# APPENDIX "K"

**QMS** Meeting Water Date: May 13, 2016 Location: Water Operations Admin Boardroom **Operations** Time: 12:45 pm to 1:30 pm Meeting Type: QMS Management Review File: A-02 Staff Committees & Meetings

### WATER OPERATIONS BRANCH

The City of BARRIE

Facilitator: Jennifer Barrick (JB)

Attendees: Chris Marchant (CM), Edgar Tovilla (ET), Amanda Inglis (AIP), Michael Munshaw (MM), Len Anderson (LA), Chris Harper (CH), Jeanette Dumais (JD) arrived at 1:00 pm, David Truax (DT) arrived at 1:00 pm, John F Thompson (JFT) arrived at 1:05 pm as an observer and left at 1:20 pm. Recording: Mark Vandergeest (MV)

Absent: Diane Moreau (DM), Jamey Adams (JA)

Agenda Item Discussion/Decision
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Incidents of Adverse Drinking Water	<ul> <li>Summary of Incidents of Adverse Drinking Water Tests</li> <li>All Sections within the Water Operations Branch that reported an AWQI completed a F20-04, Summary of Adverse Water Quality Incidents.</li> <li>DT completed the F20-08 Management Review Summarization Form for Adverse Water Quality for the GWS Section.</li> <li>JB commented that one AWQI was reported by GWS at Well 13 in the for the 1<sup>st</sup> quarter of 2016</li> <li>ET inquired as to what a chlorine regulator was and what its purpose was.</li> <li>LA in DT's absence explained what and how a chlorine regulator is and why it's used in the drinking water system.</li> <li>CH completed the F20-08 Management Review Summarization Form for Adverse Water Quality for the WDS Section.</li> <li>JB commented that one potential AWQI was reported by WDS at V6880 Anne St N in the for the 1<sup>st</sup> quarter of 2016</li> </ul>
Deviations from Critical Control Point Limits and Response Actions	<ul> <li>Deviations from SCADA Minimum Set Points</li> <li>MV discussed that reports have not been completed by Eramosa due to procurement issues for the GWS section.</li> <li>MV further discussed that the QMS Management Team discussed in 2015 it would use AWQI's as deviations. The only deviations from SCADA Minimum Set Points would be the AWQI's reported from the GWS and SWS sections until the procurement issues are resolved.</li> <li>The total number of deviations is 1 for the 1<sup>st</sup> quarter of 2016 year.</li> </ul>

<b>Operations</b>	QMS Meeting Date: May 13, 2016 Location: Water Operations Admin Boardroom Time: 12:45 pm to 1:30 pm Meeting Type: QMS Management Review File: A-02 Staff Committees & Meetings	
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Agenda Item	Discussion/Decision
/ gonda nom	Discussion/Decision

	<ul> <li>Distribution Operational Limits Deviation Summary.</li> <li>CM presented the completed F20-08 Management Review Summarization Form for Distribution Operational Limits Summary for the WCS Section.</li> <li>CM discussed that there were 187 flushing activities that occurred in the 1<sup>st</sup> quarter of 2016.</li> <li>CM discussed the following:         <ul> <li>Turbidity – during the 1<sup>st</sup> quarter of 2016, there were 69 occurrences where the initial reading was greater than 2 NTU.</li> <li>Chlorine Residual during the 1<sup>st</sup> quarter of 2016, there were 0 occurrences where the low chlorine events was under .2ppm</li> <li>Flushed Volumes – during the 1<sup>st</sup> quarter of 2016, there were 43 occurrences where flushing volumes exceeded 100 m3 events</li> </ul> </li> </ul>
Operational Performance	<ul> <li>Flow Summary Reports</li> <li>JB presented the GWS completed F20-08 Management Review Summarization Form on Flow Summaries.</li> <li>JB discussed that all water taken was within prescribed limits of the Permit to Take Water.</li> <li>JB further discussed that there were a number of wells that were down for maintenance activities.</li> <li>JB presented raw data on flow summaries for the SWS section.</li> <li>JA did not provide a completed F20-08 Management Review Summarization Form for Flow Summaries Reports for the SWS section. This item has been added to the QMS Action Log, identified as item #16-026 assigned to JA with a target date of June 8, 2016.</li> <li>CM commented that based on the data provided, production from our sources appears to be down from previous years.</li> </ul>

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Facilitator: Jennifer Barrick (JB) Attendees: Chris Marchant (CM), Edgar Tovilla (ET), Amanda Inglis (AIP), Michael Munshaw (MM), Len Anderson (LA), Chris Harper (CH), Jeanette Dumais (JD) arrived at 1:00 pm, David Truax (DT) arrived at 1:00 pm, John F Thompson (JFT) arrived at 1:05 pm as an observer and left at 1:20 pm. Recording: Mark Vandergeest (MV) Absent: Diane Moreau (DM), Jamey Adams (JA)		

