

## **Appendix 12**

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### **Meadowbank 2018 Quarry 22 Report**

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**AGNICO EAGLE**

MEADOWBANK GOLD PROJECT

**2018 Quarry 22 Report**

Prepared by:  
Agnico Eagle Mines Limited – Meadowbank Division

March 2019

## EXECUTIVE SUMMARY

Following the AANDC inspection report in 2012, this report has been prepared to provide information regarding the clean-up of quarry 22:

- Explanation of presence of contaminated soil in quarry 22;
- Transfer of material to Meadowbank Landfarm;
- Sampling of the soil at quarry 22; and
- Next steps for the finalization of the decontamination.

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## **SECTION 1 • INTRODUCTION**

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### **1.1 BACKGROUND**

The AWAR (All Weather Access Road) is used to transport material, goods and petroleum products from the Baker Lake Marshalling Facility to the Meadowbank Mine Site. Quarries along the road were used as a source of road building aggregate during the construction phase of the AWAR. Quarry 22 (Q22) is one of these quarries and at this time it is anticipated that no additional materials will be taken from this quarry. Quarry 22 was also historically used as a temporary storage area for contaminated materials generated as a result of petroleum hydrocarbon spill clean-up activities prior to the establishment of the landfarm at the Meadowbank site. The site ceased to be used for this temporary storage when the Meadowbank Landfarm was completed in 2012. All contaminated material was removed from Quarry 22 and taken to the landfarm, located at the west end of the South Tailings Cell, in 2013. The remedial activity currently underway in Quarry 22 and described in this report consists of removal of contaminated materials, the commencement of pit wall sloping and confirmatory sampling of areas where material contaminated with petroleum hydrocarbons (PHC) was stored. The final reclamation of the quarries along AWAR will be done during the closure phase of the Meadowbank mine site as described in the Meadowbank Interim Reclamation and Closure Plan (SNC-LAVALIN INC., 2018).

It should be noted that this quarry site is located on Inuit Owned Land and is subject to the conditions of a KIA Land use lease.

### **1.2 OBJECTIVES**

This report summarizes the following aspects concerning Quarry 22:

- Presence of contaminated soil;
- Movement of contaminated soil;
- Analytical results; and
- Next steps in remediation.

## **SECTION 2 • QUARRY 22**

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Quarry 22 was used in the past for temporary storage of contaminated soil generated from petroleum hydrocarbon spills (diesel fuel, hydraulic oil, motor oil, etc.) that occurred during operations of the Meadowbank site and spills that occurred during construction of the last portions of the AWAR. An approved landfarm was completed and used at the Meadowbank site in 2012.

As a result of findings stated in an AANDC Water License inspection dated March 2012 Agnico Eagle prepared and submitted an action plan (dated June 2, 2012) to the Inspector. The Plan consisted of a two phased approach. The first phase included an assessment and delineation of any residual contamination as a result of the storage and the second phase consisted of removing identified contaminated soils and coarse rock to the Landfarm at Meadowbank.

In 2013 a total of 4,413 m<sup>3</sup> of soil and coarse material was removed from Q22. Approximately half of this (1,930 m<sup>3</sup>) was placed in the landfarm in windrows for soil decontamination. The remaining coarse material, which was not contaminated with PHC's, was placed in the Meadowbank Waste Rock Storage Area, located north of Portage Pit. Residual, uncontaminated coarse rocks were used as pit wall sloping in Q22 for progressive reclamation.

### **2.1 2018 ACTIONS**

Results from the September 2016 fall confirmatory sampling indicated some remnants of contamination when compared to the CCME remediation Criteria for Industrial Use of Coarse Material. Most of the contamination remaining was associated with Fraction 3 hydrocarbons. Therefore, Agnico proposed to scarify the remaining contaminated areas in Q22 during the summer of 2015 and 2016 and resample (see Q22 2016 report – 2016 Annual report) in 2018.

Taking into consideration the results from the 2014 to 2016 work plan, Agnico Eagle intended to continue to scarify the surface of Quarry 22, as in previous years, with the back-end of a grader, allowing ground surface to be aerated thus increasing degradation of PHC. However, because of repeated observation of Peregrine Falcon activity and nesting during our quarry inspections, we decided to limit all activity within the area, including scarification. This decision was taken to minimize impact on potential success of nesting for this species and therefore ensure proper conditions of nesting activity.

