.240	0.0029	14.1	0.0449	0.014	0.020	0.0345	0.028
Count	296	296	296	296	296	296	296	296	294	296	296	296	296	296	296	296	296	296	296	296	230	292	294	296	293	296	296	296	296	296
Minimum	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.30	<0.0010	<1.0	<0.30	<0.0050	<0.0050	<0.30	<0.0050	<0.30	<0.0050	<0.0030	<0.0050	<0.80	<0.50	<0.0050	<2.0	<0.0020	<1.0	<0.0050	<2.0	<0.0050	<0.20	<0.20	<0.050	<0.050
Maximum	5.292	0.1389	0.0556	0.0222	0.0056	0.264	0.0139	8.722	0.1458	0.0347	0.035	2.528	1.0833	0.429	0.301	0.0347	0.0347	0.208	0.694	0.0792	3.875	0.0208	2.444	0.0410	69.4	0.1931	0.042	0.021	0.8167	0.035
Geometric Mean	0.110	0.0403	0.0205	0.0021	0.0031	0.021	0.0055	0.214	0.0723	0.0133	0.019	0.106	0.0294	0.027	0.006	0.0124	0.0177	0.158	0.379	0.0133	0.257	0.0075	0.206	0.0021	0.4	0.0199	0.014	0.019	0.0206	0.021
Count <DL	238	293	287	214	296	292	255	185	15	296	238	45	235	236	206	290	235	296	289	294	181	291	235	213	270	289	295	296	184	296
Standard Deviation	0.433	0.0565	0.0223	0.0025	0.0021	0.020	0.0056	0.744	0.0240	0.0140	0.013	0.244	0.0784	0.042	0.025	0.0140	0.0136	0.062	0.266	0.0146	0.545	0.0084	0.201	0.0036	27.8	0.0252	0.002	0.003	0.0689	0.013
1 st Quartile	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.139	0.0639	0.0347	0.035	0.051	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.1	0.0556	0.014	0.021	0.0139	0.035
Median	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.139	0.075	0.0347	0.035	0.09	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.1	0.0556	0.014	0.021	0.0139	0.035
3 rd Quartile	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.389	0.0917	0.0347	0.035	0.302	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.3	0.0556	0.014	0.021	0.0319	0.035
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-2																														
Average	0.134	0.1080	0.0434	0.0025	0.0044	0.022	0.0111	0.284	0.0781	0.0271	0.028	0.239	0.0564	0.038	0.023	0.0270	0.0276	0.174	0.551	0.0270	0.364	0.0163	0.216	0.0025	15.0	0.0433	0.014	0.019	0.0446	0.028
Count	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	222	280	282	282	279	282	282	282	282	282
Minimum	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.30	<0.0010	<1.0	<0.30	<0.0050	<0.0050	<0.30	<0.0050	<0.30	<0.0050	<0.0030	0.0059	<0.80	<0.50	<0.0050	<2.0	<0.0020	<1.0	<0.0050	<2.0	<0.0050	<0.20	<0.20	<0.050	<0.050
Maximum	1.625	0.1389	0.0556	0.0476	0.0056	0.099	0.0403	3.472	0.1889	0.0347	0.035	2.778	0.7361	0.468	0.651	0.0347	0.0642	0.208	0.694	0.0347	5.028	0.0208	1.125	0.0317	69.4	0.0556	0.032	0.021	0.4819	0.035
Geometric Mean	0.104	0.0382	0.0204	0.0020	0.0030	0.021	0.0056	0.218	0.0727	0.0125	0.019	0.135	0.0336	0.030	0.008	0.0116	0.0176	0.155	0.373	0.0124	0.246	0.0073	0.197	0.0020	0.5	0.0184	0.014	0.019	0.0258	0.020
Count <DL	238	272	263	209	282	279	236	165	16	281	222	37	209	201	165	273	219	282	272	282	181	273	230	199	253	278	281	282	156	282
Standard Deviation	0.139	0.0577	0.0227	0.0033	0.0022	0.006	0.0061	0.303	0.0266	0.0143	0.014	0.287	0.0646	0.042	0.068	0.0144	0.0139	0.063	0.269	0.0143	0.554	0.0085	0.114	0.0027	28.5	0.0230	0.001	0.003	0.0618	0.013
1 st Quartile	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.139	0.0623	0.0347	0.035	0.061	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.1	0.0556	0.014	0.021	0.0139	0.035
Median	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.139	0.0776	0.0347	0.035	0.135	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.1	0.0556	0.014	0.021	0.0139	0.035
3 rd Quartile	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.403	0.0958	0.0347	0.035	0.351	0.0556	0.044	0.01	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.4	0.0556	0.014	0.021	0.0484	0.035
Count Over Standard	0	0	0	0	0	0	2	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0.7	0	0	0	0	0	0.4	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-3*																														
Average	0.154	0.0963	0.0387	0.0023	0.0040	0.024	0.0100	0.367	0.0758	0.0242	0.025	0.094	0.0389	0.038	0.006	0.0241	0.0245	0.161	0.496	0.0242	0.240	0.0145	0.211	0.0050	20.3	0.0387	0.014	0.019	0.0401	0.025
Count	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	180	192	192	192	189	192	192	192	192	192
Minimum	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.30	<0.0010	<1.0	<0.30	<0.0050	<0.0050	<0.30	<0.0050	<0.30	<0.0050	<0.0030	0.0061	<0.80	<0.50	<0.0050	<2.0	<0.0020	<1.0	<0.0050	<2.0	<0.0050	<0.20	<0.20	<0.050	<0.050
Maximum	2.778	0.1389	0.0556	0.0236	0.0056	0.218	0.0318	6.417	0.1583	0.0347	0.035	0.514	0.0556	0.553	0.070	0.0347	0.0347	0.208	0.694	0.0347	1.569	0.0208	1.472	0.1750	69.4	0.0556	0.014	0.021	0.6472	0.035
Geometric Mean	0.094	0.0226	0.0122	0.0019	0.0024	0.022	0.0037	0.229	0.0722	0.0085	0.014	0.065	0.0166	0.028	0.005	0.0076	0.0130	0.139	0.293	0.0085	0.210	0.0045	0.188	0.0019	0.7	0.0122	0.014	0.019	0.0213	0.016
Count <DL	146	189	188	130	192	187	158	100	4	192	135	46	145	146	128	183	133	192	184	192	159	192	150	127	180	187	192	192	115	192
Standard Deviation	0.325	0.0641	0.0254	0.0027	0.0024	0.023	0.0064	0.776	0.0226	0.0159	0.015	0.092	0.0251	0.065	0.006	0.0159	0.0154	0.070	0.299	0.0159	0.195	0.0096	0.128	0.0202	31.6	0.0255	0.000	0.003	0.0751	0.015
1 st Quartile	0.058	0.0004	0.0004	0.0018	0.0004	0.021	0.0004	0.139	0.0611	0.0004	0.003	0.043	0.0021	0.021	0.004	0.0002	0.0018	0.056	0.035	0.0004	0.139	0.0001	0.208	0.0012	0.1	0.0004	0.014	0.014	0.0139	0.003
Median	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.139	0.0764	0.0347	0.035	0.064	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	0.1	0.0556	0.014	0.021	0.0139	0.035
3 rd Quartile	0.139	0.1389	0.0556	0.0021	0.0056	0.021	0.0139	0.417	0.0867	0.0347	0.035	0.103	0.0556	0.021	0.006	0.0347	0.0347	0.208	0.694	0.0347	0.208	0.0208	0.208	0.0021	69.4	0.0556	0.014	0.021	0.0363	0.035
Count Over Standard	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: bold = exceeded standard

* Two outliers removed (TSP-1 976.4 µg/m³ on July 1, 2015; TSP-3 65 µg/m³ on July 14, 2017)

Half the RDL was used to calculate averages for samples that were below the RDL. As the samples were not normally distributed and variances were not equal, non-parametric tests (Kruskal-Wallis) were used for statistical comparisons of the sample medians of 2020 data only and medians of data from all years (2012 – 2020) at a significance level (p) of 0.05 (Attachment B). The concentrations of total metals measured at sample stations in 2020 differed significantly ($p < 0.05$) for manganese, lead, and silicon and differed slightly for cadmium ($0.01 < p < 0.05$). No detectable differences in 2020 were found for all other analytes. Concentrations of total metals measured at TSP-1, TSP-2, and TSP-3 from 2012 to 2020 revealed significant differences ($p < 0.05$) for iron, lead, manganese, and zinc and found no detectable difference for barium, boron, calcium, chromium, sodium, strontium, sulphur, and titanium. All other analytes differed slightly ($0.01 < p < 0.05$).

Dust originating from the DSTF may contain arsenic, aluminum, calcium, iron, magnesium, manganese, lead, and zinc, based on metal characterization analyses of the tailings conducted from 2012 to 2013. From the wind direction distribution, TSP-2 is more frequently located downwind of the DSTF than TSP-1 and may be expected to record concentrations of the previously listed metals. The current average concentrations of these parameters remain below recommended standards (Ontario AAQC).

Historically, days where TSP levels were higher than average and where exceedances of the Ontario AAQCs were observed (lead at TSP-1), winds were generally blowing from the northeast and from the east (October 23, 2012 and June 18, 2013, respectively). Site activities occurring in October 2012 and June 2013 included active mining at Bellekeno, development at Lucky Queen and Onek, milling at the Keno District Mill, and explorations activities at Flame & Moth. Unpaved road may have been a contributing source of ambient dust on these occasions. Roads within the vicinity of the TSP stations include mine access roads, as well as public roads including Duncan Creek Road.

Historically, when metals concentrations exceeded the Ontario AAQCs (cadmium, lead, and manganese) at TSP-2, winds were generally blowing from the north-northeast (August 23, 2012). A source of ambient dust in this event could have been the unpaved roads. On days where TSP levels were higher than average and/or where exceedances of the Ontario AAQCs were observed for manganese at TSP-2, winds were generally blowing from the northeast (March 23-24, 2013; August 9, 2017) and from the east (April 7, 2013). On these occasions, the DSTF could have been a source of TSP at TSP-2. Similarly, on days where exceedances of the Ontario AAQCs were observed for cadmium at TSP-2 (on September 28, 2013 and October 21, 2015, respectively), winds were generally from the northeast or north-northeast suggesting a possible influence of the DSTF but also eventually of the unpaved roads. Site activities occurring in August 2012, March 2013 and April 2013 included mining at Bellekeno, development at Lucky Queen (LQ) and Onek, and milling at the Keno District Mill. Between September 2013 and December 2018, only care and maintenance activities were taking place as the mine and mill were under a temporary suspension of operations with exception of collaring Flame and Moth Portal in 2016 and the preparation of the Flame and Moth Pond. Detailed meteorological conditions and site activities associated with each ambient air quality sampling event are provided with the complete tabular data in Attachment A1.

3.3 WIND ANALYSIS

Hourly wind speed and direction was collected between November 2011 and December 2020, at the Keno District Mill weather station (Attachment A1). The wind rose plot in Figure 4, depicts this information based on 24 wind direction categories. The average wind speed is 1.21 m/s and winds are calm 20% of the time. Note that the wind sensor experienced occasional icing during the winter months and extended periods of zero wind speed were excluded from this analysis. Also, winter wind speeds may occasionally be underestimated due to the presence of ice on the sensor, but these occurrences cannot be detected in the data record. Wind speed and direction frequency distribution are compiled in Table 6 below, and are based on eight wind direction categories, and six wind speed categories.

Table 6: Wind Frequency Distribution Keno District Mill, November 2011 – December 2020

Directions / Wind Classes (m/s)	0.5 – 1.0	1.0 – 2.0	2.0 – 3.0	3.0 – 4.0	4.0 – 5.0	>= 5.0	Total (%)
N	4.40	7.31	3.14	0.56	0.09	0.03	15.52
NE	5.14	4.64	1.24	0.15	0.01	0.0	11.18
E	3.48	7.46	2.07	0.41	0.06	0.01	13.49
SE	3.72	5.56	2.75	1.26	0.54	0.34	14.17
S	3.17	5.49	2.30	0.40	0.07	0.04	11.46
SW	0.71	1.62	1.40	0.35	0.07	0.01	4.16
W	0.34	0.55	0.46	0.31	0.13	0.07	1.87
NW	0.79	1.31	1.25	0.77	0.35	0.11	4.59
Sub-Total	21.75	33.95	14.61	4.20	1.32	0.61	76.43
Calm							23.57
Total							100

The dominant wind direction is from the north (approximately 16% of the time), followed by the southeast (approximately 15%). When the predominant wind direction is from the northeast, air quality stations TSP-1 and TSP-2 (Figure 1), are located downwind of the DSTF and the crusher. When the wind blows from the SE those same stations are upwind from the DSTF and crusher. Given these generalities TSP-1 and TSP-2 may capture influences from facilities when the wind is from the northeast but are otherwise not downwind. Air quality station TSP-3, located on the outskirts of Keno City, is east of these potential dust sources. Based on Table 6, westerly winds only occur about 2% of the time (or roughly 10% of the time when combining NW, W and SW), so the DSTF and crusher are expected to have very limited influence on air quality in Keno City (TSP-3).

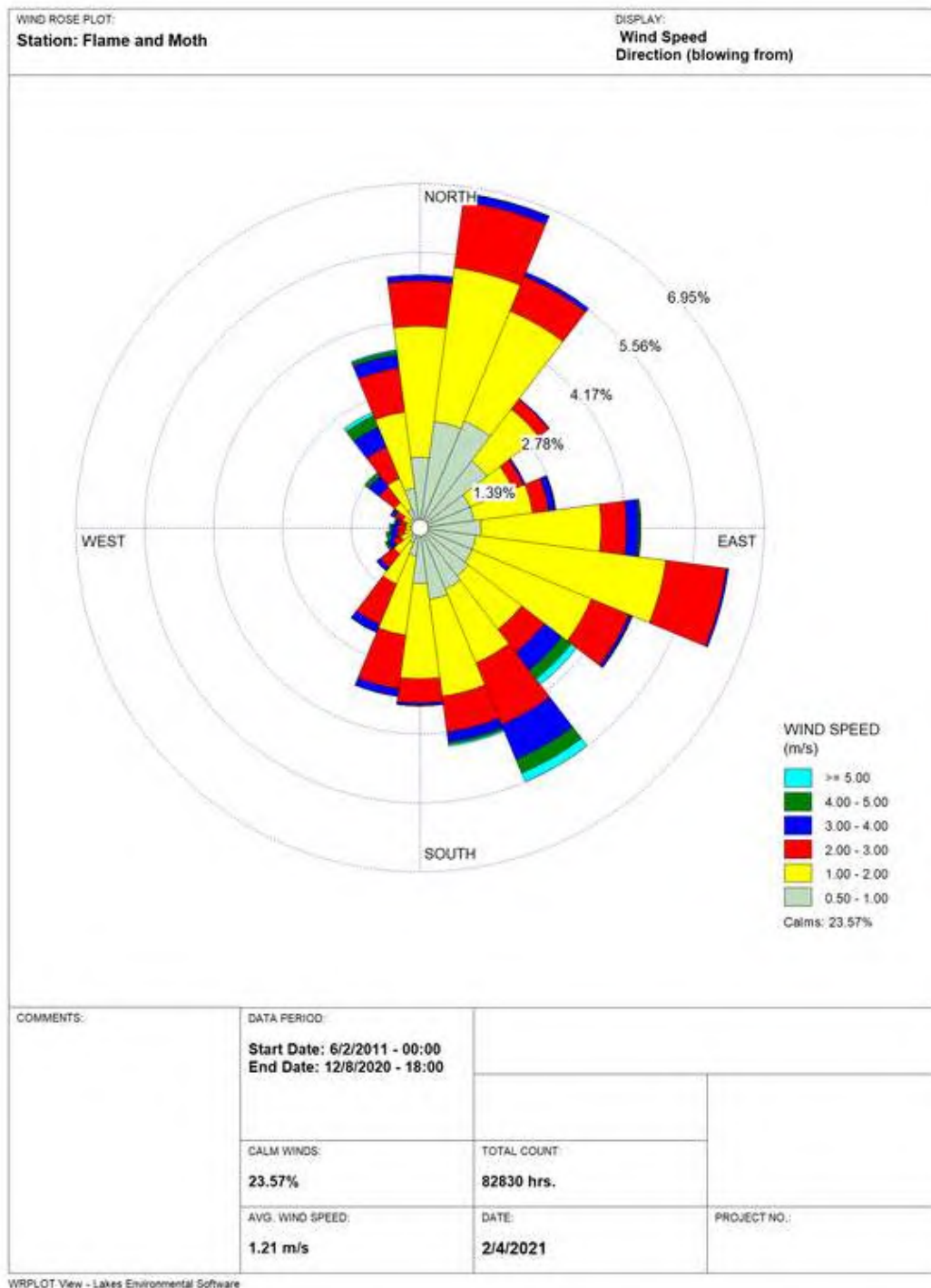


Figure 4: Wind Rose (direction blowing from), Keno District Mill Weather Station, November 2011 – December 2020

3.3.1 2020 Wind Analysis

Hourly wind speed and direction was collected between January 2020 and December 2020, at the Keno District Mill weather station. The wind rose plot in Figure 5, depicts this information based on eight wind direction categories. The average wind speed is 1.22 m/s and winds are calm roughly 20% of the time. Note that the wind sensor experienced occasional icing during the winter months and extended periods of zero wind speed were excluded from this analysis. Also, winter wind speeds may occasionally be underestimated due to the presence of ice on the sensor, but these occurrences cannot be detected in the data record. Wind speed and direction frequency distribution are compiled in Table 7 below, and are based on eight wind direction categories and six wind speed categories.

Table 7: Wind Frequency Distribution Keno District Mill, January 2020 – December 2020

Directions / Wind Classes (m/s)	0.5 – 1.0	1.0 – 2.0	2.0 – 3.0	3.0 – 4.0	4.0 – 5.0	>= 5.0	Total (%)
N	4.72	7.91	3.59	0.38	0.04	0	16.63
NE	6.49	5.90	1.36	0.15	0	0	13.89
E	4.02	7.85	1.69	0.49	0.02	0	14.08
SE	4.21	5.77	1.57	0.46	0.53	0.51	13.05
S	3.29	6.39	2.44	0.24	0.04	0.07	12.48
SW	0.78	1.50	1.34	0.29	0.13	0	4.04
W	0.41	0.47	0.52	0.32	0.06	0.04	1.82
NW	0.80	1.31	1.26	0.89	0.49	0.10	4.85
Sub-Total	24.72	37.11	13.77	3.21	1.31	0.72	80.84
Calm							19.14
Total							100

Per the Wind Rose, the dominant wind direction in 2020 was from the north (Figure 5). These results do not greatly deviate from the November 2011 to December 2020 results.

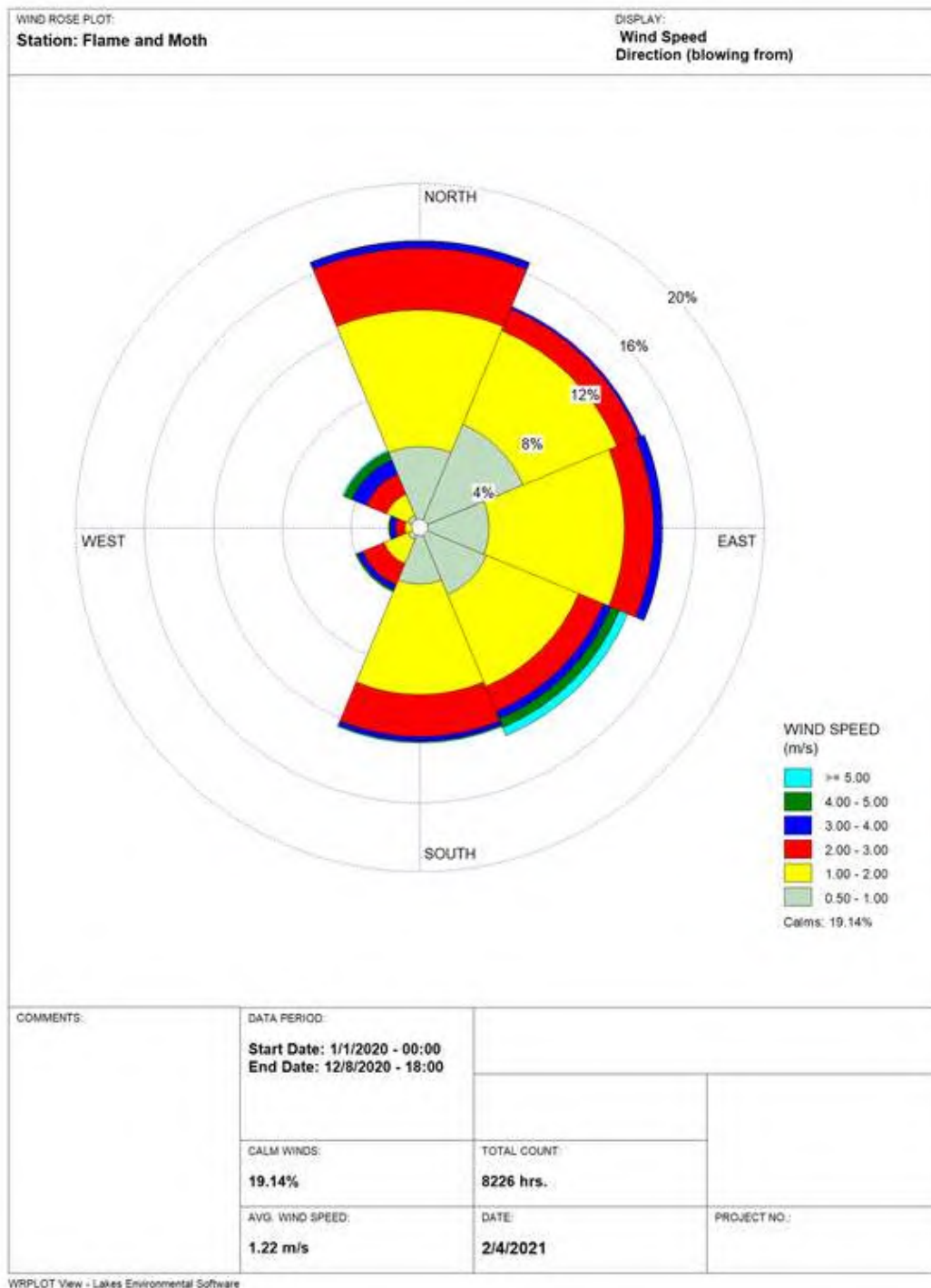


Figure 5: Wind Rose (direction blowing from), Keno District Mill Weather Station, January 2020 – December 2020

4 PM₁₀ SAMPLING BY YUKON GOVERNMENT

Independent PM₁₀ sampling was conducted by Yukon Government in 2013 at the locations shown in Figure 1. The station labelled BG represents background (8 km outside of Keno), stations labelled KC are in Keno City, stations labelled HR are along the Bellekeno Haul Road and stations labelled FL are fence line stations and correspond to TSP-1 and TSP-2 locations. Five-minute data averaged over the different sampling periods are presented in Table 8 below. The sampling period varies between sites (ranges from about 14 to 53 hours) but for comparison purposes, the average results are all below the 24-hr YAAQS of 50 µg/m³. Note that in some cases the measured background PM₁₀ concentration is higher than that measured at some of the receptors. For example, during the July 15-17 sampling event site HR1 measured coarse particulate matter at 5.2 µg/m³ and the background at 10.2 µg/m³. This suggests there is some variability in the data and that the difference between background and receptors sites may not be significant. Results are generally comparable to the PM₁₀ concentrations measured by Alexco at stations TSP-1, TSP-2 and TSP-3 (August 2015 to December 2020).

Table 8: Average Coarse Particulate Matter (PM₁₀) concentrations

Site Locations	PM ₁₀ (µg/m ³)		
	June 11-13, 2013	July 15-17, 2013	August 21-22, 2013
BG	2.8	10.2	3.8
KC1	6.2	NS	NS
KC2	3.8	NS	NS
KC3	8.3	NS	NS
KC4	2.1	NS	NS
HR1	NS	5.2	NS
HR2	NS	2.1	NS
HR3	NS	13.8	NS
HR4	NS	16.4	NS
FL1	NS	NS	0.8
FL2	NS	NS	39.3

Source: Yukon Government, 2014

NS: Not Sampled

Data presented in Table 8 were obtained from Yukon Government and not collected by Alexco, therefore details of the collection have not been presented within this report. The data is assumed to be accurate and valid, but potentially not representative of all conditions observed over a year, due to the limited dataset.

5 RECOMMENDATIONS

As outlined in the Dust Abatement and Monitoring Plan (AKHM, 2021), AKHM will make the following changes to its air quality monitoring program in summer of 2021:

- The sampler located at TSP-1 should be relocated to the western limit of Keno City to characterize ambient concentrations at sensitive receptors in Keno City; and
- The sampler located at TSP-3 should be relocated to the eastern end of Keno City to provide an understanding of how ambient concentrations vary throughout town.

6 CONCLUSION

- All TSP samples collected to date near the District Mill, DSTF and Keno City were below the Yukon air quality standard for TSP, except for one sample collected at TSP-1 (July 1, 2015) which was determined to be an outlier.
- All PM₁₀ and PM_{2.5} samples collected to date at the three monitoring locations are less than their respective YAAQS, except for three samples: July 15, 2017 TSP-3 PM_{2.5} sample which was determined to be outlier, PM_{2.5} sample from TSP-1 on July 9, 2019, and July 23, 2020 PM₁₀ sample. The 2019 result may be due to the Shanghai Creek wildfire. The wildfire was near Elsa and Keno City in July and August causing poor air quality conditions.
- In 2020, all parameters met AAQC criteria.
- Air quality samples will continue to be collected per the current monitoring schedule to identify if these infrequent events are associated with any trends or patterns.
- Blanks will continue to be collected along with regular samples to ensure that no sample contamination is occurring during handling, transportation, or lab analysis.

7 REFERENCES

- Alexco Keno Hill Mining Corp. 2021. Keno Hill Silver District Mining Operations Dust Abatement and Monitoring Plan. February 2021.
- Ensero Solutions. 2021. Field Protocol: Ambient Air Quality Installation and Standard Operating Procedure. Prepared for Ensero Solutions internal March 15, 2021.
- Ontario Ministry of Environment. 2012. Ontario's Ambient Air Quality Criteria. Standards Development Branch. PIBS#6570e01. April 2012.
- Yukon Environment. 2014. Yukon Ambient Air Quality Standards. April 2010, updated September 2014.

