

Municipality of Casselman

Dashboard - Operational Report August 2019

OPERATIONS AND COMPLIANCE RELIABILITY INDICES

	Legend											
✓	•	_	×	Y/N	N/A							
Achieved	On Target	Caution	Not Achieved	Yes/No	Not Applicable							

	Target	August 2019	
Health & Safety			
Number of Incidents	0	•	
Actual Result		0	
Drinking Water			
Inspections Ratings (YTD)	100	✓	
Actual Result		100 %	Done Feb.13 th , received repor April 1 st
AWQI's	0	×	
Actual Result		2	(See report for details)
Number of Non-Compliances	0	•	
Actual Result		0	
Number of Water main Breaks	0	•	
Actual Result		0	
Number of complaints	0	×	
Actual Result		See report	
Water Main Flushing	100%	•	
Target Achieved		N/A	
Wastewater			
Number of Non-Compliances	0	N/A	
Actual Result		0	
Number of Bypasses	0	N/A	
Actual Result		0	
Number of Sanitary Sewer Back-ups	0	N/A	
Actual Result		0	
Sanitary Collection System Flushing Completion as per PM Program	0	N/A	
Preventive Maintenance			
Work Orders Completed	>95%	•	All work orders completed
Target Achieved		Υ	

OCWA Monthly Operations Report Card

For the Municipality of Casselman Water Treatment and Distribution Facilities

Prescott-Russell Cluster Operations August 2019





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- I Performance Assessment Report Casselman WTP
 II Monthly Work Order Summary Casselman WTP
 III Monthly Locate Summary Casselman WDS

1.0 FACILITY LISTINGS

1.1 Water Treatment & Distribution

Facility	Appurtenances
5971W Casselman Water Treatment Plant	1 WTP (Actiflo Process)
5971D Casselman Water Distribution System	1 Water Storage Tower Water Distribution System

2.0 COMPLIANCE

2.1 Water Treatment and Distribution

Most Recent MOE Compliance Inspection Report - Rating

ORG	Facility	Inspection Date	Report Period	Inspector Name	MOE CIR Rating	Inspection Report Received	Inspection Report Reply Submitted
5971	Casselman WTP and WD	11/12/2017	2017	Christina Des Rochers	90.65	31/01/18	13/02/18 Alain
5971	Casselman WTP and WD	13/02/2019	2018	James Peets	100	April 1 st	N/A

Annual Reports (Water)

All 2018 Annual Reports required under the Drinking Water Systems Regulation (O. Reg. 170/03) of the Safe Drinking Water Act: Water Taking, Section 10 and Schedule 22 Reports, were completed February 19th 2019..

Adverse Water Quality Incidents (AWQI's)

Date	Facility	Facility AWQI# ISSUE				
August 1 st	WTP	146998	95% filter turbidity efficiency not met for July (94.7%)			
August 7 th	Distribution	147118	3rd quarter THM average exceeded			
August 23 rd	WTP	147524	Filter effluent turbidity exceeded 1.0 NTU	August 24 th		
September 1 st	WTP	147877				

3.0 FACILTY PERFORMANCE

3.1 Water Treatment and Distribution System

Facility	Reporting Period	Attachments
Casselman WTP & Distribution	August 2019	Performance Assessment report attached Appendix I

4.0 DRINKING WATER QUALITY MANAGEMENT STANDARD (DWQMS)

 We're happy to say that OCWA has received their Certificate of Accreditation (Limited Scope-Transitional) for your water and distribution system on November 19th. Off site and on site accreditation audits for full scope accreditation were held July 11th and 24th respectively and only 2 OFIs (Opportunity for improvement) were noted, we expect to receive our new certificate in August.