**Discussion/Decision** 

Operational Performance
<ul> <li>GWS, WCS, WDS and SWS completed the F20-07 Summary of Operational Performance.</li> <li>CM presented the WCS completed F20-08 Management Review Summarization Form on Operational Performance.</li> <li>JB presented the WDS completed F20-08 Management Review Summarization Form on Operational Performance.</li> <li>JB presented the GWS completed F20-08 Management Review Summarization Form on Operational Performance.</li> <li>JB presented the GWS completed F20-08 Management Review Summarization Form on Operational Performance.</li> <li>JB presented raw data on Operational Performance for the SWS section.</li> <li>JA did not provide a completed F20-08 Management Review Summarization Form for Operational Performance for the SWS section. This item has been added to the QMS Action Log, identified as item #16-027, assigned to JA with a target date of June 8, 2016.</li> <li>MM commented that for the GWS F20-08's there was not any specific information on what fell into the different work order categorizations. DT discussed that in his section, communication failures, SCADA failures and emergency call outs, fall into the emergency category.</li> <li>MM inquired as to why there were 4 emergency work orders still open in WDS.</li> <li>CH discussed that he did not know the specifics of those work orders.</li> </ul>
<ul> <li><u>Watermain Break Report Summary</u></li> <li>JB discussed that WDS completed F20-08 Management Review Summarization Form for Main Break Report Summary.</li> <li>JB described that WDS had 12 water main breaks in the 1<sup>st</sup> quarter of 2016.</li> <li>JB discussed that in the same quarter in 2015 year there was 17 watermain breaks.</li> </ul>

<b>BARRIE</b> <b>Water</b> <b>Operations</b>	QMS Meeting Date: May 13, 2016 Location: Water Operations Admin Boardroom Time: 12:45 pm to 1:30 pm Meeting Type: QMS Management Review File: A-02 Staff Committees & Meetings	
WATER OPERATIONS BRANCH		
Facilitator: Jennifer Barrick (JB)		
	hant (CM), Edgar Tovilla (ET), Amanda Inglis (AIP), Michael Munshaw (MM), Len Anderson (LA), Chris Harper (CH), Jeanette Dumais (JD) arrived at 1:00 pm, David Truax (DT)	
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Recording: Mark Vande	Recording: Mark Vandergeest (MV)	

Recording: Mark Vandergeest (MV) Absent: Diane Moreau (DM), Jamey Adams (JA)

Agenda Item	Discussion/Decision
Raw Water Supply and Drinking Water Quality Trends	VOC Trending     JB presented the completed F20-08 Management Review Summarization Form for VOC Trending.
	Sodium Trending
	<ul> <li>JB presented the completed F20-08 Management Review Summarization Form for Sodium Trending.</li> <li>JFT inquired if we had reported an AWQI, recently for sodium.</li> <li>JB discussed that one would be reported for the next treated water sodium sample taken.</li> </ul>
	SWS Water Quality Sampling
	<ul> <li>JB presented the completed F20-08 Management Review Summarization Form for SWS Water Quality Sampling.</li> <li>JB discussed that there were one set of Nitrate/Nitrite, one THM reservoir sample and 13 sets of microbiological samples collected.</li> <li>JB further discussed that there were 13 set of non-regulatory microbiological sampled collected from the process area.</li> </ul>
	GWS Water Quality Sampling
	<ul> <li>JB presented the completed F20-08 Management Review Summarization Form for regulatory GWS sampling.</li> <li>JB discussed the following;</li> </ul>
	<ul> <li>One (1) set of nitrate/nitrite samples were collected and tested for the groundwater wells. (Were not collected from WPS 3A &amp; WPS 15)</li> <li>One (1) set of Schedule 23/24 samples were collected from Well 12</li> </ul>
	<ul> <li>Three (3) sets of VOC samples were collected from Wells 3A, 5, 11 and 14 to fulfill their monthly sample requirements as per the City of Barrie's MDWL. (Samples were not collected for Well 15 in the month of March)</li> </ul>
	<ul> <li>One (1) set of sodium samples, each from Wells 3A, 9, 11, 12, 13 and 14 to fulfill their quarterly sample requirements as per the City of Barrie's MDWL.</li> </ul>

Operations	QMS Meeting Date: May 13, 2016 Location: Water Operations Admin Boardroom Time: 12:45 pm to 1:30 pm Meeting Type: QMS Management Review File: A-02 Staff Committees & Meetings	
WATER OPERATIONS	BRANCH	
Facilitator: Jennifer Barrick (JB) Attendees: Chris Marchant (CM), Edgar Tovilla (ET), Amanda Inglis (AIP), Michael Munshaw (MM), Len Anderson (LA), Chris Harper (CH), Jeanette Dumais (JD) arrived at 1:00 pm, David Truax (DT) arrived at 1:00 pm, John F Thompson (JFT) arrived at 1:05 pm as an observer and left at 1:20 pm. Recording: Mark Vandergeest (MV) Absent: Diane Moreau (DM), Jamey Adams (JA)		