Attachment A:

Results and Meteorological Data (2012-2020)

Includes Sub attachments:

A1: 24-Hour Average TSP Results, Meteorological Conditions, and Site Activities, Aug. 2012 – Dec.2020

A2: Average PM10 and PM2.5 Results (24-Hour), Aug. 2015 – Dec. 2020

A3: Metal Concentrations (24-Hour), TSP-1, Aug. 2012 – Dec. 2020

A4: Metal Concentrations (24-Hour), TSP-2, Aug. 2012 – Dec. 2020

A5: Metal Concentrations (24-Hour), TSP-3, December 2014 – 2020

ATTACHMENT A1

24-HOUR AVERAGE TOTAL PARTICULATES RESULTS, METEOROLOGICAL CONDITIONS, AND SITE ACTIVITIES, AUG. 2012 – DEC. 2020

Table A-1: 24-Hour Average Total Particulates Results, Meteorological Conditions, and Site Activities, August 2012 – December 2020

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
8/23/2012	10.1	12.8	-	13.11	10.25	6.84	75.31	0	0.68	29.5	3.42	6.6	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
9/27/2012	<5.6	<5.6	-	8.18	5.23	2.42	62.53	4.5	4.28	124.7	14.27	145.1	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
9/29/2012	<5.6	<5.6	-	5.69	4.28	2.27	60.46	0	2.33	129.7	8.48	155.9	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/16/2012	5.8	-	-	1.65	0.24	-2.12	89.17	0.8	0.9	32.6	6.26	75.9	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/17/2012	<5.6	-	-	-0.04	-2.84	-8.45	76.89	0.1	1.26	58.8	7.19	159.2	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/23/2012	53.2	-	-	-9.97	-14.04	-17.54	78.41	0	0.66	43.2	3.28	17	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
12/15/2012	<5.6	13.6	-	-13.59	-15.89	-19.29	88.8	0	0.2	357.4	1.85	5.7	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
1/14/2013	<5.6	-	-	-3.02	-8.34	-11.78	95.04	0	0.28	284.8	1.43	189.92	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
1/16/2013	<5.6	<5.6	-	-15.96	-18.61	-20.79	84.83	0	1.26	70.2	4.52	36.1	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
3/23/2013	<5.6	18.2	-	-3.01	-10.79	-18.99	51.87	0	1.65	28.3	7.48	148.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/24/2013	<5.6	23.2	-	0.17	-4.17	-9.93	57.7	0.2	2.61	78.3	11.11	131.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/25/2013	<5.6	13.5	-	3.26	-0.18	-1.98	60.02	0.2	3.57	83.1	12.47	135.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/26/2013	9.6	11.1	-	-1.96	-7.27	-17.97	64.66	0.1	3.53	29	10.49	152.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/7/2013	-	17.1	-	3.46	-3.18	-12.29	65.38	2.2	2.96	94.8	10.32	145	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/10/2013	5.7	7.2	-	-2.04	-6.54	-11.32	67.42	2.6	2.51	256.1	8.09	199.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/13/2013	<5.6	6.9	-	-5.93	-12.43	-19.03	45.43	0	1.96	10.6	6.29	26.6	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/15/2013	6.5	6.5	-	-1.9	-7.18	-13.58	53.95	0	2.18	42.3	7.95	103.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/16/2013	7.2	6.4	-	0.44	-3.52	-8.62	69.65	0.1	2.14	64.3	7.03	73.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
5/28/2013	6.8	-	-	19.47	14.39	9.06	49.38	1.6	1.74	23.9	6.95	353.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/16/2013	8.2	-	-	23.38	17.3	11.35	47.8	3.4	1.94	7.2	12.71	357.9	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/17/2013	-	<5.6	-	14.07	10.7	7.39	50.03	0	3.05	16.8	10.87	344	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/18/2013	47.2	6.3	-	21.94	15.07	7.66	47.63	0	1.65	97.3	6.13	136.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/21/2013	7.2	<5.6	-	17.66	13.9	10.38	79.66	6.6	1.42	344.9	6.83	177	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/23/2013	-	<5.6	-	18.44	12.68	7.82	76.09	9.4	1.65	23.7	9.54	306.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/24/2013	<5.6	-	-	23.85	15.91	6.54	59.11	0	1.72	15.1	5.33	336.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/28/2013	-	62.2	-	23.98	18.36	12.73	65.86	10.5	1.67	51.2	10.37	140.4	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/19/2013	5.6	<5.6	-	20.14	14.74	9.64	65.78	0.1	1.42	2.3	6.15	196.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/20/2013	12.2	<5.6	-	17.94	12.89	7.1	72.14	0.8	1.66	27.6	6.36	304.1	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/21/2013	<5.6	<5.6	-	15.94	13.17	11.18	70.77	0.6	1.57	41.9	5.25	11.6	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/22/2013	<5.6	10.1	-	20.87	15.55	11.04	56.74	0	1.57	18.9	5.79	209.89	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/22/2013	<5.6	<5.6	-	14.14	7.63	1.62	69.1	0	1.76	7.6	6.41	245.32	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/23/2013	<5.6	-	-	8.68	6.55	4.21	91.68	6.6	0.85	17.8	3.18	108.3	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/24/2013	<5.6	-	-	8.03	5.92	3.43	75.82	0.3	2.61	60.9	8.73	87.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
8/25/2013	<5.6	<5.6	-	8.4	5.09	1.8	75.02	0	1.29	16.8	4.03	17.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/26/2013	-	<5.6	-	10.85	6.73	3.85	82.06	1	1.36	41.4	5.22	324.4	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/28/2013	-	7.2	-	17.01	8.66	1.14	61.42	0	1.38	73.5	6.5	145.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/31/2013	-	<5.6	-	9.51	7.68	5.12	91.35	4.7	1.01	22.5	4.9	191.41	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
9/21/2013	-	<5.6	-	2.64	0.6	-0.96	96.45	6.6	0.92	356.8	3.41	27.7	No mining operations, Exploration activities at Flame & Moth
9/24/2013	<5.6	<5.6	-	1.7	0.38	-2.3	89.58	0	1.68	17.2	6.2	220.9	No mining operations, Care and Maintenance
9/27/2013	<5.6	<5.6	-	6.66	3.26	1.15	84.55	2.8	1.25	50.8	7.66	137.4	No mining operations, Care and Maintenance
9/28/2013	<5.6	<5.6	-	7.32	3.73	0.07	69.19	0	1.14	55.2	5.51	78.8	No mining operations, Care and Maintenance
9/29/2013	<5.6	-	-	6.77	3.58	1.28	60.97	0	2.18	63.6	7.7	92.1	No mining operations, Care and Maintenance
9/30/2013	-	6	-	6.19	3.22	1	63.34	0	1.64	49.8	5.32	84.6	No mining operations, Care and Maintenance
10/24/2013	-	<5.6	-	-4.58	-6.99	-10.1	95.67	0	0.77	48.1	3.78	238.21	No mining operations, Care and Maintenance
10/25/2013	7.6	<5.6	-	-3.58	-5.09	-7.52	96.9	0	0.47	43.3	2.99	31.6	No mining operations, Care and Maintenance
10/26/2013	<5.6	<5.6	-	-0.68	-4.9	-8.64	95.13	1.2	1.19	79.3	4.02	152.5	No mining operations, Care and Maintenance
10/27/2013	6.8	<5.6	-	-5.73	-7.6	-9.98	95.57	0	0.71	44.1	2.77	15.1	No mining operations, Care and Maintenance
10/28/2013	<5.6	-	-	0.21	-3.79	-5.96	97.83	0	0.97	19.7	5.27	25.8	No mining operations, Care and Maintenance
11/28/2013	7.8	8.8	-	-5.9	-10.14	-15.55	91.67	2.3	1.53	22.8	8.22	202.58	No mining operations, Care and Maintenance
11/29/2013	7.6	7.5	-	-16.84	-22.52	-27.23	81.85	0.1	1.04	111.6	3.7	159.4	No mining operations, Care and Maintenance
11/30/2013	8.9	8.5	-	-25.99	-27.76	-29.67	77.52	0	0.37	75.8	1.95	97.3	No mining operations, Care and Maintenance
12/1/2013	6.7	7.2	-	-29.46	-30.57	-32.06	74.69	0	0.54	103.8	3.58	114.7	No mining operations, Care and Maintenance
1/3/2014	13.2	11.8	-	-20.82	-24.67	-28.26	80.16	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/4/2014	12.6	9.3	-	-23.86	-27.58	-29.03	77.62	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/5/2014	18.6	11.4	-	-11.47	-15.47	-22.96	88.97	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/6/2014	11.9	11	-	-10.08	-10.91	-11.81	92.77	2.3	0	239.5	0.17	239.47	No mining operations, Care and Maintenance
2/1/2014	9.7	11.9	-	-13.87	-15.42	-16.72	89.15	0	0.17	68.5	1.26	41.1	No mining operations, Care and Maintenance
2/2/2014	<5.6	<5.6	-	-10.84	-13.88	-16.51	90.43	0	0.7	54.6	2.99	45.8	No mining operations, Care and Maintenance
2/3/2014	<5.6	<5.6	-	-13.05	-16.23	-18.55	88.38	0	0.71	8.2	4.06	12.8	No mining operations, Care and Maintenance
2/4/2014	<5.6	6.4	-	-16.81	-19.32	-20.81	85.64	0	0.31	66.7	2.22	19.1	No mining operations, Care and Maintenance
3/5/2014	<5.6	<5.6	-	-13.83	-18.81	-21.99	54.48	0	1.1	59.6	3.62	124	No mining operations, Care and Maintenance
3/6/2014	<5.6	<5.6	-	-14.55	-20.5	-26.02	61.57	0	1.24	36.8	4.91	117.7	No mining operations, Care and Maintenance
3/7/2014	<5.6	<5.6	-	-15.31	-21.47	-26.79	62.8	0	0.84	38.6	3.17	5.5	No mining operations, Care and Maintenance
3/25/2014	<5.6	<5.6	-	-1.15	-9.04	-16.37	41.09	0	2.09	39.8	5.68	79.2	No mining operations, Care and Maintenance
4/12/2014	<5.6	<5.6	-	1.63	-6.67	-14.67	40.6	0	1.38	23.9	4.11	241.38	Exploration activities at Flame & Moth
4/13/2014	6.8	8.1	-	5.29	-0.4	-6.75	39.56	0.4	1.16	34.5	4.06	355.5	Exploration activities at Flame & Moth
4/14/2014	18.8	20.3	-	8.44	3.51	-0.45	45.57	0.1	1.43	56.6	5.66	15.6	Exploration activities at Flame & Moth
4/15/2014	15.7	14.4	-	8.6	3.21	-1.58	56.03	0	1.46	31.1	6.69	133.6	Exploration activities at Flame & Moth
5/11/2014	21.9	23.2	-	13.32	7.67	2.564	40.33	0.4	1.81	3.5	6.44	302.1	Exploration activities at Flame & Moth
5/12/2014	14.4	10	-	15.92	9.23	1.645	40.14	0.2	1.55	10.5	6.13	209.7	Exploration activities at Flame & Moth
5/13/2014	<5.6	18.6	-	17.93	11.47	4.408	47.25	0.2	2.2	335.7	8.58	194.22	Exploration activities at Flame & Moth
5/29/2014	17.1	<5.6	-	17.05	10.5	2.236	58.36	1.2	1.64	3.6	7.38	314.9	Exploration activities at Flame & Moth
6/26/2014	<5.6	-	-	15.56	11.04	5.062	48.68	0.4	2.02	79.7	7.96	150.5	Exploration activities at Flame & Moth
6/27/2014	<5.6	5.6	-	18.11	12.96	8.05	48.56	0	1.42	34.9	5.67	322.6	Exploration activities at Flame & Moth
6/28/2014	-	<5.6	-	23.06	16.15	6.332	38.97	0.4	2.11	328.2	7.94	285.6	Exploration activities at Flame & Moth
6/29/2014	<5.6	<5.6	-	24.93	17.07	7.576	40.23	0.2	1.9	35	6.44	336.1	Exploration activities at Flame & Moth

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
6/30/2014	<5.6	<5.6	-	17.12	14.37	12.5	67.69	0	1.12	47.7	6.95	92.8	Exploration activities at Flame & Moth
7/8/2014	<5.6	<5.6	-	16.39	12.98	8.98	63.26	0	1.57	326.4	6.45	223.65	Exploration activities at Flame & Moth
7/27/2014	<5.6	<5.6	-	16.61	11.39	8.41	83.5	2.8	1.11	228.9	5.3	334.3	Exploration activities at Flame & Moth
7/28/2014	<5.6	<5.6	-	18.93	12.56	7.43	68.18	0.6	1.36	220.2	6.31	151.2	Exploration activities at Flame & Moth
7/29/2014	<5.6	<5.6	-	15.18	12.05	9.11	79.4	3.4	1.69	211.1	6.9	320.3	Exploration activities at Flame & Moth
8/22/2014	<5.6	<5.6	-	14.95	10.31	6.149	76.43	0	1.35	44.2	5.99	16.6	Exploration activities at Flame & Moth
8/23/2014	6.9	16.7	-	16.65	10.05	4.659	78.54	1.5	1.37	59.5	4.99	143.45	Exploration activities at Flame & Moth
8/24/2014	<5.6	5.6	-	14.83	9.69	5.429	74.6	0	1.6	55.6	5.76	354.8	Exploration activities at Flame & Moth
8/25/2014	<5.6		-	12.09	9.4	7.071	86.62	1.1	0.73	18.6	3.96	354	Exploration activities at Flame & Moth
8/26/2014	-	<5.6	-	11.48	8.22	5.645	91.57	16	0.65	51.2	4.1	193.15	Exploration activities at Flame & Moth
9/20/2014	<5.6	<5.6	-	8.42	6.1	4.174	77.89	0	1	58.8	5.53	94.3	Exploration activities at Flame & Moth
9/23/2014	5.6	6.9	-	4.986	0.95	-1.977	88.36	0.7	1.51	271.1	7.22	194.91	Exploration activities at Flame & Moth
9/24/2014	5.6	6.9	-	4.955	-0.44	-3.427	76.34	0.4	1.28	22.7	4.81	221.03	Exploration activities at Flame & Moth
9/27/2014	5.6	<5.6	-	4.42	0.96	-1.406	89.84	3.5	1.42	32.8	8.05	166	Exploration activities at Flame & Moth
10/15/2014	9.7	18.1	-	-0.86	-3.51	-5.65	87.21	0.1	0.88	25.4	3.51	30.7	Exploration activities at Flame & Moth
10/16/2014	<5.6	<5.6	-	-0.581	-1.62	-3.093	89.96	0	1.1	28.4	4.97	25.6	Exploration activities at Flame & Moth
10/23/2014	<5.6	<5.6	-	-3.667	-4.97	-5.752	89.54	0	0.93	30.2	4.95	34.6	Exploration activities at Flame & Moth
10/24/2014	<5.6	<5.6	-	-2.715	-4.57	-5.456	95.21	0	0.79	39.2	3.81	171.6	Exploration activities at Flame & Moth
11/19/2014	10	-	-	-2.206	-3.73	-5.562	97.74	0	0.45	50.3	2.98	187.456	No mining operations, Care and Maintenance
11/20/2014	<5.6	-	-	-4.7	-10	-15.01	93.46	0	0.49	124.5	2.75	117	No mining operations, Care and Maintenance
11/22/2014	-	<5.6	-	-18.86	-19.79	-21.6	85.38	0.2	0.22	12.2	1.61	29.1	No mining operations, Care and Maintenance
11/23/2014	-	5.8	-	-17.53	-19.71	-22.09	85.39	0.1	0.15	14.1	2.55	17	No mining operations, Care and Maintenance
11/24/2014	<5.6	-	-	-14.55	-16.44	-18.21	88.27	0.1	0.18	45	1.58	28.1	No mining operations, Care and Maintenance
11/25/2014	10.4	8.1	-	-11.02	-12.48	-13.85	91.5	0	0.18	30.3	1.31	40.8	No mining operations, Care and Maintenance
12/12/2014	10.3	7.8	-	-11.81	-14.01	-16.65	90.33	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/13/2014	5.8	11.7	16	-11.22	-14.47	-17.02	89.88	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/14/2014	-	5.6	<5.6	-2.637	-10.17	-15.75	93.13	0.1	n/a	n/a	0.04	46.8	No mining operations, Care and Maintenance
12/15/2014	<5.6	<5.6	<5.6	-0.904	-1.88	-4.157	85.83	0	0.78	48.5	8.87	155.1	No mining operations, Care and Maintenance
12/17/2014	<5.6	-	-	-5.392	-6.76	-8.51	94.93	0	0.55	69.5	3.02	38.6	No mining operations, Care and Maintenance
1/10/2015	5.6	<5.6	-	-9.46	-10.34	-10.97	93.47	0	0.09	251.9	1.42	10.3	No mining operations, Care and Maintenance
1/11/2015	<5.6	<5.6	-	-9.37	-10.03	-10.63	93.32	0	0.11	65.4	1.26	33.4	No mining operations, Care and Maintenance
1/12/2015	-	-	<5.6	-9.68	-10.29	-11.46	93.2	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/13/2015	<5.6	<5.6		-6.068	-8.44	-11.23	94.59	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/15/2015	6.1	<5.6	<5.6	-0.888	-5.06	-9.68	96.82	0	0.22	356.6	3.7	38.4	No mining operations, Care and Maintenance
1/16/2015	-	-	<5.6	-0.335	-2.85	-7.954	98.1	0	1.14	346.9	4.48	187.95	No mining operations, Care and Maintenance
1/18/2015	-	-	<5.6	-3.823	-6.18	-8.51	96	0.2	0.69	60.2	4.21	170.8	No mining operations, Care and Maintenance
2/12/2015	-	6.3	8.6	-11.62	-13.95	-15.81	89.23	0	0.37	19.4	3.26	272	No mining operations, Care and Maintenance
2/13/2015	<5.6	<5.6	-	-6.289	-8.23	-11.42	93.9	0	0.52	24.5	4.93	37.9	No mining operations, Care and Maintenance
2/15/2015	7.1	<5.6	8.8	-3.145	-6.33	-9.71	92.52	7.3	0.73	98.5	3.04	97.7	No mining operations, Care and Maintenance
2/16/2015	<5.6	<5.6	7.9	-2.157	-7.74	-11.49	93.95	0.7	0.85	15.9	4.61	30.5	No mining operations, Care and Maintenance
2/18/2015	<5.6	-	11.5	-0.889	-2.64	-4.515	96.48	0	0.42	29.1	3.69	7.9	No mining operations, Care and Maintenance
3/6/2015	7.1	7.8	<5.6	-0.298	-3.66	-5.577	86.59	0.1	1.37	322.7	6.53	188.22	No mining operations, Care and Maintenance
3/7/2015	<5.6	<5.6	<5.6	0.932	-2.44	-4.272	78.47	0.2	1.42	30.5	6.22	180.242	No mining operations, Care and Maintenance
3/16/2015	6.7	<5.6	9	-12.89	-19.53	-26.15	73.31	0	0.89	14.5	3.84	17	No mining operations, Care and Maintenance
3/17/2015	<5.6	<5.6	16.5	-1.807	-9.23	-13.81	72.37	0.3	0.93	28.9	4.24	24	No mining operations, Care and Maintenance
4/2/2015	<5.6	<5.6	<5.6	4.032	-1.57	-5.899	66.26	0	1.7	27.7	4.94	71	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
4/3/2015	<5.6	<5.6	<5.6	2.002	-2.72	-7.184	58.66	0	2.35	16.5	7.17	88.7	No mining operations, Care and Maintenance
4/4/2015	<5.6	<5.6	5.7	3.513	-3.7	-10.48	61.55	0	1.53	71	6.57	152.2	No mining operations, Care and Maintenance
4/5/2015	<5.6	<5.6	5.8	3.213	-2.1	-5.496	84.15	0	1.2	345.9	7.63	247.74	No mining operations, Care and Maintenance
5/21/2015	-	-	<5.6	23.83	16.28	7.585	34.05	0	1.73	13	5.17	238.3	No mining operations, Care and Maintenance
5/22/2015	-	-	<5.6	25.09	17.82	10.28	29.16	0	1.71	25.5	6.02	300.9	No mining operations, Care and Maintenance
5/23/2015	-	-	8.8	26.43	19.79	12.86	26.79	0	1.36	18.1	9.86	184.223	No mining operations, Care and Maintenance
5/24/2015	-	-	9.9	26.51	19.2	11.59	32.85	0	1.79	91.6	7.59	167.6	No mining operations, Care and Maintenance
5/25/2015	15.8	18.9	-	25.12	17.97	10.28	38.93	0	2.05	1.8	8.18	180.742	No mining operations, Care and Maintenance
5/26/2015	22.2	26.4	-	21.73	15.55	9.78	53.49	0	1.79	32.8	9.22	90.9	No mining operations, Care and Maintenance
5/27/2015	15.8	15	-	22.99	16.43	11.38	52.67	0	2.18	351.8	8.63	24	No mining operations, Care and Maintenance
5/28/2015	6.3	5.8	-	20.98	14.38	8.42	62.4	0	1.94	333.9	10.63	269	No mining operations, Care and Maintenance
6/16/2015	<5.6	<5.6	<5.6	19.74	13.76	6.668	51.79	0.9	1.75	21.2	10.14	354.4	No mining operations, Care and Maintenance
6/17/2015	<5.6	9.3	<5.6	15.41	11.36	6.976	63.5	0	2.66	357.7	9.73	337.9	No mining operations, Care and Maintenance
6/18/2015	<5.6	<5.6	<5.6	18.34	11.65	4.589	42.59	0	2.27	349.6	7.18	316.9	No mining operations, Care and Maintenance
7/1/2015	-	<5.6	68.1	15.59	11.07	7.143	76.46	1.4	1.58	304.9	7.87	205.51	No mining operations, Care and Maintenance
7/8/2015	15.4	32.1	43.8	17.01	12.85	10.73	80.11	3.2	1.68	276.1	11.49	257.07	No mining operations, Care and Maintenance
7/11/2015	<5.6	7.6	<5.6	14.04	12.35	10.35	75.27	9.5	1.01	39	5.52	152.4	No mining operations, Care and Maintenance
7/20/2015	9.6	5.7	13.1	17.42	11.86	4.725	62.55	0	2.03	2	9.09	318.7	No mining operations, Care and Maintenance
8/13/2015	6.8	10.4	-	14.48	7.56	0.308	64.18	0	1.56	4.2	6.06	322.4	No mining operations, Care and Maintenance
8/14/2015	11.4	<5.6	9.7	16.49	9.14	3.399	70.07	0	1.67	34.3	6.71	224.49	No mining operations, Care and Maintenance
8/15/2015	7.4	9	6.4	18.97	11.31	4.551	63.45	0	1.67	1.3	5.93	215.3	No mining operations, Care and Maintenance
8/16/2015	11	8.6	6.5	16.31	11.81	8.21	64.84	0	1.52	298.6	6.48	207.91	No mining operations, Care and Maintenance
9/17/2015	5.7	<5.6		8.56	5.26	3.57	83.42	4.4	1.69	121.4	6.94	142.7	No mining operations, Care and Maintenance
10/20/2015	6	<5.6	5.6	3.167	1.32	-1.097	89.12	0	0.99	90.8	5.45	120.4	No mining operations, Care and Maintenance
10/21/2015	<5.6	8.2	<5.6	2.824	0.27	-1.349	89.93	0	0.7	23.8	5.71	140.6	No mining operations, Care and Maintenance
11/13/2015	21.4	14	16	-11.46	-12.67	-14.95	91.27	2.4	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
11/15/2015	10.3	10	8.5	-14.97	-16.71	-19.11	88	1	n/a	n/a	0.09	205.82	No mining operations, Care and Maintenance
11/16/2015	10.8	12.2	6.9	-14.95	-16.51	-18.04	88.14	0.2	0.36	19.4	2.93	26	No mining operations, Care and Maintenance
11/17/2015	17.8	20.8	-	-17.84	-18.96	-22.21	85.9	0.3	0.69	20.9	2.99	20.7	No mining operations, Care and Maintenance
11/18/2015	9.7	17.4	-	-22.09	-25.52	-29.1	79.53	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/16/2015	<5.6	-	<5.6	-15.9	-17.77	-21.21	87.08	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/17/2015	<5.6	-	<5.6	-12.54	-17.25	-19.91	87.61	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/18/2015	<5.6	-	<5.6	-10.93	-11.8	-12.91	91.85	0.1	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/19/2015	<5.6	-	<5.6	-11.73	-12.75	-14.99	90.93	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/5/2016	<5.6	-	<5.6	-12.1	-14.93	-16.42	89.23	0	0.41	49.4	2.1	76.3	No mining operations, Care and Maintenance
1/6/2016	<5.6	-	<5.6	-14.12	-15.06	-15.93	85.37	0	0.21	47.1	1.59	30.3	No mining operations, Care and Maintenance
1/7/2016	-	-	<5.6	-14.34	-15.65	-16.56	79.81	4	0.33	64.8	2.2	36.4	No mining operations, Care and Maintenance
1/8/2016	<5.6	-	-	-15.34	-16.32	-17.01	79.46	0	0.51	88.9	2.41	140.3	No mining operations, Care and Maintenance
2/26/2016	<5.6	-	<5.6	-2.88	-6.39	-9.04	89.98	0	0.83	44.7	3.82	14.3	No mining operations, Care and Maintenance
2/27/2016	<5.6	-	<5.6	-0.499	-3.86	-5.51	89.43	0.2	0.9	18.1	5.08	341.7	No mining operations, Care and Maintenance
2/28/2016	<5.6	-	<5.6	-0.842	-2.71	-5.93	76.81	0	1.14	30.8	6.79	139.1	No mining operations, Care and Maintenance
3/12/2016	<5.6	<5.6	<5.6	3.148	-2.98	-7.6	62.41	0.2	1.07	68.3	4.02	90.3	No mining operations, Care and Maintenance
3/14/2016	<5.6	<5.6	<5.6	-4.622	-6.39	-9.43	83.42	0	1.14	17.3	3.71	21.7	No mining operations, Care and Maintenance
3/15/2016	<5.6	<5.6	<5.6	-3.963	-6.65	-9.78	91.08	0.1	0.77	25.8	3.96	45.1	No mining operations, Care and Maintenance
4/19/2016	<5.6	<5.6	<5.6	4.494	0.18	-5.34	60.59	0	1.58	13.4	6.15	318.7	No mining operations, Care and Maintenance
4/23/2016	<5.6	<5.6	<5.6	12.14	5.94	0.67	67.36	0.5	1.25	74.3	5.66	111.3	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
4/24/2016	<5.6	<5.6	<5.6	13.5	7.5	2.87	59.67	0	1.27	32.3	5.58	64.8	No mining operations, Care and Maintenance
5/23/2016	<5.6	<5.6	<5.6	15.41	10.35	2.5	55.84	0	1.95	10.5	6.47	319.6	No mining operations, Care and Maintenance
5/25/2016	10.6	<5.6	<5.6	9.99	7.54	5.79	64.33	0.2	2.36	359.9	8.15	339.7	No mining operations, Care and Maintenance
6/13/2016	<5.6	<5.6	<5.6	14.65	10.54	6.45	73.67	1.1	1.33	26.6	4.77	339	No mining operations, Care and Maintenance
6/17/2016	<5.6	<5.6	<5.6	21.96	15.16	8.18	37.44	0	1.9	8.8	7.63	317.6	No mining operations, Care and Maintenance
6/19/2016	9.7	22.6	6.1	25.98	18.97	9.57	35.04	0	2.41	292.5	9.21	198.7	No mining operations, Care and Maintenance
7/28/2016	<5.6	<5.6	<5.6	18.66	14.78	10.16	67.43	1.7	1.57	61.8	7.73	236.2	No mining operations, Care and Maintenance
7/29/2016	<5.6	<5.6	<5.6	15.55	11.73	7.72	88.27	2.7	0.95	61.3	4.2	238.4	No mining operations, Care and Maintenance
7/30/2016	<5.6	<5.6	<5.6	15.5	12.59	9.46	78.82	0.6	1.44	285.4	6.19	233.8	No mining operations, Care and Maintenance
8/9/2016	<5.6	<5.6	<5.6	12.96	11.51	9.52	93.48	8.5	1.17	302.7	5.5	194.6	No mining operations, Care and Maintenance
8/10/2016	<5.6	<5.6	<5.6	11.59	9.94	8.94	91.5	2.9	1.31	355.7	7.75	255.8	No mining operations, Care and Maintenance
8/11/2016	<5.6	<5.6	<5.6	16.77	11.59	7.05	75.82	0.1	0.87	337.9	5.6	228.3	No mining operations, Care and Maintenance
9/28/2016	<5.6	<5.6	<5.6	5.192	0.46	-2.5	67.44	0	1.38	79.8	5.88	178.1	No mining operations, Care and Maintenance
9/29/2016	<5.6	<5.6	<5.6	3.332	0.51	-3.57	67.16	0.2	2.12	349.2	8.03	309.6	No mining operations, Care and Maintenance
9/30/2016	<5.6	<5.6	<5.6	3.833	-1.67	-6.18	65.93	0	1.35	48.9	4.13	209.7	No mining operations, Care and Maintenance
10/5/2016	8.8	6.7	5.7	1.857	-4.62	-8.16	70.26	0	1.36	59.1	3.94	111.7	No mining operations, Care and Maintenance
10/7/2016	<5.6	-	<5.6	1.909	-4.42	-8.66	67.82	0	1.41	74.1	3.65	126.2	No mining operations, Care and Maintenance
10/10/2016	<5.6	-	13.5	0.07	-5.24	-9.03	75.16	0	1.27	74.9	3.26	102.4	No mining operations, Care and Maintenance
10/27/2016	-	<5.6	-	-5.793	-8.05	-10.39	89.97	0.3	0.96	39.1	3.35	16.5	No mining operations, Care and Maintenance
11/26/2016	<5.6	<5.6	<5.6	-8.12	-13.62	-17.72	89.97	0	0.45	20.1	3.97	23.1	No mining operations, Care and Maintenance
11/27/2016	<5.6	6.1	7.6	-6.422	-6.91	-8.06	95.25	0	0.45	39.6	3.59	37.4	No mining operations, Care and Maintenance
11/28/2016	<5.6	<5.6	<5.6	-6.707	-8.32	-13.37	94.16	1.3	0.34	119.1	4.63	179.3	No mining operations, Care and Maintenance
12/27/2016	<5.6	<5.6	<5.6	-11.02	-11.92	-14.1	91.65	0	0.05	51	1.2	63.8	No mining operations, Care and Maintenance
12/29/2016	<5.6	<5.6	<5.6	-14.61	-16.92	-19.94	87.48	0	0.12	147.9	1.53	184.4	No mining operations, Care and Maintenance
12/30/2016	<5.6	<5.6	<5.6	-14.31	-16.67	-18.52	87.67	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/28/2017	<5.6	<5.6	<5.6	-2.812	-4.68	-6.23	77.47	0	1.36	19.2	5.45	23.8	No mining operations, Care and Maintenance
1/29/2017	<5.6	<5.6	<5.6	-3.933	-7.42	-12.29	93.13	0	1.41	335.4	5.89	193.2	No mining operations, Care and Maintenance
1/30/2017	<5.6	<5.6	<5.6	-12.36	-16.09	-19.73	84.55	0	1.06	96.9	3.83	112.3	No mining operations, Care and Maintenance
2/2/2017	-	<5.6	-	-20.22	-21.79	-23.16	83.14	0	0.35	7.5	2.25	90.9	No mining operations, Care and Maintenance
2/14/2017	<5.6	<5.6	-	4.767	3.12	0.27	62.56	18.1	3.42	108.6	11.61	138.2	No mining operations, Care and Maintenance
2/18/2017	8.8	6.5	<5.6	-9.24	-14.62	-16.86	79.32	0	0.73	53.2	3.41	96.2	No mining operations, Care and Maintenance
2/19/2017	<5.6	<5.6	<5.6	-10.69	-15.61	-17.89	78.99	0	0.68	59.2	3.7	108.8	No mining operations, Care and Maintenance
2/20/2017	-	-	<5.6	-11.48	-15.99	-18.31	80.63	0	0.69	49.4	2.89	98.1	No mining operations, Care and Maintenance
3/23/2017	-	<5.6	-	-5.982	-12.3	-16.98	74.85	0	1.23	21.8	3.92	350.1	No mining operations, Care and Maintenance
3/25/2017	<5.6		-	-9.14	-13.94	-17.87	73.19	0	2.52	14.7	5.84	336.3	No mining operations, Care and Maintenance
3/27/2017	<5.6	<5.6	-	-1.321	-8.92	-16.19	68.59	0.1	1.43	55.2	7.7	92	No mining operations, Care and Maintenance
3/28/2017	<5.6	<5.6	-	2.596	-2.91	-7.28	78.33	0.7	1.72	57.2	6.25	169.5	No mining operations, Care and Maintenance
4/14/2017	5.7	<5.6	-	5.503	-1.28	-8.49	58.58	0	1.52	8.3	7.33	262.9	No mining operations, Care and Maintenance
4/18/2017	<5.6	6.5	-	-1.935	-8.36	-15.36	40.66	0	2.07	39.7	10.23	343.8	No mining operations, Care and Maintenance
4/20/2017	<5.6	5.7	-	-3.151	-8.49	-14.59	42.05	0	2.66	1.5	6.63	321.3	No mining operations, Care and Maintenance
5/25/2017	<5.6	<5.6	-	13.56	8.74	4.31	59.86	0	1.61	31.2	7.19	254.5	No mining operations, Care and Maintenance
5/26/2017	<5.6	<5.6	-	7.391	3.62	0.76	80.44	5.6	2.19	281	10.29	249.3	No mining operations, Care and Maintenance
5/30/2017	<5.6	11.1	-	17.42	12.48	8.6	46.99	0	2.4	347.7	8.74	206.5	No mining operations, Care and Maintenance
6/1/2017	<5.6	<5.6	-	12.23	9.09	5.07	60.89	0	2.38	63.3	6.83	94.3	No mining operations, Care and Maintenance
6/8/2017	<5.6	6.1	-	25.34	20.56	14.96	29.44	0.5	2.07	76.2	7.33	85.1	No mining operations, Care and Maintenance
6/9/2017	<5.6	<5.6	-	24.13	19.01	12.95	45.12	0	1.78	11.4	9.34	287.6	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
6/13/2017	<5.6	<5.6	-	10.14	4.91	-0.9	38.16	0	2.18	42.5	13.32	335.6	No mining operations, Care and Maintenance
6/15/2017	-	-	<5.6	14.9	10.39	2.94	38.74	0	1.27	70.2	5.5	79.5	No mining operations, Care and Maintenance
6/16/2017	-	-	<5.6	16.56	11.43	4.81	50.45	0	1.59	15.8	8.91	311.5	No mining operations, Care and Maintenance
6/20/2017	-	-	9.9	20.64	14.23	8.78	51.8	0	1.68	321.7	9.28	206.9	No mining operations, Care and Maintenance
7/4/2017	-	8.5	-	20.37	15.89	9.55	42.58	0	2	16.7	7.96	338.3	No mining operations, Care and Maintenance
7/5/2017	-	7.6	-	24.54	17.32	8.12	39.77	0.8	1.52	31.5	5.25	331.7	No mining operations, Care and Maintenance
7/7/2017	-	10.6	-	27.18	20.31	11.61	38.51	0.1	1.62	53.7	6.76	178.4	No mining operations, Care and Maintenance
7/18/2017	8.5	-	9.7	20.81	13.1	8.32	82.36	1.9	1.37	46.2	13.65	349.3	No mining operations, Care and Maintenance
7/20/2017	-	-	6	20.7	15.78	9.53	63.3	0.2	1.79	11.1	9.43	284.1	No mining operations, Care and Maintenance
7/21/2017	-	-	<5.6	17.26	13.2	10.8	79.06	1	1.43	29.5	10.42	253.4	No mining operations, Care and Maintenance
7/25/2017	12.5	-	-	20.81	16.42	11.24	60.04	0	1.71	35.7	8.58	335.3	No mining operations, Care and Maintenance
7/27/2017	<5.6	-	-	14.94	11.75	8.44	77.83	0	1.71	47.7	5.46	96.9	No mining operations, Care and Maintenance
8/2/2017	8.8	-	6.1	21.73	15.44	9.3	60.75	0	1.8	354.7	7.21	193.4	No mining operations, Care and Maintenance
8/4/2017	<5.6	-	<5.6	19.12	15.31	10.51	60.32	0	1.72	1.9	6.17	203.7	No mining operations, Care and Maintenance
8/6/2017	11.7	-	6.1	24.03	16.57	9.37	49.23	0	1.48	25.7	6.35	222.8	No mining operations, Care and Maintenance
8/9/2017	-	41.1	-	28.31	19.3	11.34	45.48	0	1.75	39.7	5.73	219.6	No mining operations, Care and Maintenance
8/11/2017	-	17.8	-	22.04	16.94	12.9	50.64	0	1.76	99.7	8.07	163.6	No mining operations, Care and Maintenance
8/15/2017	-	<5.6	-	12.01	7.92	4.54	81.39	0.3	1.27	341	5.75	199.9	No mining operations, Care and Maintenance
9/20/2017	7.6	7.2	7.1	10.76	7.23	4.57	75.59	0	0.88	23.8	4.29	345.6	No mining operations, Care and Maintenance
9/26/2017	-	<5.6	<5.6	6.973	3.16	-0.17	81.17	0.1	1.37	46.7	4.24	12.2	No mining operations, Care and Maintenance
9/27/2017	7.1	-	-	9.4	4.85	2.43	85.17	1.4	1.72	55.6	9.86	143.6	No mining operations, Care and Maintenance
9/29/2017	6.7	<5.6	<5.6	8.55	3.54	-0.46	84.7	0.4	1.14	71	3.71	352.7	No mining operations, Care and Maintenance
10/3/2017	<5.6	<5.6	<5.6	6.991	4.19	1.17	66.06	0	0.9	63.5	3.47	6.4	No mining operations, Care and Maintenance
10/5/2017	<5.6	<5.6	<5.6	9	4.97	2.37	80.66	4.7	1.56	112.6	6.03	154.4	No mining operations, Care and Maintenance
10/6/2017	<5.6	<5.6	<5.6	6.152	3.33	-0.21	86.92	0.3	1.19	353.3	6.01	347.3	No mining operations, Care and Maintenance
11/2/2017	<5.6	-	-	-10.4	-11.79	-14.32	90.97	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
11/16/2017	<5.6	-	-	-19.45	-20.55	-21.31	83.8	0	0.22	26.7	2.28	120.7	No mining operations, Care and Maintenance
11/17/2017	<5.6	-	-	-19.7	-21	-23.24	83.29	0	0.3	29.3	2.08	36.9	No mining operations, Care and Maintenance
11/30/2017	-	<5.6	<5.6	-9.73	-11.89	-13.8	91.4	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/5/2017	-	<5.6	<5.6	-5.088	-6.78	-8.39	94.24	0.8	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/7/2017	-	<5.6	<5.6	3.777	0.39	-1.82	90.97	3.7	1.94	113.9	11.65	142.3	No mining operations, Care and Maintenance
12/12/2017	-	<5.6	<5.6	-3.688	-6.4	-8.45	86.7	0	1.15	100.2	4.75	168.2	No mining operations, Care and Maintenance
12/13/2017	<5.6	-	-	-5.324	-8.94	-12.34	94.1	0.4	0.89	43.8	4.35	43.4	No mining operations, Care and Maintenance
12/15/2017	<5.6	-	-	-0.017	-2.54	-6.63	98.31	2.7	0.65	n/a	2.4	166.2	No mining operations, Care and Maintenance
12/19/2017	<5.6	-	-	-10.78	-13.18	-15.23	90.91	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/20/2017	<5.6		<5.6	-10.64	-13.18	-15.75	90.9	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/21/2017	-	<5.6		-12.8	-14.28	-16.66	90.1	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/24/2017	-	<5.6	<5.6	-20.24	-21.89	-23.4	83.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/26/2017	-	<5.6		-14	-16.83	-20.1	87.8	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/28/2017	-	-	<5.6	-22.05	-23.34	-25.35	81.7	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/29/2017	<5.6	-	-	-23.53	-24.69	-25.99	80.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/2/2018	<5.6	<5.6	<5.6	-17.77	-21.06	-24.85	83.8	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/3/2018	<5.6	<5.6	<5.6	-8.86	-12	-17.82	91.6	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/4/2018	<5.6	<5.6	<5.6	-3.568	-6.759	-10.68	95.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/11/2018	<5.6	<5.6	<5.6	-29.94	-32.17	-34.3	72.05	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/18/2018	<5.6	<5.6	<5.6	2.077	-3.636	-9.47	70.06	0	0.79	220.9	3.254	293.6	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
1/23/2018	<5.6	<5.6	<5.6	-16.02	-18.05	-19.86	86.4	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/31/2018	<5.6	<5.6	<5.6	-20.77	-23.8	-26.18	77.53	0	2.81	192.4	7.213	194.5	No mining operations, Care and Maintenance
2/7/2018	<5.6	<5.6	<5.6	-23.2	-27.88	-30.68	76.39	0	0.407	219.8	2.519	192.2	No mining operations, Care and Maintenance
2/9/2018	<5.6	<5.6	-	-21.7	-24.92	-27.68	75.69	0	0.346	202.2	1.862	329.1	No mining operations, Care and Maintenance
2/10/2018	-	-	<5.6	-21.9	-26.24	-29.05	76.55	0	0.285	233.1	2.283	209	No mining operations, Care and Maintenance
2/14/2018	<5.6	<5.6	7.2	-10.29	-14.59	-17.29	87.7	0	0.985	229.6	2.754	271.3	No mining operations, Care and Maintenance
2/15/2018	<5.6	<5.6	<5.6	-14.19	-17.94	-20.59	83.6	0	0.258	198.1	1.999	199.1	No mining operations, Care and Maintenance
2/20/2018	<5.6	<5.6	<5.6	-13.48	-16.68	-19.24	85.5	0	0.981	190	7.801	53.28	No mining operations, Care and Maintenance
2/21/2018	<5.6	<5.6	<5.6	-7.666	-12.93	-16.87	87.7	0	2.24	206.8	7.556	57.43	No mining operations, Care and Maintenance
2/22/2018	<5.6	<5.6	<5.6	-5.597	-11.28	-16.38	76.97	0	0.654	227.1	3.567	296.9	No mining operations, Care and Maintenance
2/23/2018	<5.6	<5.6	<5.6	-10.39	-12.79	-15.82	88.2	0	1.17	254.8	7.605	75.33	No mining operations, Care and Maintenance
2/27/2018	<5.6	<5.6	<5.6	-12.56	-16.81	-19.73	82.2	0	0.623	233.4	3.508	322.5	No mining operations, Care and Maintenance
3/1/2018	<5.6	<5.6	<5.6	-14.97	-18.85	-22.31	67.1	0	1.304	219.9	4.606	201	No mining operations, Care and Maintenance
3/2/2018	<5.6	<5.6	<5.6	-13.68	-22.47	-26.45	64.83	0	1.001	235.6	3.861	209	No mining operations, Care and Maintenance
3/6/2018	<5.6	<5.6	<5.6	-11.09	-17.24	-21.55	75.15	0.2	0.955	200.4	3.371	282.6	No mining operations, Care and Maintenance
3/8/2018	<5.6	<5.6	<5.6	-9.8	-14.65	-18.45	75.38	0.4	1.424	237.7	5.047	259.7	No mining operations, Care and Maintenance
3/13/2018	<5.6	<5.6	<5.6	2.905	-1.687	-5.331	52.33	0.6	1.566	199.7	4.782	201.2	No mining operations, Care and Maintenance
3/15/2018	<5.6	8.7	<5.6	11.19	2.594	-1.832	62.47	0.7	1.284	217.3	6.203	110.4	No mining operations, Care and Maintenance
3/16/2018	<5.6	<5.6	<5.6	8.27	1.377	-2.342	73.8	0.1	0.971	222.6	4.008	187.7	No mining operations, Care and Maintenance
3/20/2018	<5.6	<5.6	<5.6	2.731	-2.026	-6.887	70.84	0	2.006	227.3	8.16	225.8	No mining operations, Care and Maintenance
3/21/2018	<5.6	<5.6	<5.6	-2.753	-5.636	-9.05	64.22	0	3.028	240.6	9.13	257.7	No mining operations, Care and Maintenance
4/3/2018	<5.6	<5.6	12.6	-8.43	-11.97	-16.8	46.03	0	1.974	227.6	7.742	272.8	No mining operations, Care and Maintenance
4/4/2018	<5.6	<5.6	<5.6	-7.616	-14.89	-20.62	46.75	0	1.567	232.8	7.134	293	No mining operations, Care and Maintenance
4/5/2018	<5.6	<5.6	<5.6	-4.383	-13.63	-21.68	49.47	0	1.468	248.5	7.664	327.4	No mining operations, Care and Maintenance
4/10/2018	-	6.8	<5.6	3.482	-4.219	-11.3	46.21	0	2.111	235.5	9.28	273.2	No mining operations, Care and Maintenance
4/11/2018	-	<5.6	<5.6	5.638	-0.33	-8.02	50.97	0	1.739	264.9	6.948	315.3	No mining operations, Care and Maintenance
4/12/2018	<5.6	<5.6	<5.6	9.78	2.492	-1.88	52.16	0	1.008	240.5	4.077	327.7	No mining operations, Care and Maintenance
4/17/2018	<5.6	<5.6	<5.6	-1.369	-10.33	-17.82	37.8	0	1.407	219.1	4.792	162.3	No mining operations, Care and Maintenance
4/19/2018	<5.6	<5.6	<5.6	4.731	-5.377	-12.12	44.68	0	1.64	201.5	5.517	160.1	No mining operations, Care and Maintenance
4/20/2018	<5.6	-	-	1.881	-4.589	-12.95	48	0	1.605	205.7	8.79	6.711	No mining operations, Care and Maintenance
4/24/2018	<5.6	-	-	6.318	2.829	0.45	64.47	0	2.319	268.3	8.58	329.8	No mining operations, Care and Maintenance
4/26/2018	<5.6	<5.6	<5.6	9.08	4.068	-0.925	46.54	0	1.372	222.2	5.733	105.2	No mining operations, Care and Maintenance
5/1/2018	<5.6	<5.6	<5.6	8.74	3.581	-1.079	61.55	0	1.321	166.8	6.605	44.72	No mining operations, Care and Maintenance
5/3/2018	<5.6	<5.6	<5.6	1.493	-0.761	-4.476	92.8	8.5	1.435	247.8	6.458	333.9	No mining operations, Care and Maintenance
5/8/2018	<5.6	<5.6	<5.6	6.926	2.424	-1.006	70.64	2.8	1.604	275.1	5.811	300	No mining operations, Care and Maintenance
5/9/2018	-	<5.6	-	13.97	4.963	-3.265	51.91	1.5	1.286	220.4	5.782	302.9	No mining operations, Care and Maintenance
5/10/2018	-	-	<5.6	16.93	9.41	1.081	40.14	0	1.957	271.6	7.664	332.5	No mining operations, Care and Maintenance
5/15/2018	<5.6	<5.6	<5.6	8.09	2.989	0.68	91.2	6.7	0.833	224.5	4.684	180.5	No mining operations, Care and Maintenance
5/22/2018	<5.6	<5.6	<5.6	12.9	8.59	4.599	66.06	1.5	2.908	279.8	8.91	3.516	Flame and Moth development and Care and Maintenance at other sites
5/24/2018	<5.6	2.8	<5.6	14.14	8.17	3.204	56.99	0	1.255	195	9.56	344.4	Flame and Moth development and Care and Maintenance at other sites
5/26/2018	<5.6	-	<5.6	14.29	6.597	2.294	68.15	0.2	1.584	200.4	6.713	140	Flame and Moth development and Care and Maintenance at other sites
5/27/2018	-	5.7	<5.6	12.95	6.717	0.28	63.54	3.4	1.528	132.6	7.379	187.7	Flame and Moth development and Care and Maintenance at other sites
6/5/2018	<5.6	-	<5.6	17.56	11.68	6.132	58.24	0	1.356	228.7	7.722	271.6	Flame and Moth development and Care and Maintenance at other sites
6/6/2018	<5.6	-	<5.6	15.27	9.47	6.681	73.84	3.9	0.961	195.2	4.675	2.386	Flame and Moth development and Care and Maintenance at other sites
6/8/2018	<5.6	-	<5.6	13.94	7.995	4.234	78.94	3.2	1.149	195.8	5.037	151.1	Flame and Moth development and Care and Maintenance at other sites
6/11/2018	<5.6	-	<5.6	15.4	9.1	3.168	59.9	0.7	1.198	155.8	9.05	45.53	Flame and Moth development and Care and Maintenance at other sites