A sampling campaign was however completed late September to track the degradation of PHC with time. Results are shown in Section 3.

Regular inspections of the quarry were also performed during the year to ensure that runoff, if any, would be free of any visible sheen and would not impact the environment. No issues with runoff water inside the quarry were noted in 2018.

### **2.2 QUARRY 22 SAMPLING**

On September 25<sup>th</sup>, 2018, the Environment department sampled the soil from the substrate to further assess PHC degradation following the clean-up action since 2013 and to track rates of contamination reclamation.

As previously done in 2016, a grid was used to divide the quarry in portions representing areas where contaminated material had been stored (Appendix A). As such, areas from 0 to 1 represent a smaller sampling area in size as more contaminated material was stored in this area (towards back/walls). Size increased as areas move from 1 to 2 to 3. Portions from 3 and beyond represented the largest in area. The surface included any material that was used for sloping along the walls (see Section 2.1 above). This area sampling design was adopted to ensure that the soil characterization was well assessed; in particular, in the areas that received most of the contaminated material.

Within each separate area (Q22-1 to Q-22-8) a composite soil sample was collected from the surface at 30 centimeter intervals covering the whole area. This composite sample was collected in a clean plastic bag by an environmental technician in accordance with standard sampling techniques. The composite plastic bag was then thoroughly stirred and mixed. Following this, a 250 ml sample was obtained, placed in a standard glass sample bottle and sent to Agnico's accredited lab. Sampling instruments were cleaned between each sample event.

As such, to ensure consistency of results, the same grid was used in 2018 as in 2014 and 2016.

## SECTION 3 • RESULTS

Results from the 2018 sampling (Table 1) indicate some remnants of contamination when compared to the CCME remediation Criteria for Industrial use of Coarse material (see certificates in Appendix B). According to the results, the vast majority of contamination remaining is associated with Fraction 3 for which the CCME criteria is 1700 mg/Kg.

**Table 1 – Quarry 22 2018 sampling results**

	CCME Remediation criteria	Q-22-1	Q-22-2	Q-22-3	Q-22-4	Q-22-5	Q-22-6	Q-22-7	Q-22-8
<b>Fraction 1 (mg/Kg)</b>	<b>320</b>	0.71	<0.06	0.74	<0.06	<0.06	<0.06	<0.06	<0.06
<b>Fraction 2 (mg/Kg)</b>	<b>260</b>	52	16	<10	<10	<10	<10	<10	<10
<b>Fraction 3 (mg/Kg)</b>	<b>1700</b>	8800	5300	750	1700	170	1600	290	470
<b>Fraction 4 (mg/Kg)</b>	<b>3300</b>	2000	1400	230	480	73	500	110	160

Red Values are above the CCME criteria

When comparing results of 2018 with the sampling done in 2014 and 2016 (Table 2 and Figure 1-8), levels of contamination appear to be trending down. No more results are above CCME criteria for fraction 1, 2 and 4. Higher level is noted within fraction 3 in section Q-22-1 compared with 2016 which was the area that contained the bulk of historical contaminated material placed in the quarry.

An increased (compared to 2014) is noted within section Q-22-2 for fraction 3, but the result decrease in section Q-22-2 if the comparison is done with 2016 results.

These variations can be explained by the scarifying work done in 2015 and 2016 within the quarry that has spread material.

**Table 2 – Quarry 22 (2014, 2016 and 2018) sampling results**

Sample Location	Year 2014	Fraction 1	Fraction 2	Fraction 3	Fraction 4	Year 2016	Fraction 1	Fraction 2	Fraction 3	Fraction 4	Year 2018	Fraction 1	Fraction 2	Fraction 3	Fraction 4
<b>CCME remediation criteria (mg/Kg)</b>	<b>Sampling Date</b>	320	260	1700	3300	<b>Sampling Date</b>	320	260	1700	3300	<b>Sampling Date</b>	320	260	1700	3300
Q-22-1	7/11/2014	0.06	400	10000	1900	9/5/2016	0.06	99	7000	1400	9/25/2018	0.71	52	8800	2000
Q-22-2	7/11/2014	0.06	130	4600	1100	9/5/2016	0.06	110	8100	1600	9/25/2018	<0.06	16	5300	1400
Q-22-3	7/11/2014	0.06	10	1100	250	9/5/2016	0.06	58	3400	770	9/25/2018	0.74	<10	750	230
Q-22-4	7/11/2014	0.06	96	6800	1500	9/5/2016	0.06	37	2100	490	9/25/2018	<0.06	<10	1700	480
Q-22-5	7/11/2014	0.06	10	500	170	9/5/2016	0.06	<10	260	100	9/25/2018	<0.06	<10	170	73
Q-22-6	7/11/2014	0.06	10	1600	570	9/5/2016	0.06	<10	470	180	9/25/2018	<0.06	<10	1600	500
Q-22-7	7/11/2014	0.06	10	2200	520	9/6/2016	0.06	13	450	180	9/25/2018	<0.06	<10	290	110
Q-22-8	7/11/2014	0.06	37	3100	660	9/6/2016	0.2	<10	400	160	9/25/2018	<0.06	<10	470	160