Agenda Item	Discussion/Decision
	<ul> <li>215 (total) raw and treated microbiological samples were collected and tested for the groundwater wells.</li> </ul>
	SWS In-house Lab Results
	<ul> <li>JD presented raw data on SWS In-house Lab Results for the SWS section.</li> <li>JA did not provide a completed F20-08 Management Review Summarization Form for SWS In-house Lab Results for the SWS section. This item has been added to the QMS Action Log, identified as item #16-028, assigned to JA with a target date of June 8, 2016.</li> <li>CM inquired about one of the alkalinity results that looked out of place, compared to the other data.</li> <li>JD and LA discussed that it was not explainable.</li> <li>CM further commented that since January, the in-house lab data looked more consistent when plotted compared to previous years.</li> </ul>
	Drinking Water Quality Trends in the WD System
	<ul> <li>JB presented the raw data on Drinking Water Quality Trends in the WD System.</li> <li>DT did not provide a completed F20-08 Management Review Summarization Form for Drinking Water Quality Trends in the WD System for the GWS section. This item has been added to the QMS Action Log, identified as item #16-029, assigned to DT with a target date of June 8, 2016.</li> </ul>
Summary of Consumer Feedback	Summary of Consumer Feedback
	<ul> <li>CM presented the completed F20-08 Management Review Summarization Form for Summary of Consumer Complaints and provided a CityWorks report for customer complaints</li> <li>CM discussed that there was 102 total complaints that were received in the 1<sup>st</sup> quarter of 2016.</li> <li>CM noted that for the same period of 2015 year there were 289 total water quality complaints received.</li> </ul>

Next Meeting: July 27, 2016

Operation	E QMS Meeting Date: 2016-08-19 Location: Water Operations Admin Boardroom Time: 1:30 pm to 3:00 pm Meeting Type: QMS Management Review File: A-02 Staff Committees & Meetings				
WATER OPERATION	TONS BRANCH				
Facilitator: Am	acilitator: Amanda Inglis-Petahegoose (AIP)				
Attendees: Ch	Chris Marchant (CM) Diane Moreau (DM) David Truax (DT) Jamey Adams (JA) Jennifer Barrick (JB) Mark Vandergeest (MV)				
Recording: Mic	Michael Munshaw (MM)				
Absent: Ch	Chris Harper (CH) Jeanette Dumais (JD)				

Agenda Item	Discussion/Decision

C- Incidents of Drinking Water Tests	<ul> <li>DT - commented on Adverse Water Quality Incidents (AWQI) encountered during the second quarter, the majority of AWQI were in relation to start-up sequence issues, one incident was attributed to a defective PLC (well 11), completed F20-08 provided.</li> <li>MV - commented that all AWQI had been put through the Continual Improvement Process (CIP).</li> <li>DM - enquired if there were any additional tools that could be put in place to limit the number of incidents reported as precautionary AWQI as it creates a significant amount of subsequent work for CTS Staff</li> </ul>
D- Deviations from Critical Control Point Limits and Response Actions	SWS Deviations         JA       - commented that no deviations (AWQI) were reported during the second quarter from SWS, completed F20-08 provided. <u>GWS Deviations</u> DT       - commented on the deviations (AWQI) reported in agenda item C- incidents of Drinking Water Tests, completed F20-08 provided.         MV       - reminded the team that for both SWS and GWS the issues with Eramosa completing work were still present and until resolved there was no ability to extract all deviations from SCADA logged information. In the interim, Management had previously agreed to solely report AWQIs as deviations. as deviation.         WDS Deviations (flow, secondary residuals, turbidity)       CM       - commented on visuals, F20-08 outstanding. Action item created to provide required F20-08, 16-087 assigned to CH target date 2016-09-14.
G- Operational Performance	<ul> <li><u>Ground Water Supply Flow Performance</u></li> <li>DT - commented on production trends noting an increase this quarter over the previous year's quarter production. F20-08 provided.</li> <li>CM - added that there was an increase in flushing activities this year which may account for some of the additional production, the exceptionally dry summer being the other likely reason.</li> </ul>

Operat	QMS Meeting         Date:       2016-08-19         Location:       Water Operations Admin Boardroom         Time:       1:30 pm to 3:00 pm         Meeting Type:       QMS Management Review         File:       A-02 Staff Committees & Meetings
WATER OPER	RATIONS BRANCH
Facilitator: Attendees: Recording: Absent:	Amanda Inglis-Petahegoose (AIP) Chris Marchant (CM) Diane Moreau (DM) David Truax (DT) Jamey Adams (JA) Jennifer Barrick (JB) Mark Vandergeest (MV) Michael Munshaw (MM) Chris Harper (CH) Jeanette Dumais (JD)

