

APPENDIX B

Tables

TABLE 1
MONITORING WELL DETAILS
 Clarington Transformer Station
 Hydro One Networks Inc.

MOE WWR No.	Location			Coordinates			Elevation			Stick-up (m AGS)	Borehole Depth (m BGS)	Well Diameter (mm)	Screened Interval				Screened Material		Average Water Level		
	Well ID	Installation Date	Status	Eastings	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source				Top of Well Screen (m BGS)	Top of Well Screen (m AMSL)	Bottom of Well Screen (m BGS)	Bottom of Well Screen (m AMSL)	Screened Unit	Hydraulic Conductivity (m/s)	October 2014 (m AMSL)	October 2015 (m AMSL)	October 2016 (m AMSL)
Monitoring Wells																					
-	MW1-13S	Dec-13	Monitoring Well	673222	4872738	Hydro One (Sept 2014)	262.52	263.39	Hydro One (Sept 2014)	0.87	6.1	51	3.05	259.47	6.10	256.42	Silty Sand Till	9.E-08	262.26	260.50	258.91
-	MW1-13D	Dec-13	Monitoring Well	673222	4872738	Hydro One (Sept 2014)	262.52	263.42	Hydro One (Sept 2014)	0.90	15.2	51	12.19	250.33	15.24	247.28	Silty Sand Till	9.E-06	261.71	260.17	258.69
-	MW2-13S	Dec-13	Monitoring Well	672910	4872716	Hydro One (Sept 2014)	250.42	251.27	Hydro One (Sept 2014)	0.85	4.6	51	1.52	248.90	4.57	245.85	Silty Sand Till	2.E-07	250.28	250.35	249.90
-	MW2-13D	Dec-13	Monitoring Well	672906	4872714	Hydro One (Sept 2014)	250.40	251.26	Hydro One (Sept 2014)	0.86	15.2	51	12.19	238.21	15.24	235.16	Silty Sand Till	1.E-07	250.16	250.13	249.87
-	MW3-13S	Dec-13	Monitoring Well	672702	4872499	Hydro One (Sept 2014)	243.87	244.80	Hydro One (Sept 2014)	0.93	6.7	51	3.66	240.21	6.71	237.16	Silty Sand Till	7.E-09	243.37	243.42	242.55
-	MW3-13D	Dec-13	Monitoring Well	672703	4872495	Hydro One (Sept 2014)	244.03	244.97	Hydro One (Sept 2014)	0.94	15.2	51	12.19	231.84	15.24	228.79	Silty Sand Till	na	229.21	229.89	230.81
-	MW4-13S	Dec-13	Monitoring Well	673051	4872242	Hydro One (Sept 2014)	238.86	239.78	Hydro One (Sept 2014)	0.92	4.6	51	1.52	237.34	4.57	234.29	Sand Silty Sand Till	1.3.E-05	238.76	238.31	236.74
-	MW4-13D	Dec-13	Monitoring Well	673050	4872238	Hydro One (Sept 2014)	238.72	239.55	Hydro One (Sept 2014)	0.83	15.2	51	12.19	226.53	15.24	223.48	Silty Sand Till	na	224.30	226.23	229.51
-	MW4-15D	Jan-15	Monitoring Well	673050	4872238	Approximated from MW4-13D	238.72	239.47	Approximated from MW4-13D	0.75	25.1	51	19.89	218.83	22.94	215.78	Silty Sand Till	2.8.E-10	-	219.00	221.68
-	MW5-14S	Oct-14	Monitoring Well	672901	4872453	Field GPS (2014)	252.60	253.35	Hydro One Topography (0.25 m contours)	0.75	6.1	51	3.10	249.50	6.10	246.50	Sandy Silt Till Silty Sand Till	1.6.E-05	250.63	249.72	249.14
-	MW5-14S (2)	Nov-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.60	253.51	Hydro One Topography (0.25 m contours)	0.91	4.1	51	2.48	250.12	4.00	248.60	Sand	2.8.E-07	-	249.79	249.44
-	MW5-14I	Oct-14	Monitoring Well	672901	4872453	Field GPS (2014)	252.60	253.43	Hydro One Topography (0.25 m contours)	0.83	40.1	51	37.10	215.50	40.10	212.50	Silty Sand Till	1.3.E-09	-	236.41	237.04
-	MW5-14D	Dec-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.44	253.22	Hydro One Topography (0.25 m contours)	0.78	55.0	51	52.43	200.01	53.95	198.49	Sand	3.3.E-07	-	212.20	211.60
-	MW5-14D(2)	Dec-14	Monitoring Well	672901	4872453	Stantec GIS Mapping (2015)	252.44	253.52	Hydro One Topography (0.25 m contours)	1.08	129.5	51	112.01	140.43	113.54	138.90	Sand	-	-	219.85	219.43
-	MW6-14	Oct-14	Monitoring Well	673195	4872811	Field GPS (2014)	260.80	261.71	Hydro One Topography (0.25 m contours)	0.91	7.6	51	6.10	254.70	7.60	253.20	Silt Till	4.3.E-07	260.23	258.92	257.42
-	MW7-14	Oct-14	Monitoring Well	673254	4872654	Field GPS (2014)	261.75	262.65	Hydro One Topography (0.25 m contours)	0.90	7.6	51	6.10	255.65	7.60	254.15	Silt Till Sandy Silt Till	8.4.E-07	261.77	260.47	258.71
-	MW8-15	Jan-15	Abandoned	673082	4872565	Approximated from BH7D (EXP, 2012)	254.43	255.25	Approximated from BH7D (EXP, 2012)	0.82	16.9	51	13.72	240.71	15.24	239.19	Silty Sand to Sandy Silt Till	7.4.E-06	-	-	-
<p>Notes: Northing and Easting Coordinates presented as UTM NAD 83 Zone 17 na: not applicable m AGS: metres above ground surface m BGS: metres below ground surface m AMSL: metres above mean sea level A Following development / sampling, the well was slow to recover and static conditions were not achieved. The level is an approximation of static levels. B Water level reading from October 8, 2014</p>																					

TABLE 1
MONITORING WELL DETAILS
Clarington Tranformer Station
Hydro One Networks Inc.

MOE WWR No.	Well ID	Location		Coordinates			Elevation			Stick-up (m AGS)	Borehole Depth (m BGS)	Well Diameter (mm)	Screened Interval				Screened Material		
		Installation Date	Status	Eastings	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source				Top of Well Screen (m BGS)	(m AMSL)	Bottom of Well Screen (m BGS)	(m AMSL)	Screened Unit	Hydraulic Conductivity (m/s)	
Boreholes																			
7191922	BH2-12	Nov-12	Abandoned	673024	4872350	Inspect-Sol (2012)	246.40	247.30	Hydro One Topography (0.25 m contours)	0.90	15.9	na	12.15	234.25	15.20	231.20	Sandy Silt Till	-	
-	BH4-12	Nov-12	Abandoned	672719	4872330	Inspect-Sol (2012)	243.20	244.10	Hydro One Topography (0.25 m contours)	0.90	15.5	na	12.45	230.75	15.50	227.70	Sandy Silt Till	-	
-	BH7A	May-12	Abandoned	672989	4872568	EXP (2012)	253.20	na	Exp borehole log (2012)	na	15.7	na	4.70	248.50	7.75	245.45	Sandy Silt Till	-	
-	BH9-15	Mar-15	Abandoned	673015	4872580	Approximated from BH7A (EXP, 2012)	253.60	na	Approximated from BH7A (EXP, 2012)	na	10.1	na	na	na	na	na	na	-	
-	BH11-12	Nov-12	Abandoned	673034	4872779	Inspect-Sol (2012)	253.50	254.41	Hydro One Topography (0.25 m contours)	0.91	15.5	51	11.75	241.75	14.80	238.70	Sandy Silt Till Silt and Sand	-	
Drivepoint Piezometers																			
na	DP4-13 (MP4)	Dec-13	Piezometer	673055	4872236	Hydro One (Sept 2014)	238.41	239.09	Hydro One (Sept 2014)	0.68	1.57	25	1.15	237.26	1.57	236.84	na	-	
na	DP2-13 (MP2, SW2)	Dec-13	Abandoned	672900	4872725	Adjacent to DP2-14	250.10	251.14	Adjacent to DP2-14	1.04	1.21	25	0.79	249.31	1.21	248.89	na	-	
na	DP2-14 (MP2, SW2)	May-14	Piezometer	672900	4872725	Hydro One (Sept 2014)	250.10	251.62	Hydro One (Sept 2014)	1.52	1.34	25	0.92	249.18	1.34	248.76	na	-	
na	DP3-14 (MP3, SW3)	May-14	Piezometer	672684	4872500	Field GPS (2014)	240.00	241.69	Hydro One Topography (0.25 m contours)	1.69	0.87	25	0.45	239.55	0.87	239.13	na	-	
Test Pits																			
na	TP1-14	Oct-14	Abandoned	673189	4872613	Field GPS (2014)	256.40	na	Hydro One Topography (0.25 m contours)	na	4.88	na	na	na	na	na	na	Silty Sand Till	-
na	TP2-14	Oct-14	Abandoned	673151	4872714	Field GPS (2014)	258.20	na	Hydro One Topography (0.25 m contours)	na	4.57	na	na	na	na	na	na	Silty Sand Till	-
na	TP3-14	Oct-14	Abandoned	673129	4872784	Field GPS (2014)	257.10	na	Hydro One Topography (0.25 m contours)	na	3.96	na	na	na	na	na	na	Silty Sand Till	-

Notes:

Northing and Easting Coordinates presented as UTM NAD 83 Zone 17

na: not applicable

m AGS: metres above ground surface

m BGS: metres below ground surface

m AMSL: metres above mean sea level

A Following development / sampling, the well was slow to recover and static conditions were not achieved. The level is an approximation of static levels.

B Water level reading from October 8, 2014

TABLE 2
PRIVATE WELL DETAILS
Clarington Transformer Station
Hydro One Networks Inc.

Location		Coordinates			Elevation			Stick-up (m AGS)	Screened Unit
MOE WWR No.	Well ID	Easting	Northing	Source	Ground Surface m AMSL	Top of Casing m AMSL	Source		
Private / Residential Wells									
-	PW-01	673817	4872232	Aerial imagery	237.32	237.71	Regional Topography (5 m contours)	0.39	Shallow Overburden Up to 16 m BGS
7157947	PW-02	673848	4872147	Aerial imagery	237.86	238.34	Regional Topography (5 m contours)	0.48	Intermediate Overburden
-	PW-03	673913	4872207	Aerial imagery	234.24	234.48	Regional Topography (5 m contours)	0.24	Shallow Overburden Up to 16 m BGS
-	PW-04	673490	4872201	Aerial imagery	249.75	249.93	Regional Topography (5 m contours)	0.18	Shallow Overburden
-	PW-05	673357	4872116	Aerial imagery	255.40	255.92	Regional Topography (5 m contours)	0.52	Thornccliffe Formation
1908311	PW-06	674402	4872494	Aerial imagery	238.15	238.60	Regional Topography (5 m contours)	0.45	Thornccliffe Formation
-	PW-07	673230	4874110	Aerial imagery	268.68	268.76	Regional Topography (5 m contours)	0.08	Shallow Overburden Up to 16 m BGS
-	PW-08	671354	4873355	Aerial imagery	246.53	246.72	Regional Topography (5 m contours)	0.19	Shallow Overburden
-	PW-09	671476	4872872	Aerial imagery	249.20	249.50	Regional Topography (5 m contours)	0.30	Shallow Overburden Up to 16 m BGS
1910299 replaced 1916307	PW-10	673598	4872793	Aerial imagery	247.41	248.05	Regional Topography (5 m contours)	0.64	Thornccliffe Formation
1903520 1913606 amend	PW-11	674115	4872075	Aerial imagery	226.17	226.28	Regional Topography (5 m contours)	0.11	Shallow Overburden Up to 16 m BGS
-	PW-12	673793	4872111	Aerial imagery	238.38	238.49	Regional Topography (5 m contours)	0.11	Shallow Overburden Up to 16 m BGS
1917587	PW-13	671901	4871638	Aerial imagery	235.44	236.37	Regional Topography (5 m contours)	0.93	Thornccliffe Formation
-	PW-14	674186	4872309	Aerial imagery	231.30	231.38	Regional Topography (5 m contours)	0.08	Shallow Overburden Up to 16 m BGS
1905014	PW-15	673320	4873035	Aerial imagery	270.01	na	Regional Topography (5 m contours)	na	Thornccliffe Formation
-	PW-16	673564	4872887	Aerial imagery	250.69	251.25	Regional Topography (5 m contours)	0.56	Shallow Overburden Up to 16 m BGS
1907905	PW-17	673380	4872976	Aerial imagery	268.99	268.69	Regional Topography (5 m contours)	-0.30	Thornccliffe Formation
-	PW-18	673559	4872054	Aerial imagery	245.75	245.88	Regional Topography (5 m contours)	0.13	Thornccliffe Formation
-	PW-19	672554	4873767	Aerial imagery	271.15	271.60	Regional Topography (5 m contours)	0.45	Shallow Overburden Up to 16 m BGS
-	PW-20	673617	4872099	Aerial imagery	243.41	243.60	Regional Topography (5 m contours)	0.19	Shallow Overburden Up to 16 m BGS
1912514	PW-21	673702	4872069	Aerial imagery	240.29	240.77	Regional Topography (5 m contours)	0.48	Thornccliffe Formation
1918378	PW-22	672998	4872016	Aerial imagery	230.44	231.04	Regional Topography (5 m contours)	0.60	Thornccliffe Formation
-	PW-23	672313	4873467	Aerial imagery	261.68	261.68	Regional Topography (5 m contours)	0.00	Shallow Overburden Up to 16 m BGS
-	PW-24	673438	4872157	Aerial imagery	252.04	252.56	Regional Topography (5 m contours)	0.52	Shallow Overburden Up to 16 m BGS
-	PW-25	674115	4872337	Aerial imagery	234.44	235.14	Regional Topography (5 m contours)	0.70	Shallow Overburden Up to 16 m BGS