Red Values are above the CCME criteria



Figure 1 – Comparative results 2014, 2016 and 2018 – Section Q-22-1

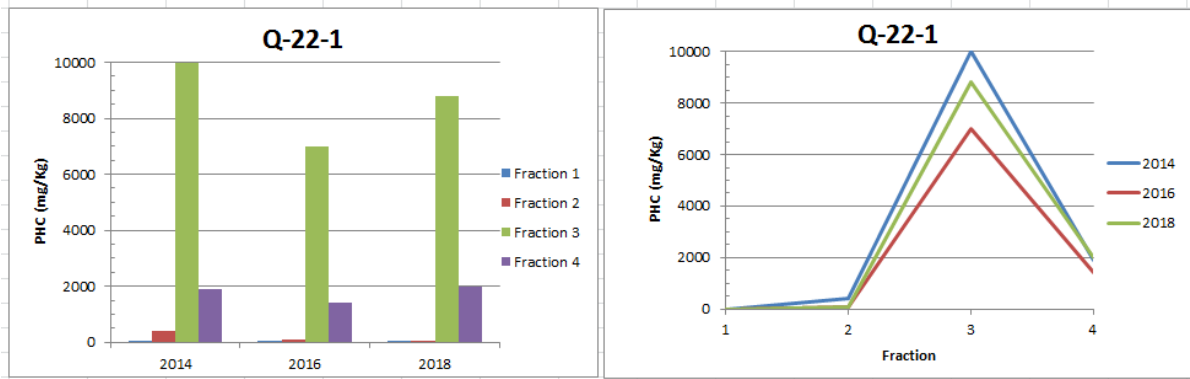


Figure 2 – Comparative results 2014, 2016 and 2018 – Section Q-22-2

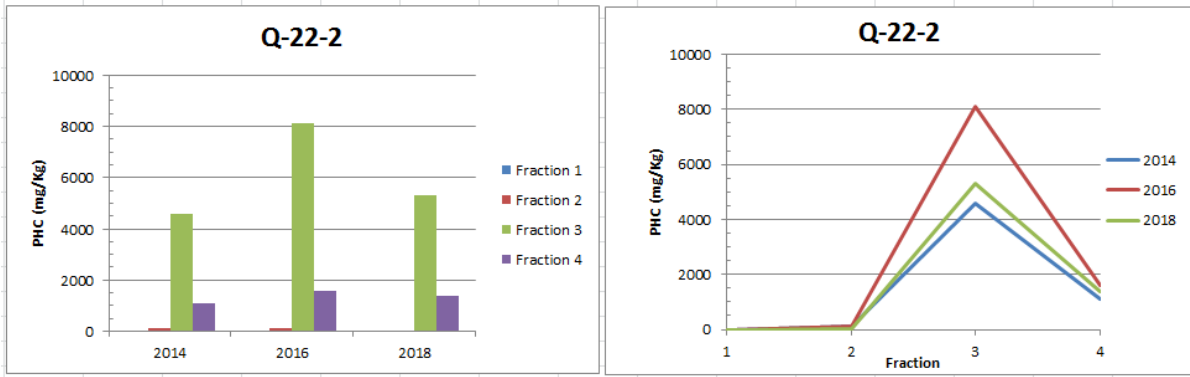