5.0 MAINTENANCE / CAPITAL / VALUE ADDED

5.1 Water Treatment and Distribution

Facility	Date	Description					
Casselman distribution	July	A total of 78 locates were done in June. Municipality will be charged for 58 locates at actual time spent as per agreement.					
Casselman distribution	August 21st	Repaired valve corner Laurier/Brébeuf					
Casselman distribution	August 22 nd	Repaired valve corner Laflèche/Richer					
Casselman distribution	August	Replaced 7 valve boxes on Principal street					

5.3 Preventive Maintenance Plan (PMP) Work Order Summary

All equipment preventive work orders were completed and entered in database (see complete report attached)

6.0 COMMUNICATIONS

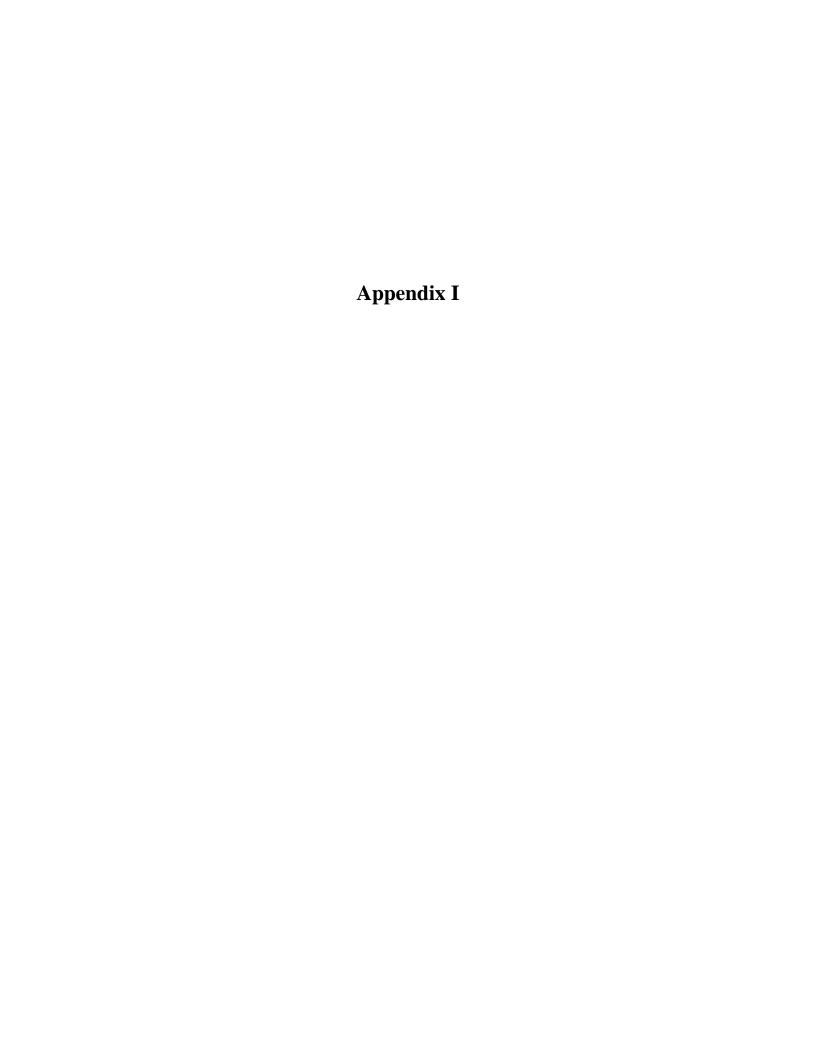
6.1 Water Treatment & Distribution

Facility	Date	Complaint/Incident	Actions Taken
Distribution	August	Several complaints received for colored water due to manganese	Process adjustments were made and all complaints were answered and/or addressed. OCWA met with client to discuss the issue and also potential solutions that may be explored in the future.

7.0 RECOMMENDATIONS / GENERAL COMMENTS

7.1 Water Treatment and Distribution

- OCWA applied to modify the Drinking Water Works Permit to allow us to use the Ammonium Sulfate addition system that was built a couple of years ago. Draft was reviewed by MECP and final approval was received August 2nd. The system will be put into operation fall 2019.
- OCWA is looking at and trying different options to better deal with the manganese levels in the Nation River (Ozone, products to replace the potassium permanganate and any other new technologies). Starting May 1st OCWA received approval from the MECP to trial a new chemical to replace the potassium permanganate to control the manganese at the WTP and within the distribution system. Trial is on-going, some complaints were received and both OCWA and Proquest (chemical supplier) are working diligently to resolve the issues. Results thus far have not been promising as being the right method to control the manganese and OCWA with the municipality will be looking at other options for 2020.