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
6/13/2018	<5.6	-	<5.6	15.33	9.16	3.967	63.04	0	1.763	151.5	6.517	15.94	Flame and Moth development and Care and Maintenance at other sites
6/14/2018		-	<5.6	15.35	10.38	4.373	52.95	0	1.65	165.4	6.36	55.49	Flame and Moth development and Care and Maintenance at other sites
6/19/2018	<5.6	-	<5.6	25.17	17.37	11.27	45.09	0	1.523	146.4	8.56	136.6	Flame and Moth development and Care and Maintenance at other sites
6/20/2018	<5.6	-	<5.6	22.58	16.99	9.93	47.75	1.8	1.457	179.6	7.703	250.1	Flame and Moth development and Care and Maintenance at other sites
6/21/2018	-	-	<5.6	25.47	16.89	6.766	55.76	0.6	1.467	262.1	8.9	327	Flame and Moth development and Care and Maintenance at other sites
6/22/2018	-	<5.6	-	28.51	19.08	12.81	44.39	0.4	2.305	80.64	8.82	14.97	Flame and Moth development and Care and Maintenance at other sites
6/26/2018	<5.6	<5.6	-	18.37	11.25	3.459	71.78	3.1	1.605	217.9	5.968	150.3	Flame and Moth development and Care and Maintenance at other sites
7/3/2018	-	-	<5.6	19.5	12.45	5.41	64.46	1.9	1.364	180.4	7.477	173.1	Flame and Moth development and Care and Maintenance at other sites
7/4/2018	-	-	<5.6	20.96	13.44	5.519	63.67	0.1	2.269	155.4	10.06	60.14	Flame and Moth development and Care and Maintenance at other sites
7/6/2018	-	-	<5.6	19.5	14.66	8.5	46.85	0	1.762	146.8	6.625	76.48	Flame and Moth development and Care and Maintenance at other sites
7/10/2018	-	-	<5.6	20.06	15.79	12.04	47.65	0	2.028	300.3	8.61	328.7	Flame and Moth development and Care and Maintenance at other sites
7/11/2018	-	-	<5.6	17.4	12.56	8.6	61.01	6.3	1.929	162.1	8.92	15.82	Flame and Moth development and Care and Maintenance at other sites
7/12/2018	-	-	<5.6	17.39	10.93	7.336	75.51	2.5	1.636	205.7	7.997	107.2	Flame and Moth development and Care and Maintenance at other sites
7/13/2018	<5.6	-	<5.6	17.16	10.44	3.58	68.2	0	1.653	173.3	6.938	144.1	Flame and Moth development and Care and Maintenance at other sites
7/17/2018	<5.6	-	<5.6	13.2	8.93	6.197	86	11.3	1.041	221.1	6.556	102.4	Flame and Moth development and Care and Maintenance at other sites
7/18/2018	<5.6	-	5.8	17.06	9.33	5.835	84.6	4.3	1.282	168.3	5.88	168.3	Flame and Moth development and Care and Maintenance at other sites
7/24/2018	<5.6	-	6.9	26.58	17.31	11.24	52.87	0.1	1.532	214.9	6.674	43.67	Flame and Moth development and Care and Maintenance at other sites
7/26/2018	<5.6	34.9	-	29.01	19.41	11.04	41.71	0	2.021	141.2	7.664	25.33	Flame and Moth development and Care and Maintenance at other sites
7/27/2018	<5.6	9.9	-	27.41	18.97	11.24	42.93	0	1.947	140.2	7.203	68.43	Flame and Moth development and Care and Maintenance at other sites
7/31/2018		17.1	-	27.16	17.97	9.47	47.31	0	1.668	222.3	11.04	128	Flame and Moth development and Care and Maintenance at other sites
8/1/2018	<5.6	-	-	26.12	17	11.31	57.43	2	1.161	156.8	6.566	82.9	Flame and Moth development and Care and Maintenance at other sites
8/2/2018	-	-	<5.6	26.82	18.03	9.95	54.92	0	1.711	159.3	17.1	89.8	Flame and Moth development and Care and Maintenance at other sites
8/3/2018	-	-	-	23.89	16.56	12.37	65.1	0.9	0.934	201.1	4.557	200.2	Flame and Moth development and Care and Maintenance at other sites
8/4/2018	<5.6	-	<5.6	19.35	14.2	9.46	74.52	2.1	1.026	165.1	4.606	8.25	Flame and Moth development and Care and Maintenance at other sites
8/5/2018	-	<5.6	-	14.73	12.4	10.8	89.5	8.6	1.561	180.6	6.047	22.61	Flame and Moth development and Care and Maintenance at other sites
8/6/2018	-	-	<5.6	17.5	12.72	10.31	89.7	3.6	1.521	167.2	6.86	24.34	Flame and Moth development and Care and Maintenance at other sites
8/7/2018	<5.6	<5.6	<5.6	16.36	12.19	10.07	88	2.9	0.974	198.1	6.762	22.55	Flame and Moth development and Care and Maintenance at other sites
8/8/2018		<5.6	<5.6	15.83	11.44	8.69	87.2	20.2	1.118	217.3	6.399	4.31	Flame and Moth development and Care and Maintenance at other sites
8/17/2018	<5.6	<5.6	<5.6	14.46	8.84	4.09	80.6	0.1	1.836	187.8	9.34	60.18	Flame and Moth development and Care and Maintenance at other sites
8/18/2018	-	<5.6	<5.6	10.23	6.836	3.253	85.6	1.9	1.983	108.8	9.17	52.15	Flame and Moth development and Care and Maintenance at other sites
8/20/2018	-	<5.6	<5.6	18.46	10.9	3.702	62.5	0	1.529	170.8	7.036	8.11	Flame and Moth development and Care and Maintenance at other sites
8/21/2018	<5.6	10	<5.6	20.81	14.06	8.6	64.58	0	1.63	274.9	8.21	334.3	Flame and Moth development and Care and Maintenance at other sites
8/22/2018	<5.6	<5.6	-	21.91	15.15	10.29	67.48	0.2	1.627	191.5	8.53	337.5	Flame and Moth development and Care and Maintenance at other sites
8/23/2018	7.9	<5.6	-	14.27	9.01	6.972	88	16.8	1.576	102.1	5.919	27.36	Flame and Moth development and Care and Maintenance at other sites
8/25/2018	<5.6	-	-	10.22	6.52	2.828	92.2	4.1	1.577	226.6	6.644	129.5	Flame and Moth development and Care and Maintenance at other sites
8/26/2018	6.7	-	-	12.89	8.16	2.731	83	2.4	1.707	163.1	6.468	32.1	Flame and Moth development and Care and Maintenance at other sites
9/2/2018	<5.6	<5.6	<5.6	10.7	3.297	-3.314	76.05	0.3	2.042	230.2	10.51	146	Flame and Moth development and Care and Maintenance at other sites
9/3/2018	<5.6	<5.6	<5.6	7.869	4.126	-0.97	70	1	1.602	189.8	7.928	12.66	Flame and Moth development and Care and Maintenance at other sites
9/5/2018	<5.6	<5.6	<5.6	11.22	7.083	4.282	73	5.3	0.562	220.8	4.969	185	Flame and Moth development and Care and Maintenance at other sites
9/6/2018	<5.6	<5.6	5.6	9.76	5.046	1.52	89.4	0.4	1.081	233.6	4.43	71.58	Flame and Moth development and Care and Maintenance at other sites
9/7/2018	<5.6	<5.6	<5.6	9.76	4.749	0.924	85.5	0	1.63	233.9	6.39	266.1	Flame and Moth development and Care and Maintenance at other sites
9/9/2018	<5.6	<5.6	<5.6	12.45	4.741	-1.783	65.15	0	1.511	198.5	5.537	124.1	Flame and Moth development and Care and Maintenance at other sites
9/10/2018	<5.6	<5.6	<5.6	13.8	5.578	-1.006	57.21	0	2.177	195	6.997	158.1	Flame and Moth development and Care and Maintenance at other sites
9/11/2018	<5.6	<5.6	<5.6	12.66	6.037	0.766	52.38	0	1.781	198.9	6.419	226.1	Flame and Moth development and Care and Maintenance at other sites
9/12/2018	<5.6	<5.6	<5.6	8.56	2.232	-2.305	45.9	0	1.346	201	4.341	33.92	Flame and Moth development and Care and Maintenance at other sites
10/03/2018	-	-	-	6.692	-1.208	-5.38	51.29	0	1.448	12.21	3.577	289	Flame and Moth development and Care and Maintenance at other sites