Figure 3 – Comparative results 2014, 2016 and 2018 – Section Q-22-3

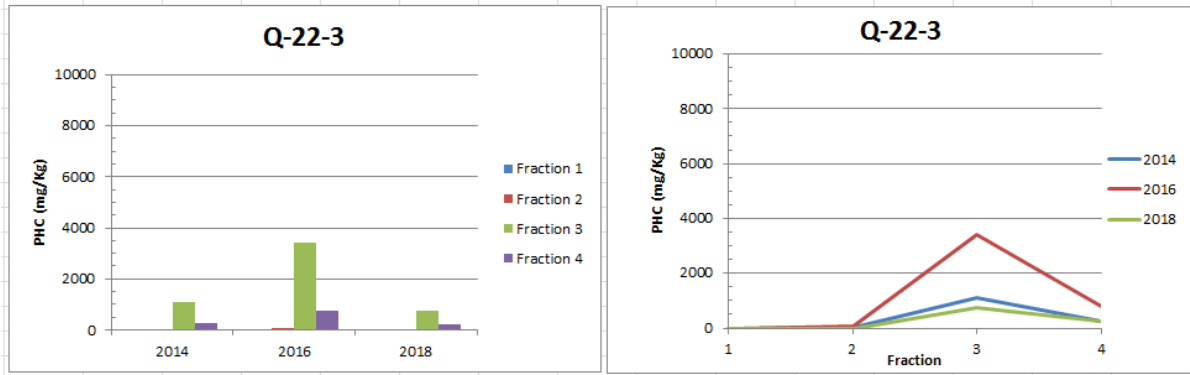


Figure 4 – Comparative results 2014, 2016 and 2018 – Section Q-22-4

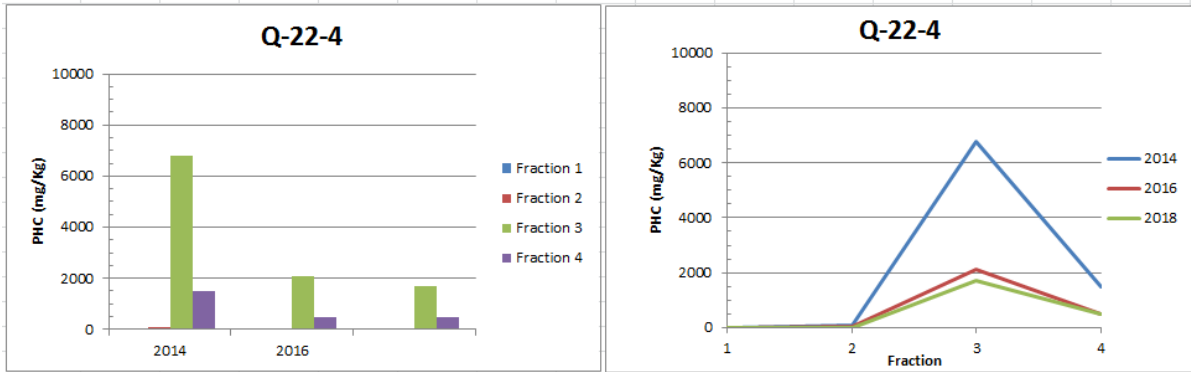


Figure 5 – Comparative results 2014, 2016 and 2018 – Section Q-22-5