Notes:

Northing and Easting Coordinates presented as UTM NAD 83 Zone 17
-- not applicable
m AGS: metres above ground surface
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m AMSL: metres above mean sea level



Table 3
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location			SW2 2016 14-Apr-16	14-Apr-16	SW3 - 2016 3-Nov-16	3-Nov-16	SW4 - 2016 13-Apr-16
Sample Date							
Sample ID			WS-160900764- 20160414-AM03	WS-160900764- 20160414-AM02	WS-160900764- 20161103-AM001	WS-160900764- 20161103-AM002	WS-160900764- 20160413-AM01
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B674686	B674686	B6N9272	B6N9272	B674089
Laboratory Sample ID			CER846	CER845	DJQ261	DJQ262	CEO697
Sample Type	Units	PWGO				Field Duplicate	
General Chemistry							
Acidity	mg/L	n/v	16	10	10	12	15
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	250	220	120	120	260
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.8	2.3	<1.0	<1.0	2.6
Alkalinity, Total (as CaCO3)	mg/L	16 ^A	250	230	120	120	260
Ammonia (as N)	mg/L	n/v	0.13	<0.050	<0.050	<0.050	<0.050
Chloride	mg/L	n/v	21	32	46	46	41
Cyanide (Free)	µg/L	5 ^A	<2	<2	<1	<1	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	600	640	1400	1400	700
Fluoride	mg/L	n/v	0.10	0.12	0.61	0.60	<0.10
Hardness (as CaCO3)	mg/L	n/v	320	320	590	580	360
Langelier Index (at 20 C)	none	n/v	0.916	1.01	0.611	0.603	1.09
Langelier Index (at 4 C)	none	n/v	0.667	0.760	0.365	0.357	0.844
Nitrate (as N)	mg/L	n/v	1.07	4.58	2.67	2.63	0.74
Nitrate + Nitrite (as N)	mg/L	n/v	1.07	4.58	2.67	2.641	0.74
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	0.011	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 ^A	7.89	8.04	7.79	7.80	8.02
Phosphorus, Total	mg/L	0.03 ₃₄ ^C	0.020	0.022	0.033^C	0.033^C	0.063^C
Saturation pH (at 20 C)	none	n/v	6.98	7.03	7.18	7.19	6.93
Saturation pH (at 4 C)	none	n/v	7.22	7.28	7.43	7.44	7.18
Sulfate	mg/L	n/v	36	41	470	460	39
Total Dissolved Solids	mg/L	n/v	350	344	956	982	408
Total Organic Carbon	mg/L	n/v	4.1	3.4	3.8	3.8	3.2
Total Suspended Solids	mg/L	n/v	13	13	21	18	29
Turbidity, Lab	ntu	n/v	1.7	8.6	10	5.2	13
Petroleum Hydrocarbons							
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES
Metals, Dissolved							
Calcium	µg/L	n/v	110000	110000	190000	180000	120000
Magnesium	µg/L	n/v	8100	8800	32000	31000	12000
Potassium	µg/L	n/v	3000	2000	12000	12000	2000
Sodium	µg/L	n/v	8900	16000	95000	94000	18000
Metals, Total							
Aluminum	µg/L	75 ^C	200^C	190^C	440^C	410^C	680^C
Antimony	µg/L	20 ^C	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	100 ^A 5 ^C	<1	<1	<1	<1	<1
Barium	µg/L	n/v	50	37	79	72	61
Beryllium	µg/L	11/1100 ₃ ^A	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	200 ₃ ^C	24	35	710^C	680^C	28
Cadmium	µg/L	0.2 ^A 0.1/0.5 ₁₂ ^C	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	110000	110000	170000	170000	120000
Chromium	µg/L	n/v	<5	<5	<5	<5	<5
Chromium (Hexavalent)	µg/L	1 ^A	<0.50	0.68	<0.50	<0.50	<0.50
Cobalt	µg/L	0.9 ^A	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	µg/L	5 ^A 1/5 ₁₃ ^C	1	<1	<1	1	1.3^C
Iron	µg/L	300 ^A	250	250	490^A	480^A	830^A
Lead	µg/L	5/10/20/25 ₁₄ ^A 1/3/5 ₁₅ ^C	<0.5	<0.5	<0.5	<0.5	0.92
Magnesium	µg/L	n/v	8200	8800	31000	30000	12000
Manganese	µg/L	n/v	22	44	73	70	53
Mercury	µg/L	0.2 ^A	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40 ^C	<0.5	0.52	3.7	3.6	<0.5
Nickel	µg/L	25 ^A	<1	<1	1.1	1.2	<1
Phosphorus	µg/L	30 ₄ ^C	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2500	1500	11000	11000	2000
Selenium	µg/L	100 ^A	<2	<2	<2	<2	<2
Silicon	µg/L	n/v	2400	3300	3000	2900	4200
Silver	µg/L	0.1 ^A	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium	µg/L	n/v	8400	15000	86000	83000	16000
Strontium	µg/L	n/v	310	270	3000	2900	400
Thallium	µg/L	0.3 ₃ ^C	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	10	9.5	18	20	40
Uranium	µg/L	5 ₂ ^C	0.88	0.64	0.75	0.72	0.61
Vanadium	µg/L	6 ^C	0.8	0.76	1.2	1.2	1.6
Zinc	µg/L	30 ^A 20 ^C	<5	<5	11	13	11
Zirconium	µg/L	4 ₂ ^C	<1	<1	<1	<1	<1
Polychlorinated Biphenyls							
Aroclor 1016	µg/L	17 ^A	<0.01	<0.01	-	-	<0.01
Aroclor 1221	µg/L	17 ^A	<0.01	<0.01	-	-	<0.01
Aroclor 1232	µg/L	17 ^A	<0.01	<0.01	-	-	<0.01
Aroclor 1242	µg/L	17 ^A	<0.01	<0.01	<0.05	<0.05	<0.01
Aroclor 1248	µg/L	17 ^A	<0.01	<0.01	<0.05	<0.05	<0.01
Aroclor 1254	µg/L	17 ^A	<0.01	<0.01	<0.05	<0.05	<0.01
Aroclor 1260	µg/L	17 ^A	<0.01	<0.01	<0.05	<0.05	<0.01
Aroclor 1262	µg/L	17 ^A	<0.01	<0.01	-	-	<0.01
Aroclor 1268	µg/L	17 ^A	<0.01	<0.01	-	-	<0.01
Polychlorinated Biphenyls (PCBs)	µg/L	0.001 ₁₇ ^A	<0.01	<0.01	<0.05	<0.05	<0.01

See notes on last page

Table 3
Summary of Surface Water Analytical Results
Clarington Transformer Station
Hydro One Networks Inc.

Notes:

- PWQO Provincial Water Quality Objectives of the Ministry of Environment and Energy (MOEE, 1999)
- A PWQO Table 2
- B PWQO Table 2 - Calculated
- C PWQO Table 2 - Interim
- 6.5^A** Concentration exceeds the indicated standard.
- 15.2 Measured concentration did not exceed the indicated standard.
- <0.50** Laboratory reporting limit was greater than the applicable standard.
- <0.03 Analyte was not detected at a concentration greater than the laboratory reporting limit.
- n/v No standard/guideline value.
- Parameter not analyzed / not available.
- a This Interim PWQO was set for emergency purposes based on the best information readily available. Employ due caution when applying this value.
- b This Interim PWQO is currently under development. The value is subject to change upon publication by MOE.
- s3 The PWQO for beryllium is hardness dependent. If hardness <75 mg/L than PWQO is 0.011 mg/L. For hardness > 75 mg/L, PWQO is 1.1 mg/L.
- s4 Applies to Phosphorus, total. PWQO is 0.03 mg/L for rivers and streams, 0.02 mg/L for lakes, and 0.01 mg/L for lakes naturally below this value.
- s7 Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
- s10 The PWQO value for Total Xylenes is 72 ug/L, which is the sum of the PWQOs for the isomers.
- s12 The interim PWQO for cadmium is hardness dependent. If hardness <100 mg/L than PWQO is 0.0001 mg/L. For hardness >100 mg/L, PWQO is 0.0005 mg/L.
- s13 The interim PWQO for copper is hardness dependent. If hardness <20 mg/L than PWQO is 0.001 mg/L. For hardness >20 mg/L, PWQO is 0.005 mg/L.
- s14 PWQO for lead is alkalinity dependent. For alkalinity <20 mg/L, PWQO is 0.005 mg/L. For alkalinity between 20-40 mg/L, PWQO is 0.01 mg/L. For alkalinity between 40-80 mg/L, PWQO is 0.02 mg/L. For alkalinity >80 mg/L, PWQO is 0.025 mg/L.
- s15 Interim PWQO for lead is hardness dependent. For hardness <30 mg/L, interim PWQO is 0.001 mg/L. For hardness between 30-80 mg/L, interim PWQO is 0.003 mg/L. For hardness >80 mg/L, interim PWQO is 0.005 mg/L.
- s16 Alkalinity should not be decreased by more than 25% of the natural concentration.
- s17 The laboratory is unable to distinguish the m- and p-Xylene isomers, therefore the PWQO standards for m-Xylene (2 ug/L) and p-Xylene (30 ug/L) have been summed to apply to m&p-Xylenes.

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	MW1-13-D					
							13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16
Sample Type	Units	ODWS	Ontario SCS	WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A			
General Chemistry												
Acidity	mg/L	n/v	n/v	<10	-	<10	<10	-	-			
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	n/v	n/v	190	-	180	180	-	-			
Alkalinity, Carbonate (as CaCO ₃)	mg/L	n/v	n/v	2.0	-	2.2	2.4	-	-			
Alkalinity, Total (as CaCO ₃)	mg/L	30-500 ^F	n/v	190	-	180	180	-	-			
Ammonia (as N)	mg/L	n/v	n/v	0.077	-	0.074	0.069	-	-			
Anion Sum	meq/L	n/v	n/v	4.83	-	4.55	4.57	-	-			
Cation Sum	meq/L	n/v	n/v	4.70	-	4.52	4.35	-	-			
Chloride	mg/L	250 ^D	790 ^{GH}	16	-	14	14	-	-			
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	<1	-	-			
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	0.74	-	0.72	0.72	-	-			
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	430	-	420	420	-	-			
Fluoride	mg/L	1.5 ^B	n/v	0.28	-	0.28	0.28	-	-			
Hardness (as CaCO ₃)	mg/L	80-100 ^F	n/v	210 ^E	-	200 ^F	190 ^F	-	-			
Ion Balance	%	n/v	n/v	1.41	-	0.400	2.47	-	-			
Langelier Index (at 20 C)	none	n/v	n/v	0.386	-	0.370	0.379	-	-			
Langelier Index (at 4 C)	none	n/v	n/v	0.136	-	0.121	0.129	-	-			
Nitrate (as N)	mg/L	10.0 ^B	n/v	<0.10	-	<0.10	<0.10	-	-			
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	<0.10	-	<0.10	<0.10	-	-			
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	<0.010	-	-			
Orthophosphate(as P)	mg/L	n/v	n/v	0.010	-	<0.010	<0.010	-	-			
pH	S.U.	6.5-8.5 ^F	n/v	8.05	-	8.13	8.15	-	-			
Saturation pH (at 20 C)	none	n/v	n/v	7.67	-	7.76	7.77	-	-			
Saturation pH (at 4 C)	none	n/v	n/v	7.92	-	8.00	8.02	-	-			
Sulfate	mg/L	500 ^D	n/v	26	-	26	26	-	-			
Total Dissolved Solids	mg/L	500 ^D	n/v	188	-	250	270	-	-			
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	260	-	240	240	-	-			
Total Organic Carbon	mg/L	n/v	n/v	0.77	-	1.1	1.1	-	-			
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	12	-	-			
Turbidity, Lab	ntu	5 ^D	n/v	4.7	-	8.9 ^D	8.8 ^D	-	-			
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	<0.20	-	-			
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	-	<0.20	<0.20	-	-			
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	<0.20	-	-			
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	<0.20	-	-			
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	<0.20	-	-			
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	<0.20	-	-			
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	<25	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	<25	-	-			
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	-	<100	<100	-	-			
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	-	<200	<200	-	-			
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^C 500 ^H	<200	-	<200	<200	-	-			
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	YES	-	-			
Metals												
Aluminum	µg/L	100 ^E	n/v	5.6	-	<5	<5	-	-			
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	<0.5	-	-			
Arsenic	µg/L	25 ^C	25 ^{GH}	1.4	-	1.2	1.2	-	-			
Barium	µg/L	1000 ^B	1000 ^{GH}	110	-	100	100	-	-			
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	<0.5	-	-			
Boron	µg/L	5000 ^C	5000 ^{GH}	36	-	29	29	-	-			
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	<0.1	-	-			
Calcium	µg/L	n/v	n/v	27000	-	25000	24000	-	-			
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-			
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	<5	-	-			
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	<0.50	-	-			
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	<0.5	-	-			
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	<1	<1	-	-			
Iron	µg/L	300 ^D	n/v	170	-	120	110	-	-			
Lead	µg/L	10 ^C	10 ^{GH}	<0.5	-	<0.5	<0.5	-	-			
Magnesium	µg/L	n/v	n/v	34000	-	33000	31000	-	-			
Manganese	µg/L	50 ^D	n/v	6.3	-	6.5	6.1	-	-			
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	<0.1	-	-			
Molybdenum	µg/L	n/v	70 ^{GH}	1.9	-	1.9	1.8	-	-			
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	<1	-	-			
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	-	-			
Potassium	µg/L	n/v	n/v	2600	-	2500	2500	-	-			
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-			
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	<2	-	-			
Silicon	µg/L	n/v	n/v	10000	-	10000	10000	-	-			
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	<0.1	-	-			
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	12000	-	12000	11000	-	-			
Strontium	µg/L	n/v	n/v	570	-	650	640	-	-			
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	<0.05	-	-			
Titanium	µg/L	n/v	n/v	<5	-	<5	<5	-	-			
Uranium	µg/L	20 ^B	20 ^{GH}	<0.1	-	<0.1	<0.1	-	-			
Vanadium	µg/L	n/v	6.2 ^{GH}	0.67	-	<0.5	<0.5	-	-			
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	<5	<5	-	-			
Zirconium	µg/L	n/v	n/v	<1	-	<1	<1	-	-			
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	<0.05	-	-			
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	<0.05	-	-			
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	<0.05	-	-			
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	<0.05	-	-			
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	<0.05	-	-			