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
10/05/2018	-	-	-	4.534	-2.66	-8.08	56.46	0	1.152	27.27	4.243	300.3	Flame and Moth development and Care and Maintenance at other sites
10/07/2018	-	-	-	0.935	-3.467	-7.314	53.84	0	2.261	71.17	6.703	274.3	Flame and Moth development and Care and Maintenance at other sites
10/08/2018	-	-	-	-2.852	-7.155	-12.41	65.21	0	1.29	319.71	5.106	195.2	Flame and Moth development and Care and Maintenance at other sites
10/24/2018	-	-	-	7.845	3.324	-1.82	79.21	0	1.886	294.78	10.43	316.1	Flame and Moth development and Care and Maintenance at other sites
10/25/2018	-	2.8	2.8	8.01	4.607	0.596	57.76	0	2.915	350.76	10.45	333.2	Flame and Moth development and Care and Maintenance at other sites
10/26/2018	2.8	2.8	2.8	7.011	3.262	0.086	63.37	0	1.397	301.93	7.762	322.1	Flame and Moth development and Care and Maintenance at other sites
10/30/2018	2.8	5.6	2.8	-2.415	-6.82	-9.65	79.84	0	0.634	63.48	2.45	307.9	Flame and Moth development and Care and Maintenance at other sites
10/31/2018	2.8	-	-	-4.917	-6.713	-9.25	93.6	0	0.599	286.71	4.479	346.8	Flame and Moth development and Care and Maintenance at other sites
11/07/2018	2.8	2.8	2.8	-17.86	-20.26	-22.45	84.3	0	0.352	322.68	2.176	318.3	No mining operations, Care and Maintenance
11/08/2018	2.8	2.8	-	-16.4	-19.66	-22.55	84.8	0	0.285	57.2	1.931	339.9	No mining operations, Care and Maintenance
11/09/2018	-	-	2.8	-9.49	-13.43	-19.61	89.9	0	0.315	292.83	2.744	192.3	No mining operations, Care and Maintenance
11/15/2018	2.8	2.8	14.7	-11.8	-15.51	-20.44	85	0	3.028	51.25	9.79	202	No mining operations, Care and Maintenance
11/18/2018	2.8	-	-	-12.66	-16.45	-20.72	87.6	0	0.403	59.23	2.411	170.1	No mining operations, Care and Maintenance
11/19/2018	-	-	-	-8.42	-11.62	-14.8	91.6	0	0.355	57.13	2.421	212.9	No mining operations, Care and Maintenance
11/21/2018	-	-	-	1.579	0.073	-1.312	96.3	0	0.439	n/a	3.41	122.6	No mining operations, Care and Maintenance
11/22/2018	-	-	-	-0.254	-2.923	-4.954	97.3	0	0	n/a	0	0	No mining operations, Care and Maintenance
11/23/2018	-	-	-	-4.941	-7.187	-9.83	95.7	0	0	n/a	0	0	No mining operations, Care and Maintenance
11/28/2018	-	-	-	2.828	0.677	-3.581	82	0	1.781	319.7	9.01	320.6	No mining operations, Care and Maintenance
11/30/2018	-	-	-	-3.325	-4.106	-5.694	96.9	0	0.292	279.51	2.558	356.1	No mining operations, Care and Maintenance
12/04/2018	-	-	-	-11.74	-16.04	-19.83	88.4	0	0.409	325.94	3.998	344.2	No mining operations, Care and Maintenance
12/07/2018	-	-	-	-9.47	-15.19	-19.61	89	0	0.351	39.55	2.577	258	No mining operations, Care and Maintenance
12/10/2018	-	-	-	2.125	0.859	-0.496	67.85	0	3.919	296.62	13.45	327.1	No mining operations, Care and Maintenance
12/11/2018	-	-	-	-0.763	-3.102	-9.05	81.9	0	1.903	309.37	7.664	324.2	No mining operations, Care and Maintenance
12/12/2018	-	-	-	-0.763	-3.102	-9.05	81.9	0	1.903	359.61	7.664	319.6	No mining operations, Care and Maintenance
12/13/2018	-	-	-	-8.48	-11.5	-14.15	90.5	0	0.897	7.13	3.322	275.6	No mining operations, Care and Maintenance
12/14/2018	-	-	-	-10.96	-14.18	-17.34	88.5	0	0.796	338.86	3.695	241.4	No mining operations, Care and Maintenance
12/18/2018	-	5.7	2.8	-1.576	-3.757	-5.72	71.46	0	1.025	1.31	4.753	14.58	No mining operations, Care and Maintenance
12/26/2018	-	6.8	6.7	-24.57	-26.82	-27.92	77.75	0	0.321	49.67	2.372	209.7	No mining operations, Care and Maintenance
12/27/2018	7.9	6.9		-21.66	-23.42	-25.06	81.1	0	0.378	54.69	2.656	290.7	No mining operations, Care and Maintenance
12/28/2018	2.8	-	7.8	-14.64	-18.92	-22.93	85.5	0	0.265	359.5	2.597	237.8	No mining operations, Care and Maintenance
12/30/2018	2.8	-	-	-11.95	-16.35	-20.83	87.5	0	0.539	350.96	2.421	282.1	No mining operations, Care and Maintenance
01/10/2019	8.3	6.7	7.4	-24.49	-26.870833	-30.48	77.954583	0	0.1952917	247.125	2.156	355.8	No mining operations, Care and Maintenance
01/15/2019	-	7.8	7.6	-11.24	-12.59	-13.97	90.983333	0	0.0002917	9.125	0.372	219	No mining operations, Care and Maintenance
01/17/2019	7.6	7.1	6.5	-7.955	-8.7972917	-9.78	93.833333	0	0	0	0	0	No mining operations, Care and Maintenance
01/22/2019	7.8	8.3	-	-19.68	-23.188333	-27.11	81.6	0	0	0	0	0	No mining operations, Care and Maintenance
01/24/2019	-	-	-	-14.15	-17.783333	-19.34	86.291667	0	0	0	0	0	No mining operations, Care and Maintenance
01/25/2019	-	-	-	-7.034	-10.310083	-14.29	92.570833	0	0	0	0	0	No mining operations, Care and Maintenance
01/29/2019	-	-	-	-9.4	-13.645417	-16.68	90.083333	0	0.2775833	201.10417	2.342	330.2	No mining operations, Care and Maintenance
01/30/2019	-	-	-	-8.95	-13.7325	-19.7	86.863333	0	1.542625	163.5	6.399	237.3	No mining operations, Care and Maintenance
01/31/2019	-	-	-	-20.23	-23.748333	-26.83	72.5925	0	1.8998333	225.05833	5.723	264.8	No mining operations, Care and Maintenance
02/07/2019	-	-	-	-18.34	-20.36	-22.9	84.316667	0	0.3640833	248.46667	2.029	330.2	No mining operations, Care and Maintenance
02/08/2019	-	-	-	-15.76	-18.39	-20.57	85.941667	0	0.4845	239.89167	3.116	332.5	No mining operations, Care and Maintenance
02/21/2019	-	-	-	-14.18	-16.91875	-18.97	82.025	0	1.6579167	213.69167	5.909	286.5	No mining operations, Care and Maintenance
02/22/2019	-	-	-	-14.46	-19.284583	-22.41	73.145	0	1.3306667	221.35417	4.978	284	No mining operations, Care and Maintenance
02/23/2019	-	-	-	-18.04	-21.610833	-25.14	77.709167	0	0.998	231.96808	3.263	350	No mining operations, Care and Maintenance
02/25/2019	-	-	-	-12.6	-17.096667	-19.21	78.645417	0	0.6980417	242.25833	2.773	295.4	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
02/26/2019	2.8	2.8	12.9	-9.67	-14.59	-17.76	78.19625	0	0.5995	227.91708	2.499	336.4	No mining operations, Care and Maintenance
02/27/2019	2.8	2.8	2.8	-7.037	-12.0065	-15.11	78.8	0	0.54175	233.21667	2.303	333.4	No mining operations, Care and Maintenance
02/28/2019	2.8	2.8	16.2	-6.324	-11.318083	-14.63	82.065833	0	0.5989167	221.4125	3.518	323.4	No mining operations, Care and Maintenance
03/05/2019	-	2.8	6.2	-10.06	-16.270417	-20.19	65.374167	0	0.9472083	224.21583	3.636	281.4	No mining operations, Care and Maintenance
03/06/2019	-	2.8	2.8	-8.03	-14.920417	-19.1	57.405833	0	0.8925	226.77917	3.489	294.4	No mining operations, Care and Maintenance
03/07/2019	-	2.8	2.8	-8.78	-14.665	-18.59	61.572083	0	1.197875	239.28333	3.322	297.3	No mining operations, Care and Maintenance
03/09/2019	2.8	-	-	-5.692	-11.172625	-16.56	64.7425	0	1.0441667	223.09583	4.577	275.8	No mining operations, Care and Maintenance
03/12/2019	2.8	-	-	2.254	-3.563875	-6.527	69.5725	0	1.170125	212.84292	4.302	333.9	No mining operations, Care and Maintenance
03/13/2019	2.8	-	-	1.848	-4.1465	-9.98	61.662083	0	1.9938333	297.51667	8.93	339.6	No mining operations, Care and Maintenance
03/14/2019	-	-	-	3.302	-1.0593333	-4.462	59.0575	0	2.267	270.82375	8.36	359.7	No mining operations, Care and Maintenance
03/19/2019	-	-	-	10.84	6.23775	3.674	53.148333	0	3.2378333	308.1475	11.77	359.4	No mining operations, Care and Maintenance
03/27/2019	-	-	-	5.028	-0.1060417	-4.954	70.095833	0	1.2450833	216.0175	5.498	310.9	No mining operations, Care and Maintenance
04/02/2019	-	-	-	1.565	-2.1739583	-8.45	58.46125	0	2.5897917	258.53333	9.16	281.8	No mining operations, Care and Maintenance
04/04/2019	-	-	-	-4.519	-12.570708	-19.91	39.09375	0	1.4576667	231.20667	6.909	357.8	No mining operations, Care and Maintenance
04/09/2019	-	-	-	7.235	3.2065	-2.077	47.27125	0	1.5754167	270.42333	7.997	354.7	No mining operations, Care and Maintenance
04/11/2019	-	-	-	9.18	3.6364583	-1.373	42.927083	0	2.0464583	314.29583	8.23	350.4	No mining operations, Care and Maintenance
04/17/2019	-	-	-	8.96	1.47825	-4.434	60.352083	0	1.448125	246.592	8.05	334	No mining operations, Care and Maintenance
04/18/2019	-	-	-	5.594	2.8286667	0.351	70.36	0	1.7514583	248.90783	7.801	356.7	No mining operations, Care and Maintenance
04/19/2019	2.8	2.8	-	7.499	2.229375	-1.674	60.086667	0.438	2.2655417	256.18425	6.831	357	No mining operations, Care and Maintenance
04/20/2019	2.8	8.7	2.8	6.688	0.3529583	-5.158	56.128333	0.292	1.8405417	238.09813	6.948	358.5	No mining operations, Care and Maintenance
04/24/2019	-	-	2.8	0.96	-2.3745833	-4.882	75.500833	1.314	1.810625	141.10846	8.35	353.3	No mining operations, Care and Maintenance
04/25/2019	-	2.8	-	0.827	-3.3629583	-6.81	63.35125	0.73	1.6343333	185.6375	5.41	260.9	No mining operations, Care and Maintenance
04/30/2019	-	-	2.8	9.15	3.99175	-2.512	33.269167	0	2.079625	212.77083	8.35	293.8	No mining operations, Care and Maintenance
05/01/2019	6.1	2.8	2.8	8.81	5.1976667	1.7	33.942917	0	2.950375	197.1625	11.64	282.3	No mining operations, Care and Maintenance
05/07/2019	2.8	2.8	2.8	15.15	8.326	0.134	53.544167	0.73	1.8167917	186.5975	9.89	358.8	No mining operations, Care and Maintenance
05/08/2019	-	-	2.8	17.65	11.291292	7.342	48.362083	0.292	2.948125	290.48279	10.3	359.3	No mining operations, Care and Maintenance
05/09/2019	-	2.8	-	12.17	8.3606667	3.331	50.143333	0.438	2.3521667	146.60946	8.81	359.7	No mining operations, Care and Maintenance
05/14/2019	2.8	-	-	16.28	10.916792	5.083	28.129583	1.022	1.602	244.70833	6.801	316.1	No mining operations, Care and Maintenance
05/18/2019	-	-	-	10.95	7.726375	3.783	73.019167	0.876	0.9894583	193.77708	4.92	355.6	No mining operations, Care and Maintenance
05/21/2019	-	-	-	21.25	16.726667	11.5	31.793333	0	1.3025	249.77083	6.556	321.8	No mining operations, Care and Maintenance
05/23/2019	-	-	-	21.29	13.983083	7.437	44.230417	0	1.5660417	232.92208	7.654	333.1	No mining operations, Care and Maintenance
06/04/2019	-	-	-	13.42	9.1040417	3.934	47.038333	0	2.0071667	186.85	6.517	272.9	No mining operations, Care and Maintenance
06/06/2019	-	-	-	15.9	10.5805	6.499	60.962917	0.146	1.8304167	186.63458	8.67	358	No mining operations, Care and Maintenance
06/18/2019	-	-	-	19.38	14.562083	10.12	60.11375	0	1.9239583	187.60333	7.046	323.3	No mining operations, Care and Maintenance
06/20/2019	-	-	-	22.07	15.650458	6.039	38.10625	0	1.7247917	211.00833	6.38	301.7	No mining operations, Care and Maintenance
06/25/2019	-	-	-	19.23	15.17625	11.19	49.425	0	1.9577083	187.475	10.52	358.6	No mining operations, Care and Maintenance
06/28/2019	-	-	-	20.08	16.84125	14.1	41.730417	0	1.1234167	159.46521	5.116	353.6	No mining operations, Care and Maintenance
06/29/2019	23.5	26	23.2	25.09	18.688333	12.53	52.956667	0.584	2.162	182.87583	11.17	303.1	No mining operations, Care and Maintenance
07/03/2019	-	-	-	22.18	16.4325	9.6	39.99375	0	2.0287917	171.47417	7.272	295.4	No mining operations, Care and Maintenance
07/04/2019	-	-	-	19.89	15.685417	11.1	67.605	1.168	1.4183333	206.125	8.1	287.9	No mining operations, Care and Maintenance
07/09/2019	-	-	-	21.46	15.446667	8.28	42.47625	0	1.8640417	202.63333	6.703	282.3	No mining operations, Care and Maintenance
07/11/2019	-	-	-	19.66	13.620833	10.8	77.20125	7.878	1.231375	200.51458	10.68	350.3	No mining operations, Care and Maintenance
07/16/2019	-	-	-	20	14.81875	9.61	64.736667	0	1.535875	207.88333	6.556	343.7	No mining operations, Care and Maintenance
07/19/2019	-	-	-	22.76	16.9775	9.6	54.395417	0	1.6537083	198.15479	7.438	291.4	No mining operations, Care and Maintenance
07/21/2019	-	49.4	15.1	22.43	17.079583	11.22	56.63125	0	1.4669167	218.42917	5.537	293	No mining operations, Care and Maintenance
07/26/2019	2.8	9.3	-	17.67	12.588542	7.242	64.055833	0	1.5309583	203.3425	5.606	305.3	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
07/30/2019	2.8	2.8	2.8	18.77	12.2425	8.25	71.22875	0	1.050375	179.00021	8.38	346.9	No mining operations, Care and Maintenance
07/31/2019	9.6	-	6.4	18.56	12.505958	7.046	69.404583	0	1.209	185.44542	6.801	356.4	No mining operations, Care and Maintenance
08/01/2019	-	-	-	18.99	11.8195	7.009	74.107917	2.918	1.3897083	170.79096	9.81	360	No mining operations, Care and Maintenance
08/06/2019	-	-	-	18.23	11.948542	7.721	74.810833	4.085	1.9889167	188.18792	10.98	351.5	No mining operations, Care and Maintenance
08/08/2019	-	-	-	14.8	8.9951667	3.894	51.977917	0	2.298125	177.25417	6.733	278.4	No mining operations, Care and Maintenance
08/15/2019	-	-	-	15.56	11.80875	9.01	57.177917	0	3.489625	105.67208	9.86	191.5	No mining operations, Care and Maintenance
08/16/2019	-	-	-	8.92	7.2039583	4.712	83.785	4.085	1.2287917	154.37913	6.194	358.1	No mining operations, Care and Maintenance
08/21/2019	-	-	-	11.3	6.3369167	2.046	58.40375	1.022	1.3667083	168.94704	11.95	355.1	No mining operations, Care and Maintenance
08/22/2019	2.8	2.8	2.8	12.61	4.8290417	-2.778	66.035417	0.146	1.1984583	175.18404	5.762	356.7	No mining operations, Care and Maintenance
08/27/2019	2.8	7.9	6.1	16.63	8.0976667	0.956	61.71875	0	1.8894583	145.95	6.88	294.9	No mining operations, Care and Maintenance
08/28/2019	2.8	7.2	-	15.27	8.4204167	1.319	61.025417	0	1.5641667	171.44496	6.145	358.6	No mining operations, Care and Maintenance
08/30/2019	-	-	9.7	16.84	9.61075	2.711	61.901667	0	1.4691667	188.22288	5.811	331.6	No mining operations, Care and Maintenance
09/03/2019	-	-	-	15.1	9.7930417	4.93	74.101667	0.73	1.2398333	212.31038	7.781	358.8	No mining operations, Care and Maintenance
09/04/2019	-	-	-	13.89	8.2975	2.692	69.731667	7.733	1.7697083	194.24917	6.478	345.7	No mining operations, Care and Maintenance
09/05/2019	-	-	-	16.13	9.2464167	4.274	63.152917	0	1.4312917	220.3025	5.165	349.3	No mining operations, Care and Maintenance
09/10/2019	-	-	-	17.37	12.047458	5.63	37.353333	0.292	1.5765	288.17133	8.77	347.7	No mining operations, Care and Maintenance
09/12/2019	-	-	-	17.19	10.657208	5.053	49.517083	0	1.249875	261.56538	6.233	359.6	No mining operations, Care and Maintenance
09/17/2019	-	-	-	9.26	7.0395	4.661	89.8175	0.584	0.9508333	237.06346	5.9	359.3	No mining operations, Care and Maintenance
09/24/2019	2.8	2.8	2.8	9.91	2.3374167	-2.25	71.894167	0.2	1.297125	215.505	3.969	353.2	No mining operations, Care and Maintenance
09/25/2019	2.8	2.8	5.8	6.485	2.208125	-0.156	81.61	0	0.854875	230.82917	4.028	338.1	No mining operations, Care and Maintenance
09/27/2019	11.8	2.8	2.8	4.932	-1.192125	-5.692	64.195	0.1	1.4185417	208.22838	6.399	345.5	No mining operations, Care and Maintenance
10/02/2019	-	-	-	9.26	6.436375	0.814	69.362083	0	1.595125	247.36342	7.762	352.9	No mining operations, Care and Maintenance
10/03/2019	-	-	-	5.661	0.994625	-1.64	86.135	0.1	1.1206667	225.27467	4.528	350.3	No mining operations, Care and Maintenance
10/11/2019	-	-	-	2.553	0.7659167	-0.261	88.97375	0	0.744875	195.32208	6.429	352	No mining operations, Care and Maintenance
10/15/2019	-	-	-	-6.956	-11.732792	-15.44	87.225	0	0.9325	214.34792	5.606	313.7	No mining operations, Care and Maintenance
10/17/2019	-	-	-	-0.439	-3.159375	-4.712	88.31625	0	0.768375	190.22333	4.753	236.4	No mining operations, Care and Maintenance
10/22/2019	-	-	-	-0.99	-3.0847917	-4.71	90.366667	0	0.9287083	263.80125	4.351	359.4	No mining operations, Care and Maintenance
10/23/2019	2.8	2.8	--	-2.434	-5.4782083	-9.16	91.502083	0	1.0247917	185.88083	4.645	355.7	No mining operations, Care and Maintenance
10/24/2019	-	2.8	2.8	-1.507	-3.947875	-6.706	94.9625	0	0.7789167	255.38333	4.057	356.8	No mining operations, Care and Maintenance
10/25/2019	2.8	2.8	2.8	-0.251	-5.0031667	-7.436	91.15125	0	0.9845	307.90833	3.018	357.1	No mining operations, Care and Maintenance
10/29/2019	2.8	-	2.8	0.805	-1.5016667	-3.723	98.325	0	0.3535833	281.89583	2.675	359.4	No mining operations, Care and Maintenance
10/31/2019	2.8	-	-	-2.423	-4.637875	-6.819	95.854167	0	0.9265417	324.06667	3.303	356.2	No mining operations, Care and Maintenance
11/06/2019	-	-	-	-15.09	-19.339583	-23.77	83.854167	0	0.4052917	208.6	3.028	284.5	No mining operations, Care and Maintenance
11/07/2019	-	-	-	-9.33	-12.31875	-15.22	89.166667	0	1.0908333	195.7875	7.801	230	No mining operations, Care and Maintenance
11/12/2019	-	-	-	-14.1	-16.155417	-18.05	84.416667	0	0.4606667	218.5	5.547	359.6	No mining operations, Care and Maintenance
11/14/2019	-	-	-	-15.61	-17.3225	-19.02	84.432917	0	0.9014167	189.09167	5.743	219.3	No mining operations, Care and Maintenance
11/19/2019	-	-	-	-10.96	-12.917917	-15.25	90.404167	0	0.5944167	240.11704	3.45	355	No mining operations, Care and Maintenance
11/20/2019	-	-	-	-2.919	-6.0040833	-10.41	95.545833	0	0.7957083	149.55833	3.577	238.7	No mining operations, Care and Maintenance
11/21/2019	2.8	-	-	-1.681	-3.0399167	-6.409	97.679167	0	0	0	0	0	No mining operations, Care and Maintenance
11/26/2019	2.8	2.8	-	-12.69	-13.5875	-14.6	89.970833	0	0.3112083	228.93333	2.46	355	No mining operations, Care and Maintenance
11/27/2019	2.8	2.8	2.8	-14.66	-16.97125	-18.73	87.154167	0	0.6095	266.90417	3.048	302.2	No mining operations, Care and Maintenance
11/28/2019	-	2.8	-	-12.54	-14.649167	-17.01	89.066667	0	0.5100833	224.95417	3.293	326.8	No mining operations, Care and Maintenance
11/29/2019	-	-	2.8	-8.82	-10.654167	-13.46	92.2375	0	0.2555833	144.31667	3.361	333	No mining operations, Care and Maintenance
12/03/2019	-	-	-	-10.87	-14.077083	-18.56	89.058333	0	2.2453333	207.9625	8.25	237.7	No mining operations, Care and Maintenance
12/10/2019	-	-	-	-7.679	-10.990417	-15.5	92.104167	0	0.3032917	239.47917	2.666	308	No mining operations, Care and Maintenance
12/12/2019	-	-	-	-6.312	-9.3657083	-12.85	88.459167	0	0.8474167	277.5125	6.35	344	No mining operations, Care and Maintenance



AIR QUALITY MONITORING SUMMARY 2020, KENO, YT
Alexco Keno Hill Mining Corp.

MARCH 2021

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
12/13/2019	-	-	-	-10.78	-11.064167	-11.5	89.566667	0	0.3549167	233.65417	2.558	343.6	No mining operations, Care and Maintenance
12/18/2019	-	-	-	-20.14	-25.299583	-28.69	79.55125	0	0.308625	199.96779	2.871	258.1	No mining operations, Care and Maintenance
12/19/2019	-	-	-	-19.08	-21.23375	-25.53	83.280417	0	0.6272083	206.08333	3.185	230.6	No mining operations, Care and Maintenance
12/24/2019	2.8	2.8	10.4	-10.93	-13.299583	-15.11	90.175	0	0.229375	258.10417	1.999	341.1	No mining operations, Care and Maintenance
12/25/2019	5.6	2.8	2.8	-4.349	-7.2547917	-13.49	93.745833	0	1.2015833	198.74183	8.42	351.3	No mining operations, Care and Maintenance
12/27/2019	-	5.7	2.8	-19.77	-24.405417	-27.26	80.615	0	1.4315833	208.92083	5.233	262	No mining operations, Care and Maintenance
01/08/2020	-	-	-	-24.75	-28.6533333	-32.7	75.42625	0	1.073	200.1708	4.567	207.9	No mining operations, Care and Maintenance
01/09/2020	-	-	-	-32.55	-33.8391667	-35.21	70.02917	0	0.3745	203.1717	2.597	196.1	No mining operations, Care and Maintenance
01/14/2020	-	-	-	-33.56	-34.57625	-36.14	69.29958	0	0.160125	269.303	1.725	200.6	No mining operations, Care and Maintenance
01/16/2020	-	-	-	-30.28	-31.8541667	-34.05	72.18875	0	0.361875	245.7505	2.029	214.1	No mining operations, Care and Maintenance
01/23/2020	-	-	-	-11	-13.6545833	-16.44	89.8375	0	0.356	207.6008	3.459	168	No mining operations, Care and Maintenance
01/24/2020	-	-	-	-12.84	-15.6695833	-18.71	87.87917	0	0.60025	119.6467	3.714	8.1	No mining operations, Care and Maintenance
01/26/2020	-	-	-	-19.52	-22.0720833	-25.36	82.29333	0	0.927292	191.1763	4.831	200.1	No mining operations, Care and Maintenance
01/27/2020	-	-	-	-21	-22.8566667	-25.56	81.33417	0.1	0.592458	203.15	2.617	222.1	No mining operations, Care and Maintenance
01/28/2020	-	-	-	-7.618	-16.9899167	-25.55	86.28167	0	1.289167	248.0698	9.23	333.2	No mining operations, Care and Maintenance
01/30/2020	2.8	2.8	-	-7.641	-10.7158333	-15.43	91.95417	0	1.056208	287.1625	4.577	353.6	No mining operations, Care and Maintenance
01/31/2020	2.8	2.8	-	-11.95	-14.5725	-17.52	88.7875	0	0.659875	250.6625	3.459	168	No mining operations, Care and Maintenance
02/04/2020	-	-	-	-16.15	-21.4475	-26.76	82.92125	0	0.44875	229.1042	2.93	200.7	No mining operations, Care and Maintenance
02/05/2020	-	-	-	-11.03	-13.7979167	-16.4	89.17917	0	0.368875	213.8125	2.391	307.5	No mining operations, Care and Maintenance
02/06/2020	-	-	-	-7.323	-10.2525	-13.43	91.73333	0	0.379667	269.1513	2.058	218.5	No mining operations, Care and Maintenance
02/07/2020	-	-	-	-8.67	-10.62	-13.1	91.4125	0	0.218542	156.4853	2.45	208.7	No mining operations, Care and Maintenance
02/14/2020	-	-	-	-27.48	-31.72125	-34.24	71.61917	0	1.068167	201.5083	3.989	205.8	No mining operations, Care and Maintenance
02/18/2020	-	-	-	-16.05	-21.9404167	-25.15	81.71708	0	0.649958	208.8875	4.763	205.3	No mining operations, Care and Maintenance
02/19/2020	-	-	-	-0.387	-3.29075	-15.28	69.50417	0	4.209083	316.05	17.01	321.2	No mining operations, Care and Maintenance
02/20/2020	-	-	-	-2.891	-5.19558333	-7.755	64.91667	0	2.870833	319.6133	12.42	316.3	No mining operations, Care and Maintenance
02/21/2020	-	2.8	2.8	-2.066	-4.97704167	-8.2	73.76208	0	1.379542	217.785	9.66	324.5	No mining operations, Care and Maintenance
02/25/2020	2.8	2.8	2.8	-18.07	-21.8016667	-26.24	79.90833	0	1.070542	240.675	5.067	209.8	No mining operations, Care and Maintenance
02/26/2020	2.8	2.8	2.8	-14.71	-18.9191667	-22.63	84.3375	0.7	0.515292	207.9792	3.185	201	No mining operations, Care and Maintenance
02/27/2020	2.8	-	-	-13.77	-15.85125	-18.19	84.29833	1.3	1.567042	214.55	5.38	202	No mining operations, Care and Maintenance
03/03/2020	-	-	-	-14.16	-18.31375	-23.39	82.22167	1	1.034042	212.4583	3.675	214.3	No mining operations, Care and Maintenance
03/10/2020	-	-	-	-8.22	-11.4320833	-16.65	83.60708	0.1	1.652125	207.2458	6.194	192.1	No mining operations, Care and Maintenance
03/12/2020	-	-	-	-15.32	-24.2070833	-29.28	65.74083	0	1.359833	209.8805	3.695	350	No mining operations, Care and Maintenance
03/19/2020	-	-	-	0.597	-3.67579167	-7.041	74.09917	0	0.9235	206.0408	4.773	213.7	No mining operations, Care and Maintenance
03/24/2020	-	-	-	-1.314	-6.080375	-12.25	79.17083	1.3	1.950083	155.8077	9.89	52.89	No mining operations, Care and Maintenance
03/25/2020	-	-	-	0.798	-2.53791667	-5.041	85.86167	1.7	2.228292	32.57967	8.15	109.3	No mining operations, Care and Maintenance
03/26/2020	11.4	2.8	2.8	-4.863	-9.02754167	-14.48	68.26292	0.1	2.898708	157.7096	9.4	331.5	No mining operations, Care and Maintenance
03/31/2020	-	-	10.6	-5.757	-15.9112917	-22.62	41.5125	0.3	1.399167	224.11	3.979	163.4	No mining operations, Care and Maintenance
04/02/2020	-	-	-	-0.974	-9.88741667	-16.15	45.9575	0.5	1.562125	214.0246	4.988	265.8	No mining operations, Care and Maintenance
04/03/2020	-	-	-	-2.224	-8.65375	-14.01	47.92375	0	1.590083	220.1	4.665	198.7	No mining operations, Care and Maintenance
04/07/2020	-	-	-	-4.811	-10.5817083	-17.43	55.52958	0.4	2.020333	163.1907	7.154	29.71	No mining operations, Care and Maintenance
04/10/2020	-	-	-	-0.38	-8.08091667	-15.31	46.02417	0.7	1.903375	189.2948	6.115	59.65	No mining operations, Care and Maintenance
04/16/2020	-	-	-	8.49	5.26916667	2.279	63.21833	0.2	2.054833	205.2249	12.38	166.5	No mining operations, Care and Maintenance
04/21/2020	-	-	-	7	2.94383333	0.801	81.57708	1.3	1.247083	208.8286	5.615	302.1	No mining operations, Care and Maintenance
04/22/2020	-	-	-	4.123	1.22370833	-2.551	73.40458	0.5	1.634125	169.7767	8.18	77.49	No mining operations, Care and Maintenance
04/24/2020	-	2.8	2.8	-2.297	-5.00725	-8.07	58.16167	0.2	2.864333	174.075	9.15	148.6	No mining operations, Care and Maintenance
04/28/2020	-	2.8	-	5.954	1.568	-4.194	61.76833	0.1	1.854292	184.1438	6.635	64.19	No mining operations, Care and Maintenance



AIR QUALITY MONITORING SUMMARY 2020, KENO, YT
Alexco Keno Hill Mining Corp.