Agenda Item	Discussion/Decision
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	Surface Water Supply Flow Performance         JA       - commented on production trends noting a slight increase this quarter over the previous year's quarter production. F20-08 provided.         JA       - commented that raw and treated production was still well below 50% from a max day perspective.
	Water Customer Services Operational Performance CM - commented that flushing volumes were five time greater than those reported in the previous quarter and that there were outstanding WOs due to batch printing and delays in obtaining access to certain properties. F20-08 provided.
	<ul> <li>Water Distributions Services Operational Performance</li> <li>OH - no comment as CH was absent. F20-08 outstanding. Action item created to provide required F20-08, 16-088 assigned to CH target date 2016-09-14</li> <li>OM - commented on watermain break report summary graph, questioning correlation between break type and material.</li> <li>MV - commented that the 'other' comment for watermain break type and cause should be examined to see if there is a more appropriate response that would provide better clarity as to the type and cause. To be discussed at the next Management Team meeting. Item added to agenda of meeting held Sept 14, 2016.</li> </ul>
	Ground Water Supply Operational Performance DT - commented on outstanding preventative maintenance due to batch printing, will be looking at options to prevent this from occurring in the future. F20-08 provided.
	Surface Water Supply Operational Performance JA - all's well on the western front says Jamey. F20-08 provided.
	Compliance and Technical Support Operational Performance DM - commented on new data set added to Management Review (backflow program status). F20-08 provided.
H- Raw Water Supply and Drinking Water Quality Trends	VOC Sampling Trends           DT         - commented on general trend, no outstanding results

Operatio	ter Date: 2016-08-19				
WATER OPERATIONS BRANCH					
Facilitator: A	cilitator: Amanda Inglis-Petahegoose (AIP)				
Attendees: C	Chris Marchant (CM) Diane Moreau (DM) David Truax (DT) Jamey Adams (JA) Jennifer Barrick (JB) Mark Vandergeest (MV)				
Recording: M	Michael Munshaw (MM)				
Absent: C	Chris Harper (CH) Jeanette Dumais (JD)				

**Discussion/Decision** 

DM - commented that there would need to be refinements such that the method detection limit was not portrayed as a value on the trends as there is no way to know for certain if the parameter was at this value or lower. Item added to next Maintenance Team meeting agenda 2016-09-07
Sodium Sampling Trends DT - commented on general trend, noting Well 12 is showing the highest value. F20-08 provided.
General Chemistry Sampling Trends No general Chemistry was collected in this quarter, item not applicable.
SWS Quality Sampling Trends JA - commented that all sampling adequate, no outstanding issues. F20-08 outstanding. Action item created 16-089 assigned to JA target date of 2016-09- 14.
GWS Quality Sampling Trends DT - commented that all sampling adequate, no outstanding issues. F20-08 provided.
SWS In-house Lab Sampling Trends JA - commented on trends, discussion with team about excluding historical data that appeared to be out of range with the current refined data (applies to Nitrogen and colour trend lines). Added to agenda for next Maintenance Team meeting to examine all trends and bring recommended course of action to Management Team.
WDS Quality Sampling Trends         AIP       - reviewed THM trend, JA questioned what the course of action would be now that we had collected the requisite THM samples, team discussed; deciding that two samples representing both GWS and SWS would be collected         DM       - commented that both work orders and chain of custodies would require prompt revision to align with the next collection date, action item 16-090 assigned to MV with a target date of 2016-09-14 and action item 16-091 assigned to JB with a target date of 2016-09-14.

\*\* Refer to QMS Action Log for specific details regarding action items assigned during QMS Meetings

Agenda Item

Operation	er Date: 2016-08-19
WATER OPERATI	IONS BRANCH
Attendees: Ch Recording: Mi	nanda Inglis-Petahegoose (AIP) nris Marchant (CM) Diane Moreau (DM) David Truax (DT) Jamey Adams (JA) Jennifer Barrick (JB) Mark Vandergeest (MV) ichael Munshaw (MM) nris Harper (CH) Jeanette Dumais (JD)

Agenda Item Discussion/Decision
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L- Summary of Consumer Feedback	CM	- commented on consumer feedback, no outstanding issues, F20-08 provided.