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW1-13-D							
									13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16		
								Units	ODWS	Ontario SCS	WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A
											STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
											MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
											B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980
											CEO882	CEO883	DJK320	DJK322	DJK321	DJK323
											Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
																Field Duplicate
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	<10	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	<1.0	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	<1.0	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	-	<0.50	<0.50	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	-	<0.30	<0.30	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	-	<0.40	<0.40	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.20	<0.20	-	-	-	-	-	-	-	-	-

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	MW1-13-S											MW2-13-D			
	Sample Date			13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16				
Sample ID				WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A	WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A				
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC				
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX				
Laboratory Work Order				B674114	B674114	B6N8983	B6N8983	B674631	B674631	B6N7980	B6N7980				
Laboratory Sample ID				CEO884	CEO885	DJO980	DJO981	CER543	CER544	DJK306	DJK307				
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals				
Sample Type	Units	ODWS	Ontario SCS												
General Chemistry															
Acidity	mg/L	n/v	n/v	18	-	20	-	<10	-	<10	-				
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	220	-	210	-	93	-	89	-				
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.8	-	1.8	-	<1.0	-	1.0	-				
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	230	-	210	-	93	-	90	-				
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-				
Anion Sum	meq/L	n/v	n/v	8.20	-	7.57	-	2.10	-	2.02	-				
Cation Sum	meq/L	n/v	n/v	7.69	-	7.42	-	2.16	-	1.91	-				
Chloride	mg/L	250 ^D	790 ^{GH}	25	-	26	-	<1.0	-	1.8	-				
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	-	<2	-	<1	-				
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	1.2	-	1.0	-	1.0	-	1.0	-				
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	780	-	720	-	190	-	190	-				
Fluoride	mg/L	1.5 ^B	n/v	0.10	-	0.15	-	0.84	-	0.79	-				
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	370 ^E	-	350 ^E	-	47 ^E	-	42 ^E	-				
Ion Balance	%	n/v	n/v	3.17	-	1.01	-	NC	-	NC	-				
Langelier Index (at 20 C)	none	n/v	n/v	0.795	-	0.755	-	-0.623	-	-0.410	-				
Langelier Index (at 4 C)	none	n/v	n/v	0.547	-	0.507	-	-0.874	-	-0.660	-				
Nitrate (as N)	mg/L	10.0 ^B	n/v	16.7 ^B	-	9.45	-	<0.10	-	<0.10	-				
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	16.7 ^B	-	9.45	-	<0.10	-	<0.10	-				
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-				
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-				
pH	S.U.	6.5-8.5 ^F	n/v	7.93	-	7.96	-	7.77	-	8.08	-				
Saturation pH (at 20 C)	none	n/v	n/v	7.14	-	7.20	-	8.40	-	8.49	-				
Saturation pH (at 4 C)	none	n/v	n/v	7.38	-	7.45	-	8.65	-	8.74	-				
Sulfate	mg/L	500 ^D	n/v	86	-	97	-	9.2	-	6.3	-				
Total Dissolved Solids	mg/L	500 ^D	n/v	496	-	468	-	136	-	166	-				
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	470	-	430	-	120	-	110	-				
Total Organic Carbon	mg/L	n/v	n/v	1.3	-	1.4	-	1.3	-	1.2	-				
Total Suspended Solids	mg/L	n/v	n/v	<10	-	100	-	<10	-	15	-				
Turbidity, Lab	ntu	5 ^D	n/v	6.3 ^D	-	8.7 ^D	-	1.0	-	5.0	-				
BTEX and Petroleum Hydrocarbons															
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-				
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	-	<0.20	-	<0.20	-	0.33	-				
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-				
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	0.26	-				
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-				
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	-	0.26	-				
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	-	<25	-				
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	-	<25	-	<25	-				
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	-	<100	-	<100	-	<100	-				
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	-	<200	-	<200	-	<200	-				
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^C 500 ^H	<200	-	<200	-	<200	-	<200	-				
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-				
Metals															
Aluminum	µg/L	100 ^E	n/v	<5	-	<5	-	<5	-	5.9	-				
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-				
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	<1	-	<1	-	<1	-				
Barium	µg/L	1000 ^B	1000 ^{GH}	61	-	61	-	20	-	18	-				
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-				
Boron	µg/L	5000 ^C	5000 ^{GH}	11	-	23	-	100	-	110	-				
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-				
Calcium	µg/L	n/v	n/v	95000	-	88000	-	9900	-	8500	-				
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-				
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	-	<5	-				
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	0.83	-	<0.50	-	<0.50	-	<0.50	-				
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-				
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	<1	-	<1	-	<1	-				
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	-	<100	-				
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-				
Magnesium	µg/L	n/v	n/v	33000	-	33000	-	5400	-	5000	-				
Manganese	µg/L	50 ^D	n/v	3.4	-	8.2	-	3.6	-	3.2	-				
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	-	<0.1	-				
Molybdenum	µg/L	n/v	70 ^{GH}	1.7	-	5	-	3.4	-	3.1	-				
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	-	<1	-	<1	-				
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-				
Potassium	µg/L	n/v	n/v	2300	-	4100	-	1800	-	2100	-				
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-				
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	-	<2	-				
Silicon	µg/L	n/v	n/v	6900	-	6900	-	4600	-	4500	-				
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-				
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	5000	-	5900	-	27000 ^F	-	23000 ^F	-				
Strontium	µg/L	n/v	n/v	310	-	360	-	260	-	250	-				
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-				
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	-	<5	-				
Uranium	µg/L	20 ^B	20 ^{GH}	1.7	-	2.8	-	0.11	-	<0.1	-				
Vanadium	µg/L	n/v	6.2 ^{GH}	0.83	-	0.56	-	<0.5	-	<0.5	-				
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	<5	-	<5	-	<5	-				
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-				
Polychlorinated Biphenyls															
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-				
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-				
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-				
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-				
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	-	<0.05	-	<0.05	-				

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW1-13-S				MW2-13-D			
									13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16
Units	ODWS	Ontario SCS	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A	WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
			B674114	B674114	B6N8983	B6N8983	B674631	B674631	B6N7980	B6N7980	B6N7980	B6N7980	B6N7980	B6N7980	B6N7980	
			CEO884	CEO885	DJO980	DJO981	CER543	CER544	DJK306	DJK306	DJK306	DJK306	DJK306	DJK306	DJK306	
			Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Naphthalene	µg/L	n/v	7 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^{GH}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^{GH}	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloroethane, 1,1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 1.1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloropropene, cis-1,3-	µg/L	n/v	1.1 ^{GH}	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	
Dichloropropene, trans-1,3-	µg/L	n/v	1.1 ^{GH}	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	-	<1.0	-	<1.0	-							

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	MW2-13-S					
							14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16
Sample Type	Units	ODWS	Ontario SCS	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A	WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A			
General Chemistry												
Acidity	mg/L	n/v	n/v	<10	<10	-	-	13	-			
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	190	190	-	-	200	-			
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	1.6	-	-	2.2	-			
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	190	190	-	-	200	-			
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	<0.050	-			
Anion Sum	meq/L	n/v	n/v	4.41	4.38	-	-	4.73	-			
Cation Sum	meq/L	n/v	n/v	4.30	4.17	-	-	4.57	-			
Chloride	mg/L	250 ^D	790 ^{GH}	5.1	5.2	-	-	5.5	-			
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	<2	-	-	<1	-			
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	0.75	0.81	-	-	2.1	-			
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	380	380	-	-	440	-			
Fluoride	mg/L	1.5 ^B	n/v	0.28	0.28	-	-	0.30	-			
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	190 ^E	180 ^E	-	-	200 ^E	-			
Ion Balance	%	n/v	n/v	1.29	2.49	-	-	1.71	-			
Langelier Index (at 20 C)	none	n/v	n/v	0.318	0.324	-	-	0.513	-			
Langelier Index (at 4 C)	none	n/v	n/v	0.0690	0.0740	-	-	0.264	-			
Nitrate (as N)	mg/L	10.0 ^B	n/v	<0.10	<0.10	-	-	<0.10	-			
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	<0.10	<0.10	-	-	<0.10	-			
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	<0.010	-	-	<0.010	-			
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	0.010	-	-	<0.010	-			
pH	S.U.	6.5-8.5 ^E	n/v	7.93	7.96	-	-	8.06	-			
Saturation pH (at 20 C)	none	n/v	n/v	7.61	7.64	-	-	7.55	-			
Saturation pH (at 4 C)	none	n/v	n/v	7.86	7.89	-	-	7.80	-			
Sulfate	mg/L	500 ^D	n/v	23	23	-	-	24	-			
Total Dissolved Solids	mg/L	500 ^D	n/v	234	234	-	-	262	-			
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	230	220	-	-	250	-			
Total Organic Carbon	mg/L	n/v	n/v	1.1	1.0	-	-	2.3	-			
Total Suspended Solids	mg/L	n/v	n/v	10	13	-	-	56	-			
Turbidity, Lab	ntu	5 ^D	n/v	9.9 ^D	7.5 ^D	-	-	14 ^D	-			
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	<0.20	-	-	<0.20	-			
Toluene	µg/L	24 ^D	24 ^C 22 ^H	<0.20	<0.20	-	-	<0.20	-			
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	<0.20	-	-	<0.20	-			
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	<0.20	-	-	<0.20	-			
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	<0.20	-	-	<0.20	-			
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	<0.20	-	-	<0.20	-			
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	<25	-	-	<25	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	<25	-	-	<25	-			
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	<100	-	-	<100	-			
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	<200	-	-	<200	-			
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^C 500 ^H	<200	<200	-	-	<200	-			
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-			
Metals												
Aluminum	µg/L	100 ^E	n/v	<5	<5	-	-	<5	-			
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	<0.5	-	-	<0.5	-			
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	<1	-	-	<1	-			
Barium	µg/L	1000 ^B	1000 ^{GH}	59	58	-	-	66	-			
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	<0.5	-	-	<0.5	-			
Boron	µg/L	5000 ^C	5000 ^{GH}	38	35	-	-	52	-			
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	<0.1	-	-	<0.1	-			
Calcium	µg/L	n/v	n/v	32000	31000	-	-	36000	-			
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-			
Chromium	µg/L	50 ^B	50 ^{GH}	<5	<5	-	-	<5	-			
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	<0.50	-	-	<0.50	-			
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	<0.5	-	-	<0.5	-			
Copper	µg/L	1000 ^D	69 ^{GH}	<1	<1	-	-	<1	-			
Iron	µg/L	300 ^D	n/v	<100	<100	-	-	<100	-			
Lead	µg/L	10 ^C	10 ^{GH}	<0.5	<0.5	-	-	<0.5	-			
Magnesium	µg/L	n/v	n/v	27000	26000	-	-	28000	-			
Manganese	µg/L	50 ^D	n/v	21	20	-	-	27	-			
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	<0.1	-	-	<0.1	-			
Molybdenum	µg/L	n/v	70 ^{GH}	2.5	2.3	-	-	2.6	-			
Nickel	µg/L	n/v	100 ^{GH}	<1	<1	-	-	<1	-			
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	-			
Potassium	µg/L	n/v	n/v	2200	2100	-	-	2600	-			
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-			
Selenium	µg/L	10 ^B	10 ^{GH}	<2	<2	-	-	<2	-			
Silicon	µg/L	n/v	n/v	6800	6600	-	-	7800	-			
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	<0.1	-	-	<0.1	-			
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	10000	9700	-	-	10000	-			
Strontium	µg/L	n/v	n/v	520	520	-	-	610	-			
Thallium	µg/L	n/v	2 ^{GH}	<0.05	<0.05	-	-	<0.05	-			
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	-			
Uranium	µg/L	20 ^B	20 ^{GH}	0.49	0.56	-	-	0.58	-			
Vanadium	µg/L	n/v	6.2 ^{GH}	0.73	<0.5	-	-	0.74	-			
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	<5	-	-	<5	-			
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	-			
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-			
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-			
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-			
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-			
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	<0.05	-	-	<0.05	-			

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW2-13-5					
									14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Duplicate	Field Filtered Metals	Lab Filtered Metals			
Semi - Volatile Organic Compounds														
Phthalates														
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1			
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2			
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Benzo(b,j)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28			
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Remaining Semi - Volatile Organic Compounds														
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1			
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2			
Dinitrotoluene, 2,4-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			
Dinitrotoluene, 2,6-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3			
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Volatile Organic Compounds														
Acetone	µg/L	n/v	2700 ^{GH}	<10	<10	-	-	<10	-	-	-			
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	<1.0	-	-	<1.0	-	-	-			
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	-			
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	<1.0	-	-	<1.0	-	-	-			
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	-			
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichloroethane, 1,1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	<0.50	-	-	<0.50	-	-	-			
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	<0.30	-	-	<0.30	-	-	-			
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	<0.40	-	-	<0.40	-	-	-			
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	-			
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	<1.0	-	-	<1.0	-	-	-			
Methyl Ethyl Ketone (MEK) [2-Butanone]	µg/L	n/v	1800 ^{GH}	<10	<10	-	-	<10	-	-	-			
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	<5.0	-	-	<5.0	-	-	-			
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^{GH} 50 ^H	<2.0	<2.0	-	-	<2.0	-	-	-			
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^{GH} 1.6 ^H	<0.50	<0.50	-	-	<0.50	-	-	-			
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^{GH} 200 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^{GH} 4.7 ^H	<0.50	<0.50	-	-	<0.50	-	-	-			
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	-			
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	-			
Trihalomethanes	µg/L	100 ^B	n/v	-	-	-	-	-	-	-	-			
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	-			