MARCH 2021

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
04/29/2020	2.8	7.2	9.2	1.934	-0.39745833	-3.49	56.89375	0.4	2.189792	236.1367	7.918	258.3	No mining operations, Care and Maintenance
04/30/2020	2.8	-	-	-1.625	-5.063875	-8.14	80.01208	0.5	2.35475	195.8792	6.948	163	No mining operations, Care and Maintenance
05/05/2020	-	-	-	11.67	4.84970833	-0.784	66.34167	0.8	1.633375	238.2458	6.782	214.7	No mining operations, Care and Maintenance
05/06/2020	-	-	-	12.95	5.82379167	-0.895	54.36333	0.5	1.417042	232.4292	5.106	233.7	No mining operations, Care and Maintenance
05/07/2020	-	-	-	12.96	7.012625	1.961	47.95792	0	1.200542	209.6988	5.067	209.8	No mining operations, Care and Maintenance
05/19/2020	-	-	-	10.63	4.08791667	-2.92	36.195	0	2.5845	248.1583	7.526	261	No mining operations, Care and Maintenance
05/21/2020	-	-	-	15.4	8.48608333	0.058	46.08292	0	1.559667	205.492	5.762	7.979	No mining operations, Care and Maintenance
05/26/2020	-	-	-	13.2	9.02058333	6.395	64.88917	2.3	1.421375	171.5092	7.183	259.7	No mining operations, Care and Maintenance
05/27/2020	2.8	2.8	2.8	13.6	9.13220833	5.523	79.08875	1.6	0.999292	168.2158	7.468	140.6	No mining operations, Care and Maintenance
05/29/2020	2.8	2.8	2.8	19.12	14.3225	9.71	27.51	0	1.610792	254.4833	6.958	76.08	No mining operations, Care and Maintenance
06/11/2020	-	-	-	16.13	11.5299167	6.738	65.42708	10.5	1.744292	188.8279	7.056	153.6	No mining operations, Care and Maintenance
06/17/2020	-	-	-	17.26	12.8916667	10.16	70.97375	0.7	1.6235	254.8325	7.487	331.7	No mining operations, Care and Maintenance
06/18/2020	-	-	-	20.3	14.2191667	8.66	63.90417	0.7	1.095292	256.6654	7.703	257.6	No mining operations, Care and Maintenance
06/22/2020	-	-	-	11.68	8.73920833	6.459	83.67	0	2.185375	112.8006	9.88	19.07	No mining operations, Care and Maintenance
06/23/2020	-	-	-	10.63	7.68108333	5.57	84.97292	1	1.794583	111.5523	7.458	348.9	No mining operations, Care and Maintenance
06/24/2020	-	-	-	11.8	7.44533333	5.332	89.58583	6.3	1.481708	60.48054	6.713	8.96	No mining operations, Care and Maintenance
06/25/2020	2.8	2.8	-	13.94	8.42033333	3.679	76.12833	2	1.378708	132.3204	9.99	121.7	No mining operations, Care and Maintenance
06/30/2020	2.8	2.8	-	15.5	10.97825	6.649	77.47958	0.4	1.933625	188.1481	8.39	139.6	No mining operations, Care and Maintenance
07/02/2020	-	-	-	15.89	9.632125	1.384	57.03833	0.9	1.962875	190.35	6.723	34.36	No mining operations, Care and Maintenance
07/09/2020	-	-	-	16.53	11.5116667	8.09	76.0075	0	1.236167	196.2525	6.546	36.73	No mining operations, Care and Maintenance
07/10/2020	-	-	-	16.58	11.1916667	7.925	84.16458	0	0.943917	207.4458	5.449	20.9	No mining operations, Care and Maintenance
07/16/2020	-	-	-	20.82	13.49575	6.776	70.90333	3.3	1.421792	219.695	5.576	14.13	No mining operations, Care and Maintenance
07/22/2020	-	-	-	12.03	9.89929167	7.552	85.7675	5.3	1.607542	240.2458	5.625	87.4	No mining operations, Care and Maintenance
07/23/2020	-	-	-	16.22	9.93083333	5.661	73.44125	0.2	1.442	194.4804	5.165	212.1	No mining operations, Care and Maintenance
07/28/2020	-	-	-	11.32	9.55033333	7.694	93.40833	0.6	0.516417	223.2901	3.646	359.1	No mining operations, Care and Maintenance
07/29/2020	-	-	-	15.9	11.615	8.85	85.33708	0	0.860458	171.2771	5.312	153.2	No mining operations, Care and Maintenance
07/30/2020	-	22.9	16.2	22.92	14.5786667	6.921	71.01917	0	1.611792	269.35	6.39	157.7	No mining operations, Care and Maintenance
08/04/2020	-	-	-	18.74	11.866625	6.787	76.00083	4.2	1.280125	233.6867	4.949	199.2	Mining operations active
08/06/2020	-	-	-	15.95	10.9869583	6.458	75.3875	0.5	1.199542	231.9167	4.978	286.9	Mining operations active
08/10/2020	-	-	-	12.98	9.12128	4.893	85.4488	0.5	0.80776	201.2	5.096	204.6	Mining operations active
08/23/2020	-	-	-	18.48	13.1841667	10.53	76.37125	1.8	1.26375	202.1154	5.9	235.1	Mining operations active
08/24/2020	-	-	-	14.06	11.4933333	9.1	85.56083	6.6	0.875208	234.9567	4.204	13.69	Mining operations active
08/25/2020	-	-	-	12.62	10.6895833	9.34	93.18333	17.3	0.427208	261.3083	2.734	267.5	Mining operations active
08/26/2020	-	2.8	5.6	12.89	9.89016667	7.491	89.02208	13.4	0.740708	241.2292	3.93	287.1	Mining operations active
08/27/2020	-	6.8	6.5	14.05	9.00154167	4.255	78.86	0	1.08075	191.195	3.793	215.3	Mining operations active
08/28/2020	2.8	2.8	8.7	14.49	9.09770833	4.627	75.98292	0	1.378625	228.9167	4.91	219.5	Mining operations active
08/29/2020	9.3	-	-	15.4	9.76179167	5.197	73.61583	0	1.311292	178.0129	6.056	225.1	Mining operations active
08/30/2020	2.8	-	-	10.86	8.84570833	7.022	74.19	0.1	1.404875	320.8398	6.527	141.6	Mining operations active
09/02/2020	2.8	2.8	6.1	14.4	7.991875	4.123	81.83542	0	1.169667	256.4176	5.762	7.979	Mining operations active
09/04/2020	5.6	9.4	2.8	8.38	5.559375	3.885	94.66667	6.5	0.61625	196.5056	4.684	273.1	Mining operations active
09/06/2020	2.8	2.8	2.8	10.88	6.01058333	3.58	85.13458	0.2	0.684292	203.5716	5.439	10.13	Mining operations active
09/09/2020	-	-	-	11	6.13920833	1.932	77.56625	1.6	1.409333	198.3554	7.144	324.5	Mining operations active
09/10/2020	-	-	-	7.981	4.92925	2.3	86.01458	2.6	1.157	203.9933	8.06	178.2	Mining operations active
09/11/2020	-	-	-	4.295	2.18079167	0.149	78.56917	0	1.609333	207.2552	7.193	41.58	Mining operations active
09/12/2020	-	-	-	6.649	2.350875	-0.358	79.64583	1.4	0.911958	249.4271	5.762	7.979	Mining operations active
09/14/2020	-	-	-	8.55	3.16241667	-1.496	69.09625	0	1.394375	252.8108	4.351	197.7	Mining operations active

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Activities at site
09/24/2020	-	-	-	8.06	6.16133333	4.084	82.84125	0.2	1.189583	216.25	5.694	295.3	Mining operations active
10/06/2020	11.2	2.8	2.8	3.111	2.19375	1.089	97.20833	4.8	0.570667	196.1083	2.744	327.3	Mining operations active
10/07/2020	2.8	2.8	6.0	2.4	0.71595833	0.047	98.0125	0.4	0.345	172.4083	3.067	189.8	Mining operations active
10/08/2020	2.8	2.8	2.8	1.602	0.032625	-1.014	97.24583	3.4	0.240458	93.94167	3.783	206.2	Mining operations active
10/13/2020	-	-	-	-6.458	-8.99641667	-11.48	82.91	0	1.310833	211.9958	3.949	220.7	Mining operations active
10/15/2020	-	-	-	-5.877	-7.304625	-9.13	92.14583	0	0.73875	204.175	3.273	210	Mining operations active
10/16/2020	-	-	-	-6.125	-10.8248333	-16.96	76.59917	0	1.72975	191.8986	6.576	118.9	Mining operations active
10/19/2020	-	-	-	-10.26	-14.96375	-17.78	83.315	0	1.089333	235.8685	2.852	223.8	Mining operations active
10/20/2020	-	-	-	-11.48	-15.2020833	-18.07	85.24292	2.626	0.997917	229.3542	3.842	208.9	Mining operations active
10/23/2020	-	-	-	-12.8	-16.2804167	-18.46	85.51667	0	0.886083	249.9833	3.273	210	Mining operations active
10/24/2020	-	-	-	-10.84	-14.8295833	-18.5	85.44958	0	0.571958	228.9208	2.548	193.4	Mining operations active
10/25/2020	-	-	-	-8.89	-11.9	-13.44	87.2025	0	0.716875	247.3943	3.077	340.7	Mining operations active
11/01/2020	-	-	-	-22.39	-23.9633333	-25.59	80.92292	0	0.715833	211.39	5.851	15.52	Mining operations active
11/22/2020	-	-	-	-10.01	-11.5670833	-14.95	91.5625	0.584	0.351875	261.7018	2.813	215.2	Mining operations active
11/23/2020	-	-	-	-9.03	-11.1345833	-13.79	91.49167	0	0.759	217.8358	4.116	279.9	Mining operations active
11/24/2020	-	-	-	-9.04	-10.4908333	-13.27	92.04167	1.168	0.287458	283.4985	2.734	267.5	Mining operations active
11/25/2020	-	-	-	-14.19	-16.0683333	-17.59	87.89583	0	0.616333	249.6846	2.813	215.2	Mining operations active
11/30/2020	-	2.8	-	-6.436	-9.22241667	-11.14	87.78167	0	0.978333	265.8971	6.684	120.4	Mining operations active
12/07/2020	2.8	2.8	-	-1.728	-4.406875	-8.37	94.275	0	0.734708	168.2958	4.165	176	Mining operations active
12/08/2020	2.8	-	-	-0.613	-1.71361111	-5.824	79.33278	0	0.732611	229.3291	5.664	212.4	Mining operations active

* Starting October 15, 2013, total precipitation is reported rather than total rain

Note: - indicates no data recorded; n/a = not applicable/not available

ATTACHMENT A2

AVERAGE PM₁₀ AND PM_{2.5} RESULTS (24-HOUR), AUG. 2015 – DEC. 2020

Table A-2: Average PM₁₀ and PM_{2.5} Results (24-Hour), August 2015 – December 2020

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)		PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)		PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)
17-Aug-2015	-	2.8	-	2.8	-	2.8	19-Mar-2016	2.8	-	2.8	-	2.8	-	30-Aug-2016	-	2.8	-	2.8	-	9.0
18-Aug-2015	-	6.5	-	6.5	-	2.8	21-Mar-2016	-	2.8	-	2.8	-	2.8	31-Aug-2016	-	2.8	-	2.8	-	2.8
20-Aug-2015	-	6.5	-	6.5	-	2.8	23-Mar-2016	-	2.8	-	2.8	-	2.8	12-Sep-2016	-	2.8	-	2.8	-	2.8
22-Aug-2015	2.8	-	2.8	-	2.8	-	28-Mar-2016	-	2.8	-	2.8	-	2.8	14-Sep-2016	-	2.8	-	2.8	-	2.8
23-Aug-2015	7.8	-	7.8	-	2.8	-	15-Apr-2016	-	2.8	-	2.8	-	2.8	21-Sep-2016	-	2.8	-	2.8	-	2.8
24-Aug-2015	14.6	-	14.6	-	5.8	-	16-Apr-2016	-	2.8	-	2.8	-	2.8	23-Sep-2016	2.8	-	2.8	-	2.8	-
05-Sep-2015	2.8	-	2.8	-	2.8	-	18-Apr-2016	-	2.8	-	2.8	-	2.8	24-Sep-2016	2.8	-	2.8	-	2.8	-
06-Sep-2015	2.8	-	2.8	-	2.8	-	25-Apr-2016	2.8	-	2.8	-	2.8	-	25-Sep-2016	2.8	-	2.8	-	2.8	-
09-Sep-2015	2.8	-	2.8	-	2.8	-	26-Apr-2016	2.8	-	2.8	-	2.8	-	03-Oct-2016	-	-	-	-	2.8	-
11-Sep-2015	-	2.8	-	2.8	-	2.8	29-Apr-2016	2.8	-	2.8	-	8.2	-	23-Oct-2016	-	2.8	-	2.8	-	2.8
12-Sep-2015	-	-	-	-	-	2.8	15-May-2016	2.8	-	2.8	-	2.8	-	27-Oct-2016	-	2.8	-	2.8	-	2.8
14-Sep-2015	-	-	-	-	-	2.8	16-May-2016	2.8	-	2.8	-	2.8	-	28-Oct-2016	-	2.8	-	2.8	-	2.8
20-Nov-2015	-	2.8	-	2.8	-	-	18-May-2016	2.8	-	2.8	-	2.8	-	29-Oct-2016	2.8	-	2.8	-	2.8	-
21-Nov-2015	-	2.8	-	2.8	-	-	19-May-2016	-	2.8	-	2.8	-	2.8	30-Oct-2016	2.8	-	2.8	-	-	-
24-Nov-2015	-	2.8	-	2.8	-	-	21-May-2016	-	2.8	-	2.8	-	2.8	31-Oct-2016	2.8	-	2.8	-	2.8	-
25-Nov-2015	2.8	-	2.8	-	2.8	-	22-May-2016	-	2.8	-	2.8	-	2.8	04-Nov-2016	2.8	-	2.8	-	2.8	-
09-Jan-2016	-	2.8	-	2.8	-	2.8	20-Jun-2016	2.8	-	2.8	-	2.8	-	05-Nov-2016	2.8	-	2.8	-	2.8	-
10-Jan-2016	-	2.8	-	2.8	-	6.2	22-Jun-2016	2.8	-	2.8	-	2.8	-	25-Nov-2016	2.8	-	2.8	-	2.8	-
16-Jan-2016	-	2.8	-	2.8	-	2.8	26-Jun-2016	2.8	-	2.8	-	2.8	-	30-Nov-2016	-	6.0	-	6.0	-	2.8
17-Jan-2016	2.8	-	2.8	-	2.8	-	27-Jun-2016	-	5.6	-	5.6	-	2.8	01-Dec-2016	-	2.8	-	2.8	-	2.8
18-Jan-2016	2.8	-	2.8	-	2.8	-	29-Jun-2016	-	13.8	-	13.8	-	13.6	02-Dec-2016	-	2.8	-	2.8	-	2.8
19-Jan-2016	2.8	-	2.8	-	2.8	-	15-Jul-2016	-	17.4	-	17.4	-	12.1	18-Dec-2016	-	2.8	-	2.8	-	10.0
13-Feb-2016	2.8	-	2.8	-	6.4	-	17-Jul-2016	-	10.1	-	10.1	-	12.2	20-Dec-2016	-	8.3	-	8.3	-	6.2
14-Feb-2016	2.8	-	2.8	-	2.8	-	18-Jul-2016	-	2.8	-	2.8	-	2.8	21-Dec-2016	-	2.8	-	2.8	-	2.8
15-Feb-2016	2.8	-	2.8	-	2.8	-	25-Jul-2016	2.8	-	2.8	-	2.8	-	31-Dec-2016	2.8	-	2.8	-	2.8	-
22-Feb-2016	-	2.8	-	2.8	-	2.8	26-Jul-2016	2.8	-	2.8	-	2.8	-	01-Jan-2017	2.8	-	2.8	-	2.8	-
23-Feb-2016	-	2.8	-	2.8	-	2.8	27-Jul-2016	2.8	-	2.8	-	2.8	-	02-Jan-2017	2.8	-	2.8	-	2.8	-
25-Feb-2016	-	2.8	-	2.8	-	2.8	13-Aug-2016	2.8	-	2.8	-	2.8	-	15-Jan-2017	11.0	-	11.0	-	11.4	-
17-Mar-2016	2.8	-	2.8	-	2.8	-	14-Aug-2016	2.8	-	2.8	-	2.8	-	19-Jan-2017	6.1	-	6.1	-	11.0	-
18-Mar-2016	2.8	-	2.8	-	2.8	-	15-Aug-2016	2.8	-	2.8	-	2.8	-	23-Jan-2017	5.8	-	5.8	-	11.8	-

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)		PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)		PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)
25-Jan-2017	-	6.4	-	6.4	-	5.7	08-Jun-2017	-	-	-	-	-	-	12-Oct-2017	2.8	-	2.8	-	2.8	-
26-Jan-2017	-	2.8	-	2.8	-	6.2	09-Jun-2017	-	-	-	-	-	2.8	13-Oct-2017	2.8	-	2.8	-	2.8	-
27-Jan-2017	-	8.2	-	8.2	-	7.2	13-Jun-2017	-	-	-	-	-	2.8	18-Oct-2017	-	-	-	-	-	2.8
20-Feb-2017	2.8	-	2.8	-	-	-	14-Jun-2017	2.8	-	2.8	-	-	2.8	19-Oct-2017	-	2.8	-	2.8	-	-
22-Feb-2017	2.8	-	2.8	-	2.8	-	15-Jun-2017	6.2	-	6.2	-	-	-	24-Oct-2017	-	2.8	-	2.8	-	2.8
23-Feb-2017	2.8	-	2.8	-	2.8	-	16-Jun-2017	14.2	-	14.2	-	-	-	26-Oct-2017	-	-	-	-	-	2.8
24-Feb-2017	-	2.8	-	2.8	2.8	-	20-Jun-2017	-	-	-	-	-	-	02-Nov-2017	-	-	-	-	7.2	-
25-Feb-2017	-	2.8	-	2.8	-	2.8	23-Jun-2017	-	-	-	-	7.9	-	14-Nov-2017	-	-	-	-	2.8	-
26-Feb-2017	-	2.8	-	2.8	-	2.8	27-Jun-2017	-	-	-	-	6.2	-	16-Nov-2017	-	-	-	-	2.8	-
17-Mar-2017	-	6.2	-	6.2	-	-	28-Jun-2017	-	-	-	-	2.8	-	17-Nov-2017	-	-	-	-	-	2.8

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
18-Mar-2017	-	2.8	-	2.8	-	-	04-Jul-2017	2.8	-	2.8	-	6.0	-	23-Nov-2017	-	2.8	-	2.8	-	-
19-Mar-2017	-	2.8	-	2.8	-	-	05-Jul-2017	6.1	-	6.1	-	5.6	-	24-Nov-2017	-	-	-	-	-	8.3
21-Mar-2017	2.8	-	2.8	-	-	-	07-Jul-2017	2.8	-	2.8	-	2.8	-	28-Nov-2017	-	5.6	-	5.6	-	7.1
22-Mar-2017	2.8	-	2.8	-	-	-	11-Jul-2017	-	2.8	-	2.8	-	2.8	30-Nov-2017	-	7.5	-	7.5	-	-
23-Mar-2017	2.8	-	2.8	-	-	-	12-Jul-2017	-	2.8	-	2.8	-	7.9	05-Dec-2017	-	2.8	-	2.8	-	-
21-Apr-2017	2.8	-	2.8	-	-	-	14-Jul-2017	-	7.9	-	7.9	-	-	07-Dec-2017	-	2.8	-	2.8	-	-
23-Apr-2017	2.8	-	2.8	-	-	-	09-Aug-2017	13.9	-	13.9	-	11.1	-	12-Dec-2017	-	6.5	-	6.5	-	-
24-Apr-2017	2.8	-	2.8	-	-	-	11-Aug-2017	15.1	-	15.1	-	9.6	-	13-Dec-2017	-	-	-	-	-	2.8
25-Apr-2017	-	2.8	-	2.8	-	-	15-Aug-2017	6.7	-	6.7	-	2.8	-	15-Dec-2017	-	-	-	-	-	7.1
28-Apr-2017	-	6.0	-	6.0	-	-	16-Aug-2017	-	2.8	-	2.8	-	2.8	19-Dec-2017	-	-	-	-	-	6.5
29-Apr-2017	-	2.8	-	2.8	-	-	22-Aug-2017	-	2.8	-	2.8	-	2.8	20-Dec-2017	2.8	-	2.8	-	2.8	-
12-May-2017	-	2.8	-	2.8	-	-	23-Aug-2017	-	2.8	-	2.8	-	2.8	24-Dec-2017	-	-	-	-	8.9	-
17-May-2017	-	2.8	-	2.8	-	-	01-Sep-2017	-	2.8	-	2.8	-	8.5	28-Dec-2017	-	-	-	-	6.5	-
18-May-2017	-	2.8	-	2.8	-	-	05-Sep-2017	-	5.7	-	5.7	-	8.3	29-Dec-2017	2.8	-	2.8	-	-	-
19-May-2017	2.8	-	2.8	-	-	-	06-Sep-2017	-	2.8	-	2.8	-	8.7	02-Jan-2018	2.8	-	2.8	-	11.2	-
23-May-2017	2.8	-	2.8	-	-	-	08-Sep-2017	9.2	-	9.2	-	6.9	-	03-Jan-2018	2.8	-	2.8	-	2.8	-
24-May-2017	2.8	-	2.8	-	-	-	15-Sep-2017	-	-	-	-	2.8	-	04-Jan-2018	2.8	-	2.8	-	2.8	-
02-Jun-2017	-	2.8	-	2.8	-	-	16-Sep-2017	7.8	-	7.8	-	-	-	11-Jan-2018	-	2.8	-	2.8	-	5.6
06-Jun-2017	-	2.8	-	2.8	-	-	19-Sep-2017	9.2	-	9.2	-	5.8	-	18-Jan-2018	-	2.8	-	2.8	-	2.8
07-Jun-2017	-	2.8	-	2.8	-	-	10-Oct-2017	2.8	-	2.8	-	2.8	-	23-Jan-2018	-	2.8	-	2.8	-	2.8

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
31-Jan-2018	-	-	-	-	-	-	13-Jun-2018	2.8	-	2.8	-	2.8	-	10-Sep-2018	-	2.8	-	2.8	-	8.5
14-Feb-2018	-	-	-	-	-	-	14-Jun-2018	-	-	-	-	2.8	-	11-Sep-2018	-	2.8	-	2.8	-	2.8
15-Feb-2018	2.8	-	2.8	-	2.8	-	19-Jun-2018	7.9	-	7.9	-	-	6.1	12-Sep-2018	-	2.8	-	2.8	-	6.8
20-Feb-2018	2.8	-	2.8	-	2.8	-	20-Jun-2018	-	2.8	-	2.8	-	10.1	02-Oct-2018	-	-	-	-	-	7.1
21-Feb-2018	2.8	-	2.8	-	2.8	-	21-Jun-2018	-	-	-	-	-	2.8	03-Oct-2018	-	15.1	-	15.1	-	6.7
22-Feb-2018	-	2.8	-	2.8	-	10.1	26-Jun-2018	-	7.2	-	7.2	-	-	05-Oct-2018	-	15.4	-	15.4	-	10.1
23-Feb-2018	-	2.8	-	2.8	-	2.8	03-Jul-2018	-	2.8	-	2.8	-	2.8	07-Oct-2018	-	14.2	-	14.2	2.8	-
27-Feb-2018	-	2.8	-	2.8	-	12.4	04-Jul-2018	-	2.8	-	2.8	-	2.8	08-Oct-2018	16.4	-	16.4	-	10.1	-
01-Mar-2018	-	2.8	-	2.8	-	2.8	06-Jul-2018	-	2.8	-	2.8	-	2.8	24-Oct-2018	2.8	-	2.8	-	2.8	-
02-Mar-2018	-	2.8	-	2.8	-	2.8	10-Jul-2018	2.8	-	2.8	-	2.8	-	25-Oct-2018	2.8	-	2.8	-	-	-
06-Mar-2018	-	2.8	-	2.8	-	2.8	11-Jul-2018	2.8	-	2.8	-	2.8	-	16-Nov-2018	-	-	-	-	8.9	-
08-Mar-2018	2.8	-	2.8	-	6.0	-	12-Jul-2018	2.8	-	2.8	-	2.8	-	18-Nov-2018	-	-	-	-	2.8	-
13-Mar-2018	2.8	-	2.8	-	2.8	-	13-Jul-2018	-	-	-	-	2.8	-	19-Nov-2018	2.8	-	2.8	-	2.8	-
15-Mar-2018	2.8	-	2.8	-	2.8	-	17-Jul-2018	-	-	-	-	-	-	21-Nov-2018	2.8	-	2.8	-	-	2.8
10-Apr-2018	-	-	-	-	2.8	-	18-Jul-2018	-	-	-	-	-	-	22-Nov-2018	2.8	-	2.8	-	-	2.8
11-Apr-2018	-	-	-	-	2.8	-	24-Jul-2018	-	2.8	-	2.8	-	-	23-Nov-2018	-	2.8	-	2.8	-	5.8
12-Apr-2018	2.8	-	2.8	-	2.8	-	26-Jul-2018	-	2.8	-	2.8	-	-	28-Nov-2018	-	2.8	-	2.8	-	-
17-Apr-2018	2.8	-	2.8	-	-	2.8	27-Jul-2018	-	2.8	-	2.8	-	-	30-Nov-2018	-	2.8	-	2.8	-	-
19-Apr-2018	2.8	-	2.8	-	-	2.8	01-Aug-2018	-	2.8	-	2.8	-	-	04-Dec-2018	-	2.8	-	2.8	-	2.8
20-Apr-2018	-	6.2	-	6.2	-	-	02-Aug-2018	-	-	-	-	-	2.8	06-Dec-2018	-	-	-	-	-	2.8
24-Apr-2018	-	2.8	-	2.8	-	-	04-Aug-2018	2.8	-	2.8	-	2.8	-	07-Dec-2018	-	2.8	-	2.8	-	-
26-Apr-2018	-	2.8	-	2.8	-	2.8	06-Aug-2018	-	-	-	-	2.8	-	10-Dec-2018	-	2.8	-	2.8	-	2.8

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
01-May-2018	-	5.7	-	5.7	-	2.8	07-Aug-2018	2.8	-	2.8	-	2.8	-	12-Dec-2018	-	2.8	-	2.8	-	-
03-May-2018	-	2.8	-	2.8	-	2.8	08-Aug-2018	-	-	-	-	-	2.8	12-Dec-2018	6.7	-	6.7	-	-	-
08-May-2018	-	2.8	-	2.8	-	2.8	17-Aug-2018	2.8	-	2.8	-	-	2.8	13-Dec-2018	2.8	-	2.8	-	9.0	-
09-May-2018	6.4	-	6.4	-	-	-	21-Aug-2018	-	2.8	-	2.8	-	-	14-Dec-2018	2.8	-	2.8	-	8.2	-
10-May-2018	-	-	-	-	7.1	-	22-Aug-2018	-	2.8	-	2.8	-	-	26-Dec-2018	7.2	-	7.2	-	6.1	-
15-May-2018	2.8	-	2.8	-	6.8	-	06-Sep-2018	2.8	-	2.8	-	2.8	-	22-Jan-2019	2.8	-	2.8	-	6.0	-
22-May-2018	5.7	-	5.7	-	2.8	-	07-Sep-2018	2.8	-	2.8	-	2.8	-	24-Jan-2019	5.8	-	5.8	-	2.8	-
11-Jun-2018	2.8	-	2.8	-	2.8	-	09-Sep-2018	2.8	-	2.8	-	2.8	-	25-Jan-2019	2.8	-	2.8	-	6.1	-

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
29-Jan-2019	-	2.8	-	2.8	-	2.8	18-May-2019	2.8	-	2.8	-	2.8	-	03-Sep-2019	-	6.4	-	6.4	-	5.8
30-Jan-2019	-	2.8	-	2.8	-	8.2	21-May-2019	12.5	-	12.5	-	-	21.2	04-Sep-2019	-	2.8	-	2.8	-	2.8
31-Jan-2019	-	2.8	-	2.8	-	2.8	23-May-2019	19.7	-	19.7	-	-	2.8	05-Sep-2019	-	5.8	-	5.8	-	-
07-Feb-2019	-	2.8	-	2.8	-	2.8	28-May-2019	-	-	-	-	-	2.8	06-Sep-2019	-	-	-	-	-	2.8
08-Feb-2019	-	2.8	-	2.8	-	2.8	04-Jun-2019	-	2.8	-	2.8	-	2.8	10-Sep-2019	46.0	-	46.0	-	18.6	-
21-Feb-2019	-	5.7	-	5.7	-	2.8	06-Jun-2019	-	2.8	-	2.8	-	2.8	12-Sep-2019	2.8	-	2.8	-	16.9	-
22-Feb-2019	2.8	-	2.8	-	6.5	-	18-Jun-2019	-	2.8	-	2.8	-	2.8	17-Sep-2019	6.1	-	6.1	-	2.8	-
23-Feb-2019	2.8	-	2.8	-	2.8	-	20-Jun-2019	2.8	-	2.8	-	2.8	-	02-Oct-2019	-	2.8	-	2.8	-	-
25-Feb-2019	7.6	-	7.6	-	6.8	-	25-Jun-2019	5.6	-	5.6	-	22.5	-	03-Oct-2019	-	6.8	-	6.8	-	6.0
26-Feb-2019	-	-	-	-	-	-	28-Jun-2019	2.8	-	2.8	-	10.6	-	11-Oct-2019	-	2.8	-	2.8	-	2.8
27-Feb-2019	-	-	-	-	-	-	29-Jun-2019	-	-	-	-	-	-	15-Oct-2019	2.8	-	2.8	-	-	2.8
28-Feb-2019	-	-	-	-	-	-	03-Jul-2019	-	7.4	-	7.4	-	10.0	17-Oct-2019	2.8	-	2.8	-	2.8	-
09-Mar-2019	-	-	-	-	8.3	-	04-Jul-2019	-	2.8	-	2.8	-	-	22-Oct-2019	11.7	-	11.7	-	11.9	-
12-Mar-2019	-	-	-	-	2.8	-	05-Jul-2019	-	-	-	-	-	2.8	23-Oct-2019	-	-	-	-	2.8	-
13-Mar-2019	-	-	-	-	2.8	-	09-Jul-2019	-	28.2	-	28.2	-	14.0	06-Nov-2019	-	2.8	-	2.8	-	2.8
14-Mar-2019	2.8	-	2.8	-	-	2.8	11-Jul-2019	36.2	-	36.2	-	-	11.9	07-Nov-2019	-	2.8	-	2.8	-	2.8
19-Mar-2019	2.8	-	2.8	-	-	7.4	16-Jul-2019	9.3	-	9.3	-	-	-	12-Nov-2019	-	2.8	-	2.8	-	2.8
27-Mar-2019	2.8	-	2.8	-	-	6.2	17-Jul-2019	-	-	-	-	-	6.1	14-Nov-2019	2.8	-	2.8	-	2.8	-
02-Apr-2019	-	2.8	-	2.8	-	2.8	18-Jul-2019	-	-	-	-	-	8.1	19-Nov-2019	10.7	-	10.7	-	2.8	-
04-Apr-2019	-	2.8	-	2.8	-	2.8	19-Jul-2019	36.5	-	36.5	-	-	-	20-Nov-2019	11.2	-	11.2	-	-	-
09-Apr-2019	-	7.1	-	7.1	-	-	21-Jul-2019	13.1	-	13.1	-	-	-	21-Nov-2019	-	-	-	-	2.8	-
10-Apr-2019	-	-	-	-	-	2.8	01-Aug-2019	-	2.8	-	2.8	-	2.8	26-Nov-2019	-	-	-	-	2.8	-
11-Apr-2019	2.8	-	2.8	-	11.2	-	06-Aug-2019	-	2.8	-	2.8	-	2.8	03-Dec-2019	-	2.8	-	2.8	-	2.8
16-Apr-2019	-	-	-	-	2.8	-	08-Aug-2019	-	2.8	-	2.8	-	-	10-Dec-2019	-	2.8	-	2.8	-	2.8
17-Apr-2019	2.8	-	2.8	-	-	-	13-Aug-2019	-	-	-	-	-	2.8	12-Dec-2019	-	2.8	-	2.8	-	2.8
18-Apr-2019	2.8	-	2.8	-	-	-	15-Aug-2019	2.8	-	2.8	-	2.8	-	13-Dec-2019	2.8	-	2.8	-	6.9	-
19-Apr-2019	-	-	-	-	2.8	-	16-Aug-2019	2.8	-	2.8	-	2.8	-	18-Dec-2019	2.8	-	2.8	-	7.6	-
20-Apr-2019	-	-	-	-	-	-	21-Aug-2019	2.8	-	2.8	-	2.8	-	19-Dec-2019	2.8	-	2.8	-	2.8	-
10-May-2019	-	-	-	-	2.8	-	22-Aug-2019	-	-	-	-	-	-	24-Dec-2019	-	-	-	-	-	-
14-May-2019	-	-	-	-	2.8	-	27-Aug-2019	-	-	-	-	-	-	25-Dec-2019	-	-	-	-	-	-