Ontario Clean Water Agency - Performance Assessment Report

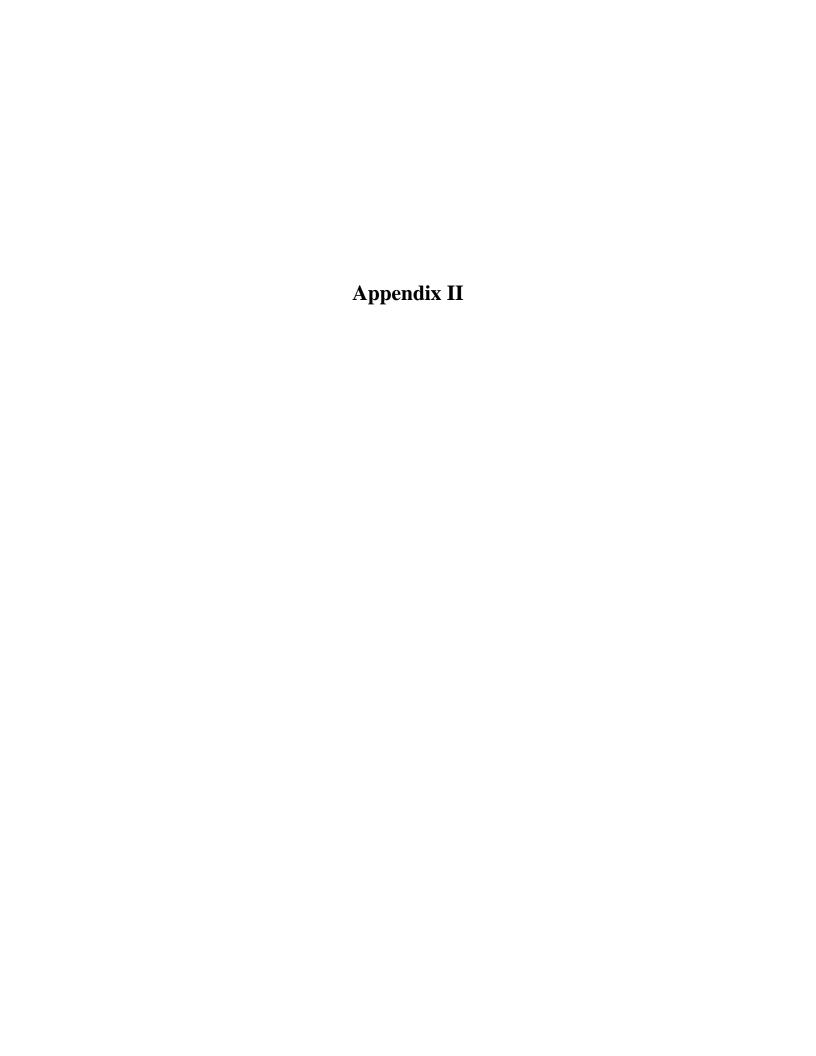
From 01/01/2019 o 31/12/2019

Facility Org Number: 5971

Facility Name: Casselman Drinking Water System
Facility Owner: The Village of Casselman