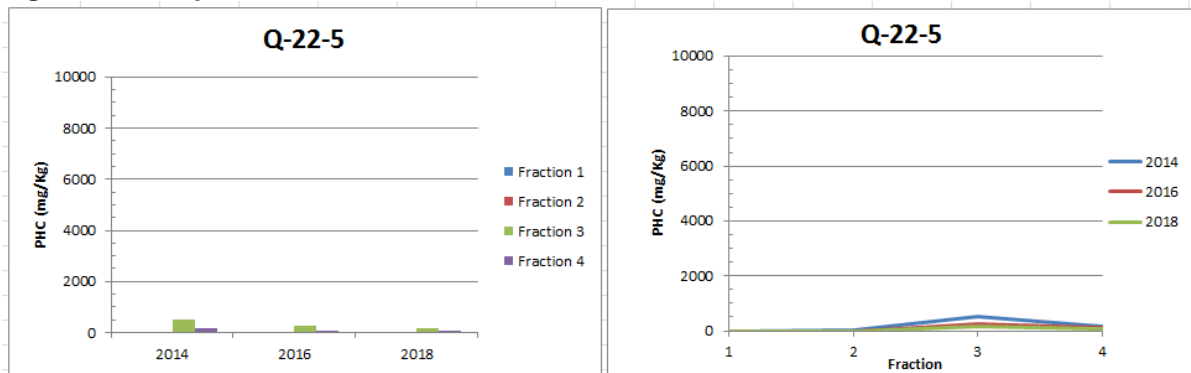


Figure 6 – Comparative results 2014, 2016 and 2018 – Section Q-22-6

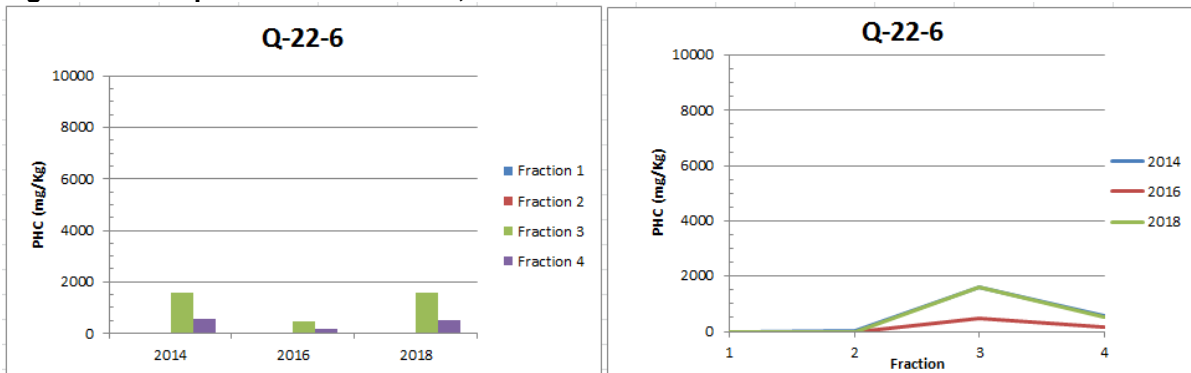


Figure 7 – Comparative results 2014, 2016 and 2018 – Section Q-22-7

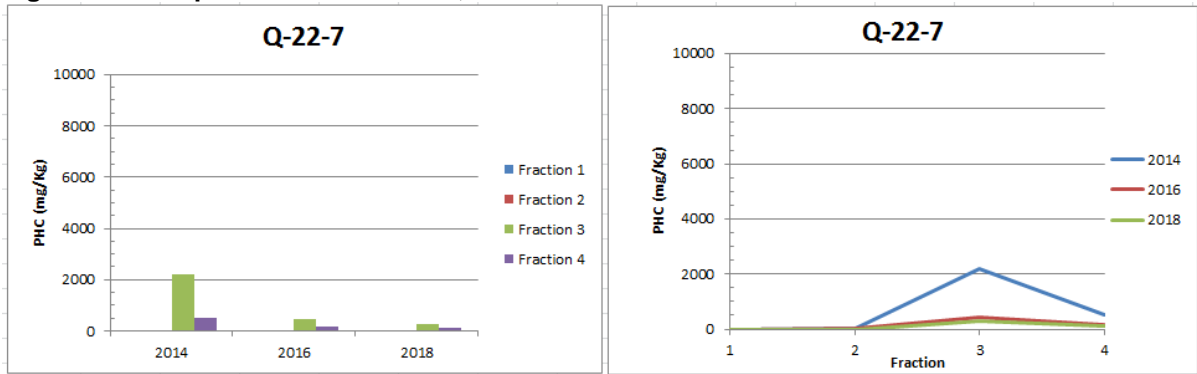
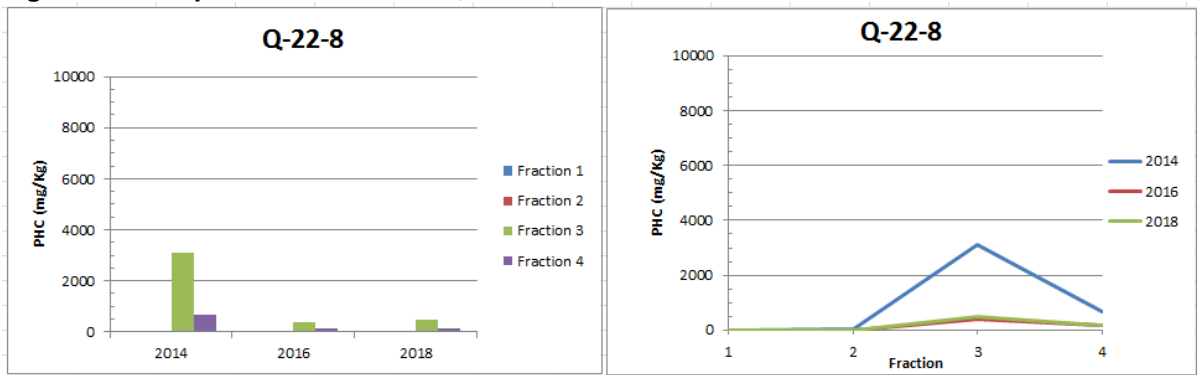