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
27-Dec-2019	-	-	-	-	-	-	26-Mar-2020	-	-	-	-	-	-	09-Jul-2020	-	2.8	-	2.8	-	-
08-Jan-2020	-	2.8	-	2.8	-	-	03-Apr-2020	-	2.8	-	-	-	-	10-Jul-2020	-	-	-	-	-	2.8
09-Jan-2020	-	2.8	-	2.8	-	-	31-Mar-2020	-	-	-	-	-	-	16-Jul-2020	-	2.8	-	2.8	-	2.8
14-Jan-2020	-	2.8	-	2.8	-	-	02-Apr-2020	-	-	-	2.8	-	2.8	22-Jul-2020	2.8	-	2.8	-	2.8	-
16-Jan-2020	2.8	-	2.8	-	-	-	07-Apr-2020	-	2.8	-	6.7	-	7.5	23-Jul-2020	2.8	-	2.8	-	65.7 Y	-
23-Jan-2020	2.8	-	7.8	-	-	-	10-Apr-2020	-	2.8	-	2.8	-	2.8	28-Jul-2020	-	-	2.8	-	2.8	-
24-Jan-2020	-	-	-	-	-	2.8	16-Apr-2020	2.8	-	2.8	-	2.8	-	29-Jul-2020	7.2	-	-	-	-	-
26-Jan-2020	-	-	-	-	-	2.8	21-Apr-2020	2.8	-	2.8	-	2.8	-	30-Jul-2020	16.0	-	-	-	-	-
27-Jan-2020	-	-	2.8	-	-	-	22-Apr-2020	2.8	-	2.8	-	2.8	-	04-Aug-2020	-	2.8	-	2.8	-	2.8
28-Jan-2020	2.8	-	-	-	-	-	24-Apr-2020	-	-	-	-	-	-	06-Aug-2020	-	6.1	-	6.1	-	2.8
30-Jan-2020	-	-	-	-	-	-	28-Apr-2020	-	-	-	-	-	-	10-Aug-2020	-	2.8	-	2.8	-	2.8
31-Jan-2020	-	-	-	-	2.8	2.8	29-Apr-2020	-	-	-	-	-	-	23-Aug-2020	7.5	-	2.8	-	2.8	-
04-Feb-2020	-	2.8	-	2.8	-	2.8	30-Apr-2020	-	-	-	-	-	-	24-Aug-2020	6.9	-	2.8	-	2.8	-
05-Feb-2020	-	-	-	2.8	-	-	05-May-2020	-	2.8	-	2.8	-	2.8	25-Aug-2020	2.8	-	2.8	-	2.8	-
06-Feb-2020	-	2.8	-	-	-	2.8	06-May-2020	-	2.8	-	2.8	-	2.8	26-Aug-2020	-	-	-	-	-	-
07-Feb-2020	-	2.8	-	2.8	-	2.8	07-May-2020	-	2.8	-	2.8	-	2.8	27-Aug-2020	-	-	-	-	-	-
14-Feb-2020	-	-	2.8	-	2.8	-	19-May-2020	2.8	-	8.7	-	2.8	-	28-Aug-2020	-	-	-	-	-	-
18-Feb-2020	-	-	2.8	-	2.8	-	21-May-2020	2.8	-	10.8	-	2.8	-	29-Aug-2020	-	-	-	-	-	-
19-Feb-2020	2.8	-	-	-	-	-	26-May-2020	2.8	-	6.0	-	5.6	-	30-Aug-2020	-	-	-	-	-	-
20-Feb-2020	2.8	-	2.8	-	2.8	-	27-May-2020	-	-	-	-	-	-	02-Sep-2020	-	-	-	-	-	-
21-Feb-2020	2.8	-	-	-	-	-	29-May-2020	-	-	-	-	-	-	04-Sep-2020	-	-	-	-	-	-
25-Feb-2020	-	-	-	-	-	-	11-Jun-2020	-	2.8	-	2.8	-	-	06-Sep-2020	-	-	-	-	-	-
26-Feb-2020	-	-	-	-	-	-	17-Jun-2020	-	2.8	-	2.8	-	2.8	09-Sep-2020	2.8	-	2.8	-	2.8	-
27-Feb-2020	-	-	-	-	-	-	18-Jun-2020	-	2.8	-	2.8	-	2.8	10-Sep-2020	2.8	-	2.8	-	2.8	-
03-Mar-2020	-	2.8	-	2.8	-	10.0	22-Jun-2020	2.8	-	2.8	-	-	2.8	11-Sep-2020	2.8	-	2.8	-	2.8	-
10-Mar-2020	-	5.8	-	8.5	-	2.8	23-Jun-2020	2.8	-	2.8	-	2.8	-	12-Sep-2020	-	2.8	-	2.8	-	2.8
12-Mar-2020	-	2.8	-	2.8	-	6.1	24-Jun-2020	2.8	-	2.8	-	-	-	14-Sep-2020	-	2.8	-	2.8	-	2.8
19-Mar-2020	2.8	-	2.8	-	2.8	-	25-Jun-2020	-	-	-	-	2.8	-	24-Sep-2020	-	2.8	-	2.8	-	2.8
24-Mar-2020	2.8	-	2.8	-	6.0	-	30-Jun-2020	-	-	-	-	2.8	-	06-Oct-2020	-	-	-	-	-	-
25-Mar-2020	2.8	-	2.8	-	2.8	-	02-Jul-2020	-	2.8	-	2.8	-	2.8	07-Oct-2020	-	-	-	-	-	-

Sample Date	TSP-1		TSP-2		TSP-3	
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
08-Oct-2020	-	-	-	-	-	-
11-Oct-2020	-	-	2.8	-	2.8	-
13-Oct-2020	2.8	-	-	-	-	-
15-Oct-2020	2.8	-	-	-	2.8	-
16-Oct-2020	-	-	2.8	-	-	-
19-Oct-2020	-	-	2.8	-	2.8	-
20-Oct-2020	2.8	-	-	-	-	-
23-Oct-2020	-	6.0	-	2.8	-	-
24-Oct-2020	-	2.8	-	2.8	-	-
25-Oct-2020	-	2.8	-	2.8	-	2.8
01-Nov-2020	-	-	-	-	-	6.0
22-Nov-2020	-	2.8	-	2.8	-	-
23-Nov-2020	-	2.8	-	2.8	-	-
24-Nov-2020	-	2.8	-	2.8	-	-
25-Nov-2020	2.8	-	2.8	-	-	-
30-Nov-2020	2.8	-	2.8	-	-	-
07-Dec-2020	-	-	-	-	-	-
08-Dec-2020	-	-	-	-	-	-
10-Dec-2020	-	-	-	-	-	-
11-Dec-2020	-	-	-	-	-	-
12-Dec-2020	2.8	-	2.8	-	-	-
13-Dec-2020	2.8	-	2.8	-	-	-
14-Dec-2020	2.8	-	2.8	-	-	-
17-Dec-2020	-	2.8	-	2.8	-	-
18-Dec-2020	-	2.8	-	2.8	-	-
19-Dec-2020	-	2.8	-	2.8	-	-

Note: - indicates not applicable

ATTACHMENT A3

METAL CONCENTRATIONS (24-HOUR), TSP-1, AUG. 2012 – DEC. 2020

Table A-3: Metal Concentrations (24-Hour), TSP-1, August 2012 – December 2020

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		25	0.3	10	0.01	120	0.025		0.5	0.1	50	4	0.5		0.4	120	2			10		1		120		10	120	2	120	
23-Aug-12	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0208	0.03472	0.035	0.554	0.17361	0.061	0.045	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.7	0.05556	0.014	0.021	0.1181	0.035
27-Sep-12	0.667	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	1.722	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
23-Oct-12	0.653	0.13889	0.05556	0.0222	0.00556	0.021	0.01389	1.153	0.0208	0.03472	0.035	2.528	1.08333 O	0.308	0.301	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.6	0.05556	0.014	0.021	0.5583	0.035
15-Dec-12	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.194	0.13889	0.021	0.052	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035
14-Jan-13	0.403	0.13889	0.05556	0.0097	0.00556	0.021	0.01389	2.069	0.0208	0.03472	0.035	0.815	0.05556	0.217	0.026	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.875	0.00736	0.6	0.17361	0.014	0.021	0.1958	0.035
16-Jan-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.0208	0.03472	0.035	0.126	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
23-Mar-13	0.292	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	1.347	0.0208	0.03472	0.035	0.318	0.05556	0.072	0.034	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0431	0.035
24-Mar-13	0.139	0.13889	0.05556	0.0192	0.00556	0.021	0.01389	0.597	0.0208	0.03472	0.035	0.293	0.05556	0.094	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.417	0.00208	0.1	0.05556	0.014	0.021	0.0667	0.035
25-Mar-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.181	0.05556	0.058	0.021	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
26-Mar-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.168	0.05556	0.057	0.019	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.05	0.035
10-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.272	0.05556	0.082	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0347	0.035
13-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0528	0.03472	0.035	0.465	0.05556	0.106	0.022	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0375	0.035
15-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.169	0.05556	0.061	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.107	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-May-13	5.292	0.13889	0.05556	0.0094	0.00556	0.264	0.01389	8.722	0.0486	0.03472	0.035	0.312	0.05556	0.222	0.013	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.583	0.01708	0.3	0.05556	0.014	0.021	0.0792	0.035
16-Jun-13	5.236	0.13889	0.05556	0.0118	0.00556	0.264	0.01389	8.597	0.0764	0.03472	0.035	0.879	0.22361	0.211	0.083	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.722	0.01639	0.3	0.05556	0.014	0.021	0.1639	0.035
18-Jun-13	0.861	0.13889	0.05556	0.0188	0.00556	0.021	0.01389	1.417	0.075	0.03472	0.035	2.153	0.79444 O	0.318	0.218	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.569	0.00458	0.7	0.05556	0.042	0.021	0.3819	0.035
21-Jun-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.319	0.0681	0.03472	0.035	0.372	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0583	0.035
24-Jun-13	0.139	0.13889	0.05556	0.0185	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.45	0.05556	0.021	0.018	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.444	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
19-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1278	0.03472	0.035	0.419	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
20-Jul-13	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.01389	0.444	0.1	0.03472	0.035	1.367	0.05556	0.096	0.175	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0958	0.035
21-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1056	0.03472	0.035	0.322	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1194	0.03472	0.035	0.493	0.05556	0.021	0.032	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0514	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
22-Aug-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.383	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
23-Aug-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.194	0.05556	0.054	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.388	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Aug-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0458	0.03472	0.035	0.208	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.435	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Sep-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.672	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Oct-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.36	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Oct-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.269	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Oct-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.331	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Oct-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Nov-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.358	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Dec-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.417	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Jan-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.378	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.75	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Jan-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.335	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.5	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.322	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	3.875	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Jan-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.342	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Feb-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.312	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.294	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
03-Feb-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.308	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Feb-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1069	0.03472	0.035	0.368	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
05-Mar-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.193	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0569	0.035
06-Mar-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.218	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
07-Mar-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
25-Mar-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.231	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Apr-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.253	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Apr-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.232	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Apr-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.276	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.167	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Apr-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.21	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.792	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-May-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.472	0.05556	0.047	0.02	0.03472	0.03472	0.208	0.694	0.03472	3.583	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0389	0.035
12-May-14	0.861	0.13889	0.05556	0.0121	0.00556	0.05	0.01389	1.847	0.0736	0.03472	0.035	0.478	0.05556	0.078	0.012	0.03472	0.03472	0.208	0.694	0.03472	2.694	0.02083	0.208	0.01639	0.1	0.05556	0.014	0.021	0.0389	0.035
13-May-14	0.667	0.13889	0.05556	0.009	0.00556	0.021	0.01389	1.403	0.0861	0.03472	0.035	0.411	0.05556	0.068	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.583	0.02083	0.208	0.01208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-May-14	0.139	0.13889	0.05556	0.0056	0.00556	0.021	0.01389	1.319	0.0958	0.03472	0.035	0.556	0.05556	0.429	0.012	0.03472	0.03472	0.208	0.694	0.03472	3.764	0.02083	0.431	0.00208	0.3	0.05556	0.014	0.021	0.0736	0.035
26-Jun-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.431	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jun-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jun-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.413	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.708	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jun-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.328	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1389	0.03472	0.035	0.397	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.368	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
22-Aug-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.333	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Aug-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1181	0.03472	0.035	0.365	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0667	0.03472	0.035	0.204	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Aug-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.293	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1111	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.583	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Sep-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.347	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.431	0.02083	0.542	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
24-Sep-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.5	0.05556	0.014	0.021	0.0139	0.035
27-Sep-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.369	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.528	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Oct-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.211	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.958	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Oct-14	0.306	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.307	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
23-Oct-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.292	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Nov-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.41	0.05556	0.021	0.02	0.03472	0.03472	0.208	0.694	0.03472	0.764	0.02083	0.889	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Nov-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1083	0.03472	0.035	0.386	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Nov-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.424	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Nov-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.333	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.246	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.125	0.02083	1.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1347	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.028	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.321	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.19306	0.014	0.021	0.0139	0.035
17-Dec-14	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.457	0.05556	0.021	0.031	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1208	0.03472	0.035	0.389	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jan-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.36	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jan-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.411	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jan-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Feb-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.343	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.847	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.128	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.464	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Apr-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.31	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.05	0.03472	0.035	0.326	0.05556	0.075	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m ³	Antimony (Sb), total µg/m ³	Arsenic (As), total µg/m ³	Barium (Ba), total µg/m ³	Beryllium (Be), total µg/m ³	Boron (B), total µg/m ³	Cadmium (Cd), total µg/m ³	Calcium (Ca), total µg/m ³	Chromium (Cr), total µg/m ³	Cobalt (Co), total µg/m ³	Copper (Cu), total µg/m ³	Iron (Fe), total µg/m ³	Lead (Pb), total µg/m ³	Magnesium (Mg), total µg/m ³	Manganese (Mn), total µg/m ³	Molybdenum (Mo), total µg/m ³	Nickel (Ni), total µg/m ³	Phosphorus (P), total µg/m ³	Potassium (K), total µg/m ³	Selenium (Se), total µg/m ³	Silicon (Si), total µg/m ³	Silver (Ag), total µg/m ³	Sodium (Na), total µg/m ³	Strontium (Sr), total µg/m ³	Sulphur (S), total µg/m ³	Tin (Sn), total µg/m ³	Titanium (Ti), total µg/m ³	Vanadium (V), total µg/m ³	Zinc (Zn), total µg/m ³	Zirconium (Zr), total µg/m ³
26-May-15	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.292	0.0667	0.03472	0.035	0.314	0.05556	0.071	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0292	0.035
27-May-15	0.444	0.13889	0.05556	0.0049	0.00556	0.021	0.01389	1.139	0.0208	0.03472	0.035	0.24	0.05556	0.122	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.02264	0.3	0.05556	0.014	0.021	0.0139	0.035
28-May-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0597	0.03472	0.035	0.431	0.05556	0.089	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Jun-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.2	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.212	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.681	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jun-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.221	0.05556	0.057	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.108	0.05556	0.05	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.021	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	2.444	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jul-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0486	0.03472	0.035	0.09	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0486	0.035
20-Jul-15	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.112	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Aug-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0458	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.05	0.03472	0.035	0.21	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.239	0.05556	0.06	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Sep-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0917	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
13-Nov-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
16-Nov-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.011	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Nov-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
06-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.093	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
09-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.21	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.083	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.542	0.1097	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1069	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.931	0.01111	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.176	0.05556	0.021	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-16	0.306	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.694	0.0653	0.03472	0.035	0.224	0.05556	0.082	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00903	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1097	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Aug-16	0.036	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.542	0.1247	0.00035	0.006	0.078	0.00274	0.043	0.007	0.00021	0.0019	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00236	-	0.00035	0.014	0.014	0.0076	0.003
10-Aug-16	0.029	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.444	0.1092	0.00035	0.001	0.021	0.00106	0.021	0.002	0.00021	0.00144	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00399	-	0.00035	0.014	0.014	0.0035	0.003
11-Aug-16	0.047	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.528	0.1335	0.00035	0.001	0.047	0.00092	0.042	0.001	0.00021	0.00143	0.056	0.035	0.00035	0.139	0.00014	0.25	0.00538	-	0.00035	0.014	0.014	0.0035	0.003
28-Sep-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0764	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01153	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-16	0.653	0.13889	0.05556	0.0062	0.00556	0.042	0.01389	1.681	0.1	0.03472	0.035	0.086	0.05556	0.126	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.04097	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Sep-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
05-Oct-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.147	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Oct-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.301	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00944	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Oct-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1069	0.03472	0.035	0.214	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01569	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Nov-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Nov-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Dec-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01319	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Dec-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1097	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Dec-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.058	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jan-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.133	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jan-17	0.139	0.13889	0.05556	0.0053	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00972	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jan-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.125	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0792	0.03472	0.035	0.06	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Feb-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Mar-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Mar-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Mar-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Apr-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.147	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Apr-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0917	0.03472	0.035	0.108	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01319	0.3	0.05556	0.014	0.021	0.0139	0.035
20-Apr-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.569	0.0722	0.03472	0.035	0.149	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.3	0.05556	0.014	0.021	0.0139	0.035
25-May-17	0.139	0.13889	0.05556	0.0049	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.118	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.417	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-May-17	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.168	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00833	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.101	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1097	0.03472	0.035	0.111	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
13-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.131	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.222	0.05556	0.043	0.027	0.03472	0.03472	0.208	0.694	0.03472	0.486	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1458	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1181	0.03472	0.035	0.164	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.232	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.514	0.1125	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0875	0.03472	0.035	0.078	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0944	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0931	0.03472	0.035	0.188	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0708	0.035
05-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.078	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.151	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0556	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.0639	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.764	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Dec-17	0.139	0.13889	0.05556	0.0104	0.00556	0.021	0.01389	0.528	0.1097	0.03472	0.035	0.081	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.903	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0708	0.03472	0.035	0.044	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
07-Feb-18	0.139	0.13889	0.05556	0.0047	0.00556	0.021	0.01389	0.514	0.0722	0.03472	0.035	0.069	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0611	0.035
09-Feb-18	0.139	0.13889	0.05556	0.0057	0.00556	0.021	0.01389	0.528	0.1014	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00431	0.1	0.05556	0.014	0.021	0.0611	0.035
14-Feb-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.542	0.0806	0.03472	0.035	0.058	0.05556	0.042	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
20-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0625	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.0764	0.03472	0.035	0.05	0.05556	0.044	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.1139	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
04-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.333	0.0875	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.1097	0.03472	0.035	0.042	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
24-May-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0833	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
26-May-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
05-Jun-18	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.431	0.0343	0.00035	0.005	0.056	0.00086	0.051	0.002	0.00021	0.00133	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00128	69.4	0.00035	0.014	0.014	0.0035	0.003
06-Jun-18	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.417	0.0672	0.00035	0.001	0.069	0.00181	0.049	0.002	0.00021	0.00035	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00144	69.4	0.00035	0.014	0.014	0.0035	0.003
08-Jun-18	0.057	0.00035	0.00035	0.0008	0.00035	0.021	0.00021	0.361	0.0762	0.00035	0.002	0.085	0.0009	0.047	0.002	0.00021	0.00168	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00083	69.4	0.00035	0.014	0.014	0.0035	0.003
13-Jul-18	0.042	0.00035	0.00035	0.0014	0.00035	0.021	0.00021	0.208	0.0385	0.00035	0.001	0.119	0.01403	0.021	0.006	0.00021	0.00136	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0097	0.003
17-Jul-18	0.046	0.00035	0.00035	0.002	0.00035	0.021	0.00007	0.319	0.0562	0.00035	0.001	0.064	0.0025	0.021	0.002	0.00021	0.00136	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00106	69.4	0.00035	0.014	0.014	0.0074	0.003
18-Jul-18	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.181	0.0454	0.00035	0.001	0.056	0.00103	0.021	0.001	0.00021	0.00119	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
23-Aug-18	0.047	0.00035	0.00035	0.0044	0.00035	0.021	0.00019	0.139	0.096	0.00035	0.003	0.082	0.00276	0.021	0.004	0.00021	0.00174	0.056	0.074	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.0081	0.003
25-Aug-18	0.038	0.00035	0.00035	0.0016	0.00035	0.021	0.00015	0.167	0.0739	0.00035	0.003	0.162	0.00147	0.021	0.002	0.00021	0.00168	0.056	0.078	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.01	0.003
26-Aug-18	0.038	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.194	0.0871	0.00035	0.002	0.303	0.00775	0.021	0.003	0.00256	0.00201	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00069	69.4	0.00035	0.014	0.014	0.0087	0.003
02-Sep-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0514	0.03472	0.035	0.021	0.05556	0.053	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.625	0.00208	0.1	0.05556	0.014	0.021	0.2681	0.035
03-Sep-18	0.139	0.13889	0.05556	0.0051	0.00556	0.021	0.01389	0.486	0.0431	0.03472	0.035	0.021	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.708	0.00208	0.1	0.05556	0.014	0.021	0.8167	0.035
05-Sep-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	1.139	0.0444	0.03472	0.035	0.021	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.667	0.00208	0.3	0.05556	0.014	0.021	0.3444	0.035
26-Oct-18	0.139	0.13889	0.05556	0.0078	0.00556	0.021	0.01389	0.361	0.0931	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
30-Oct-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0722	0.03472	0.035	0.046	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.07361	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.1083	0.035
31-Oct-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0597	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.07917	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0875	0.035
07-Nov-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0958	0.035
08-Nov-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0625	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1208	0.035
15-Nov-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0778	0.035
18-Nov-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
27-Dec-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0708	0.03472	0.035	0.211	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035
28-Dec-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0583	0.03472	0.035	0.086	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0583	0.035
30-Dec-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.681	0.00208	0.1	0.05556	0.014	0.021	0.0556	0.035
10-Jan-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0764	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
15-Jan-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
27-Feb-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0639	0.03472	0.035	0.093	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0708	0.035
28-Feb-19	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.075	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0778	0.035
09-Mar-19	0.032	0.00035	0.00035	0.002	0.00035	0.021	0.00007	0.458	0.0976	0.00035	0.001	0.054	0.00083	0.021	0.002	0.00054	0.00239	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00367	69.4	0.00035	0.014	0.014	0.0261	0.003
12-Mar-19	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.417	0.0593	0.00035	-	0.021	0.00035	0.021	0.001	0.00021	0.00118	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00088	69.4	0.00035	0.014	0.014	0.024	0.003
13-Mar-19	0.031	0.00035	0.00035	0.0017	0.00035	0.021	0.00014	0.472	0.0714	0.00035	0.001	0.053	0.001	0.021	0.001	0.00021	0.00111	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00101	69.4	0.00035	0.014	0.014	0.0269	0.003
19-Apr-19	0.031	0.00035	0.00035	0.0017	0.00035	0.021	0.00072	0.431	0.0561	0.00035	0.001	0.064	0.00079	0.021	0.001	0.00021	0.00121	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00082	69.4	0.00035	0.014	0.014	0.1236	0.003
20-Apr-19	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00021	0.444	0.0768	0.00035	-	0.053	0.00157	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00081	69.4	0.00035	0.014	0.014	0.1249	0.003
25-Apr-19	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.417	0.0721	0.00035	0.001	0.051	0.00235	0.021	0.001	0.00336	0.00088	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.1285	0.003
01-May-19	0.044	0.00035	0.00117	0.0017	0.00035	0.021	0.00029	0.069	0.0686	0.00035	0.001	0.147	0.01806	0.021	0.013	0.00021	0.00164	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0132	0.003
07-May-19	0.053	0.00035	0.00035	0.0016	0.00035	0.021	0.00024	0.069	0.0562	0.00035	0.001	0.111	0.01472	0.021	0.003	0.00021	0.001	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00079	69.4	0.00035	0.014	0.014	0.0081	0.003
14-May-19	0.042	0.00035	0.00035	0.0018	0.00035	0.021	0.00038	0.069	0.0776	0.00035	0.001	0.09	0.00303	0.021	0.003	0.00021	0.00114	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00086	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-19	0.081	0.00035	0.00178	0.0033	0.00035	0.021	0.00046	0.542	0.0828	0.00035	0.002	0.274	0.02722	0.071	0.023	0.00021	0.00196	0.056	0.175	0.00035	0.278	0.00049	0.208	0.00118	69.4	0.00035	0.014	0.014	0.0675	0.003
26-Jul-19	0.033	0.00035	0.00035	0.0017	0.00035	0.021	0.00007	0.389	0.0775	0.00035	0.001	0.062	0.00358	0.021	0.003	0.00021	0.00115	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00139	69.4	0.00035	0.014	0.014	0.0439	0.003
30-Jul-19	0.028	0.00035	0.00035	0.0014	0.00035	0.021	0.00017	0.389	0.0867	0.00035	0.001	0.072	0.00336	0.021	0.007	0.00042	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00076	69.4	0.00035	0.014	0.014	0.0433	0.003
31-Jul-19	0.039	0.00035	0.00035	0.0015	0.00035	0.021	0.00019	0.431	0.1003	0.00035	0.001	0.133	0.01378	0.021	0.007	0.00021	0.00128	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00085	69.4	0.00035	0.014	0.014	0.0492	0.003
22-Aug-19	0.042	0.00035	0.00035	0.0012	0.00035	0.021	0.00017	0.069	0.0849	0.00035	0.001	0.082	0.00607	0.021	0.003	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0228	0.003
27-Aug-19	0.038	0.00035	0.00035	0.0013	0.00035	0.021	0.00076	0.069	0.0693	0.00035	0.001	0.135	0.00735	0.021	0.003	0.00021	0.00139	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00035	69.4	0.00035	0.014	0.014	0.0247	0.003
28-Aug-19	0.047	0.00035	0.00035	0.002	0.00035	0.021	0.00022	0.069	0.0761	0.00035	0.015	0.119	0.01611	0.021	0.005	0.00021	0.00307	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0251	0.003
24-Sep-19	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00007	0.069	0.0683	0.00035	0.001	0.064	0.00035	0.021	0.001	0.00021	0.00101	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0315	0.003
25-Sep-19	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.069	0.0736	0.00035	0	0.057	0.00111	0.021	0.001	0.00021	0.00118	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0468	0.003
27-Sep-19	0.142	0.00035	0.00076	0.0032	0.00035	0.021	0.00082	0.222	0.0718	0.00035	0.002	0.351	0.03236	0.064	0.013	0.00021	0.00146	0.056	0.071	0.00035	0.139	0.00014	0.139	0.00085	69.4	0.00035	0.014	0.014	0.1472	0.003
23-Oct-19	0.014	0.00035	0.00288	0.0008	0.00035	0.021	0.00067	0.069	0.0622	0.00035	0.002	0.05	0.00071	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.014	0.003
25-Oct-19	0.031	0.00035	0.00703	0.0008	0.00035	0.021	0.00007	0.069	0.0704	0.00035	0.005	0.058	0.00072	0.021	0.002	0.00021	0.00099	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0121	0.003
29-Oct-19	0.028	0.00035	0.00768	0.001	0.00035	0.021	0.00022	0.069	0.0837	0.00035	0.004	0.112	0.00204	0.021	0.003	0.00021	0.00215	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.031	0.003