	01/20	19	02/2019	03/2019	04/2019	05/2019	06/2019	07/2019	08/2019	09/2019	10/2019	11/2019	12/2019	Total	Avg	Max	Min
Raw Flow - m³/d																	
Maximum	133	6	1399	1479	1577	1359	1616	1860	1935							1935	
Mean	1012.	29	952.61	1028.42	1036.03	1040.71	1171.57	1354.45	1338.45						1116.816		
Minimum	347		663	594	449	642	651	799	854								347
Total	3138	31	26673	31881	31081	32262	35147	41988	41492					271905			
Treated Flow - m³/d																	
Maximum	112	7	1234	1149	1417	1199	1428	1760	1477							1760	
Mean	885.0)3	851.54	877.19	910.13	899.19	1028.57	1101.47	1080.26						954.1725		
Minimum	507	•	630	564	427	99	540	133	318								99
Total	2743	6	23843	27193	27304	27875	30857	33044	33488					231040			
Raw Water / E. Coli - cfu/100mL																	
Count	5		5	4	5	4	4	5	4					36			
Maximum	52		53	27	52	77	66	11	8							77	
Mean	22		20.4	12	33.2	42	23.25	5.4	5.25						20.4375		
Minimum	0		0	0	1	2	1	0	2								0
Raw Water / Total Coliform: TC - cfu/100mL																	
Count	5		5	4	5	4	4	5	4					36			
Maximum	136	6	184	104	74	130	118	100	44							184	
Mean	69	<	98	53	51.2	64.5	42.5	33.6	30.5								
Minimum	< 2	<	2	22	2	12	4	14	4								2
Actiflo Filter #1 / Turbidity - NTU																	
Maximum	0.38	3	0.48	0.61	0.91	0.29	0.45	0.82	2.56							2.56	
Mean	0.02	7	0.065	0.096	0.092	0.083	0.094	0.211	0.301						0.12		
Actiflo Filter #2 / Turbidity - NTU																	
Maximum	0.47	7	0.5	0.4	0.37	0.41	0.47	0.74	2.28							2.28	
Mean	0.00	9	0.102	0.091	0.08	0.08	0.09	0.21	0.30						0.12		
Filter Efficiency / Turbidity - % < 0.3 NTU																	
Mean	99.8	8	99.98	99.94	99.94	99.95	99.95	94.76	74.91						96.16		74.91
Treated Water / Turbidity - NTU																	
Maximum	2.83	3	3.83	3.1	3.42	1.888	0.81	2.77	3.43							3.83	
Mean	0.16	6	0.426	1.915	0.473	0.268	0.134	2.01	0.878						0.78		
Treated Water / UV Intensity - mW/cm²																	
Minimum	58		71	57	75	65	52	47	47								47
Treated Water / CI Residual: Free - mg/L (Online)																	
Maximum	2.76		2.27	3.78	2.7	2.84	2.72	3.25	3.92			1				3.92	
Mean	1.94	3	1.771	6.605	2.099	2.00	1.94	2.01	2.07						2.55		
Minimum	0.56	3	0.95	0.21	1.29	0.127	0.63	0.3	0.2								0.127
Treated Water / E. Coli - cfu/100mL																	
Count	5		5	4	5	4	4	5	4					36			\bot
Maximum	0		0	0	0	0	0	0	0							0	
Mean	0		0	0	0	0	0	0	0								
Minimum	0		0	0	0	0	0	0	0								0
Treated Water / Total Coliform: TC - cfu/100mL																	
Count	5		4	4	5	4	4	5	4					35			
Maximum	0	_	0	0	0	0	0	0	0							0	
Mean	0		0	0	0	0	0	0	0								\bot
Minimum	0		0	0	0	0	0	0	0								0
Treated Water / HPC - cfu/mL																	