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW3-13-D				MW3-13-S			
									14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Units	ODWS	Ontario SCS	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC						
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX						
			B674631	B674631	B6N9173	B6N9173	B674631	B674631	B6N9173	B6N9173						
			CER537	CER538	DJP832	DJP833	CER539	CER540	DJP834	DJP835						
			Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals						
General Chemistry																
Acidity	mg/L	n/v	n/v	18	-	10	-	15	-	12	-					
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	170	-	160	-	230	-	230	-					
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	<1.0	-	1.3	-	1.7	-	2.1	-					
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	170	-	160	-	230	-	230	-					
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-					
Anion Sum	meq/L	n/v	n/v	18.2	-	16.3	-	7.13	-	6.98	-					
Cation Sum	meq/L	n/v	n/v	18.5	-	17.2	-	7.02	-	7.00	-					
Chloride	mg/L	250 ^D	790 ^{GH}	24	-	22	-	13	-	13	-					
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	-	<2	-	<1	-					
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	2.0	-	1.6	-	1.8	-	1.1	-					
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	1700	-	1600	-	660	-	650	-					
Fluoride	mg/L	1.5 ^B	n/v	0.32	-	0.32	-	0.31	-	0.28	-					
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	510 ^E	-	460 ^F	-	300 ^E	-	290 ^E	-					
Ion Balance	%	n/v	n/v	1.08	-	2.49	-	0.820	-	0.140	-					
Langelier Index (at 20 C)	none	n/v	n/v	0.325	-	0.637	-	0.576	-	0.675	-					
Langelier Index (at 4 C)	none	n/v	n/v	0.0800	-	0.391	-	0.327	-	0.426	-					
Nitrate (as N)	mg/L	10.0 ^B	n/v	0.49	-	0.35	-	1.52	-	1.19	-					
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	0.49	-	0.35	-	1.52	-	1.19	-					
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-					
Orthophosphate(as P)	mg/L	n/v	n/v	0.019	-	0.012	-	<0.010	-	0.013	-					
pH	S.U.	6.5-8.5 ^F	n/v	7.60	-	7.96	-	7.90	-	7.99	-					
Saturation pH (at 20 C)	none	n/v	n/v	7.27	-	7.32	-	7.32	-	7.32	-					
Saturation pH (at 4 C)	none	n/v	n/v	7.52	-	7.56	-	7.57	-	7.57	-					
Sulfate	mg/L	500 ^D	n/v	680 ^D	-	600 ^D	-	98	-	91	-					
Total Dissolved Solids	mg/L	500 ^D	n/v	1340 ^D	-	1160 ^D	-	410	-	400	-					
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	1200 ^D	-	1100 ^D	-	390	-	380	-					
Total Organic Carbon	mg/L	n/v	n/v	2.9	-	2.3	-	1.8	-	1.2	-					
Total Suspended Solids	mg/L	n/v	n/v	120	-	440	-	10	-	91	-					
Turbidity, Lab	ntu	5 ^D	n/v	87 ^D	-	290 ^D	-	7.4 ^D	-	6.0 ^D	-					
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Toluene	µg/L	24 ^D	24 ^C 22 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	-	<25	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	-	<25	-	<25	-					
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	-	<100	-	<100	-	<100	-					
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	-	<200	-	<200	-	<200	-					
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^C 500 ^H	<200	-	<200	-	<200	-	<200	-					
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-					
Metals																
Aluminum	µg/L	100 ^E	n/v	<5	-	<5	-	<5	-	<5	-					
Antimony	µg/L	6 ^C	6 ^{GH}	0.54	-	<0.5	-	<0.5	-	<0.5	-					
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	<1	-	<1	-	<1	-					
Barium	µg/L	1000 ^B	1000 ^{GH}	30	-	23	-	49	-	52	-					
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Boron	µg/L	5000 ^C	5000 ^{GH}	320	-	290	-	83	-	86	-					
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Calcium	µg/L	n/v	n/v	120000	-	110000	-	58000	-	58000	-					
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-					
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	-	<5	-					
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-					
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Copper	µg/L	1000 ^D	69 ^{GH}	3.5	-	<1	-	<1	-	<1	-					
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	-	<100	-					
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Magnesium	µg/L	n/v	n/v	47000	-	43000	-	36000	-	36000	-					
Manganese	µg/L	50 ^D	n/v	27	-	13	-	4.3	-	3.1	-					
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Molybdenum	µg/L	n/v	70 ^{GH}	67	-	63	-	9.6	-	8.5	-					
Nickel	µg/L	n/v	100 ^{GH}	1.9	-	1.6	-	<1	-	<1	-					
Phosphorus	µg/L	n/v	n/v	530	-	<100	-	<100	-	<100	-					
Potassium	µg/L	n/v	n/v	6200	-	5500	-	5400	-	5400	-					
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-					
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	-	<2	-					
Silicon	µg/L	n/v	n/v	3800	-	4000	-	5400	-	6100	-					
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	190000 ^F	-	180000 ^F	-	23000 ^F	-	23000 ^F	-					
Strontium	µg/L	n/v	n/v	1900	-	1700	-	780	-	780	-					
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	-	<5	-					
Uranium	µg/L	20 ^B	20 ^{GH}	6.1	-	5.4	-	3.5	-	3.5	-					
Vanadium	µg/L	n/v	6.2 ^{GH}	0.66	-	<0.5	-	0.85	-	0.8	-					
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	<5	-	<5	-	<5	-					
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-					
Polychlorinated Biphenyls																
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	-	<0.05	-	<0.05	-					

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW3-13-D				MW3-13-S			
									14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Units	ODWS	Ontario SCS	WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
			B674631	B674631	B6N9173	B6N9173	B674631	B674631	B6N9173	B6N9173	B6N9173	B6N9173	B6N9173	B6N9173	B6N9173	B6N9173
			CER537	CER538	DJP832	DJP832	CER539	CER540	DJP834	DJP834	DJP834	DJP834	DJP834	DJP834	DJP834	DJP834
			Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	0.06^{BGH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<1.1	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichloroethane, 1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^{H</}													

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW4-13-D		MW4-15D		MW4-13-S			
									31-Oct-16	31-Oct-16	12-Apr-16	12-Apr-16	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16
Units	ODWS	Ontario SCS	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A	WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
			B6N7980	B6N7980	B673021	B673021	B674114	B674114	B674114	B674114	B674114	B674114	B674114	B674114	B674114	
			DJK300	DJK301	CEK201	CEK202	CEO890	CEO891	CEO890	CEO891	CEO890	CEO891	CEO890	CEO891	CEO890	
			Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	
General Chemistry																
Acidity	mg/L	n/v	n/v	<10	-	<10	-	38	-	44	-	-	-	-	-	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	130	-	140	-	280	-	290	-	-	-	-	-	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	-	<1.0	-	1.4	-	1.4	-	-	-	-	-	
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	130	-	140	-	280	-	300	-	-	-	-	-	
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-	-	-	-	-	
Anion Sum	meq/L	n/v	n/v	8.63	-	4.85	-	10.3	-	10.1	-	-	-	-	-	
Cation Sum	meq/L	n/v	n/v	8.24	-	4.66	-	9.49	-	9.17	-	-	-	-	-	
Chloride	mg/L	250 ^D	790 ^{GH}	9.7	-	6.6	-	100	-	40	-	-	-	-	-	
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<1	-	<2	-	<2	-	<1	-	-	-	-	-	
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	0.88	-	2.8	-	2.3	-	1.6	-	-	-	-	-	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	840	-	480	-	1000	-	950	-	-	-	-	-	
Fluoride	mg/L	1.5 ^B	n/v	0.63	-	0.89	-	<0.10	-	0.15	-	-	-	-	-	
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	180 ^E	-	69 ^E	-	400 ^E	-	390 ^E	-	-	-	-	-	
Ion Balance	%	n/v	n/v	2.33	-	2.00	-	4.11	-	4.70	-	-	-	-	-	
Langelier Index (at 20 C)	none	n/v	n/v	0.281	-	-0.334	-	0.813	-	0.745	-	-	-	-	-	
Langelier Index (at 4 C)	none	n/v	n/v	0.0340	-	-0.584	-	0.566	-	0.497	-	-	-	-	-	
Nitrate (as N)	mg/L	10.0 ^B	n/v	0.10	-	<0.10	-	<0.10	-	0.25	-	-	-	-	-	
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	0.10	-	<0.10	-	<0.10	-	0.25	-	-	-	-	-	
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	-	-	-	-	
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	0.010	-	<0.010	-	<0.010	-	-	-	-	-	
pH	S.U.	6.5-8.5 ^F	n/v	8.05	-	7.72	-	7.72	-	7.69	-	-	-	-	-	
Saturation pH (at 20 C)	none	n/v	n/v	7.77	-	8.05	-	6.91	-	6.95	-	-	-	-	-	
Saturation pH (at 4 C)	none	n/v	n/v	8.02	-	8.30	-	7.15	-	7.19	-	-	-	-	-	
Sulfate	mg/L	500 ^D	n/v	270	-	86	-	90	-	150	-	-	-	-	-	
Total Dissolved Solids	mg/L	500 ^D	n/v	568 ^D	-	314	-	594 ^D	-	640 ^D	-	-	-	-	-	
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	540 ^D	-	290	-	550 ^D	-	550 ^D	-	-	-	-	-	
Total Organic Carbon	mg/L	n/v	n/v	1.3	-	4.3	-	2.4	-	2.1	-	-	-	-	-	
Total Suspended Solids	mg/L	n/v	n/v	28	-	18	-	<10	-	16	-	-	-	-	-	
Turbidity, Lab	ntu	5 ^D	n/v	14 ^D	-	56 ^D	-	3.9	-	9.0 ^D	-	-	-	-	-	
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-	-	-	-	
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	-	<25	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	-	<25	-	<25	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^D 150 ^H	<100	-	<100	-	<100	-	<100	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^D 500 ^H	<200	-	<200	-	<200	-	<200	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^D 500 ^H	<200	-	<200	-	<200	-	<200	-	-	-	-	-	
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	-	-	-	-	
Metals																
Aluminum	µg/L	100 ^E	n/v	<5	-	10	-	<5	-	<5	-	-	-	-	-	
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	0.91	-	<0.5	-	<0.5	-	-	-	-	-	
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	2.1	-	<1	-	<1	-	-	-	-	-	
Barium	µg/L	1000 ^B	1000 ^{GH}	26	-	37	-	64	-	120	-	-	-	-	-	
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	
Boron	µg/L	5000 ^C	5000 ^{GH}	320	-	210	-	33	-	58	-	-	-	-	-	
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	
Calcium	µg/L	n/v	n/v	39000	-	17000	-	140000	-	120000	-	-	-	-	-	
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	-	<5	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-	-	-	-	
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	<1	-	<1	-	<1	-	-	-	-	-	
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	-	<100	-	-	-	-	-	
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	
Magnesium	µg/L	n/v	n/v	19000	-	6700	-	14000	-	23000	-	-	-	-	-	
Manganese	µg/L	50 ^D	n/v	<2	-	<2	-	2.5	-	3.7	-	-	-	-	-	
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	
Molybdenum	µg/L	n/v	70 ^{GH}	100 ^{GH}	-	64	-	<0.5	-	0.56	-	-	-	-	-	
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	-	<1	-	<1	-	-	-	-	-	
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-	-	-	-	-	
Potassium	µg/L	n/v	n/v	4300	-	1500	-	800	-	1700	-	-	-	-	-	
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	-	<2	-	-	-	-	-	
Silicon	µg/L	n/v	n/v	3200	-	3700	-	3400	-	7400	-	-	-	-	-	
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	100000 ^F	-	74000 ^F	-	35000 ^F	-	29000 ^F	-	-	-	-	-	
Strontium	µg/L	n/v	n/v	920	-	440	-	410	-	660	-	-	-	-	-	
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	-	-	-	
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	-	<5	-	-	-	-	-	
Uranium	µg/L	20 ^B	20 ^{GH}	2	-	2	-	0.76	-	0.8	-	-	-	-	-	
Vanadium	µg/L	n/v	6.2 ^{GH}	<0.5	-	0.93	-	0.6	-	<0.5	-	-	-	-	-	
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	<5	-	<5	-	<5	-	-	-	-	-	
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-	-	-	-	-	
Polychlorinated Biphenyls																
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	-	-	-	
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	-	-	-	
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	-	-	-	
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-	-	-	-	

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW4-13-D		MW4-15D		MW4-13-S			
									31-Oct-16	31-Oct-16	12-Apr-16	12-Apr-16	13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals		
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	2	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	0.2	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	0.02 ^{BGH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloroethane, 1,1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	<0.30	-	
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	<0.40	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	<0.20	-	
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	<1.0	-	
Methyl Ethyl Ketone (MEK) [2-Butanone]	µg/L	n/v	1800 ^{GH}	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	<5.0	-	
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	<0.50	-	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^{GH} 50 ^H	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	-	
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-					