Sample Date	Aluminum (Al), total µg/m ³	Antimony (Sb), total µg/m ³	Arsenic (As), total µg/m ³	Barium (Ba), total µg/m ³	Beryllium (Be), total µg/m ³	Boron (B), total µg/m ³	Cadmium (Cd), total µg/m ³	Calcium (Ca), total µg/m ³	Chromium (Cr), total µg/m ³	Cobalt (Co), total µg/m ³	Copper (Cu), total µg/m ³	Iron (Fe), total µg/m ³	Lead (Pb), total µg/m ³	Magnesium (Mg), total µg/m ³	Manganese (Mn), total µg/m ³	Molybdenum (Mo), total µg/m ³	Nickel (Ni), total µg/m ³	Phosphorus (P), total µg/m ³	Potassium (K), total µg/m ³	Selenium (Se), total µg/m ³	Silicon (Si), total µg/m ³	Silver (Ag), total µg/m ³	Sodium (Na), total µg/m ³	Strontium (Sr), total µg/m ³	Sulphur (S), total µg/m ³	Tin (Sn), total µg/m ³	Titanium (Ti), total µg/m ³	Vanadium (V), total µg/m ³	Zinc (Zn), total µg/m ³	Zirconium (Zr), total µg/m ³
31-Oct-19	0.039	0.00035	0.01275	0.0015	0.00035	0.021	0.00042	0.486	0.1201	0.00035	0.007	0.096	0.0014	0.021	0.002	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00071	69.4	0.00035	0.014	0.014	0.0226	0.003
21-Nov-19	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00024	0.431	0.0657	0.00035	0.001	0.056	0.00085	0.021	0.001	0.00021	0.00183	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00069	69.4	0.00035	0.014	0.014	0.0328	0.003
26-Nov-19	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00021	0.486	0.0718	0.00035	0.001	0.064	0.00035	0.021	-	0.00021	0.00133	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00072	69.4	0.00035	0.014	0.014	0.0421	0.003
27-Nov-19	0.014	0.00035	0.00035	0.0014	0.00035	0.021	0.00022	0.458	0.0692	0.00035	0.002	0.065	0.00121	0.021	0.002	0.00021	0.00149	0.056	0.075	0.00035	0.139	0.00014	0.292	0.00075	69.4	0.00035	0.014	0.014	0.0447	0.003
24-Dec-19	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00017	0.472	0.051	0.00035	0.001	0.047	0.00153	0.021	-	0.00021	0.00112	0.056	0.035	0.00035	0.389	0.00014	0.167	0.00079	69.4	0.00035	0.014	0.014	0.0822	0.003
25-Dec-19	0.038	0.00035	0.00275	0.0013	0.00035	0.021	0.00026	0.472	0.054	0.00035	0.002	0.06	0.00219	0.021	0.002	0.00021	0.00169	0.056	0.035	0.00035	0.361	0.00014	0.194	0.00083	69.4	0.00035	0.014	0.014	0.0757	0.003
30-Jan-2020	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00015	0.458	0.0538	0.00035	0.004	0.079	0.00188	0.021	0.003	0.00178	0.00106	0.056	0.035	0.00035	1.278	-	0.236	0.00035	69.4	0.00035	0.014	0.014	0.0501	0.003
31-Jan-2020	0.014	0.00035	0.00035	0.0007	0.00035	0.021	0.00007	0.375	0.0893	0.00035	0.001	0.042	0.00071	0.021	0.000	0.00021	0.00093	0.056	0.035	0.00035	0.389	-	0.153	0.00035	69.4	0.00035	0.014	0.014	0.0133	0.003
25-Feb-2020	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.222	0.0789	0.00035	0.001	0.060	0.00035	0.021	0.001	0.00021	0.00154	0.056	0.035	0.00035	0.681	0.00014	0.167	0.00106	69.4	0.00035	0.014	0.014	0.0306	0.003
26-Feb-2020	0.036	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.514	0.0832	0.00035	0.003	0.168	0.00035	0.021	0.001	0.00112	0.00300	0.056	0.035	0.00035	0.347	0.00014	0.181	0.00078	69.4	0.00035	0.014	0.014	0.0269	0.003
27-Feb-2020	0.031	0.00035	0.00035	0.0007	0.00035	0.021	0.00018	0.208	0.0681	0.00035	0.001	0.056	0.00035	0.021	0.001	0.00021	0.00153	0.056	0.035	0.00035	0.292	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0246	0.003
26-Mar-2020	0.042	0.00035	0.00035	0.0013	0.00035	0.021	0.00054	0.500	0.0604	0.00035	0.002	0.086	0.01010	0.071	0.003	0.00021	0.00286	0.056	0.035	0.00035	0.750	0.00014	0.375	0.00106	69.4	0.00035	0.014	0.014	0.0422	0.003
29-Apr-2020	0.031	0.00035	0.00035	0.0010	0.00035	0.021	0.00015	0.486	0.0675	0.00035	0.001	0.054	0.00125	0.021	0.001	0.00021	0.00094	0.056	0.035	0.00035	1.528	0.00014	0.153	0.00081	69.4	0.00035	0.014	0.014	0.0729	0.003
30-Apr-2020	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00021	0.431	0.0726	0.00035	0.001	0.058	0.00158	0.021	0.001	0.00021	0.00086	0.056	0.035	0.00035	0.514	0.00014	0.222	0.00079	69.4	0.00035	0.014	0.014	0.0826	0.003
27-May-2020	0.042	0.00035	0.00035	0.0019	0.00035	0.021	0.00007	0.431	0.0611	0.00035	0.000	0.056	0.00085	0.021	0.001	0.00021	0.00133	0.056	0.035	0.00035	0.431	0.00014	0.306	0.00101	69.4	0.00035	0.014	0.014	0.0035	0.003
29-May-2020	0.039	0.00035	0.00035	0.0010	0.00035	0.021	0.00035	0.417	0.0640	0.00035	0.002	0.067	0.00382	0.021	0.003	0.00021	0.00142	0.056	0.083	0.00035	0.139	0.00014	0.236	0.00083	69.4	0.00035	0.014	0.014	0.0111	0.003
25-Jun-2020	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	-0	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	-	-	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jun-2020	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.319	-	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	-	-	0.00208	0.1	0.05556	0.014	0.021	0.0486	0.035
28-Aug-2020	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00015	0.069	0.0699	0.00035	0.002	0.044	0.00365	0.021	0.002	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Aug-2020	0.014	0.00035	0.00035	0.0015	0.00035	0.021	0.00029	0.264	0.0483	0.00035	0.002	0.051	0.00733	0.021	0.005	0.00021	0.00136	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00104	69.4	0.00035	0.014	0.014	0.0244	0.003
30-Aug-2020	0.060	0.00035	0.00035	0.0010	0.00035	0.021	0.00007	0.139	0.0724	0.00035	0.004	0.044	0.00297	0.021	0.002	0.00021	0.00168	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0212	0.003
02-Sep-2020	0.046	0.00035	0.00132	0.0025	0.00035	0.021	0.00014	0.514	0.0664	0.00035	0.002	0.146	0.00551	0.021	0.006	0.00021	0.00179	0.056	0.035	0.00035	0.278	0.00014	0.222	0.00146	69.4	0.00035	0.014	0.014	0.0276	0.003
04-Sep-2020	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00015	0.333	0.0529	0.00035	0.001	0.054	0.00236	0.021	0.002	0.00021	0.00124	0.056	0.035	0.00035	0.139	0.00014	0.931	0.00076	69.4	0.00082	0.014	0.014	0.0225	0.003
06-Sep-2020	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00007	0.375	0.0672	0.00035	0.003	0.096	0.00422	0.021	0.011	0.00021	0.00233	0.056	0.035	0.00035	0.514	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0253	0.003
06-Oct-2020	0.160	0.00193	0.00035	0.0062	0.00035	0.021	0.00029	0.944	0.0632	0.00035	0.004	0.262	0.01903	0.081	0.020	0.00021	0.00258	0.056	0.074	0.00035	0.319	0.00014	0.250	0.00467	69.4	0.00035	0.014	0.014	0.0671	0.003
07-Oct-2020	0.114	0.00151	0.00035	0.0013	0.00035	0.021	0.00046	0.597	0.0671	0.00035	0.001	0.071	0.00422	0.051	0.003	0.00021	0.00161	0.056	0.035	0.00035	1.000	0.00014	0.069	0.00332	69.4	0.00035	0.014	0.014	0.0319	0.003
08-Oct-2020	0.118	0.00146	0.00035	0.0029	0.00035	0.021	0.00074	0.653	0.0839	0.00035	0.001	0.106	0.00132	0.058	0.002	0.00021	0.00121	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00343	69.4	0.00142	0.014	0.014	0.0554	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
07-Dec-2020	0.054	0.00035	0.00035	0.0010	0.00035	0.021	0.00017	0.431	0.0743	0.00035	0.001	0.065	0.01103	0.021	0.004	0.00021	0.00183	0.056	0.035	0.00035	0.514	0.00014	0.069	0.00090	69.4	0.00183	0.014	0.014	0.0150	0.003
08-Dec-2020	0.029	0.00035	0.00035	0.0003	0.00035	0.021	0.00018	0.389	0.0692	0.00035	0.001	0.164	0.00183	0.021	0.003	0.00021	0.00131	0.056	0.035	0.00035	0.583	0.00014	0.069	0.00139	69.4	0.00215	0.014	0.014	0.0035	0.003
10-Dec-2020	0.039	0.00035	0.00035	0.0003	0.00035	0.021	0.00022	0.417	0.0753	0.00035	0.001	0.057	0.00379	0.021	0.002	0.00021	0.00149	0.056	0.035	0.00035	1.278	0.00014	0.069	0.00101	69.4	0.00196	0.014	0.014	0.0118	0.003

* Criteria effective on July 1, 2016

ATTACHMENT A4

METAL CONCENTRATIONS (24-HOUR), TSP-2, AUG. 2012 – DEC. 2020

Table A-4: Metal Concentrations (24-Hour), TSP-2, August 2012 – December 2020

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		25	0.3	10	0.01	120	0.025		0.5	0.1	50	4	0.5		0.4	120	2			10		1		120		10	120	2	120	
23-Aug-2012	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.439	0.736110	0.047	0.033	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.7	0.05556	0.014	0.021	0.1083	0.035
27-Sep-2012	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
15-Dec-2012	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.533	0.18056	0.076	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1222	0.035
16-Jan-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.143	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	1.431	0.32083	0.089	0.4070	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2444	0.035
24-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0208	0.03472	0.035	1.174	0.36111	0.124	0.6510	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2778	0.035
25-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0556	0.03472	0.035	1.162	0.36667	0.108	0.39	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2639	0.035
26-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0458	0.03472	0.035	0.921	0.15278	0.117	0.29	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1417	0.035
07-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0208	0.03472	0.035	1.161	0.41667	0.119	0.4710	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.2944	0.035
10-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.439	0.05556	0.081	0.049	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035
13-Apr-2013	0.306	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0444	0.03472	0.035	0.199	0.05556	0.081	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
15-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.268	0.05556	0.079	0.025	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.165	0.05556	0.065	0.012	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2013	0.361	0.13889	0.05556	0.0087	0.00556	0.021	0.01389	0.708	0.0208	0.03472	0.035	0.232	0.05556	0.053	0.016	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2013	1.583	0.13889	0.05556	0.0053	0.00556	0.071	0.01389	2.569	0.1222	0.03472	0.035	0.825	0.13333	0.094	0.078	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.542	0.00486	0.1	0.05556	0.014	0.021	0.0958	0.035
21-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.432	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0542	0.03472	0.035	0.282	0.05556	0.072	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
28-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.5	0.0542	0.03472	0.035	0.414	0.05556	0.082	0.046	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0708	0.035
19-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.526	0.05556	0.021	0.027	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
20-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.381	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
21-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.5	0.05556	0.021	0.052	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
22-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.0944	0.03472	0.035	1.122	0.05556	0.071	0.134	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0917	0.035
22-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.314	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0278	0.035
25-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.05	0.03472	0.035	0.185	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.496	0.05556	0.021	0.012	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035
28-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.496	0.05556	0.021	0.046	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1222	0.035
31-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.2	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.347	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.424	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.479	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.036110	0.139	0.0861	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0472	0.035
30-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.45	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.326	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.303	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Oct-2013	0.292	0.13889	0.05556	0.0021	0.00556	0.078	0.01389	0.667	0.1236	0.03472	0.035	0.311	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.01361	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.268	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.538	0.05556	0.021	0.042	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
29-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.372	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Dec-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.362	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.314	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1083	0.03472	0.035	0.611	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0542	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
06-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.371	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.861	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0375	0.035
01-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.381	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1208	0.03472	0.035	0.321	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.39	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1056	0.03472	0.035	0.325	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
06-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0486	0.035
07-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.276	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.267	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.597	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
12-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.239	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
13-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.301	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.625	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
14-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.315	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.236	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0319	0.035
15-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.186	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.944	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
11-May-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.376	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	5.028	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
12-May-2014	1.625	0.13889	0.05556	0.0222	0.00556	0.099	0.01389	3.472	0.0889	0.03472	0.035	0.506	0.05556	0.112	0.013	0.03472	0.03472	0.208	0.694	0.03472	1.736	0.02083	0.417	0.03167	0.3	0.05556	0.014	0.021	0.0403	0.035
13-May-2014	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.01389	0.569	0.0903	0.03472	0.035	0.426	0.05556	0.056	0.014	0.03472	0.03472	0.208	0.694	0.03472	3.75	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0292	0.035
29-May-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.489	0.05556	0.021	0.011	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.408	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.389	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.326	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1194	0.03472	0.035	0.365	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.378	0.05556	0.021	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.34	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
28-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.354	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.431	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1319	0.03472	0.035	0.317	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.028	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.331	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.722	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1069	0.03472	0.035	0.335	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0931	0.03472	0.035	0.315	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.35	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.358	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1056	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.486	0.02083	0.208	0.00208	0.6	0.05556	0.014	0.021	0.0139	0.035
27-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.354	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.242	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.167	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.239	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.386	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.161	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1319	0.03472	0.035	0.353	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.611	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.339	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.258	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.362	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	1.167	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.414	0.05556	0.021	0.043	0.03472	0.03472	0.208	0.694	0.03472	1.361	0.02083	0.917	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.378	0.05556	0.021	0.021	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.381	0.05556	0.021	0.02	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1097	0.03472	0.035	0.342	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
13-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.262	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
15-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.333	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0278	0.035
12-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.75	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0583	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.304	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.014	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.137	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.357	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.306	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0486	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2015	0.139	0.13889	0.05556	0.0476	0.00556	0.021	0.01389	0.611	0.0556	0.03472	0.035	1.015	0.05556	0.167	0.117	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.208	0.00208	0.6	0.05556	0.014	0.021	0.0694	0.035
26-May-2015	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.01389	0.625	0.05	0.03472	0.035	0.96	0.05556	0.186	0.101	0.03472	0.03472	0.208	0.694	0.03472	0.556	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0639	0.035
27-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.353	0.05556	0.065	0.018	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
28-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.347	0.05556	0.075	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.238	0.05556	0.061	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2015	0.139	0.13889	0.05556	0.0083	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.179	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.5	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.197	0.05556	0.056	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.071	0.05556	0.044	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.346	0.05556	0.056	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
11-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.161	0.05556	0.062	0.02	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
20-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	1.111	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.081	0.05556	0.043	0.015	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.147	0.05556	0.047	0.016	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Sep-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0514	0.03472	0.035	0.115	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.040280	0.139	0.0986	0.03472	0.035	0.111	0.05556	0.054	0.014	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0333	0.035
13-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0556	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.088	0.05556	0.053	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0722	0.035
12-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.172	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1347	0.035
14-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.103	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
19-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.528	0.0917	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1111	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
17-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.142	0.05556	0.042	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.778	0.02083	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-2016	0.472	0.13889	0.05556	0.0062	0.00556	0.021	0.01389	1.292	0.0806	0.03472	0.035	0.543	0.15694	0.193	0.204	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01014	0.3	0.05556	0.014	0.021	0.1111	0.035
28-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.103	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1194	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1125	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Aug-2016	0.031	0.00035	0.00035	0.0011	0.00035	0.021	0.00015	0.5	0.131	0.00035	0.002	0.021	0.00247	0.021	0.004	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.003	-	0.00035	0.014	0.014	0.0035	0.003
10-Aug-2016	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.444	0.1215	0.00035	0.001	0.021	0.00086	0.021	0.001	0.00021	0.00129	0.056	0.035	0.00035	0.139	0.00014	0.069	0.0025	-	0.00035	0.014	0.014	0.0035	0.003
11-Aug-2016	0.032	0.00035	0.001	0.001	0.00035	0.021	0.00007	0.528	0.1168	0.00035	0.002	0.078	0.00349	0.021	0.002	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00863	-	0.00035	0.014	0.014	0.0035	0.003
28-Sep-2016	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.108	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0292	0.035
29-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0931	0.03472	0.035	0.114	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.333	0.0986	0.03472	0.035	0.097	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.386	0.05556	0.065	0.058	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
27-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.1278	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.278	0.0903	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0931	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1083	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1194	0.03472	0.035	0.185	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0917	0.03472	0.035	0.06	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	1.125	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
14-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.124	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.185	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.0917	0.03472	0.035	0.26	0.05556	0.021	0.025	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.02361	0.1	0.05556	0.014	0.021	0.1486	0.035
14-Apr-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.611	0.1014	0.03472	0.035	0.089	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Apr-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.125	0.03472	0.035	0.458	0.05556	0.086	0.03	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00875	0.3	0.05556	0.014	0.021	0.0417	0.035
20-Apr-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.347	0.1111	0.03472	0.035	0.349	0.05556	0.081	0.029	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.417	0.00972	0.1	0.05556	0.014	0.021	0.0319	0.035
25-May-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.458	0.0736	0.03472	0.035	0.107	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00667	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1208	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-May-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.403	0.0861	0.03472	0.035	0.643	0.05556	0.129	0.078	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0597	0.035
01-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.124	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.133	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0361	0.035
09-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.319	0.1111	0.03472	0.035	0.162	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.1306	0.03472	0.035	0.547	0.05556	0.065	0.04	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1125	0.03472	0.035	1.058	0.05556	0.021	0.022	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.236	0.05556	0.054	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Jul-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.431	0.0819	0.03472	0.035	0.608	0.05556	0.144	0.088	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0542	0.035
09-Aug-2017	0.653	0.13889	0.05556	0.0201	0.00556	0.021	0.01389	1.278	0.0764	0.03472	0.035	2.778	0.36944	0.468	0.4040	0.03472	0.03472	0.208	0.694	0.03472	1.097	0.02083	0.208	0.00486	0.6	0.05556	0.032	0.021	0.2764	0.035
11-Aug-2017	0.139	0.13889	0.05556	0.0087	0.00556	0.021	0.01389	0.514	0.0597	0.03472	0.035	1.046	0.1625	0.167	0.164	0.03472	0.03472	0.208	0.694	0.03472	0.556	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1153	0.035
15-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1	0.03472	0.035	0.15	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.1014	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
26-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.1056	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.1458	0.03472	0.035	0.086	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.1181	0.03472	0.035	0.076	0.05556	0.175	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.092	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.058	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.0986	0.03472	0.035	0.074	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.528	0.0847	0.03472	0.035	0.068	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0625	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0597	0.035
04-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.5	0.0764	0.03472	0.035	0.044	0.16111	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
09-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0986	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0792	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0833	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0556	0.035
20-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0597	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0611	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.333	0.1069	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
04-Apr-2018	0.139	0.13889	0.05556	0.0064	0.00556	0.021	0.01389	0.333	0.0694	0.03472	0.035	0.047	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0764	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0333	0.035
27-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
26-Jul-2018	0.276	0.00174	0.01044	0.0077	0.00035	0.021	0.00143	0.736	0.0717	0.00035	0.008	1.206	0.17083	0.215	0.135	0.00021	0.00236	0.056	0.118	0.00035	0.361	0.00136	0.208	0.00257	69.4	0.00035	0.014	0.014	0.1008	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
27-Jul-2018	0.111	0.00078	0.00365	0.0032	0.00035	0.021	0.0005	0.306	0.0435	0.00035	0.003	0.465	0.06083	0.072	0.053	0.00021	0.00281	0.056	0.035	0.00035	0.139	0.00058	0.181	0.00099	69.4	0.00035	0.014	0.014	0.0404	0.003
31-Jul-2018	0.11	0.00035	0.00294	0.003	0.00035	0.021	0.00046	0.333	0.0471	0.00035	0.002	0.415	0.04208	0.075	0.036	0.00021	0.00165	0.056	0.074	0.00035	0.139	0.00029	0.236	0.00097	69.4	0.00035	0.014	0.014	0.0347	0.003
21-Aug-2018	0.108	0.00082	0.00446	0.0026	0.00035	0.021	0.00056	0.431	0.0401	0.00035	0.003	0.494	0.07111	0.085	0.068	0.00021	0.00243	0.056	0.035	0.00035	0.347	0.00046	0.194	0.00133	69.4	0.00035	0.014	0.014	0.0658	0.003
22-Aug-2018	0.04	0.00035	0.00035	0.0009	0.00035	0.021	0.00024	0.139	0.0715	0.00035	0.002	0.088	0.00429	0.021	0.008	0.00021	0.00161	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0271	0.003
23-Aug-2018	0.056	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.222	0.0421	0.00035	0.002	0.076	0.00379	0.021	0.006	0.00021	0.0016	0.056	0.097	0.00035	0.139	0.00014	0.347	0.00035	69.4	0.00035	0.014	0.014	0.0097	0.003
02-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0208	0.03472	0.035	0.021	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.528	0.00208	0.1	0.05556	0.014	0.021	0.1028	0.035
03-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	1.083	0.0486	0.03472	0.035	0.103	0.05556	0.15	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.1	0.05556	0.014	0.021	0.1139	0.035
05-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0444	0.03472	0.035	0.042	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.5	0.00208	0.1	0.05556	0.014	0.021	0.1319	0.035
25-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1694	0.035
26-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0889	0.03472	0.035	0.112	0.05556	0.043	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1556	0.035
30-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1208	0.035
07-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035
08-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.458	0.05	0.03472	0.035	0.021	0.05556	0.021	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1278	0.035
15-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1458	0.035
18-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0736	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0722	0.035
26-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.418	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.9	0.05556	0.014	0.021	0.4819	0.035
15-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1375	0.035
22-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
26-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0681	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035
27-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0625	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
28-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0792	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0736	0.035
05-Mar-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.472	0.0793	0.00035	0.001	0.043	0.00074	0.021	0.001	0.00021	0.00112	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.2333	0.003
06-Mar-2019	0.014	0.00035	0.00035	0.0018	0.00035	0.021	0.00019	0.5	0.0942	0.00035	0.001	0.064	0.00786	0.044	0.001	0.00069	0.00119	0.056	0.035	0.00035	0.139	0.00014	0.194	0.001	69.4	0.00035	0.014	0.014	0.1083	0.003
07-Mar-2019	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00018	0.5	0.0671	0.00035	0.001	0.047	0.00035	0.042	0.001	0.00058	0.00126	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00097	69.4	0.00035	0.014	0.014	0.0703	0.003
19-Apr-2019	0.038	0.00035	0.00035	0.0022	0.00035	0.021	0.00007	0.486	0.0594	0.00035	0.001	0.075	0.0044	0.044	0.003	0.00021	0.00082	0.056	0.035	0.00035	0.139	0.00014	0.069	0.0011	69.4	0.00035	0.014	0.014	0.1417	0.003
20-Apr-2019	0.061	0.00035	0.00072	0.0018	0.00035	0.021	0.00147	0.5	0.0714	0.00035	0.004	0.193	0.02847	0.058	0.009	0.00021	0.00212	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00115	69.4	0.00035	0.014	0.014	0.1778	0.003
25-Apr-2019	0.04	0.00035	0.00035	0.0016	0.00035	0.021	0.00025	0.444	0.0674	0.00035	0.002	0.085	0.00221	0.021	0.002	0.00021	0.0015	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00096	69.4	0.00035	0.014	0.014	0.2333	0.003
01-May-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00031	0.069	0.0775	0.00035	0	0.053	0.0011	0.021	0.001	0.00021	0.00125	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
07-May-2019	0.16	0.00119	0.00632	0.0045	0.00035	0.021	0.00093	0.417	0.1149	0.00035	0.004	0.633	0.10278	0.11	0.086	0.00021	0.00188	0.056	0.035	0.00035	0.139	0.00082	0.194	0.00164	69.4	0.00035	0.014	0.014	0.0676	0.003
09-May-2019	0.043	0.00035	0.00128	0.0016	0.00035	0.021	0.00021	0.069	0.0622	0.00035	0.001	0.075	0.00662	0.021	0.002	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00076	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-2019	0.122	0.00035	0.00222	0.0048	0.00035	0.021	0.00042	0.611	0.0825	0.00035	0.004	0.385	0.02625	0.089	0.034	0.00046	0.00225	0.056	0.203	0.00035	0.139	0.00014	0.25	0.0014	69.4	0.00035	0.014	0.014	0.0689	0.003
21-Jul-2019	0.121	0.00035	0.00299	0.0079	0.00035	0.021	0.00072	0.736	0.0826	0.00035	0.002	0.497	0.04069	0.115	0.048	0.00021	0.00181	0.056	0.308	0.00035	0.306	0.00014	0.181	0.00171	69.4	0.00035	0.014	0.014	0.0915	0.003
26-Jul-2019	0.028	0.00035	0.00035	0.0013	0.00035	0.021	0.00018	0.444	0.0785	0.00035	0.001	0.106	0.00624	0.021	0.006	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.153	0.0009	69.4	0.00035	0.014	0.014	0.0478	0.003
30-Jul-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.361	0.0797	0.00035	0	0.061	0.00256	0.021	0.003	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.0401	0.003
22-Aug-2019	0.043	0.00035	0.001	0.0016	0.00035	0.021	0.00086	0.069	0.0751	0.00035	0.001	0.146	0.01528	0.021	0.013	0.00021	0.00139	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00089	69.4	0.00035	0.014	0.014	0.0318	0.003
27-Aug-2019	0.097	0.00035	0.00275	0.0032	0.00035	0.021	0.0005	0.236	0.0894	0.00035	0.002	0.39	0.04917	0.081	0.037	0.00021	0.00118	0.056	0.035	0.00035	0.458	0.00036	0.139	0.00099	69.4	0.00035	0.014	0.014	0.0479	0.003
28-Aug-2019	0.062	0.00035	0.00122	0.0019	0.00035	0.021	0.00026	0.139	0.0696	0.00035	0.006	0.193	0.01764	0.021	0.027	0.00021	0.00143	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00072	69.4	0.00035	0.014	0.014	0.0608	0.003
24-Sep-2019	0.032	0.00035	0.00035	0.0007	0.00035	0.021	0.00007	0.069	0.1889	0.00147	0.006	0.688	0.00253	0.021	0.072	0.00247	0.06417	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.2931	0.003
25-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00021	0.069	0.0756	0.00035	0.001	0.057	0.00103	0.021	0	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
27-Sep-2019	0.014	0.00089	0.00035	0.001	0.00035	0.021	0.00007	0.069	0.0715	0.00035	0.001	0.067	0.0024	0.021	0.002	0.00021	0.00151	0.056	0.165	0.00035	0.139	0.00014	0.306	0.00071	69.4	0.00035	0.014	0.014	0.3583	0.003
23-Oct-2019	0.014	0.00035	0.00328	0.0012	0.00035	0.021	0.00007	0.069	0.0778	0.00035	0.002	0.064	0.00106	0.021	0.001	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00035	69.4	0.00035	0.014	0.014	0.021	0.003
24-Oct-2019	0.014	0.00035	0.00347	0.0003	0.00035	0.021	0.00007	0.069	0.0717	0.00035	0.004	0.062	0.00124	0.021	0.001	0.00021	0.00147	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0325	0.003
25-Oct-2019	0.038	0.00035	0.01165	0.0013	0.00035	0.021	0.00076	0.194	0.0724	0.00035	0.007	0.104	0.00408	0.021	0.002	0.00021	0.002	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00081	69.4	0.00035	0.014	0.014	0.1019	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
26-Nov-2019	0.014	0.00035	0.00035	0.0013	0.00035	0.021	0.00044	0.486	0.0669	0.00035	0.001	0.062	0.00099	0.021	0.001	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.264	0.00078	69.4	0.00035	0.014	0.014	0.0892	0.003
27-Nov-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00047	0.403	0.065	0.00035	0.001	0.075	0.002	0.021	0.005	0.00021	0.00097	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00035	69.4	0.00035	0.014	0.014	0.0646	0.003
28-Nov-2019	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00028	0.486	0.0521	0.00035	0.001	0.044	0.00076	0.021	0.001	0.00021	0.00108	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00081	69.4	0.00035	0.014	0.014	0.0511	0.003
24-Dec-2019	0.029	0.00035	0.00035	0.0015	0.00035	0.021	0.00007	0.431	0.0508	0.00035	0.001	0.049	0.00118	0.021	0.001	0.00021	0.00147	0.056	0.035	0.00035	0.139	0.00014	0.222	0.00086	69.4	0.00035	0.014	0.014	0.0746	0.003
25-Dec-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00017	0.417	0.065	0.00035	0.001	0.054	0.00258	0.021	0.003	0.00021	0.00286	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00076	69.4	0.00035	0.014	0.014	0.0807	0.003
27-Dec-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00035	0.319	0.0578	0.00035	0.001	0.049	0.00228	0.071	0.002	0.00021	0.00179	0.056	0.035	0.00035	0.292	0.00014	0.347	0.00101	69.4	0.00035	0.014	0.014	0.0676	0.003
30-Jan-2020	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.431	0.0461	0.00035	0.003	0.071	0.00231	0.021	0.002	0.00047	0.00101	0.056	0.035	0.00035	0.361	-	0.222	0.00035	69.4	0.00035	0.014	0.014	0.0487	0.003
31-Jan-2020	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00108	0.403	0.0647	0.00035	0.002	0.069	0.00147	0.021	0.002	0.00057	0.00099	0.056	0.035	0.00035	0.139	-	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0239	0.003
21-Feb-2020	0.029	0.00035	0.00035	0.0011	0.00035	0.021	0.00019	0.444	0.0594	0.00035	0.002	0.239	0.00142	0.021	0.003	0.00021	0.00129	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00083	69.4	0.00035	0.014	0.014	0.0540	0.003
25-Feb-2020	0.029	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.167	0.0839	0.00035	0.002	0.058	0.00097	0.021	0.002	0.00021	0.00271	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00089	69.4	0.00035	0.014	0.014	0.0326	0.003
26-Feb-2020	0.031	0.00035	0.00035	0.0010	0.00035	0.021	0.00029	0.292	0.0642	0.00035	0.001	0.064	0.00035	0.021	0.001	0.00021	0.00124	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00085	69.4	0.00035	0.014	0.014	0.0296	0.003
26-Mar-2020	0.031	0.00035	0.00035	0.0018	0.00035	0.021	0.00033	0.819	0.0785	0.00035	0.001	0.061	0.00124	0.021	0.002	0.00021	0.00115	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00112	69.4	0.00035	0.014	0.014	0.0475	0.003
24-Apr-2020	0.028	0.00035	0.00035	0.0013	0.00035	0.021	0.00458	0.458	0.0771	0.00035	0.000	0.096	0.00118	0.021	0.002	0.00021	0.00164	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00117	69.4	0.00035	0.014	0.014	0.1114	0.003
28-Apr-2020	0.031	0.00035	0.00035	0.0013	0.00035	0.021	0.00042	0.431	0.0821	0.00035	0.001	0.072	0.00176	0.021	0.002	0.00021	0.00082	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00103	69.4	0.00035	0.014	0.014	0.1288	0.003
29-Apr-2020	0.033	0.00035	0.00035	0.0013	0.00035	0.021	0.00025	0.472	0.0435	0.00035	0.001	0.137	0.00307	0.043	0.003	0.00021	0.00231	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00106	69.4	0.00035	0.014	0.014	0.1500	0.003
27-May-2020	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00017	0.403	0.0686	0.00035	0.001	0.065	0.00097	0.021	0.001	0.00021	0.00139	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00108	69.4	0.00035	0.014	0.014	0.0035	0.003
29-May-2020	0.050	0.00035	0.00035	0.0032	0.00035	0.021	0.00007	0.444	0.0665	0.00035	0.006	0.104	0.00917	0.044	0.008	0.00021	0.00119	0.056	0.118	0.00035	0.139	0.00014	0.139	0.00104	69.4	0.00035	0.014	0.014	0.0090	0.003
25-Jun-2020	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00015	0.486	0.0876	0.00035	0.001	0.053	0.00143	0.021	0.002	0.00021	0.00150	0.056	0.035	0.00035	0.139	0.00014	0.306	0.00096	69.4	0.00035	0.014	0.014	0.0035	0.003
30-Jun-2020	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.375	0.0704	0.00035	0.001	0.054	0.00204	0.021	0.004	0.00021	0.00122	0.056	0.088	0.00035	0.139	0.00014	0.153	0.00117	69.4	0.00035	0.014	0.014	0.0075	0.003
30-Jul-2020	0.071	0.00035	0.00075	0.0014	0.00035	0.021	0.00033	0.250	0.0640	0.00035	0.005	0.218	0.01736	0.042	0.012	0.00021	0.00269	0.056	0.158	0.00035	0.139	0.00014	0.486	0.00118	69.4	0.00035	0.014	0.014	0.0224	0.003
26-Aug-2020	0.035	0.00035	0.00035	0.0014	0.00035	0.021	0.00029	0.139	0.0651	0.00035	0.002	0.065	0.00532	0.021	0.008	0.00146	0.00212	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00082	69.4	0.00035	0.014	0.014	0.0117	0.003
27-Aug-2020	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00007	0.069	0.0575	0.00035	0.001	0.021	0.00246	0.021	0.003	0.00021	0.00100	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
28-Aug-2020	0.014	0.00035	0.00035	0.0013	0.00035	0.021	0.00007	0.069	0.0633	0.00035	0.001	0.047	0.00578	0.021	0.004	0.00021	0.00175	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0083	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
02-Sep-2020	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00007	0.375	0.0426	0.00035	0.002	0.081	0.00514	0.021	0.011	0.00021	0.00154	0.056	0.035	0.00035	0.500	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0231	0.003
04-Sep-2020	0.065	0.00035	0.00099	0.0038	0.00035	0.021	0.00024	0.514	0.0514	0.00035	0.003	0.232	0.01694	0.053	0.014	0.00021	0.00197	0.056	0.076	0.00035	0.514	0.00014	0.194	0.00172	69.4	0.00035	0.014	0.014	0.0374	0.003
06-Sep-2020	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00074	0.375	0.0554	0.00035	0.003	0.097	0.00535	0.021	0.023	0.00021	0.00156	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00101	69.4	0.00035	0.014	0.014	0.0239	0.003
06-Oct-2020	0.108	0.00151	0.00035	0.0036	0.00035	0.021	0.00015	0.625	0.0679	0.00035	0.001	0.072	0.00503	0.049	0.006	0.00021	0.00157	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00349	69.4	0.00035	0.014	0.014	0.0458	0.003
07-Oct-2020	0.112	0.00147	0.00035	0.0027	0.00035	0.021	0.00083	0.639	0.0568	0.00035	0.002	0.064	0.00401	0.050	0.003	0.00021	0.00178	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00332	69.4	0.00035	0.014	0.014	0.0551	0.003
08-Oct-2020	0.114	0.00143	0.00035	0.0033	0.00035	0.021	0.00007	0.639	0.0847	0.00035	0.002	0.117	0.00315	0.054	0.003	0.00021	0.00144	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00350	69.4	0.00131	0.014	0.014	0.0510	0.003
07-Dec-2020	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00025	0.431	0.0858	0.00035	0.002	0.124	0.01349	0.021	0.004	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00078	69.4	0.00251	0.014	0.014	0.0293	0.003
08-Dec-2020	0.290	0.00071	0.00035	0.0023	0.00035	0.021	0.00026	0.597	0.0747	0.00035	0.004	0.156	0.04722	0.043	0.013	0.00099	0.01243	0.056	0.035	0.00035	0.139	0.00046	0.250	0.00133	69.4	0.00110	0.014	0.014	0.0824	0.003
11-Dec-2020	0.014	0.00301	0.00336	0.0009	0.00035	0.021	0.00165	0.431	0.0774	0.00035	0.003	0.071	0.02569	0.050	0.002	0.00050	0.00186	0.056	0.035	0.00035	0.139	0.00014	0.236	0.00122	69.4	0.00379	0.014	0.014	0.1431	0.003