### Next Meeting: 2016-10-26

Date: 2016-11-24

Time: 8:30 am to 10:00 am

### Meeting Type: QMS Q3 Management Review

File: n:\igm\enviro\water ops - cts\admin\a02-staff commit and mtgs\minutes - qms management team meetings\2016 management review meeting\2016-11-24 q3.docx

Water Operations Branch				
Facilitator: Jeanette Dumais (JD)	Absent:	Attendees:	☑ Jeanette Dumais (JD)	🛛 Michael Munshaw (MM)
Recording: Jeanette Dumais (JD)		🛛 Amanda Inglis-Petahtegoose (AIP)	⊠ Jennifer Barrick (JB)	🛛 David Truax (DT)
		🖾 Diane Moreau (DM)	🖾 Mark Vandergeest (MV)	⊠ Chris Harper (CH)
		☑ Chris Marchant (CM)	⊠ Jamey Adams (JA)	

#### Agenda

1. Incidents of Adverse Drinking Water Tests

2. Deviations from Critical Control Limits and Response Actions

Operational Performance – System Production Values 3.

Operational Performance – Sectional Work Orders 4.

5. Operational Performance – Main Breaks

6. Raw Water Supply and Drinking Water Trends

7. Summary of Consumer Feedback

Agenda Item	Discussion/Decision
<ol> <li>Incidents of Adverse Drinking Water Tests (slide 3 of 27)</li> </ol>	JD – reviewed the 4 AWQI's recorded over the period DM – AWQI #130966 is identified as the subject system on the chart as "distribution" therefore this was not recognized that DT (GWS) JD – Action item: 17-004: make required change to chart to represent GWS not that the AWQI was received in the distribution sub-system
<ol> <li>Deviations from Critical Control Point Limits and Response Actions (slides 5,6,7)</li> </ol>	JD – reviewed with the group total number of activities, volumes over 100m <sup>3</sup> and zone specific flushing results for chlorine and turbidity No comments were discussed from these graphs
<ol> <li>Operational Performance – System Production Values (slides 9, 10, 11, 12, 13, 14)</li> </ol>	JD – reviewed with the group graphs for Branch Production Trend in ML, Branch PTTW/MDWL Average Day, Production Trend in m <sup>3</sup> Collectively group commented on our increased production trend surpassing 2013, 2014 and 2015 values for the same period JD – <b>Action Item: 17-005:</b> F20-08 not received from SWS entitled Operational Performance – Flow Summary for Q3
<ol> <li>Operational Performance – Sectional Work Orders (slides 15, 16, 17, 18)</li> </ol>	JD – reviewed each section's work orders presented in chart form from the F20-07 DM – noted that there would no longer be a miscellaneous category in the future MV – asked of the group if we should consider making some sort of KPI and suggested that 100% completion of the top three categorie CM – questioned why there were 5 outstanding emergency work orders present on the chart CH – <b>Action Item: 17-006:</b> investigate emergency work orders from the WDS section noted on the Q3 F20-07 that were not actioned b DM – made the group aware that there still exists a time lag between activity completion and data entry MM – suggested that the reports that are being emailed out could be done with greater frequency to ensure these anomalies are capture MV – suggested setting up the requisite inboxes for the Supervisory staff CM – fully supports MVs suggestion JA – suggests we look toward further training or looking into the available options at our disposal for dashboards as quick reference for DM – made the group aware of an initiative to create Supervisor specific landing page dashboards DM - made the callouts so that we have a total number of callout events per quarter not just per station location JD – <b>Action Item: 17-007</b> : add total callouts per station and per quarter to F20-07 for Q4 Management Review JD – <b>Action Item: 17-008</b> : receive an F20-08 from SWS entitled Operational Performance – Work orders
5. Operational Performance – Main Breaks (slide 19)	JD – reviewed the graphs with the group No comments were made to these graphs

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S) was to supply F20-08 response system and ensure the requisite F20-08 is received from DT

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before Q3 Management Review

tured sooner

for Management

Meeting Type: QMS Q3 Management Review Date: 2016-11-24

Agenda Item	Discussion/Decision
6. Raw Water Supply and Drinking Water Trends	JD – reviewed the 5 year trend for sodium with the group JA – believes at one time the MOECC objective was 100mg/L, please look into if this was in fact the case and when it changed JD – immediately post meeting researched if ever there was a 100mg/L limit set but could not find any material to support JA's inquiry JD – reviewed the results for VOCs with the group DM and CM – would like to see the stations with detects graphically represented as has been the standard in past Management Review JD – <b>Action Item: 17-009</b> : update all VOC graphs and send out to Management staff via email JD – reviewed the GWS Sampling with the group JA – noted that it was not clear what sampling was still to be performed by the in-house lab and which was not JD – <b>Action Item: 17-009</b> : clarify this slide and the associated F20-08 entitled Raw Water Supply and Drinking Water Trends – SWS S JD – reviewed in-house lab sampling with the group using a live demonstration of eRIS for raw and treated: pH, temp., hardness, alkali General comments from the group were very positive regarding the queries that were displayed. DM and JA – did comment that it would be helpful to see laymen's terms on the graphical representation of queries and or reports DM – would like to see a column added to the lab data entry sheet with a range of acceptable values for each parameter JD – <b>Action Item: 17-010</b> : send an email to Marco Leon requesting additional column added to in-house lab data entry sheet with rang JD – reviewed with the group the THM sampling with the addition of the extra sampling that was performed using the RAA calculator DM – advised that JD please use correct rounding when presented the final RAA numbers JD – fix slide and corresponding F20-08 (this was completed immediately after the meeting)
7. Summary of Consumer Feedback	JD – reviewed with the group the graph representing the summary of customer complaints CM – commented that most of flushing activities were directly represented as coloured concerns on the associated graph and this is in the city the first week of August CM – would like to see a total included on the completed pie graph