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-D				MW5-14-I			
									12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Units	ODWS	Ontario SCS	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A	WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A	WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A						
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC						
			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX						
			B673021	B673021	B6N8983	B6N8983	B673021	B673021	B6N8983	B6N8983						
			CEK211	CEK212	DJO970	DJO971	CEK209	CEK210	DJO976	DJO977						
			Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals						
General Chemistry																
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<10	-	<10	-					
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	140	-	130	-	100	-	90	-					
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	2.6	-	1.4	-	1.3	-					
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	140	-	130	-	100	-	92	-					
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-					
Anion Sum	meq/L	n/v	n/v	3.55	-	3.50	-	2.69	-	2.37	-					
Cation Sum	meq/L	n/v	n/v	2.74	-	2.51	-	2.57	-	2.28	-					
Chloride	mg/L	250 ^D	790 ^{GH}	4.0	-	2.6	-	3.3	-	2.5	-					
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	-	<2	-	<1	-					
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	4.1	-	2.0	-	1.0	-	1.0	-					
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	260	-	270	-	240	-	230	-					
Fluoride	mg/L	1.5 ^B	n/v	1.3	-	1.3	-	1.6 ^B	-	1.5	-					
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	28 ^F	-	25 ^E	-	18 ^F	-	17 ^E	-					
Ion Balance	%	n/v	n/v	12.9	-	16.4	-	NC	-	NC	-					
Langelier Index (at 20 C)	none	n/v	n/v	-0.341	-	-0.210	-	-0.447	-	-0.539	-					
Langelier Index (at 4 C)	none	n/v	n/v	-0.589	-	-0.458	-	-0.697	-	-0.790	-					
Nitrate (as N)	mg/L	10.0 ^B	n/v	<0.10	-	<0.10	-	<0.10	-	<0.10	-					
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	<0.10	-	<0.10	-	<0.10	-	<0.10	-					
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-					
Orthophosphate(as P)	mg/L	n/v	n/v	<0.10 DB	-	0.014	-	0.012	-	0.013	-					
pH	S.U.	6.5-8.5 ^F	n/v	8.12	-	8.32	-	8.17	-	8.18	-					
Saturation pH (at 20 C)	none	n/v	n/v	8.46	-	8.53	-	8.62	-	8.72	-					
Saturation pH (at 4 C)	none	n/v	n/v	8.71	-	8.78	-	8.87	-	8.97	-					
Sulfate	mg/L	500 ^D	n/v	31	-	34	-	20	-	18	-					
Total Dissolved Solids	mg/L	500 ^D	n/v	532 ^D	-	444	-	160	-	140	-					
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	190	-	180	-	150	-	130	-					
Total Organic Carbon	mg/L	n/v	n/v	6.4	-	14	-	1.5	-	1.4	-					
Total Suspended Solids	mg/L	n/v	n/v	40	-	890	-	<10	-	23	-					
Turbidity, Lab	ntu	5 ^D	n/v	1300 ^D	-	140 ^D	-	29 ^D	-	22 ^D	-					
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Toluene	µg/L	24 ^D	24 ^C 22 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-					
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	-	<25	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	-	<25	-	<25	-					
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^D 150 ^H	<100	-	<100	-	<100	-	<100	-					
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^D 500 ^H	<200	-	<200	-	<200	-	<200	-					
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^D 500 ^H	<200	-	<200	-	<200	-	<200	-					
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-					
Metals																
Aluminum	µg/L	100 ^F	n/v	48	-	31	-	86	-	85	-					
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Arsenic	µg/L	25 ^C	25 ^{GH}	2.5	-	1.5	-	2.2	-	2.4	-					
Barium	µg/L	1000 ^B	1000 ^{GH}	7.9	-	7.6	-	7.4	-	3.1	-					
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Boron	µg/L	5000 ^C	5000 ^{GH}	200	-	210	-	220	-	230	-					
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Calcium	µg/L	n/v	n/v	7600	-	6300	-	5400	-	4800	-					
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-					
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	-	<5	-					
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-					
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	<1	-	<1	-	<1	-					
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	-	<100	-					
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-					
Magnesium	µg/L	n/v	n/v	2300	-	2100	-	1200	-	1200	-					
Manganese	µg/L	50 ^D	n/v	3.7	-	3.8	-	<2	-	<2	-					
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Molybdenum	µg/L	n/v	70 ^{GH}	7.9	-	5.6	-	10	-	8.6	-					
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	-	<1	-	<1	-					
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-					
Potassium	µg/L	n/v	n/v	600	-	500	-	700	-	630	-					
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-					
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	-	<2	-					
Silicon	µg/L	n/v	n/v	3600	-	3400	-	2800	-	2900	-					
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-					
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	50000 ^F	-	46000 ^F	-	50000 ^F	-	44000 ^F	-					
Strontium	µg/L	n/v	n/v	120	-	110	-	78	-	79	-					
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	-	<5	-					
Uranium	µg/L	20 ^B	20 ^{GH}	0.5	-	0.43	-	1.7	-	1.1	-					
Vanadium	µg/L	n/v	6.2 ^{GH}	<0.5	-	<0.5	-	1.8	-	1.6	-					
Zinc	µg/L	5000 ^D	890 ^{GH}	38	-	<5	-	<5	-	<5	-					
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-					
Polychlorinated Biphenyls																
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-					
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	-	<0.05	-	<0.05	-					

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-D				MW5-14-I			
									12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals				
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	3	<1	6	<1	<1	<1	<1				
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	0.1	0.3	<0.1	<0.1	0.4	0.5	<0.1	<0.1	<0.1				
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28				
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1				
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2				
Dinitrotoluene, 2,4-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				
Dinitrotoluene, 2,6-	µg/L	n/v	5.1 ^{GH} 5.1 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	-	<10	-	-				
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloroethane, 1,1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	-	<0.30	-	<0.30	-	<0.30	-	-				
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	-	<0.40	-	<0.40	-	<0.40	-	-				
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Methyl Ethyl Ketone (MEK) [2-Butanone]	µg/L	n/v	1800 ^{GH}	<10	-	<10	-	<10	-	<10	-	-				
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	-	<5.0	-	<5.0	-	<5.0	-	-				
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^{GH} 50 ^H	<2.0	-	<2.0	-	<2.0	-	<2.0	-	-				
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^{GH} 200 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^{GH} 4.7 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Trihalomethanes	µg/L	100 ^B	n/v	-	-	-	-	-	-	-	-	-				
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-S									
									12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16		
Units	ODWS	Ontario SCS	WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A								
General Chemistry																		
Acidity	mg/L	n/v	n/v	37	42	-	-	24	-	24	-							
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	280	280	-	-	240	-	240	-							
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	1.5	-	-	1.9	-	1.7	-							
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	290	280	-	-	240	-	240	-							
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	<0.050	-	<0.050	-							
Anion Sum	meq/L	n/v	n/v	7.32	7.25	-	-	6.14	-	6.18	-							
Cation Sum	meq/L	n/v	n/v	7.63	7.57	-	-	6.09	-	6.03	-							
Chloride	mg/L	250 ^D	790 ^{GH}	23	22	-	-	10	-	10	-							
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	<2	-	-	<1	-	<1	-							
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	1.1	1.0	-	-	0.90	-	0.89	-							
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	700	700	-	-	590	-	590	-							
Fluoride	mg/L	1.5 ^B	n/v	<0.10	<0.10	-	-	<0.10	-	<0.10	-							
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	370 ^E	360 ^E	-	-	290 ^E	-	290 ^E	-							
Ion Balance	%	n/v	n/v	2.08	2.12	-	-	0.440	-	1.25	-							
Langelier Index (at 20 C)	none	n/v	n/v	0.822	0.850	-	-	0.832	-	0.802	-							
Langelier Index (at 4 C)	none	n/v	n/v	0.573	0.601	-	-	0.583	-	0.553	-							
Nitrate (as N)	mg/L	10.0 ^B	n/v	6.41	6.56	-	-	6.83	-	6.84	-							
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	6.41	6.56	-	-	6.83	-	6.84	-							
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-							
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-							
pH	S.U.	6.5-8.5 ^F	n/v	7.71	7.74	-	-	7.92	-	7.88	-							
Saturation pH (at 20 C)	none	n/v	n/v	6.89	6.89	-	-	7.09	-	7.07	-							
Saturation pH (at 4 C)	none	n/v	n/v	7.14	7.14	-	-	7.33	-	7.32	-							
Sulfate	mg/L	500 ^D	n/v	24	24	-	-	27	-	26	-							
Total Dissolved Solids	mg/L	500 ^D	n/v	402	396	-	-	346	-	310	-							
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	400	400	-	-	340	-	340	-							
Total Organic Carbon	mg/L	n/v	n/v	1.1	1.1	-	-	0.81	-	0.82	-							
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	<10	-	<10	-							
Turbidity, Lab	ntu	5 ^D	n/v	2.9	3.0	-	-	4.1	-	3.3	-							
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	<0.20	-	-	<0.20	-	<0.20	-							
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	<25	-	-	<25	-	<25	-							
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	<25	-	-	<25	-	<25	-							
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^D 150 ^H	<100	<100	-	-	<100	-	<100	-							
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^D 500 ^H	<200	<200	-	-	<200	-	<200	-							
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^D 500 ^H	<200	<200	-	-	<200	-	<200	-							
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-	YES	-							
Metals																		
Aluminum	µg/L	100 ^E	n/v	<5	<5	-	-	5.6	-	6.6	-							
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	<0.5	-	-	<0.5	-	<0.5	-							
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	<1	-	-	<1	-	<1	-							
Barium	µg/L	1000 ^B	1000 ^{GH}	51	52	-	-	68	-	72	-							
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	<0.5	-	-	<0.5	-	<0.5	-							
Boron	µg/L	5000 ^C	5000 ^{GH}	<10	<10	-	-	11	-	<10	-							
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	<0.1	-	-	<0.1	-	<0.1	-							
Calcium	µg/L	n/v	n/v	130000	130000	-	-	93000	-	92000	-							
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-							
Chromium	µg/L	50 ^B	50 ^{GH}	<5	<5	-	-	<5	-	<5	-							
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-							
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	<0.5	-	-	<0.5	-	<0.5	-							
Copper	µg/L	1000 ^D	69 ^{GH}	<1	<1	-	-	<1	-	<1	-							
Iron	µg/L	300 ^D	n/v	<100	<100	-	-	<100	-	<100	-							
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	<0.5	-	-	<0.5	-	<0.5	-							
Magnesium	µg/L	n/v	n/v	12000	12000	-	-	14000	-	14000	-							
Manganese	µg/L	50 ^D	n/v	<2	<2	-	-	18	-	17	-							
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	<0.1	-	-	<0.1	-	<0.1	-							
Molybdenum	µg/L	n/v	70 ^{GH}	<0.5	<0.5	-	-	0.9	-	0.69	-							
Nickel	µg/L	n/v	100 ^{GH}	<1	<1	-	-	<1	-	<1	-							
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	-	<100	-							
Potassium	µg/L	n/v	n/v	1400	1300	-	-	2700	-	2700	-							
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-							
Selenium	µg/L	10 ^B	10 ^{GH}	<2	<2	-	-	<2	-	<2	-							
Silicon	µg/L	n/v	n/v	4900	4800	-	-	6000	-	6000	-							
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	<0.1	-	-	<0.1	-	<0.1	-							
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	5900	5800	-	-	5000	-	5000	-							
Strontium	µg/L	n/v	n/v	250	250	-	-	240	-	240	-							
Thallium	µg/L	n/v	2 ^{GH}	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	-	<5	-							
Uranium	µg/L	20 ^B	20 ^{GH}	0.46	0.45	-	-	2.2	-	2.2	-							
Vanadium	µg/L	n/v	6.2 ^{GH}	<0.5	<0.5	-	-	<0.5	-	0.59	-							
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	8.3	-	-	<5	-	<5	-							
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	-	<1	-							
Polychlorinated Biphenyls																		
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	<0.05	-	-	<0.05	-	<0.05	-							
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^D 0.2 ^H	<0.05	<0.05	-	-	<0.05	-	<0.05	-							

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-5							
									12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16
Units	ODWS	Ontario SCS														
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzo(b,j)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28		
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	<10	-	-	<10	-	-	<10	-	-	-		
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	<1.0	-	-	<1.0	-	-	<1.0	-	-	-		
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	<1.0	-	-	<1.0	-	-	<1.0	-	-	-		
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichloroethane, 1,1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	<0.30	-	-	<0.30	-	-	<0.30	-	-	-		
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	<0.40	-	-	<0.40	-	-	<0.40	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	<1.0	-	-	<1.0	-	-	<1.0	-	-	-		
Methyl Ethyl Ketone (MEK) [2-Butanone]	µg/L	n/v	1800 ^{GH}	<10	<10	-	-	<10	-	-	<10	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	<5.0	-	-	<5.0	-	-	<5.0	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^{GH} 50 ^H	<2.0	<2.0	-	-	<2.0	-	-	<2.0	-	-	-		
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^{GH} 1.6 ^H	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^{GH} 200 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^{GH} 4.7 ^H	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	-	-		
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^{GH} 1.6 ^H	<0.20	<0.20	-	-	<0.20	-	-	<0.20	-	-	-		
Trichlorofluoromethane (Freon																