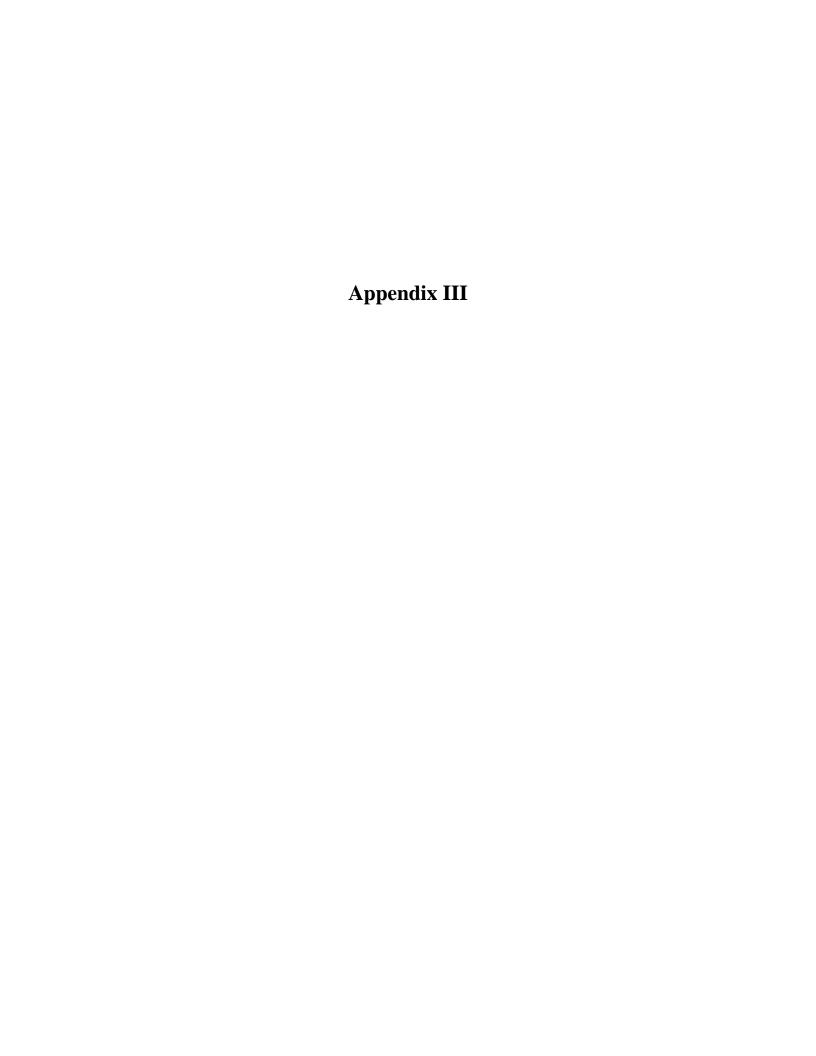
Count	П	5		4	П	4		5	T	4	T	4	5		4		П		П	35			
Maximum	<	2	<	2	<	2	<	2	<	2	<	2	2	_	2		H		++	00		2	
Mean	<	2	<	2	<	2	<	2	<	2	<	2	2		2		H						
Minimum	<	2	<	2	<	2	<	2	<	2	<	2	2	<	2		Ħ					١.	2
Treated Water / CI Residual: Free - mg/L (Grab)											1												
Count	П	5	Ħ	4	П	4	T	5	T	4	T	4	5		4		П			35			
Maximum		2.32		1.92		2.70	Ī	2.39	T	2.23	T	2	2.3	9	2.45							2.7	
Mean		1.90		1.70		1.83		2.01		2.01		1.56	2.0	3	2.06						1.89		
Minimum		1.24		1.46		0.94		1.57		1.74		1.01	1.6	7	1.13								0.94
Distribution Water / CI Residual: Free - mg/L (Onlin	ne)								T														
Maximum		2.32		2.03		3.08		2.28	T	2.74	T	3.14	3.4	1	3.74							3.74	
Mean		1.66		1.38		1.42		1.66		1.53		1.45	1.1	9	1.20						1.44		
Minimum		1.03		0.91		0.06		1.24		0.79		0.59	0.2	3	0.1								0.06
Disitrubution Water / E. Coli - cfu/100mL																							
Count		15		12		12		15		12		12	13		12					103			
Maximum		0		0		0		0		0		0	0		0							0	
Mean		0		0		0		0		0		0	0		0								
Minimum		0		0		0		0		0		0	0		0								0
Disitrubution Water / Total Coliform: TC - cfu/100m	ıL																						
Count		15		12		12		15		12		12	13		12					103			
Maximum		0		0		0		0		0		0	0		0							0	
Mean		0		0		0		0		0		0	0		0						0.00		
Minimum		0		0		0		0		0		0	0		0								0
Distribution Water / HPC - cfu/mL																							
Count		5		4		4		5		4		4	5		4					35			
Maximum	<	2	<	2	<	2	<	2	<	2	<	4	6	<	2							6	
Mean	<	2	<	2	<	2	<	2	<	2	<	3	< 2.8	<	2						2.23		
Minimum	<	2	<	2	<	2	<	2	<	2	<	2	< 2	<	2								2
Distribution Water / Cl Residual: Free - mg/L (Grab)																						
Count	Ш	15		12		12		15		12		12	15		12					105			
Maximum		2.13		1.67		2.90		2.16		1.64		2.15	1.9	2	2.4							2.9	
Mean	Ш	1.62	Ц	1.17	Ш	1.19		1.48		1.24		1.16	1.1	5	1.23		Ш				1.28		
Minimum	Ш	0.86	Ш	0.90	Ш	0.12		0.96		1.02	_	0.69	0.6	3	0.2		Ш						0.12
Distribution Water / Quarterlies	Ц		Ц																				
Trihalomethane: Total - μg/l	Ш	65.4	Ц		Ш			82					112				Ш				86.47		
Haloacetic Acids: Total - μg/l		32.7						37.3					118	3							62.67		