Figure 8 – Comparative results 2014, 2016 and 2018 – Section Q-22-8



## **SECTION 4 • CONCLUSION/RECOMMENDATION**

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Based on the degradation history of PHC's in the Meadowbank Landfarm and upon analysing results from the 2014, 2016 and 2018 Q22 soil sampling, Agnico Eagle is confident that the natural degradation of Petroleum Hydro Carbon (PHC) related products is an effective remediation method for the Q22.

In 2019, according to the peregrine falcon activity and nesting observation during the weekly quarry inspections, Agnico will evaluate if the work could be completed without disturbance to wildlife. If needed, the area could be limited to any activity in order to ensure adequate bird protection and management. If no repeated peregrine falcon presences are observed, Agnico proposes to continue scarifying the surface areas in Q22 during the summer of 2019. According to the last sampling campaign, the main focus should be on fraction 3 and efforts should be deployed especially in section Q-22-1 and Q22-2 as they are the only two results above the CCME criteria. However, if a peregrine falcon family establish their nest in the quarry, Agnico will simply postpone the scarification in late September before the freeze up season in order to let the birds leave the nest without disturbance.

Another round of sampling is planned in late fall in 2019. Results will then be compared to the previous data (2014, 2016 and 2018) to monitor the level of degradation. Based on the soil sampling campaign, Agnico will analyse the next actions to be taken. If needed, further course of action could include removal of additional material. Nonetheless, Agnico considers the actual methodology to be a satisfactory solution to the remediation of the quarry

Agnico will also ensure that runoff (if any) will stay within the site of the quarry during freshet and thus not impact any watercourses and/or the environment. This item is part of our weekly AWAR inspection. To date there have not been any impacts to water outside of this quarry.

## **Appendix A**

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### **Area Delimitation – Quarry 22**

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## **Appendix B**

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### **Analytical Certificates – Quarry 22**

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# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78619**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-1 14W 0633800 7216242

Sampling hour: 09:30

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78619 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.





# Analytical Report

Lab number: V-78619

Sample name: Q22-1 14W 0633800 7216242

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 09:30

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	0.71 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	2000 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	8800 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	52 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.60 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78619

Sample name: Q22-1 14W 0633800 7216242

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 09:30

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.





## Additional information

**Lab number:** V-78619

Sample name: Q22-1 14W 0633800 7216242

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 09:30

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78620**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-2 14W 0633793 7216227

Sampling hour: 09:30

Sampled by: Patrick Ahern, Isabelle Couture

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78620 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78620

Sample name: Q22-2 14W 0633793 7216227

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 09:30

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	1400 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	5300 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	16 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.87 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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## Detection limit

Lab number: V-78620

Sample name: Q22-2 14W 0633793 7216227

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 09:30

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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## Additional information

Lab number: V-78620

Sample name: Q22-2 14W 0633793 7216227

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 09:30

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78621**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-3 14W 0633826 7216229

Sampling hour: 10:00

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78621 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78621

Sample name: Q22-3 14W 0633826 7216229

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 10:00

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	0.74 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	230 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	750 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.13 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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## Detection limit

Lab number: V-78621

Sample name: Q22-3 14W 0633826 7216229

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 10:00

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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## Additional information

**Lab number:** V-78621

Sample name: Q22-3 14W 0633826 7216229

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 10:00

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78622**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-4 14W 0633826 7216229

Sampling hour: 10:30

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78622 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

---

Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78622

Sample name: Q22-4 14W 0633826 7216229

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 10:30

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	480 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	1700 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.85 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78622

Sample name: Q22-4 14W 0633826 7216229

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 10:30

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.