Min	nutes Reviewed By
$\boxtimes I$	Amanda Inglis-Petahtegoose (AIP)
	Diane Moreau (DM)
	Jeanette Dumais (JD)
$\boxtimes$ J	Jennifer Barrick (JB)
$\boxtimes$ N	Mark Vandergeest (MV)
	Michael Munshaw (MM)
Ch	ris Marchant (CM)
Jar	mey Adams (JA)
Da	vid Truax (DT)
Ch	ris Harper (CH)

Next Meeting: 2017-01-18

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/S Sampling with respect to in-house sampling (last paragraph) kalinity, colour, nitrogen.

range of acceptable values for each parameter

s in relation to the event that occurred at the Yonge/Little area of

### QMS Meeting Date: 2017-01-18

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Time: 08:30 to 11:00

### Meeting Type: QMS Q4 Management Review

File: n:\igm\enviro\water ops - cts\admin\a02-staff commit and mtgs\minutes - qms management team meetings\2016 management review meeting\2017-01-18 q4.docx

Water Operations Branch			
Facilitator: Jeanette Dumais (JD)	Absent:	Attendees:	⊠ Jamey Adams
Recording: Jeanette Dumais (JD)	Mark Vandergeest	⊠ Amanda Inglis-Petahtegoose (AIP)	⊠ Jennifer Barrick (J
		🛛 Diane Moreau (DM)	🛛 Dave Truax
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Agenda			

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Agenda Item	Discussion/Decision
1. Incidents of Adverse Drinking Water Tests	JD – reviewed the Table 8 – Schedule 16 and 17, F20-08 signed and received         CM – would like to see the address from the AWQI of Kempview Lane added to the Location column         JA – please add parameter and result as zero as well as clear results received         Action Item: 17-011: Add Kempview Lane address to Table 9 – Schedule 16-17 as well as verbiage regarding zero results from
<ol> <li>Deviations from Critical Control Point Limits and Response Actions - Flushing</li> </ol>	JD – reviewed flushing graphs with the group: total # of flushing activities, volumes flushed over 100m3, flushing activities per zone, F2 No comments from the group
<ol> <li>Deviations from Critical Control Point Limits and Response Actions – Deviation from SCADA Set Points</li> </ol>	JD – reviewed results of the F20-02 from the Surface Water Supply Group, F20-08 signed and received JA – reiterated that there were no exceedances pointing toward an AWQI JA – spoke to the alarms and events page of SCADA and how working on analytics with Eramosa will highlight nuisance alarms JD – provided an update to the group on the progress that is being made on the Groundwater side with a look at the new exceedances and highlighted by the group that are being actioned through our continued partnership with them. Further work to be done to satisfy an
4. Operational Performance – System Production	JD – reviewed branch wide production graphs with the group including Max day and average day graphs, no F20-08 was distributed as Monthly Operations Report sent to Management and Owner Rep. JA – would like to see a graphs in a more holistic view, grouping all sources together to produce max day of the system and average d Action Item: 17-012: Create graphs that display the max. day and average day of the entire system – assigned to MM with a de
5. Operational Performance – GWS Production	JD – reviewed the production trend graphs with the group highlighting the entire year and the quarter, F20-08 was signed and received No comments from the group

\*\* Refer to QMS Action Log for specific details regarding action items assigned during QMS Meetings