Monthly Work Order Summary - August 2019

Casselman Water Treatment Plant

Description	Status	Work Type
Blower Centrifugal Inspection/Service (1m) 5971	СОМР	PM
Air Compressor Inspection/Service (1m) 5971	СОМР	PM
Dryer Air Service (1m) - 5971	СОМР	PM
Generator Inspection (1m) 5971	СОМР	PM
PANEL ALARM/DIALER TEST (1m) - 5971	СОМР	PM
UV Light Bank Insp/Service (1m) - 5971	СОМР	PM
Health And Safety Inspection (1m) 5971	СОМР	PM
Annual Facility Description Review (1y) - 5971	APPR	PM
CI 19:30-21:00 Transfer Tank/Clearwell Alarm 5971	INPRG	CALL
AWQI 146998 July Filter Performance exceedance Casselman WTP 5971	APPR	OPER
High chlorine alarm, Casselman, 5971	СОМР	CALL
CC01 Yellow/Brown Water Casselman WDS 5971	APPR	OPER
AWQI 2019 Q3 THM Exceedance Casselman WDS 5971	СОМР	OPER
Actiflo/Transfer tank alarms due to power flick, Casselman WTP 5971	СОМР	CALL
Troubleshoot plant upset Casselman WTP 5971	СОМР	OPER
Emergency Locate at 11Maria Casselman	СОМР	EMER
High Turbidity in effluent water Casselman	СОМР	CALL
AWQI 147524 Filter Effluent Turbidity >1.0 NTU Casselman WTP 5971	СОМР	OPER
Filter Low level actiflo #1 Casselman	СОМР	CALL
Chloramination system installation and start up	APPR	CAP



Monthly Locate Order Summary - August 2019

Casselman Water Treatment Plant

Description	Status	Work Type
Locate Casselman WDS 5971 -812 Principale 20193121903	СОМР	OPER
Locate Casselman WDS 5971 -672 Princi 20193121244	СОМР	OPER
Locate Casselman WDS 5971 -797 St-Jospeh 20193122243	СОМР	OPER
Locate Casselman WDS 5971 -9 Maria 20193124097	СОМР	OPER
Locate Casselman WDS 5971 -861 Princi 20193124202	СОМР	OPER
Locate Casselman WDS 5971 -37 Fillion 20193112198	СОМР	OPER
Locate Casselman WDS 5971 -289 Nature 2019321817	СОМР	OPER
Locate Casselman WDS 5971 -715 St Isidore 2019322807	СОМР	OPER
Locate Casselman WDS 5971 -784 Levesque 2019324971	СОМР	OPER
Locate Casselman WDS 5971 -13 Martin 2019325095	СОМР	OPER
Locate Casselman WDS 5971 -858 Princi 2019325119	СОМР	OPER
Locate Casselman WDS 5971 -852 Princ 2019325345	СОМР	OPER
Locate Casselman WDS 5971 -15 Martin 2019327069	СОМР	OPER
Locate Casselman WDS 5971 -7 Martin 2019327075	СОМР	OPER
Locate Casselman WDS 5971 -688 Princ 2019315347	СОМР	OPER
Locate Casselman WDS 5971 -120 Laurier 2019328075	СОМР	OPER
Locate Casselman WDS 5971 -122 Laurier 2019328093	СОМР	OPER
Locate Casselman WDS 5971 -18 Mercier 20193124242	СОМР	OPER
Locate Casselman WDS 5971 -276 Nature 2019328739	СОМР	OPER
Locate Casselman WDS 5971 -26 Faucher 20193211068	СОМР	OPER
Locate Casselman WDS 5971 -827 Princi 2019324666	СОМР	OPER
Locate Casselman WDS 5971 -836 Princi 2019325546	СОМР	OPER
Locate Casselman WDS 5971 -Argile 113 20193217558	СОМР	OPER
Locate Casselman WDS 5971 -37 Percy 20193216274	СОМР	OPER
Locate Casselman WDS 5971 -22 Faucher 20193216314	СОМР	OPER
Locate Casselman WDS 5971 -288 Nature 2019328762	СОМР	OPER
Locate Casselman WDS 5971 -663 Montcalm 20193218441	СОМР	OPER