## Additional information

**Lab number:** V-78622

Sample name: Q22-4 14W 0633826 7216229

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 10:30

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78623**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-5 14W 0633852 7216219

Sampling hour: 11:00

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78623 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78623

Sample name: Q22-5 14W 0633852 7216219

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 11:00

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	73 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	170 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	6.03 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78623

Sample name: Q22-5 14W 0633852 7216219

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 11:00

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



# Quality control Report

**Lab number:** V-78623

**Sample name:** Q22-5 14W 0633852 7216219

**Sampling date:** August 25, 2018

**Sampling location:** Q22

**Sampling hour:** 11:00

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## Parameter

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Hydrocarbons (Fraction F1 (C6-C10)) mc	Blank <0.06
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Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Additional information

**Lab number:** V-78623

Sample name: Q22-5 14W 0633852 7216219

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 11:00

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78624**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-6 14W 0633842 7216203

Sampling hour: 11:00

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78624 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.





# Analytical Report

Lab number: V-78624

Sample name: Q22-6 14W 0633842 7216203

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 11:00

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	500 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	1600 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.83 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78624

Sample name: Q22-6 14W 0633842 7216203

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 11:00

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.





## Additional information

Lab number: V-78624

Sample name: Q22-6 14W 0633842 7216203

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 11:00

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

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# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78625**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-7 14W 0633874 7216211

Sampling hour: 13:00

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78625 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78625

Sample name: Q22-7 14W 0633874 7216211

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	110 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	290 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	7.98 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78625

Sample name: Q22-7 14W 0633874 7216211

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.







## Additional information

**Lab number:** V-78625

Sample name: Q22-7 14W 0633874 7216211

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 13:00

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Company: **Agnico Eagle Division Meadowbank**

Client: M. Stephane Robert  
Address: General Delivery  
Baker Lake Nunavut X0C 0A0  
Phone: (604) 677-0689 (--)  
Fax: (604) 677-0687

**Lab number: V-78626**

Sampling location: Q22

Sampling date: August 25, 2018

Sample name: Q22-8 14W 0633865 7216192

Sampling hour: 13:00

Sampled by: Isabelle Couture, Patrick Ahern

Date received: August 29, 2018

Matrix: Sediment

Drinking water distribution:

**Corrected certificate, replacing the certificate V-78626 done on September 05 2018**

Unless otherwise stated, all samples were received in acceptable condition.

Results relate only to the sample tested.

All samples will be disposed of after 30 days following analysis.

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Sauf indication contraire, tous les échantillons ont été reçus en bon état.  
This report shall not be reproduced except in full without the written authority of the laboratory.



# Analytical Report

Lab number: V-78626

Sample name: Q22-8 14W 0633865 7216192

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 13:00

Parameter	Result	Method name	Analysis date
Hydrocarbons (Fraction F1 (C6-C10))	<0.06 mg/Kg	M-COV-1.0	August 29, 2018
Hydrocarbons (Fraction F2-F4)		Sous-traitance\Maxxam Analytics Inc	
- Petroleum Hydrocarbons F4 (C34-C50)	160 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F3 (C16-C34)	470 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
- Petroleum Hydrocarbons F2 (C10-C16)	<10 mg/Kg	Sous-traitance\Maxxam Analytics Inc	September 04, 2018
% of humidity	6.69 %	M-HUM-1.0	August 30, 2018

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.



## Detection limit

Lab number: V-78626

Sample name: Q22-8 14W 0633865 7216192

Sampling date: August 25, 2018

Sampling location: Q22

Sampling hour: 13:00

Parameter	Value	Unit	Method	Accreditation
Hydrocarbons (Fraction F1 (C6-C10))	10	mg/Kg	M-COV-1.0	
Hydrocarbons (Fraction F2-F4)			Sous-traitance	
- Petroleum Hydrocarbons F4 (C34-C50)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F3 (C16-C34)	10	mg/Kg	Sous-traitance	-
- Petroleum Hydrocarbons F2 (C10-C16)	10	mg/Kg	Sous-traitance	-
% of humidity	0.01	%	M-HUM-1.0	

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.





## Additional information

Lab number: V-78626

Sample name: Q22-8 14W 0633865 7216192

Sampling location: Q22

Sampling date: August 25, 2018

Sampling hour: 13:00

Lab method	Method reference
M-COV-1.0	MA.400-COV 1.1

Sauf indication contraire, tous les échantillons ont été reçus en bon état.

This report shall not be reproduced except in full without the written authority of the laboratory.