	🛛 Michael Munshaw (MM)
(JB)	⊠ Chris Harper (CH)
	🛛 Chris Marchant
om sampling – assig	gned to JD with a due date of Jan.31/17
F20-08 signed and received	

ces report provided to us from Eramosa. Errors were identified an accurate number form this report

as these values are verified monthly by their inclusion in the

day of the system

due date of Jan.31/17

/ed

Meeting Type: QMS Q4 Management Review Date: 2017-01-18

Agenda Item	Discussion/Decision
6. Operational Performance – SWS Production	JD – reviewed the production trend graphs with the group, same as above, F20-08 was signed and received JA – noted that the production for the month of November was noticeably reduced in the GWS system and noticeably increased in the CH – commented that work was done Eaglestone PRV however we need to look into the PRV that controls flow through Zone 2 South DT – commented that all PRVs were checked and work orders received did not identify an issue that he is aware of DM – commented on running a CityWorks report to verify
	Action Item: 17-013: run CityWorks report on PRV maintenance to identify any that may be stuck in an open or close position
7. Operational Performance – Work Orders	JD – reviewed the F20-07 results of all sectional work orders with the group, F20-08's signed and received from CTS, GWS, SWS, WI CM – commented on the large number of outstanding work orders as part of a larger project being conducted to rectify contractor insta DM – commented on reconsideration of categorization as no regulatory or emergency work orders should be appearing here during re
	Action Item: 17-014: re-categorization of work activities in question that have appeared in regulatory and emergency categori with a due date of April 19, 2017
8. Operational Performance – Call Outs	JD – reviewed call outs section of the F20-07 for both SWS and GWS, F20-08s signed and received for both DM – suggested that we consider dividing out the process areas for the plant
	JA – commented that this will be satisfied through alarm analytics, would like to see another graph type of represent this information
	Action Item: 17-015: work on different graphs types to better represent the Operational Performance – Call-outs data for Man 5, 2017
9. Operational Performance – Main Breaks	JD – reviewed with the group: main breaks by material, size, nature and cause, F20-08 signed and received
	No comments from the group
10. Operational Performance – Water Loss	JD – reviewed the water loss data as provided by MV, F20-08 signed and received DM – spoke to the task force available to us through NWWBI explaining documentation has been sent out this week, something to con required DT – commented that meters and backflow are at all but approximately 4 GWS stations now so this number will only become more ref
	MM – spoke to the complexities of the AWWA Water Loss Spreadsheet
	JA – commented that since our water loss number is considerably low we can anticipate that we are doing quite a good job recording to looking for a greater solution (what would be the real benefit?)
	CM – spoke to his concerns regarding I & I and or sources such as rinks and parks that required estimations to determine our water lo
<ol> <li>Raw Water Supply and Drinking Water Trends – Sodium</li> </ol>	JD – reviewed the summary graph of all stations sampled for sodium, F20-08 signed and received Group comment was made that the sodium is ever increasing at WPS 12
South	DT– commented that this well isn't running more than the others, operations staff are running the wells for approximately one hour per
12. Raw Water Supply and Drinking Water Trends -	JD – reviewed with the group only those stations that had detects in the VOC suite which included: Well 5, cis-1, 2 dichloroethylene, W
VOCs	finally Well 14, cis-1, 2 dichloroethylene and trichloroethylene AIP – commented that the Log style function would better represent some of the graphs that have low values and high Ontario Standa
	Action Item: 17-016: use the Log function when necessary to better represent the graphical information from the VOC graphs
13. Raw Water Supply and Drinking Water Trends –	JD – reviewed with the group the THM calculator, F20-08 signed and received
THMs	No comment from the group

### \*\* Refer to QMS Action Log for specific details regarding action items assigned during QMS Meetings



he SWS system graph uth and Zone 1

### on – assigned to DM with a due date of February 13, 2017

WDS, outstanding from WCS stallations (decimal issues) review

ories on the F20-07 in Management Review – assigned to DM

anagement Review – assigned to JD with a due date of April

consider but keep in mind it is a considerable amount of effort

refined

g these losses as is and therefore it should not necessitate

loss percentage (there's always room for improvement)

