

Operational Report

Run Details

Client:	VAK Jablonne	Usage:	Potable Supply
Date:	18/06/18	Material:	See below
Location:	Lanskroun	Ice fraction:	75%

Results Summary

Czech Republic 2018 - Lanskroun - 18/06/18		
	IP01 - DP01	
Diameter	150mm	
Total Length (m)	2000	
Pipe Material	CI	
Start Time	07:20	
Maximum Flow Rate (l/sec)	11.5	
Amount of Ice Inserted (m ³)	9.0	
Lowest Temperature (°C)	-2.8	
Finish Time	10:20	
Water Used (m ³)	80.0	
Pre and Post Clean Parameters	Pre Readings	Post Readings
Time parameters were taken	07:05	10:05
pH Reading @ Inlet (<9.0)	7.5	7.5
pH Reading @ Outlet (<9.0)	7.3	7.3
Turbidity (NTU)	9.0	3.0
Temperature (°C)	14.9	14.5
Pressure (BAR)	7.0	7.0
Conductivity (mS/cm)	0.4	0.4
Additional Comments		

All recordings are in UK time (-1hr to local time)

Sample Photographs

IP01 – DP01



SUEZ

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Temperature and Sediment Data

<i>Sample #</i>	<i>Time (s)</i>	<i>Flow Rate (l/s)</i>	<i>Temp (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>Sample Mass (g)</i>	<i>Sediment Mass (g)</i>	<i>Sediment Concentration (g/l)</i>			
1	0	11.5	14.9	5.4	245	0.2	0.90			
2	60	11.1	12.7	35.9	244.8	0.3	1.35			
3	120	11.0	11.4	78.8	236.1	2.4	11.26			
4	180	11.0	8.4	95.9	255.8	2.2	9.45			
5	240	10.8	3.1	98	251.1	1.9	8.33			
6	300	10.6	-0.3	108.5	249.8	1.1	4.85			
7	360	10.6	-0.6	109.4	246.9	1.7	7.59			
8	420	10.1	-1.2	64.9	250.2	6	26.41			
9	480	10.0	-1.9	62.9	264.9	3.5	14.47			
10	540	10.0	-2.2	72.4	245.8	1.7	7.63			
11	600	9.9	-2.2	71	250.6	1.2	5.27			
12	660	9.9	-2.4	50.6	255.7	1.7	7.31			
13	720	10.2	-2.8	41.4	250.7	3	13.18			
14	780	10.5	-2.8	47.8	249.7	3.6	15.88			
15	840	10.6	-2.1	45.6	252.7	3.4	14.80			
16	900	10.5	-0.8	41.7	257.1	3.5	14.95			
17	960	10.8	-0.1	13.2	254.5	2.8	12.10			
18	1020	11.1	1.6	6.7	246.8	3.5	15.64			
19	1080	11.5	5.7	3.6	238.4	3.7	17.18			
20	1140	11.5	8.9	1.6	239.1	2.1	9.72			
21	1200	11.5	12.1	1.1	242.2	0.7	3.19			
22	1260	11.5	12.9	1	228.2	0.8	3.90			
23	1320	11.5	14.5	1	241.1	0.9	4.13			
Sediment Removed (kg):					98.40			Sediment Removed per km (kg)		49.19

Ice Pigging Summary

Operation Time



3 hours

Volume of Sediment Removed



98.40 kg

Water Used



3 X Pipe Volume

Notes

- *Based on calculations 98,4 Kg of sediment was removed from the main. There was flushing of pipes before the intervention, so still the amount is very high.
- *Na základě kalkulace 98,4 kg sedimentu bylo odstraněno z čistěného potrubí. I přes předchozí proplach je toto množství stále vysoké.
- Low quantity of ice was received at the outlet due to high water temperature of 14,9 °C, but still some ice was in the water after cleaning. So we recognise the cleaning as successful due to ice included in the cleaning medium after the action. Lowest temperature achieved was -2,8 °C.
- Malé množství ledu bylo na konci čištění díky vysoké teplotě vody 14,9 °C, ale stále ještě byl ve vodě led. Považujeme čištění za úspěšné díky obsahu ledu v čistícím médiu po výstupu z potrubí. Nejnižší teplota vody byla -2,8 °C.
- The report shows that a good amount of sediment has been removed and that turbidity parameters have been improved.
- Report ukazuje, že velké množství sedimentu bylo odstraněno a zákal byl výrazně zlepšen.