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-S (2)				MW6-14			
									12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals				
General Chemistry																
Acidity	mg/L	n/v	n/v	29	-	36	-	12	-	13	-	-				
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	260	-	250	-	200	-	200	-	-				
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	-	1.9	-	1.7	-	2.0	-	-				
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	260	-	250	-	200	-	200	-	-				
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-	<0.050	-	-				
Anion Sum	meq/L	n/v	n/v	6.46	-	6.09	-	5.60	-	5.63	-	-				
Cation Sum	meq/L	n/v	n/v	6.52	-	6.02	-	5.32	-	5.63	-	-				
Chloride	mg/L	250 ^D	790 ^{GH}	15	-	9.6	-	28	-	28	-	-				
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	-	<2	-	<1	-	-				
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	0.93	-	0.88	-	1.4	-	1.1	-	-				
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	620	-	580	-	520	-	540	-	-				
Fluoride	mg/L	1.5 ^B	n/v	<0.10	-	<0.10	-	0.26	-	0.28	-	-				
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	280 ^E	-	290 ^E	-	240 ^E	-	260 ^E	-	-				
Ion Balance	%	n/v	n/v	0.480	-	0.610	-	2.55	-	0.00	-	-				
Langelier Index (at 20 C)	none	n/v	n/v	0.773	-	0.874	-	0.444	-	0.527	-	-				
Langelier Index (at 4 C)	none	n/v	n/v	0.524	-	0.625	-	0.195	-	0.278	-	-				
Nitrate (as N)	mg/L	10.0 ^B	n/v	6.25	-	6.40	-	<0.10	-	<0.10	-	-				
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	6.25	-	6.40	-	<0.10	-	<0.10	-	-				
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	-				
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	-	<0.010	-	-				
pH	S.U.	6.5-8.5 ^F	n/v	7.79	-	7.90	-	7.97	-	8.04	-	-				
Saturation pH (at 20 C)	none	n/v	n/v	7.02	-	7.03	-	7.52	-	7.51	-	-				
Saturation pH (at 4 C)	none	n/v	n/v	7.27	-	7.28	-	7.77	-	7.76	-	-				
Sulfate	mg/L	500 ^D	n/v	16	-	15	-	40	-	40	-	-				
Total Dissolved Solids	mg/L	500 ^D	n/v	350	-	332	-	316	-	356	-	-				
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	360	-	330	-	290	-	300	-	-				
Total Organic Carbon	mg/L	n/v	n/v	1.1	-	0.78	-	1.7	-	1.6	-	-				
Total Suspended Solids	mg/L	n/v	n/v	<10	-	29	-	<10	-	91	-	-				
Turbidity, Lab	ntu	5 ^D	n/v	11 ^D	-	18 ^D	-	18 ^D	-	110 ^D	-	-				
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Toluene	µg/L	24 ^D	24 ^C 22 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	-	<25	-	-				
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^C 420 ^H	<25	-	<25	-	<25	-	<25	-	-				
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	-	<100	-	<100	-	<100	-	-				
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	-	<200	-	<200	-	<200	-	-				
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^C 500 ^H	<200	-	<200	-	<200	-	<200	-	-				
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-	-				
Metals																
Aluminum	µg/L	100 ^E	n/v	<5	-	<5	-	8	-	8.4	-	-				
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-				
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	<1	-	<1	-	<1	-	-				
Barium	µg/L	1000 ^B	1000 ^{GH}	29	-	35	-	76	-	85	-	-				
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-				
Boron	µg/L	5000 ^C	5000 ^{GH}	<10	-	<10	-	29	-	27	-	-				
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-				
Calcium	µg/L	n/v	n/v	100000	-	99000	-	40000	-	42000	-	-				
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-				
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	-	<5	-	-				
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	0.64	-	0.63	-	<0.50	-	<0.50	-	-				
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-				
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	1.4	-	<1	-	<1	-	-				
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	-	<100	-	-				
Lead	µg/L	10 ^B	10 ^{GH}	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-				
Magnesium	µg/L	n/v	n/v	7900	-	11000	-	34000	-	36000	-	-				
Manganese	µg/L	50 ^D	n/v	<2	-	<2	-	35	-	44	-	-				
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-				
Molybdenum	µg/L	n/v	70 ^{GH}	1.9	-	<0.5	-	4.2	-	4.5	-	-				
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	-	<1	-	<1	-	-				
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-	-				
Potassium	µg/L	n/v	n/v	1400	-	990	-	3300	-	3600	-	-				
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-				
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	-	<2	-	-				
Silicon	µg/L	n/v	n/v	4600	-	6100	-	8300	-	8600	-	-				
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-				
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	20000	-	3100	-	9500	-	10000	-	-				
Strontium	µg/L	n/v	n/v	190	-	190	-	510	-	590	-	-				
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	-	<5	-	-				
Uranium	µg/L	20 ^B	20 ^{GH}	1.3	-	0.36	-	2.1	-	2.1	-	-				
Vanadium	µg/L	n/v	6.2 ^{GH}	<0.5	-	<0.5	-	0.97	-	0.63	-	-				
Zinc	µg/L	5000 ^D	890 ^{GH}	37	-	<5	-	<5	-	<5	-	-				
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-	-				
Polychlorinated Biphenyls																
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	-	<0.05	-	<0.05	-	-				

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW5-14-S (2)				MW6-14			
									12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals				
Semi - Volatile Organic Compounds																
Phthalates																
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1				
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1				
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	n/v	4.1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Acenaphthylene	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Benzo(b,j)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Chrysene	µg/L	n/v	0.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Fluoranthene	µg/L	n/v	0.41 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Fluorene	µg/L	n/v	120 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28				
Methylnaphthalene, 1-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Methylnaphthalene, 2-	µg/L	n/v	1 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Phenanthrene	µg/L	n/v	1 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Pyrene	µg/L	n/v	4.1 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Remaining Semi - Volatile Organic Compounds																
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<1	<1	<1	<1	<1	<1	<1	<1				
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2				
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^{GH} 5.13 ^H	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Phenol	µg/L	n/v	890 ^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
Volatile Organic Compounds																
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	-	<10	-	-				
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Bromoform (Tribromomethane)	µg/L	n/v	5 ^{GH} 25 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^{GH} 0.79 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Chloroform (Trichloromethane)	µg/L	n/v	2 ^{GH} 2.4 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^{GH} 1.6 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloroethane, 1,1-	µg/L	14 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloroethane, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloroethane, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^{GH} 5 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^{GH} 0.5 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	<0.30	-	<0.30	-	<0.30	-	<0.30	-	-				
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	<0.40	-	<0.40	-	<0.40	-	<0.40	-	-				
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Hexane (n-Hexane)	µg/L	n/v	5 ^{GH} 51 ^H	<1.0	-	<1.0	-	<1.0	-	<1.0	-	-				
Methyl Ethyl Ketone (MEK) [2-Butanone]	µg/L	n/v	1800 ^{GH}	<10	-	<10	-	<10	-	<10	-	-				
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	-	<5.0	-	<5.0	-	<5.0	-	-				
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^{GH} 50 ^H	<2.0	-	<2.0	-	<2.0	-	<2.0	-	-				
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^{GH} 1 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^{GH} 200 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^{GH} 4.7 ^H	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^{GH} 1.6 ^H	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	<0.50	-	<0.50	-	<0.50	-	<0.50	-	-				
Trihalomethanes	µg/L	100 ^B	n/v	-	-	-	-	-	-	-	-	-				
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	<0.20	-	<0.20	-	<0.20	-	<0.20	-	-				

See notes on last page

**Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.**

Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	MW7-14				FIELD BLANK		TRIP BLANK	
									13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16	14-Apr-16	2-Nov-16	14-Apr-16	3-Nov-16
Units	ODWS	Ontario SCS	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Blank	Field Blank	Trip Blank	Trip Blank						
General Chemistry																
Acidity	mg/L	n/v	n/v	<10	-	10	-	-	-	-	-	-	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	-	190	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	1.8	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	n/v	190	-	190	-	-	-	-	-	-	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	-	-	-	-	-	-	-	-	-
Anion Sum	meq/L	n/v	n/v	5.47	-	5.33	-	-	-	-	-	-	-	-	-	-
Cation Sum	meq/L	n/v	n/v	5.26	-	5.28	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	250 ^D	790 ^{GH}	29	-	26	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<1	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	0.92	-	0.91	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	520	-	510	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	1.5 ^B	n/v	0.21	-	0.20	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100 ^F	n/v	240 ^E	-	240 ^F	-	-	-	-	-	-	-	-	-	-
Ion Balance	%	n/v	n/v	1.97	-	0.450	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.487	-	0.502	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.238	-	0.253	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	0.20	-	<0.10	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	0.20	-	<0.10	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.010	-	-	-	-	-	-	-	-	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.010	-	0.010	-	-	-	-	-	-	-	-	-	-
pH	S.U.	6.5-8.5 ^F	n/v	8.00	-	8.02	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.51	-	7.52	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.76	-	7.76	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	500 ^D	n/v	44	-	40	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	500 ^D	n/v	318	-	296	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	290	-	290	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.99	-	0.87	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	-	-	-	-	-	-	-	-	-	-
Turbidity, Lab	ntu	5 ^D	n/v	2.2	-	4.5	-	-	-	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^B	0.5 ^C 5 ^H	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 ^D	31 ^{GH}	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300 ^D	72 ^C 300 ^H	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	37 ^{GH}	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^D 420 ^H	<25	-	<25	-	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^C 150 ^H	<100	-	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^B 500 ^H	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^D 500 ^H	<200	-	<200	-	<200	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	YES	YES	YES	YES	YES	YES	YES
Metals																
Aluminum	µg/L	100 ^E	n/v	11	-	11	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	<1	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000 ^B	1000 ^{GH}	87	-	110	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	5000 ^C	5000 ^{GH}	17	-	23	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	n/v	44000	-	42000	-	-	-	-	-	-	-	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	<0.50	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	<1	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	10 ^C	10 ^{GH}	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	n/v	n/v	32000	-	32000	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	50 ^D	n/v	16	-	24	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70 ^{GH}	2.3	-	2.3	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	n/v	100 ^{GH}	<1	-	<1	-	-	-	-	-	-	-	-	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	n/v	2700	-	3000	-	-	-	-	-	-	-	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	-	-	-	-	-	-	-	-	-
Silicon	µg/L	n/v	n/v	10000	-	10000	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	8500	-	10000	-	-	-	-	-	-	-	-	-	-
Strontium	µg/L	n/v	n/v	400	-	440	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	20 ^B	20 ^{GH}	0.97	-	0.93	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	6.2 ^{GH}	0.76	-	<0.5	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	<5	-	-	-	-	-	-	-	-	-	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor 1242	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	14 ^{GH}	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ^C 0.2 ^H	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-

See notes on last page

Table 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act (MOE, 2011)
G	Table 6 - All Types of Property Use - Coarse Textured Soils
H	Table 8 - All Types of Property Use
6.5^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
^{DF} g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	Applicable for all waters at the point of consumption.
j	The operational guidelines for filtration processes are provided as performance criteria in the Procedure for Disinfection of Drinking Water in Ontario.
^{GH} n/a	Not applicable.
^{DGH} s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
^{GH} s2	Standard is for benzo(b)fluoranthene; however, the analytical laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene, and therefore, the result is a combination of the two isomers, against which the standard has been compared.
^{GH} s3	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
^{GH} s7	Standard is applicable to PHC in the F1 range minus BTEX.
^{GH} s8	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
^{GH} s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
^{GH} s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
^{GH} s13	The criterion is applicable to the total sum of 2,4 & 2,6-Dinitrotoluene, and the individual isomers (2,4 & 2,6) should be added for comparison.
^{GH} s14	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
^{GH} s15	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
DB	Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
IB	The detection limit was raised due to instrument background.
MI	Detection limit was raised due to matrix interferences.

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit	Sample Date	Sample ID	Water Type	Sample Tap	Treatment Type	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Units	ODWS	Other/Unconfirmed		Other/Unconfirmed		Shallow Overburden		Shallow Overburden	
													13-Apr-16	3-Nov-16	11-Apr-16	1-Nov-16	18-Apr-16	1-Nov-16	13-Apr-16	3-Nov-16
													WG-160900764-20160413-JK20	WG-160900764-20161103-JK21	WG-160900764-20160411-JK2	WG-160900764-20161101-JK9	WG-160900764-20160418-JK22	WG-160900764-20161101-JK7	WG-160900764-20160413-JK19	WG-160900764-20161103-JK20
													Treated Outside (Back house) Softener / Charcoal Filter / UV	Treated Outside (Back house) Softener / Charcoal Filter / UV	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Barn)	Raw Outside (Barn)
													STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
													MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
													B674120	B6N8820	B671945	B6N7539	B676726	B6N7539	B674120	B6N8820
													CEO963	DJO312	CEE707	DJI435	CFC036	DJI433	CEO962	DJO311
													Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals

Semi - Volatile Organic Compounds

Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ^B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 ^B 30 ^D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Volatile Organic Compounds

Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	3.0	<0.50	<0.50	5.3	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	6.6	<0.20	<0.20	15	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	1.3	<0.50	<0.50	2.5	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ^C	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	µg/L	14 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 ^B	<0.20	<1.0	10.9	<1.0	<1.0	22.8	<0.20	<0.20	<1.0	<1.0
Vinyl chloride	µg/L	1 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit		
Sample Date		
Sample ID		
Water Type		
Sample Tap		
Treatment Type		
Sampling Company		
Laboratory		
Laboratory Work Order		
Laboratory Sample ID		
Filtered	Units	ODWS
General Chemistry		
Acidity	mg/L	n/v
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F
Ammonia (as N)	mg/L	n/v
Anion Sum	meq/L	n/v
Cation Sum	meq/L	n/v
Chloride	mg/L	250 ^D
Cyanide (Free)	µg/L	200 ^B
Dissolved Organic Carbon (DOC)	mg/L	5 ^D
Electrical Conductivity, Lab	µmhos/cm	n/v
Fluoride	mg/L	1.5 ^B
Hardness (as CaCO3)	mg/L	80-100 ^E
Ion Balance	%	n/v
Langelier Index (at 20 C)	none	n/v
Langelier Index (at 4 C)	none	n/v
Nitrate (as N)	mg/L	10.0 ^A
Nitrate + Nitrite (as N)	mg/L	10.0 ^A
Nitrite (as N)	mg/L	1.0 ^A
Orthophosphate(as P)	mg/L	n/v
pH	S.U.	6.5-8.5 ^E
Saturation pH (at 20 C)	none	n/v
Saturation pH (at 4 C)	none	n/v
Sulfate	mg/L	500 ^D
Total Dissolved Solids	mg/L	500 ^D
Total Dissolved Solids (Calculated)	mg/L	500 ^D
Total Organic Carbon	mg/L	n/v
Total Suspended Solids	mg/L	n/v
Turbidity, Lab	ntu	5 ^D
Microbiological Analysis		
Escherichia coli (E.Coli)	cfu/100mL	0 ^A
Total Coliform Background	cfu/100mL	n/v
Total Coliforms	cfu/100mL	0 ^A
Metals		
Aluminum	µg/L	100 ^F
Antimony	µg/L	6 ^C
Arsenic	µg/L	25 ^C
Barium	µg/L	1000 ^B
Beryllium	µg/L	n/v
Boron	µg/L	5000 ^C
Cadmium	µg/L	5 ^B
Calcium	µg/L	n/v
Chromium	µg/L	50 ^B
Chromium (Hexavalent)	µg/L	n/v
Cobalt	µg/L	n/v
Copper	µg/L	1000 ^D
Iron	µg/L	300 ^D
Lead	µg/L	10 ^E
Magnesium	µg/L	n/v
Manganese	µg/L	50 ^D
Mercury	µg/L	1 ^B
Molybdenum	µg/L	n/v
Nickel	µg/L	n/v
Phosphorus	µg/L	n/v
Potassium	µg/L	n/v
Selenium	µg/L	10 ^B
Silicon	µg/L	n/v
Silver	µg/L	n/v
Sodium	µg/L	0000 ^D 20000
Strontium	µg/L	n/v
Thallium	µg/L	n/v
Titanium	µg/L	n/v
Uranium	µg/L	20 ^B
Vanadium	µg/L	n/v
Zinc	µg/L	5000 ^D
Zirconium	µg/L	n/v
BTEX and Petroleum Hydrocarbons		
Benzene	µg/L	1 ^B
Toluene	µg/L	24 ^D
Ethylbenzene	µg/L	2.4 ^D
Xylene, m & p-	µg/L	300 ^D
Xylene, o-	µg/L	300 ^D
Xylenes, Total	µg/L	300 ^D
PHC F1 (C6-C10 range)	µg/L	n/v
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v
PHC F2 (>C10-C16 range)	µg/L	n/v
PHC F3 (>C16-C34 range)	µg/L	n/v
PHC F4 (>C34-C50 range)	µg/L	n/v
Chromatogram to baseline at C50	none	n/v

See notes on last page

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit			
Sample Date			
Sample ID			
Water Type			
Sample Tap			
Treatment Type			
Sampling Company			
Laboratory			
Laboratory Work Order			
Laboratory Sample ID			
Filtered	Units	ODWS	
Semi - Volatile Organic Compounds			
Acenaphthene	µg/L	n/v	
Acenaphthylene	µg/L	n/v	
Anthracene	µg/L	n/v	
Benzo(a)anthracene	µg/L	n/v	
Benzo(a)pyrene	µg/L	0.01 ^B	
Benzo(b)fluoranthene	µg/L	n/v	
Benzo(g,h,i)perylene	µg/L	n/v	
Benzo(k)fluoranthene	µg/L	n/v	
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	
Bis(2-Chloroethyl)ether	µg/L	n/v	
Bis(2-Chloroisopropyl)ether	µg/L	n/v	
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	
Chloroaniline, 4-	µg/L	n/v	
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	
Chrysene	µg/L	n/v	
Dibenzo(a,h)anthracene	µg/L	n/v	
Dichlorobenzidine, 3,3'-	µg/L	n/v	
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	
Diethyl Phthalate	µg/L	n/v	
Dimethyl Phthalate	µg/L	n/v	
Dimethylphenol, 2,4-	µg/L	n/v	
Dinitrophenol, 2,4-	µg/L	n/v	
Dinitrotoluene, 2,4-	µg/L	n/v	
Dinitrotoluene, 2,6-	µg/L	n/v	
Fluoranthene	µg/L	n/v	
Fluorene	µg/L	n/v	
Indeno(1,2,3-cd)pyrene	µg/L	n/v	
Methylnaphthalene (Total)	µg/L	n/v	
Methylnaphthalene, 1-	µg/L	n/v	
Methylnaphthalene, 2-	µg/L	n/v	
Naphthalene	µg/L	n/v	
Pentachlorophenol	µg/L	60 ^B 30 ^D	
Phenanthrene	µg/L	n/v	
Phenol	µg/L	n/v	
Pyrene	µg/L	n/v	
Trichlorobenzene, 1,2,4-	µg/L	n/v	
Trichlorophenol, 2,4,5-	µg/L	n/v	
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	
Volatile Organic Compounds			
Acetone	µg/L	n/v	
Bromodichloromethane	µg/L	n/v	
Bromoform (Tribromomethane)	µg/L	n/v	
Bromomethane (Methyl bromide)	µg/L	n/v	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 ^B	
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	
Chloroform (Trichloromethane)	µg/L	n/v	
Dibromochloromethane	µg/L	n/v	
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	
Dichlorobenzene, 1,3-	µg/L	n/v	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	
Dichloroethane, 1,1-	µg/L	n/v	
Dichloroethane, 1,2-	µg/L	5 ^C	
Dichloroethene, 1,1-	µg/L	14 ^B	
Dichloroethene, cis-1,2-	µg/L	n/v	
Dichloroethene, trans-1,2-	µg/L	n/v	
Dichloropropane, 1,2-	µg/L	n/v	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	
Dichloropropene, cis-1,3-	µg/L	n/v	
Dichloropropene, trans-1,3-	µg/L	n/v	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	
Hexane (n-Hexane)	µg/L	n/v	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	
Methyl tert-butyl ether (MTBE)	µg/L	n/v	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	
Styrene	µg/L	n/v	
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	
Tetrachloroethene (PCE)	µg/L	30 ^B	
Trichloroethane, 1,1,1-	µg/L	n/v	
Trichloroethane, 1,1,2-	µg/L	n/v	
Trichloroethene (TCE)	µg/L	5 ^B	
Trichlorofluoromethane (Freon 11)	µg/L	n/v	
Trihalomethanes	µg/L	100 ^B	
Vinyl chloride	µg/L	1 ^B	

See notes on last page

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit	Sample Date	Sample ID	Shallow Overburden		Shallow Overburden	Shallow Overburden		Shallow Overburden		
			12-Apr-16	2-Nov-16	28-Oct-16	12-Apr-16	3-Nov-16	12-Apr-16	1-Nov-16	
Water Type	Sample Tap	Treatment Type	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Units	ODWS	
WG-160900764-20160412-JK8	WG-160900764-20161102-JK17	WG-160900764-20161028-AW1	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8				
Treated	Treated	Raw Outside (Back house)	Raw Outside (Back Deck)	Raw Outside (Back Deck)	Raw Outside (Right house)	Raw Outside (Right house)				
Inside (Kitchen)	Inside (Kitchen)	None	None	None	Softener	Softener				
STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC				
MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX				
B673025	B6N8820	B6N3868	B673025	B6N8820	B673025	B6N7539				
CEK231	DJO307	DIO842	CEK236	DJO310	CEK239	DJI434				
Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals				
General Chemistry										
Acidity	mg/L	n/v	23	29	36	26	50	27	29	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	250	270	290	270	340	280	310	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.4	1.8	2.7	1.5	2.1	1.7	2.3	
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	260	280	290	270	350	280	320	
Ammonia (as N)	mg/L	n/v	0.16	0.13	<0.050	<0.050	<0.050	<0.050	<0.050	
Anion Sum	meq/L	n/v	16.1	18.1	7.95	5.96	10.3	6.37	9.00	
Cation Sum	meq/L	n/v	16.5	19.7	7.92	6.26	9.94	6.74	8.88	
Chloride	mg/L	250 ^D	340 ^D	420 ^D	48	9.3	92	12	63	
Cyanide (Free)	µg/L	200 ^B	<2	<1	<1	<2	<1	<2	<1	
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	0.84	1.4	1.1	1.1	0.79	1.9	1.0	
Electrical Conductivity, Lab	µmhos/cm	n/v	1700	2100	790	560	970	600	870	
Fluoride	mg/L	1.5 ^B	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	
Hardness (as CaCO3)	mg/L	80-100 ^E	340 ^E	340 ^E	340 ^E	300 ^E	410 ^E	330 ^E	180 ^E	
Ion Balance	%	n/v	1.27	4.07	0.160	2.47	1.58	2.84	0.670	
Langelier Index (at 20 C)	none	n/v	0.544	0.620	1.08	0.812	1.01	0.894	0.354	
Langelier Index (at 4 C)	none	n/v	0.298	0.374	0.827	0.563	0.766	0.645	0.107	
Nitrate (as N)	mg/L	10.0 ^A	0.46	<0.10	5.45	0.83	3.87	0.95	1.16	
Nitrate + Nitrite (as N)	mg/L	10.0 ^A	0.46	<0.10	-	0.83	-	0.95	-	
Nitrite (as N)	mg/L	1.0 ^A	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Orthophosphate (as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
pH	S.U.	6.5-8.5 ^E	7.76	7.83	8.00	7.77	7.82	7.81	7.89	
Saturation pH (at 20 C)	none	n/v	7.21	7.21	6.92	6.96	6.81	6.91	7.53	
Saturation pH (at 4 C)	none	n/v	7.46	7.46	7.17	7.21	7.05	7.16	7.78	
Sulfate	mg/L	500 ^D	35	40	17	9.2	21	15	39	
Total Dissolved Solids	mg/L	500 ^D	910 ^D	1070 ^D	456	322	558 ^D	330	536 ^D	
Total Dissolved Solids (Calculated)	mg/L	500 ^D	910 ^D	1100 ^D	430	320	550 ^D	340	490	
Total Organic Carbon	mg/L	n/v	0.84	1.4	1.1	1.0	1.7	1.9	0.97	
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	
Turbidity, Lab	ntu	5 ^D	<0.2	0.2	0.5	<0.2	0.8	0.2	<0.1	
Microbiological Analysis										
Escherichia coli (E.Coli)	cfu/100mL	0 ^A	0	0	0	0	0	NDOGT ^E	0	
Total Coliform Background	cfu/100mL	n/v	0	16	20	50	1300	NDOGT	870	
Total Coliforms	cfu/100mL	0 ^A	2 ^A	0	0	30 ^A	0	NDOGT ^E	75 ^A	
Metals										
Aluminum	µg/L	100 ^F	<5.0	<5	<5	5.2	<5	6.3	<5	
Antimony	µg/L	6 ^C	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	
Arsenic	µg/L	25 ^C	<1.0	<1	<1	<1.0	<1	<1.0	<1	
Barium	µg/L	1000 ^B	93	75	58	32	73	29	11	
Beryllium	µg/L	n/v	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	
Boron	µg/L	5000 ^C	22	19	<10	<10	22	<10	15	
Cadmium	µg/L	5 ^B	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	
Calcium	µg/L	n/v	82000	81000	120000	110000	140000	120000	28000	
Chromium	µg/L	50 ^B	<5.0	<5	<5	<5.0	<5	<5.0	<5	
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	0.58	<0.50	<0.50	
Cobalt	µg/L	n/v	<0.50	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	
Copper	µg/L	1000 ^D	42	23	8	8.9	13	37	44	
Iron	µg/L	300 ^D	<100	<100	<100	<100	<100	<100	<100	
Lead	µg/L	10 ^E	1.7	<0.5	<0.5	<0.50	0.52	0.91	0.86	
Magnesium	µg/L	n/v	33000	35000	11000	7200	18000	9000	28000	
Manganese	µg/L	50 ^D	30	31	<2	<2.0	<2	<2.0	<2	
Mercury	µg/L	1 ^B	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	
Molybdenum	µg/L	n/v	0.66	0.54	<0.5	<0.50	<0.5	<0.50	<0.5	
Nickel	µg/L	n/v	<1.0	<1	<1	<1.0	<1	<1.0	<1	
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	
Potassium	µg/L	n/v	2500	3000	2000	530	930	380	4700	
Selenium	µg/L	10 ^B	<2.0	<2	<2	<2.0	<2	<2.0	<2	
Silicon	µg/L	n/v	8000	8600	5800	4900	7300	3600	6200	
Silver	µg/L	n/v	<0.10	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	
Sodium	µg/L	0000 ^D 20000	220000 ^{DF}	290000 ^{DF}	26000 ^F	6800	38000 ^F	4100	120000 ^F	
Strontium	µg/L	n/v	360	330	240	190	290	180	45	
Thallium	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Titanium	µg/L	n/v	<5.0	<5	<5	<5.0	<5	<5.0	<5	
Uranium	µg/L	20 ^B	0.21	0.1	0.27	0.23	0.47	1.1	5.6	
Vanadium	µg/L	n/v	<0.50	<0.5	0.57	<0.50	<0.5	<0.50	<0.5	
Zinc	µg/L	5000 ^D	46	35	9.8	7.9	14	7.6	5.2	
Zirconium	µg/L	n/v	<1.0	<1	<1	<1.0	<1	<1.0	<1	
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Toluene	µg/L	24 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Ethylbenzene	µg/L	2.4 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Xylene, m & p-	µg/L	300 ^D	<0.40	<0.20	<0.20	<0.40	<0.20	<0.40	<0.40	
Xylene, o-	µg/L	300 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Xylenes, Total	µg/L	300 ^D	<0.40	<0.20	<0.20	<0.40	<0.20	<0.40	<0.40	
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	