Locate Casselman WDS 5971 -56 FAUCHER 20193221951	СОМР	OPER
Locate Casselman WDS 5971- 727 Principale 2019335022	СОМР	OPER
Locate Casselman WDS 5971- 709 Principale 2019336502	СОМР	OPER
Locate Casselman WDS 5971- 81 Lafleche 2019336525	СОМР	OPER
Locate Casselman WDS 5971- 726 Brebeuf 2019336528	СОМР	OPER
Locate Casselman WDS 5971- Percy 13 2019337197	СОМР	OPER
Locate Casselman WDS 5971- 239 Argile 2019337613	СОМР	OPER
Locate Casselman WDS 5971 -236 Argile 2019337633	СОМР	OPER
Locate Casselman WDS 5971 -148 Argile 2019337646	СОМР	OPER
Locate Casselman WDS 5971 -108 Argile 2019337662	СОМР	OPER
Locate Casselman WDS 5971 -104 Argile 2019337681	СОМР	OPER
Locate Casselman WDS 5971 -727 Cartier 2019338801	СОМР	OPER
Locate Casselman WDS 5971 -692 Cartier 2019339615	СОМР	OPER
Locate Casselman WDS 5971 -231 Argile 20193310259	СОМР	OPER
Locate Casselman WDS 5971 -659 Montcalm 20193314290	СОМР	OPER
Locate Casselman WDS 5971 -11 Maria 2019330247	СОМР	OPER
Locate Casselman WDS 5971 -45 Racine 2019336555	СОМР	OPER
Locate Casselman WDS 5971 -18 Isabelle 20193321823	СОМР	OPER
Locate Casselman WDS 5971 -6 Albert 2019340856	СОМР	OPER
Locate Casselman WDS 5971 -4 Martin 2019341194	СОМР	OPER
Locate Casselman WDS 5971 -228 Nature 2019341376	СОМР	OPER
Locate Casselman WDS 5971 -240 Nature 2019341362	СОМР	OPER
Locate Casselman WDS 5971 -296 Nature 2019341323	СОМР	OPER
Locate Casselman WDS 5971 -300 Nature 2019341600	СОМР	OPER
Locate Casselman WDS 5971 -872 Principale 2019341600	СОМР	OPER
Locate Casselman WDS 5971 -57 Faucher 2019347759	СОМР	OPER
Locate Casselman WDS 5971 -64 Racine 2019348155	СОМР	OPER
Locate Casselman WDS 5971 -15 Mercier 2019348358	СОМР	OPER
Locate Casselman WDS 5971 -13 Maria 2019348509	СОМР	OPER
Locate Casselman WDS 5971 -16 Sarah 20193412222	СОМР	OPER
Locate Casselman WDS 5971 -828 Princi 20193412971	СОМР	OPER
Locate Casselman WDS 5971 -838 Princi 20193415513	СОМР	OPER

Locate Casselman WDS 5971 -860 Priinci 20193419378	COMP	OPER
Locate Casselman WDS 5971 -19 Maria 20193413047	СОМР	OPER
Locate Casselman WDS 5971 -10 Martin 20193420236	СОМР	OPER
Locate Casselman WDS 5971 -857 Principale 20193420297	СОМР	OPER
Locate Casselman WDS 5971 -858 francess 20193420823	СОМР	OPER
Locate Casselman WDS 5971 -860 francess 20193420874	СОМР	OPER
Locate Casselman WDS 5971 - 15 Maria 2019350219	СОМР	OPER
Locate Casselman WDS 5971 - 40 Fillion 2019353351	СОМР	OPER
Locate Casselman WDS 5971 -14 Sarah 2019354048	СОМР	OPER
Locate Casselman WDS 5971 -285 Nature 2019358325	СОМР	OPER
Locate Casselman WDS 5971 -839 Principale 20193518748	СОМР	OPER
Locate Casselman WDS 5971 -763 Principale 20193519242	СОМР	OPER
Locate Casselman WDS 5971 -Dore st 20193513305	СОМР	OPER
Locate Casselman WDS 5971 -Barrage st 20193513345	СОМР	OPER
Locate Casselman WDS 5971 -804 Principale 20193526815	СОМР	OPER
Locate Casselman WDS 5971 -696 DesCedres 2019360299	СОМР	OPER
Locate Casselman WDS 5971 -41 Fillion 20193618722	СОМР	OPER
Locate Casselman WDS 5971 -11 Richer 2019368576	СОМР	OPER
Locate Casselman WDS 5971 - 17 Maria 20193618723	СОМР	OPER