ber day

, Well 11, cis-1, 2 dichloroethylene and tetrachloroethylene and

dards

hs – assigned to JD with a due date of April 5, 2017

Meeting Type: QMS Q4 Management Review Date: 2017-01-18

Agenda Item	Discussion/Decision
14. Summary of Consumer Feedback	JD – showed a graphical representation of the customer complaints received and ameliorated over the past quarter, F20-08 signed an JA – inquired if we could look at this on GIS mapping DM – commented to the group that this is work that will be created for us through the IT department on our behalf, and is currently with
15. Efficacy of the Risk Assessment Process	JD – reviewed a summary of the results of the risk assessment conducted on July 5, 2016, read aloud the recommendations for consid
	Group had no comments (all were present in the July 5, 2016 risk assessment meeting)
16. Incidents of Regulatory Non-Compliance	JD – reviewed with the group the MOECC Drinking Water System Inspection Summary, no F20-08 was distributed for this, however th DM – noted that the title of the slide and the content do not correlate and a note should be added to be clear that there were no Regula information contained on the slide and table are Best Practice Issues and Actions Taken
	Action Item: 17-017: clarify slide #37 of Q4 Management Review to reflect that there were NO Incidents of Regulatory Non-Co
17. Operational Plan, Currency and Updates	JD – provided the group with a brief overview of the efficiencies found over the course of the year and our migration to InSite
	No comments from the group
<ol> <li>Raw Water Supply and Drinking Water Trends – 2015 Golder Report Summary</li> </ol>	JD – provided the group with a summary of the key points from the 2015 Golder Report focusing on the movement and detects of the I recommendations, F20-08 signed and received
	No comments from the group
19. Resources needed to Maintain QMS	DM – provided the group with a summary of the allocation of resources as have been maintained since 2015 without change and 14 be over the course of the year, F20-08 signed and received
	No comments from the group
20. Results of Internal/External Audits	JD – reviewed the key points as found in both of the audits, F20-08 signed and received with both audit reports attached
	No comments from the group
21. Results of Relevant Emergency Response Testing	AIP – provided a summary of the after action report from the new IMS structure of Emergency Response Testing reiterating that this had parked electronically after completion of the revolution on November 10, 2016
	No comments from the group
22. Results of Infrastructure Review	JD – reviewed briefly what was received from GWS however no other group contributed to this F20-08 DM – reviewed the DWQMS to ensure we understand what is required of us to satisfy this portion of the review
	Action Item: 17-018: Prepare a summary to satisfy the requirement of the DWQMS as it pertains to Infrastructure Review – as
23. Status of Management Items between Reviews	JD – conducted a review of the Action Log to identify that there are no past outstanding items requiring action of the BMT, no F20-08 a for this item
	No comments from the group
	I

\*\* Refer to QMS Action Log for specific details regarding action items assigned during QMS Meetings



#### and received

vith Annie Zhang

sideration in the 3 year review to be conducted in 2017

this data is verified for inclusion in the Annual Report to Council julatory non-compliances identified by the MOECC, and the

Compliance – assigned to JD with a due date of Jan 31, 2017

e North and South Plumes and the Municipal Aquifer, and the 5

bullet points of projects that the QMS Team have championed

has replaced the F20-06, After Action Report completed and

assigned to DM and CM with a due date of February 13, 2017

8 as the living document referred to as Action Log is the record

Meeting Type: QMS Q4 Management Review Date: 2017-01-18

Agenda Item	Discussion/Decision
24. Summary of CARs/CIPs	JD – provided the summary of the review as conducted by MV of the CARs and CIPs detailing the new progress of the CIP process ar resolution as a whole DM – noted to the group that although the CIP form has provided us with positive results it only provides work to be done on AWQIs ar initiatives to be proposed by staff, the only avenue that addresses this is the staff suggestion box
25. Summary of Staff Suggestions	DM – summarized the staff suggestions as they applied to QMS which outlined 4 suggestions for Management consideration Action Item: 17-019: Staff suggestions from Q4 Management Review to be discussed by BMT for consideration – assigned to
26. New Business	JD – 3 items were brought forward as new business for discussion, they were: Trending Lead Results, Removal/replacement of F20-0 JD – asked of the group if trending the results that we have so far would be interesting and or beneficial, and the group agreed to have Action Item: 17-020: graph Lead results for the past 4 or 5 years from lead sample sites for trending and presentation at Q1 2 of April 19, 2017 DM – shared with the group that due to the presentation style of the Management Review that the F20-08 does not serve much purpor and review of data will occur at the Management Review Meeting and will be collected on Management Review Meeting Minutes and f JB – shared with the group that with the addition of new sample parameter (HAA) and new sites to be added, Watertrax unique identifi should our either Eramosa of our Lab Tech for tag creation JA – added that lab services is in procurement review and therefore any and all required verbiage must make it into the procurement of Action Item: 17-021: Contact SGS to inform them of new sites and inquire what is may be required from us – assigned to JB/

Minutes Reviewed By	
⊠ Amanda Inglis-Petahtegoose (AIP)	
⊠ Diane Moreau (DM)	
⊠ Jeanette Dumais (JD)	
⊠ Jennifer Barrick (JB)	
⊠ Mark Vandergeest (MV)	
⊠ Michael Munshaw (MM)	
⊠ Chris Harper	
⊠ Chris Marchant	
🖂 Dave Truax	
⊠ Jamey Adams	

Next Meeting: 2017-04-19

\*\* Refer to QMS Action Log for specific details regarding action items assigned during QMS Meetings



#### and its evident improvement on our issue identification and

and or Non-conformances and does not in fact address positive

### to DM with a due date of January 26, 2017

-08, Watertrax/SGS and new sample sites ve a look at this for next Management Review Q1 2017

### 2017 Management Review – assigned to JD with a due date

ose, so moving forward the form will be retired and all comments d followed up with corresponding Action Log Items

ifier will no longer be created, SGS will require the addition as

documents

### B/DM with a due date of February 13, 2017