* Criteria effective on July 1, 2016

ATTACHMENT A5

METAL CONCENTRATIONS (24-HOUR), TSP-3, DEC. 2014 – DEC. 2020

Table A-5: Metal Concentrations (24-Hour), TSP-3, December 2014 – December 2020

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		25	0.3	10	0.01	120	0.025		0.5	0.1	50	4	0.5		0.4	120	2			10		1		120		10	120	2	120	
12-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0958	0.03472	0.035	0.367	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.319	0.0972	0.03472	0.035	0.315	0.05556	0.021	0.021	0.03472	0.03472	0.208	0.694	0.03472	1.097	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.272	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.611	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.339	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.569	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.569	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.064	0.01389	0.431	0.0903	0.03472	0.035	0.325	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.1306	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.972	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.147	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0556	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.317	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.289	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.332	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1181	0.03472	0.035	0.433	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
21-May-2015	2.583	0.13889	0.05556	0.0212	0.00556	0.218	0.01389	6.417	0.0208	0.03472	0.035	0.247	0.05556	0.510	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.15139	0.1	0.05556	0.014	0.021	0.0514	0.035
22-May-2015	2.097	0.13889	0.05556	0.0178	0.00556	0.165	0.01389	5.083	0.0208	0.03472	0.035	0.238	0.05556	0.421	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.12014	0.1	0.05556	0.014	0.021	0.0403	0.035
23-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0500	0.03472	0.035	0.274	0.05556	0.071	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
24-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0500	0.03472	0.035	0.332	0.05556	0.106	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
16-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.214	0.05556	0.075	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.333	0.0486	0.03472	0.035	0.228	0.05556	0.082	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0569	0.03472	0.035	0.157	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.128	0.05556	0.057	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.082	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0417	0.03472	0.035	0.254	0.05556	0.071	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.119	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0417	0.03472	0.035	0.311	0.05556	0.060	0.070	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0556	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
16-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0500	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m ³	Antimony (Sb), total µg/m ³	Arsenic (As), total µg/m ³	Barium (Ba), total µg/m ³	Beryllium (Be), total µg/m ³	Boron (B), total µg/m ³	Cadmium (Cd), total µg/m ³	Calcium (Ca), total µg/m ³	Chromium (Cr), total µg/m ³	Cobalt (Co), total µg/m ³	Copper (Cu), total µg/m ³	Iron (Fe), total µg/m ³	Lead (Pb), total µg/m ³	Magnesium (Mg), total µg/m ³	Manganese (Mn), total µg/m ³	Molybdenum (Mo), total µg/m ³	Nickel (Ni), total µg/m ³	Phosphorus (P), total µg/m ³	Potassium (K), total µg/m ³	Selenium (Se), total µg/m ³	Silicon (Si), total µg/m ³	Silver (Ag), total µg/m ³	Sodium (Na), total µg/m ³	Strontium (Sr), total µg/m ³	Sulphur (S), total µg/m ³	Tin (Sn), total µg/m ³	Titanium (Ti), total µg/m ³	Vanadium (V), total µg/m ³	Zinc (Zn), total µg/m ³	Zirconium (Zr), total µg/m ³
19-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.0806	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
06-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0694	0.03472	0.035	0.136	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
10-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.583	0.0458	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.101	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.081	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.986	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.060	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.528	0.0875	0.03472	0.035	0.165	0.05556	0.069	0.012	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
09-Aug-2016	0.082	0.00035	0.00035	0.0015	0.00035	0.021	0.00036	0.542	0.1021	0.00035	0.003	0.201	0.00526	0.046	0.007	0.00021	0.00299	0.056	0.193	0.00035	0.139	0.00014	0.319	0.00329		0.00035	0.014	0.014	0.0092	0.003
10-Aug-2016	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00015	0.514	0.0928	0.00035	0.001	0.021	0.00092	0.021	0.005	0.00147	0.00089	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00258		0.00035	0.014	0.014	0.0035	0.003
11-Aug-2016	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00014	0.556	0.1211	0.00035	0.026	0.021	0.00128	0.046	0.001	0.00021	0.00167	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00200		0.00185	0.014	0.014	0.0153	0.003
28-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2016	1.833	0.13889	0.05556	0.0153	0.00556	0.124	0.01389	4.333	0.0861	0.03472	0.035	0.071	0.05556	0.353	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.11639	0.1	0.05556	0.014	0.021	0.0389	0.035
30-Sep-2016	2.778	0.13889	0.05556	0.0236	0.00556	0.189	0.01389	6.181	0.0958	0.03472	0.035	0.249	0.05556	0.553	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.17500	0.1	0.05556	0.014	0.021	0.0542	0.035
05-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1111	0.03472	0.035	0.272	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0403	0.035
07-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1083	0.03472	0.035	0.167	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0306	0.035
10-Oct-2016	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.01389	0.319	0.1069	0.03472	0.035	0.514	0.05556	0.115	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1444	0.035
26-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.044	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0875	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.104	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01042	0.1	0.05556	0.014	0.021	0.0500	0.035
27-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0931	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1111	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1181	0.03472	0.035	0.089	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.085	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0750	0.03472	0.035	0.153	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.129	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
20-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1319	0.03472	0.035	0.247	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0917	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.139	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1583	0.03472	0.035	0.192	0.05556	0.021	0.012	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.232	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.1069	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0764	0.03472	0.035	0.042	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.1458	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1431	0.03472	0.035	0.125	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1306	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.458	0.0792	0.03472	0.035	0.060	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.500	0.0847	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.694	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0972	0.03472	0.035	0.082	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.569	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0764	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0875	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0917	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0431	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
21-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0847	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0681	0.03472	0.035	0.076	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0583	0.03472	0.035	0.047	0.05556	0.042	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
05-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0708	0.03472	0.035	0.074	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
27-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jun-2018	0.143	0.00035	0.00035	0.0014	0.00035	0.021	0.00151	0.458	0.0733	0.00035	0.002	0.056	0.00083	0.121	0.002	0.00046	0.00160	0.056	0.035	0.00035	0.139	0.00014	0.250	0.00085	69.4	0.00035	0.014	0.014	0.0107	0.003
06-Jun-2018	0.047	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.417	0.0403	0.00035	0.001	0.076	0.00035	0.049	0.002	0.00021	0.00192	0.056	0.035	0.00035	0.139	0.00014	0.250	0.00225	69.4	0.00035	0.014	0.014	0.0035	0.003
08-Jun-2018	0.071	0.00035	0.00035	0.0010	0.00035	0.021	0.00007	0.417	0.0785	0.00035	0.003	0.056	0.00035	0.076	0.002	0.00021	0.00153	0.056	0.035	0.00035	0.139	0.00014	0.292	0.00121	69.4	0.00035	0.014	0.014	0.0075	0.003
17-Jul-2018	0.061	0.00035	0.00035	0.0015	0.00035	0.021	0.00014	0.222	0.0507	0.00035	0.010	0.058	0.00318	0.021	0.009	0.00021	0.00115	0.056	0.171	0.00035	0.139	0.00014	0.306	0.00035	69.4	0.00035	0.014	0.014	0.0111	0.003
18-Jul-2018	0.038	0.00035	0.00035	0.0067	0.00035	0.021	0.00007	0.264	0.0340	0.00035	0.001	0.143	0.00082	0.021	0.003	0.00021	0.00131	0.056	0.035	0.00035	0.292	0.00014	0.194	0.00089	69.4	0.00035	0.014	0.014	0.0072	0.003
24-Jul-2018	0.067	0.00035	0.00035	0.0018	0.00035	0.021	0.00007	0.264	0.0378	0.00035	0.002	0.165	0.00481	0.049	0.005	0.00021	0.00171	0.056	0.035	0.00035	0.139	0.00014	0.306	0.00082	69.4	0.00035	0.014	0.014	0.0035	0.003
18-Aug-2018	0.047	0.00035	0.00035	0.0019	0.00035	0.021	0.00007	0.222	0.0351	0.00035	0.001	0.075	0.00115	0.021	0.002	0.00021	0.00125	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00088	69.4	0.00035	0.014	0.014	0.0083	0.003
20-Aug-2018	0.061	0.00035	0.00035	0.0030	0.00035	0.021	0.00007	0.250	0.0508	0.00035	0.003	0.112	0.00107	0.021	0.002	0.00021	0.00206	0.056	0.035	0.00035	0.139	0.00014	0.236	0.00083	69.4	0.00035	0.014	0.014	0.0035	0.003
21-Aug-2018	0.054	0.00035	0.00035	0.0014	0.00035	0.021	0.00018	0.208	0.0408	0.00035	0.002	0.094	0.00132	0.021	0.002	0.00021	0.00257	0.056	0.035	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
02-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0875	0.035
03-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0472	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.1319	0.035
05-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0444	0.03472	0.035	0.021	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0611	0.035
25-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
26-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0764	0.03472	0.035	0.106	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1861	0.035
30-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1722	0.035
07-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.500	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
09-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0750	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	1.472	0.00208	0.3	0.05556	0.014	0.021	0.1208	0.035
15-Nov-2018	0.139	0.13889	0.05556	0.0049	0.00556	0.021	0.01389	0.486	0.0875	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1764	0.035
18-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.500	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0625	0.035
15-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.099	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0361	0.035
26-Feb-2019	0.033	0.00035	0.00035	0.0012	0.00035	0.021	0.031810	0.389	0.0768	0.00035	0.001	0.240	0.00100	0.021	0.002	0.00021	0.00132	0.056	0.035	0.00035	0.208	0.00014	0.069	0.00106	0.3	0.00035	0.014	0.014	0.0735	0.003
27-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0750	0.03472	0.035	0.050	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2306	0.035
28-Feb-2019	0.139	0.13889	0.05556	0.0053	0.00556	0.021	0.01389	0.472	0.0903	0.03472	0.035	0.143	0.05556	0.054	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	1.0	0.05556	0.014	0.021	0.6472	0.035
05-Mar-2019	0.028	0.00035	0.00035	0.0014	0.00035	0.021	0.00017	0.444	0.0782	0.00035	0.001	0.053	0.00083	0.043	0.001	0.00021	0.00100	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00086	69.4	0.00035	0.014	0.014	0.0392	0.003
06-Mar-2019	0.029	0.00035	0.00035	0.0011	0.00035	0.021	0.00039	0.417	0.0774	0.00035	0.001	0.046	0.00247	0.021	0.002	0.00021	0.00164	0.056	0.074	0.00035	0.139	0.00014	0.139	0.00114	69.4	0.00088	0.014	0.014	0.0368	0.003
07-Mar-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00026	0.486	0.0768	0.00035	0.001	0.051	0.00140	0.044	0.001	0.00021	0.00136	0.056	0.200	0.00035	0.139	0.00014	0.375	0.00133	69.4	0.00035	0.014	0.014	0.0375	0.003
20-Apr-2019	0.046	0.00035	0.00035	0.0014	0.00035	0.021	0.00974	0.542	0.0864	0.00035	0.001	0.175	0.00168	0.051	0.002	0.00021	0.00108	0.056	0.035	0.00035	0.139	0.00014	0.389	0.00099	69.4	0.00035	0.014	0.014	0.4514	0.003
24-Apr-2019	0.014	0.00035	0.00035	0.0022	0.00035	0.021	0.00007	0.514	0.0646	0.00035	0.000	0.068	0.00099	0.021	0.005	0.00053	0.00186	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00094	69.4	0.00035	0.014	0.014	0.1279	0.003
30-Apr-2019	0.036	0.00035	0.00035	0.0018	0.00035	0.021	0.00014	0.528	0.0631	0.00035	0.000	0.054	0.00125	0.050	0.003	0.00043	0.00085	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00093	69.4	0.00035	0.014	0.014	0.1265	0.003
01-May-2019	0.036	0.00035	0.00035	0.0034	0.00035	0.021	0.00015	0.069	0.0668	0.00035	0.001	0.064	0.00035	0.021	0.001	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00079	69.4	0.00035	0.014	0.014	0.0035	0.003
08-May-2019	0.049	0.00035	0.00035	0.0014	0.00035	0.021	0.00028	0.139	0.0769	0.00035	0.001	0.089	0.00083	0.021	0.002	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0076	0.003
09-May-2019	0.040	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.139	0.0771	0.00035	0.001	0.062	0.00071	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-2019	0.060	0.00035	0.00035	0.0022	0.00035	0.021	0.00146	0.472	0.0808	0.00035	0.002	0.124	0.00183	0.047	0.005	0.00042	0.00239	0.056	0.207	0.00035	0.139	0.00014	0.361	0.00107	69.4	0.00035	0.014	0.014	0.0560	0.003
21-Jul-2019	0.014	0.00035	0.00035	0.0021	0.00035	0.021	0.00051	0.486	0.0793	0.00035	0.001	0.089	0.00161	0.044	0.006	0.00104	0.00174	0.056	0.110	0.00035	0.139	0.00014	0.139	0.00079	69.4	0.00035	0.014	0.014	0.0569	0.003
30-Jul-2019	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.347	0.0747	0.00035	0.001	0.021	0.00035	0.021	0.000	0.00021	0.00142	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.0756	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
31-Jul-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.444	0.0935	0.00035	0.001	0.060	0.00086	0.021	0.001	0.00021	0.00124	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00035	69.4	0.00035	0.014	0.014	0.0511	0.003
22-Aug-2019	0.039	0.00035	0.00035	0.0013	0.00035	0.021	0.00007	0.194	0.0901	0.00035	0.001	0.090	0.00175	0.021	0.001	0.00021	0.00150	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0228	0.003
27-Aug-2019	0.050	0.00035	0.00035	0.0016	0.00035	0.021	0.00018	0.069	0.0746	0.00035	0.001	0.104	0.00139	0.021	0.002	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
30-Aug-2019	0.064	0.00035	0.00035	0.0017	0.00035	0.021	0.00017	0.069	0.0865	0.00035	0.002	0.125	0.00379	0.021	0.004	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0283	0.003
24-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00018	0.069	0.0665	0.00035	0.001	0.043	0.00076	0.021	0.000	0.00021	0.00146	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0228	0.003
25-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00014	0.069	0.0750	0.00035	0.001	0.071	0.00215	0.021	0.002	0.00021	0.00157	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
27-Sep-2019	0.036	0.00035	0.00088	0.0011	0.00035	0.021	0.00019	0.069	0.0599	0.00035	0.001	0.088	0.00157	0.021	0.002	0.00021	0.00101	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0262	0.003
24-Oct-2019	0.032	0.00035	0.00117	0.0012	0.00035	0.021	0.00007	0.069	0.0722	0.00035	0.007	0.060	0.00035	0.021	0.001	0.00021	0.00129	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.3500	0.003
25-Oct-2019	0.033	0.00035	0.00635	0.0003	0.00035	0.021	0.00007	0.069	0.0785	0.00035	0.004	0.060	0.00468	0.021	0.002	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0469	0.003
29-Oct-2019	0.028	0.00035	0.00768	0.0007	0.00035	0.021	0.00007	0.069	0.0779	0.00035	0.004	0.054	0.00074	0.021	0.002	0.00021	0.00167	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.1299	0.003
27-Nov-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00021	0.417	0.0640	0.00035	0.002	0.043	0.00035	0.021	0.000	0.00042	0.00107	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00086	69.4	0.00035	0.014	0.014	0.0462	0.003
29-Nov-2019	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00051	0.458	0.0482	0.00035	0.003	0.060	0.00035	0.021	0.001	0.00062	0.00085	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00035	69.4	0.00035	0.014	0.014	0.0462	0.003
24-Dec-2019	0.036	0.00035	0.00035	0.0014	0.00035	0.021	0.01286	0.514	0.0525	0.00035	0.002	0.076	0.00222	0.021	0.004	0.00021	0.00267	0.056	0.035	0.00035	0.444	0.00014	0.167	0.00072	69.4	0.00035	0.014	0.014	0.0761	0.003
25-Dec-2019	0.040	0.00035	0.00035	0.0012	0.00035	0.021	0.00028	0.403	0.0569	0.00035	0.002	0.075	0.00200	0.021	0.002	0.00021	0.00235	0.056	0.035	0.00035	0.431	0.00014	0.139	0.00075	69.4	0.00035	0.014	0.014	0.0654	0.003
27-Dec-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00076	0.444	0.0654	0.00035	0.001	0.021	0.00035	0.050	0.001	0.00021	0.00108	0.056	0.035	0.00035	0.403	0.00014	0.194	0.00090	69.4	0.00035	0.014	0.014	0.0643	0.003
21-Feb-2020	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.458	0.0682	0.00035	0.002	0.074	0.00097	0.021	0.001	0.00021	0.00167	0.056	0.035	0.00035	0.139	0.00014	0.250	0.00075	69.4	0.00035	0.014	0.014	0.0400	0.003
25-Feb-2020	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00007	0.264	0.0843	0.00035	0.001	0.053	0.00035	0.021	0.001	0.00021	0.00139	0.056	0.035	0.00035	0.542	0.00014	0.250	0.00035	69.4	0.00035	0.014	0.014	0.0246	0.003
26-Feb-2020	0.028	0.00035	0.00035	0.0009	0.00035	0.021	0.00042	0.069	0.0818	0.00035	0.001	0.062	0.00035	0.021	0.001	0.00021	0.00111	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0261	0.003
26-Mar-2020	0.014	0.00035	0.00035	0.0014	0.00035	0.021	0.00053	0.417	0.0661	0.00035	0.001	0.068	0.00035	0.060	0.001	0.00021	0.00101	0.056	0.035	0.00035	0.139	0.00014	0.278	0.00099	69.4	0.00035	0.014	0.014	0.1708	0.003
31-Mar-2020	0.033	0.00035	0.00035	0.0013	0.00035	0.021	0.00007	0.375	0.0543	0.00035	0.001	0.069	0.00181	0.044	0.002	0.00021	0.00121	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00082	69.4	0.00035	0.014	0.014	0.0858	0.003
24-Apr-2020	0.033	0.00035	0.00035	0.0014	0.00035	0.021	0.00015	0.431	0.0789	0.00035	0.001	0.075	0.00128	0.021	0.001	0.00021	0.00103	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00100	69.4	0.00035	0.014	0.014	0.2125	0.003
29-Apr-2020	0.054	0.00035	0.00035	0.0017	0.00035	0.021	0.00017	0.528	0.0762	0.00035	0.001	0.088	0.00097	0.021	0.002	0.00043	0.00093	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00132	69.4	0.00035	0.014	0.014	0.4125	0.003
27-May-2020	0.032	0.00035	0.00035	0.0010	0.00035	0.021	0.00024	0.389	0.0781	0.00035	0.001	0.047	0.00088	0.021	0.001	0.00021	0.00119	0.056	0.075	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0114	0.003

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m³	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
29-May-2020	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.389	0.0532	0.00035	0.001	0.047	0.00153	0.021	0.001	0.00021	0.00094	0.056	0.035	0.00035	0.347	0.00014	0.153	0.00081	69.4	0.00035	0.014	0.014	0.0035	0.003
30-Jul-2020	0.040	0.00035	0.00035	0.0008	0.00035	0.021	0.00017	0.069	0.0635	0.00035	0.001	0.065	0.00114	0.021	0.003	0.00021	0.00126	0.056	0.112	0.00035	0.139	0.00014	0.069	0.00072	69.4	0.00035	0.014	0.014	0.0114	0.003
26-Aug-2020	0.028	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.069	0.0572	0.00035	0.002	0.021	0.00076	0.021	0.001	0.00021	0.00149	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0128	0.003
27-Aug-2020	0.031	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.069	0.0656	0.00035	0.002	0.021	0.00125	0.021	0.001	0.00021	0.00135	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00861	0.014	0.014	0.0035	0.003
28-Aug-2020	0.031	0.00035	0.00035	0.0015	0.00035	0.021	0.00007	0.139	0.0749	0.00035	0.004	0.043	0.00035	0.021	0.001	0.00021	0.00179	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00035	69.4	0.00035	0.014	0.014	0.0183	0.003
02-Sep-2020	0.043	0.00035	0.00035	0.0018	0.00035	0.021	0.00017	0.417	0.0786	0.00035	0.003	0.103	0.00275	0.021	0.007	0.00021	0.00192	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00122	69.4	0.00035	0.014	0.014	0.0315	0.003
04-Sep-2020	0.014	0.00035	0.00035	0.0015	0.00035	0.021	0.00007	0.389	0.0817	0.00035	0.001	0.049	0.00107	0.021	0.001	0.00021	0.00236	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00093	69.4	0.00035	0.014	0.014	0.0257	0.003
06-Sep-2020	0.029	0.00035	0.00035	0.0010	0.00035	0.021	0.00015	0.431	0.0796	0.00035	0.002	0.094	0.00401	0.021	0.005	0.00021	0.00153	0.056	0.035	0.00035	0.306	0.00014	0.069	0.00089	69.4	0.00035	0.014	0.014	0.0243	0.003
06-Oct-2020	0.117	0.00132	0.00035	0.0023	0.00035	0.021	0.00007	0.611	0.0792	0.00035	0.002	0.071	0.00244	0.053	0.002	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00321	69.4	0.00156	0.014	0.014	0.0429	0.003
07-Oct-2020	0.107	0.00131	0.00035	0.0036	0.00035	0.021	0.00007	0.597	0.0656	0.00035	0.001	0.058	0.00142	0.051	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.403	0.00014	0.069	0.00353	69.4	0.00071	0.014	0.014	0.0482	0.003
08-Oct-2020	0.115	0.00138	0.00035	0.0023	0.00035	0.021	0.00007	0.569	0.0608	0.00035	0.001	0.067	0.00078	0.050	0.001	0.00021	0.00129	0.056	0.035	0.00035	0.306	0.00014	0.069	0.00319	69.4	0.00035	0.014	0.014	0.0519	0.003

* Criteria effective on July 1, 2016

ATTACHMENT B

STATISTICAL TESTS RESULTS

Table B-1: Non-parametric (Kruskal-Wallis) test results for dust metals data from 2020 only

Parameter	Non-parametric	Median		
	Kruskal-Wallis p-value	TSP-1	TSP-2	TSP-3
Al	0.422349	0.0375	0.029	0.031
Sb	0.778166	0.00035	0.00035	0.00035
As	0.286047	0.00035	0.00035	0.00035
Ba	0.632262	0.001	0.0012	0.0013
Be	0.149123	0.00035	0.00035	0.00035
B	NA	0.021	0.021	0.021
Cd	0.034627	0.000175	0.000245	7.00E-05
Ca	0.541338	0.417	0.431	0.389
Cr	0.568231	0.0678	0.0658	0.0749
Co	0.149123	0.00035	0.00035	0.00035
Cu	0.389876	0.0015	0.002	0.001
Fe	0.083932	0.0625	0.0715	0.065
Pb	0.000713	0.00331	0.00311	0.00107
Mg	0.624293	0.021	0.021	0.021
Mn	0.000851	0.0025	0.003	0.001
Mo	0.361227	0.00021	0.00021	0.00021
Ni	0.246745	0.00151	0.00155	0.00129
P	0.149123	0.056	0.056	0.056
K	0.808766	0.035	0.035	0.035
Se	0.149123	0.00035	0.00035	0.00035
Si	1.69E-05	0.41	0.139	0.139
Ag	0.443747	0.00014	0.00014	0.00014
Na	0.702923	0.153	0.153	0.069
Sr	0.517498	0.000955	0.001035	0.00083
S	0.149123	69.4	69.4	69.4
Sn	0.366582	0.00035	0.00035	0.00035
Ti	NA	0.014	0.014	0.014
V	0.149123	0.014	0.014	0.014
Zn	0.668899	0.02495	0.0311	0.0261
Zr	0.149123	0.003	0.003	0.003

Bold values $p < 0.05$

Table B-2: Non-parametric (Kruskal-Wallis) test results for dust metals data from all years (2012 – 2020)

Parameter	Non-parametric	Median		
	Kruskal-Wallis p-value	TSP-1	TSP-2	TSP-3
Al	0.025416	0.139	0.139	0.139
Sb	0.028691	0.13889	0.13889	0.13889
As	0.017637	0.05556	0.05556	0.05556
Ba	0.051532	0.0021	0.0021	0.0021
Be	0.034864	0.00556	0.00556	0.00556
B	0.38253	0.021	0.021	0.021
Cd	0.023427	0.01389	0.01389	0.01389
Ca	0.480727	0.139	0.139	0.139
Cr	0.50275	0.075	0.07765	0.0764
Co	0.033896	0.03472	0.03472	0.03472
Cu	0.016759	0.035	0.035	0.035
Fe	3.45E-12	0.09	0.135	0.0645
Pb	0.000152	0.05556	0.05556	0.05556
Mg	0.048414	0.021	0.021	0.021
Mn	1.41E-09	0.006	0.006	0.006
Mo	0.041042	0.03472	0.03472	0.03472
Ni	0.021718	0.03472	0.03472	0.03472
P	0.034864	0.208	0.208	0.208
K	0.037776	0.694	0.694	0.694
Se	0.028194	0.03472	0.03472	0.03472
Si	0.012924	0.208	0.208	0.208
Ag	0.018328	0.02083	0.02083	0.02083
Na	0.262525	0.208	0.208	0.208
Sr	0.170782	0.00208	0.00208	0.00208
S	0.249775	0.1	0.1	0.1
Sn	0.030011	0.05556	0.05556	0.05556
Ti	0.716546	0.014	0.014	0.014
V	0.034864	0.021	0.021	0.021
Zn	0.005925	0.0139	0.0139	0.0139
Zr	0.034864	0.035	0.035	0.035

Bold values $p < 0.05$