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Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden		Shallow Overburden	Shallow Overburden		Shallow Overburden	
Sample Date			12-Apr-16	2-Nov-16	28-Oct-16	12-Apr-16	3-Nov-16	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20160412-JK8	WG-160900764-20161102-JK17	WG-160900764-20161028-AW1	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8
Water Type			Treated	Treated	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Outside (Back house)	Outside (Back Deck)	Outside (Back Deck)	Outside (Right house)	Outside (Right house)
Treatment Type			Softener	Softener	None	None	None	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B673025	B6N8820	B6N3868	B673025	B6N8820	B673025	B6N7539
Laboratory Sample ID			CEK231	DJO307	DIO842	CEK236	DJO310	CEK239	DJI434
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ^B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'-(Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<5 MI	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 ^B 30 ^D	<0.1	<0.3 MI	<1 MI	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2.6	<0.20	<0.20	<0.20	<0.20	0.29	2.3
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.3
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ^C	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	µg/L	14 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 ^B	2.6	<1.0	<1.0	<0.20	<1.0	0.29	12.9
Vinyl chloride	µg/L	1 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit	Sample Date	Sample ID	Shallow Overburden		Shallow Overburden		Shallow Overburden		Shallow Overburden	
			12-Apr-16	1-Nov-16	12-Apr-16	1-Nov-16	12-Apr-16	1-Nov-16	13-Apr-16	2-Nov-16
Water Type	Sample Tap	Treatment Type	WG-160900764-20160412-JK10	WG-160900764-20161101-JK2	WG-160900764-20160412-JK11	WG-160900764-20161101-JK5	WG-160900764-20160412-JK9	WG-160900764-20161101-JK4	WG-160900764-20160413-JK18	WG-160900764-20161102-JK16
Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Inside (Kitchen)	Inside (Kitchen)	Outside (Back house)	Outside (Back house)	Inside (Basement)	Inside (Basement)	Basement Laundry Tub Tap	Basement Laundry Tub Tap	Basement Laundry Tub Tap	Basement Laundry Tub Tap	Outside (Back house)
None	None	None	None	None	None	None	None	None	None	None
STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
B673025	B6N7539	B673025	B6N7539	B673025	B6N7539	B673025	B6N7539	B673025	B6N7539	B6N8820
CEK233	DJI428	CEK235	DJI431	CEK232	DJI430	CEO961	DJO306	CEO961	DJO306	DJO306
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry										
Acidity	mg/L	n/v	47	29	30	26	24	17	31	46
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	340	310	280	270	270	230	350	390
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.6	2.7	1.4	2.1	1.5	2.3	2.4	2.5
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	340	310	290	270	270	230	350	390
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	13.0	8.74	7.06	6.78	16.5	14.5	10.2	12.6
Cation Sum	meq/L	n/v	13.3	8.84	7.14	6.51	16.7	14.7	10.2	12.4
Chloride	mg/L	250 ^D	190	50	16	18	370 ^D	320 ^D	89	130
Cyanide (Free)	µg/L	200 ^B	<2	<1	<2	<1	<2	<1	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	1.5	1.2	1.2	1.0	3.8	0.81	1.8	1.8
Electrical Conductivity, Lab	µmhos/cm	n/v	1400	860	670	650	1800	1600	960	1200
Fluoride	mg/L	1.5 ^B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100 ^E	490 ^E	350 ^E	340 ^E	310 ^E	400 ^E	440 ^E	390 ^E	450 ^E
Ion Balance	%	n/v	1.14	0.590	0.610	2.01	0.650	0.960	0.0500	0.780
Langelier Index (at 20 C)	none	n/v	0.953	1.04	0.802	0.927	0.799	0.866	1.04	1.01
Langelier Index (at 4 C)	none	n/v	0.706	0.794	0.554	0.678	0.554	0.620	0.791	0.765
Nitrate (as N)	mg/L	10.0 ^B	1.11	4.46	6.22	6.18	1.89	1.95	1.37	1.31
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	1.11	-	6.22	-	1.89	-	1.37	-
Nitrite (as N)	mg/L	1.0 ^B	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 ^E	7.70	7.96	7.72	7.92	7.76	8.03	7.87	7.83
Saturation pH (at 20 C)	none	n/v	6.75	6.92	6.92	6.99	6.97	7.17	6.83	6.82
Saturation pH (at 4 C)	none	n/v	7.00	7.17	7.17	7.24	7.21	7.41	7.08	7.06
Sulfate	mg/L	500 ^D	33	36	21	23	31	32	28	40
Total Dissolved Solids	mg/L	500 ^D	840 ^D	486	370	352	1020 ^D	1010 ^D	528 ^D	678 ^D
Total Dissolved Solids (Calculated)	mg/L	500 ^D	720 ^D	480	390	370	930 ^D	810 ^D	540 ^D	670 ^D
Total Organic Carbon	mg/L	n/v	1.5	1.2	1.2	0.95	3.8	0.76	1.7	1.7
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5 ^D	<0.2	<0.1	<0.2	1.9	<0.2	0.3	<0.2	0.2
Microbiological Analysis										
Escherichia coli (E.Coli)	cfu/100mL	0 ^A	0	NDOGT ^E	0	0	0	NDOGT ^E	0	0
Total Coliform Background	cfu/100mL	n/v	11	NDOGT	0	0	200	NDOGT	47	150
Total Coliforms	cfu/100mL	0 ^A	0	NDOGT ^E	0	0	43 ^A	NDOGT ^E	2 ^A	7 ^A
Metals										
Aluminum	µg/L	100 ^F	5.5	<5	<5.0	5.6	<5.0	7	<5.0	<5
Antimony	µg/L	6 ^C	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25 ^C	<1.0	<1	<1.0	<1	<1.0	1	<1.0	<1
Barium	µg/L	1000 ^B	59	<2	46	44	79	220	68	110
Beryllium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5000 ^C	10	18	<10	<10	<10	11	13	26
Cadmium	µg/L	5 ^B	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	180000	110000	120000	100000	150000	100000	130000	120000
Chromium	µg/L	50 ^B	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	0.53	0.61	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1000 ^D	31	20	7.4	4.7	12	8.3	11	6
Iron	µg/L	300 ^D	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10 ^E	<0.50	<0.5	<0.50	<0.5	0.99	1.5	<0.50	<0.5
Magnesium	µg/L	n/v	13000	18000	13000	12000	8800	44000	20000	33000
Manganese	µg/L	50 ^D	4	7.2	<2.0	<2	<2.0	2	<2.0	<2
Mercury	µg/L	1 ^B	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	0.51	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	2.7	<1.0	<1	<1.0	1.4	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	470	1400	960	990	730	2900	1400	2800
Selenium	µg/L	10 ^B	<2.0	<2	<2.0	<2	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	5600	6100	6000	6000	3100	9100	5900	8600
Silver	µg/L	n/v	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	0000 ^D 20000	79000 ^F	41000 ^F	7100	7100	20000 ^F	130000 ^F	52000 ^F	78000 ^F
Strontium	µg/L	n/v	430	180	220	190	310	560	310	370
Thallium	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5
Uranium	µg/L	20 ^B	0.65	1.4	0.65	0.61	0.51	0.8	0.89	1.8
Vanadium	µg/L	n/v	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5000 ^D	9.5	110	8.5	15	5	<5	13	14
Zirconium	µg/L	n/v	<1.0	<1	<1.0	<1	<1.0	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20
Toluene	µg/L	24 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20
Ethylbenzene	µg/L	2.4 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylene, m & p-	µg/L	300 ^D	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.20
Xylene, o-	µg/L	300 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylenes, Total	µg/L	300 ^D	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.

Aquifer Unit	Sample Date	Sample ID	Water Type	Sample Tap	Treatment Type	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Units	ODWS	Shallow Overburden	Shallow Overburden		Shallow Overburden	Thornccliffe Formation		
													14-Apr-16	11-Apr-16	2-Nov-16	12-Apr-16	18-Apr-16	3-Nov-16	
													WG-160900764-20160414-JK21	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14	WG-160900764-20160412-JK13	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18	
													Treated	Raw Outside (Front house)	Raw Outside (Front house)	Treated Outside (Side house)	Raw Outside (Driveway)	Raw Outside (Driveway)	
													Softener / UV / Filter	None	None	Softener/UV	None	None	
													STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
													MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
													B674120	B671945	B6N8820	B673025	B676726	B6N8820	
													CEO964	CEE706	DJO304	CEK238	CFC037	DJO309	
													Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	
General Chemistry																			
Acidity	mg/L	n/v		38	26	52	27	12	10										
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v		310	360	350	300	180	180										
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v		2.7	1.4	1.8	1.9	1.9	2.0										
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F		310	360	350	300	190	190										
Ammonia (as N)	mg/L	n/v		<0.050	<0.050	<0.050	<0.050	0.079	0.093										
Anion Sum	meq/L	n/v		7.81	8.80	8.43	9.91	4.01	4.00										
Cation Sum	meq/L	n/v		8.17	8.85	8.20	10.4	4.09	3.94										
Chloride	mg/L	250 ^D		30	29	14	130	1.9	1.8										
Cyanide (Free)	µg/L	200 ^B		<2	<2	<1	<2	<2	<1										
Dissolved Organic Carbon (DOC)	mg/L	5 ^D		1.9	1.4	1.1	1.4	0.84	0.85										
Electrical Conductivity, Lab	µmhos/cm	n/v		720	820	770	970	360	370										
Fluoride	mg/L	1.5 ^B		<0.10	<0.10	<0.10	<0.10	0.16	0.16										
Hardness (as CaCO3)	mg/L	80-100 ^E		360^E	7.4^E	340^E	370^E	190^E	180^E										
Ion Balance	%	n/v		2.25	0.290	1.35	2.30	1.05	0.720										
Langelier Index (at 20 C)	none	n/v		1.11	-0.903	0.791	0.965	0.595	0.590										
Langelier Index (at 4 C)	none	n/v		0.856	-1.15	0.542	0.718	0.345	0.340										
Nitrate (as N)	mg/L	10.0 ^A		5.09	6.07	6.11	0.24	<0.10	<0.10										
Nitrate + Nitrite (as N)	mg/L	10.0 ^A		5.09	6.07	-	0.24	<0.10	<0.10										
Nitrite (as N)	mg/L	1.0 ^A		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010										
Orthophosphate(as P)	mg/L	n/v		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010										
pH	S.U.	6.5-8.5 ^E		7.97	7.63	7.74	7.83	8.03	8.05										
Saturation pH (at 20 C)	none	n/v		6.87	8.54	6.95	6.87	7.43	7.46										
Saturation pH (at 4 C)	none	n/v		7.12	8.78	7.20	7.11	7.68	7.71										
Sulfate	mg/L	500 ^D		18	19	24	14	11	11										
Total Dissolved Solids	mg/L	500 ^D		414	508^D	458	548^D	204	222										
Total Dissolved Solids (Calculated)	mg/L	500 ^D		430	510^D	450	540^D	220	220										
Total Organic Carbon	mg/L	n/v		1.9	1.2	1.8	1.4	0.76	1.1										
Total Suspended Solids	mg/L	n/v		<10	<10	<10	<10	<10	<10										
Turbidity, Lab	ntu	5 ^D		<0.2	<0.2	0.8	<0.2	3.5	8.3^D										
Microbiological Analysis																			
Escherichia coli (E.Coli)	cfu/100mL	0 ^A		0	0	0	0	0	0										
Total Coliform Background	cfu/100mL	n/v		100	5	29	92	4	5										
Total Coliforms	cfu/100mL	0 ^A		3^A	1^A	1^A	5^A	0	1^A										
Metals																			
Aluminum	µg/L	100 ^F		<5.0	6.3	11	<5.0	<5	<5										
Antimony	µg/L	6 ^C		<0.50	<0.50	<0.5	<0.50	<0.5	<0.5										
Arsenic	µg/L	25 ^C		<1.0	<1.0	<1	<1.0	<1	<1										
Barium	µg/L	1000 ^B		27	<2.0	58	32	180	170										
Beryllium	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.5	<0.5										
Boron	µg/L	5000 ^C		25	31	<10	11	23	18										
Cadmium	µg/L	5 ^B		<0.10	<0.10	<0.1	<0.10	<0.1	<0.1										
Calcium	µg/L	n/v		120000	2400	91000	140000	48000	46000										
Chromium	µg/L	50 ^B		<5.0	<5.0	<5	<5.0	<5	<5										
Chromium (Hexavalent)	µg/L	n/v		<0.50	0.85	0.75	<0.50	<0.50	<0.50										
Cobalt	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.5	<0.5										
Copper	µg/L	1000 ^D		72	20	12	7.3	5.4	3.3										
Iron	µg/L	300 ^D		<100	<100	<100	<100	790^D	1200^D										
Lead	µg/L	10 ^E		<0.50	<0.50	0.59	<0.50	<0.5	<0.5										
Magnesium	µg/L	n/v		13000	340	28000	7600	16000	16000										
Manganese	µg/L	50 ^D		9.2	<2.0	<2	<2.0	16	18										
Mercury	µg/L	1 ^B		<0.10	<0.10	-	<0.10	<0.1	<0.1										
Molybdenum	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	0.75	0.82										
Nickel	µg/L	n/v		<1.0	<1.0	<1	<1.0	<1	<1										
Phosphorus	µg/L	n/v		<100	<100	<100	<100	<100	<100										
Potassium	µg/L	n/v		2300	<200	4500	250	1000	1100										
Selenium	µg/L	10 ^B		<2.0	<2.0	<2	<2.0	<2	<2										
Silicon	µg/L	n/v		5800	8600	9100	3800	12000	11000										
Silver	µg/L	n/v		<0.10	<0.10	<0.1	<0.10	<0.1	<0.1										
Sodium	µg/L	0000 ^D 20000		22000^F	20000^F	28000^F	69000^F	7400	6700										
Strontium	µg/L	n/v		230	6	190	260	250	250										
Thallium	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05										
Titanium	µg/L	n/v		<5.0	<5.0	<5	<5.0	<5	<5										
Uranium	µg/L	20 ^B		0.34	0.58	1.7	0.29	<0.1	<0.1										
Vanadium	µg/L	n/v		<0.50	0.66	<0.5	<0.50	<0.5	<0.5										
Zinc	µg/L	5000 ^D		81	<5.0	9.8	6.8	<5	7										
Zirconium	µg/L	n/v		<1.0	<1.0	<1	<1.0	-	<1										
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	1 ^B		-	<0.20	<0.20	<0.20	<0.20	<0.20										
Toluene	µg/L	24 ^D		-	<0.20	<0.20	<0.20	<0.20	<0.20										
Ethylbenzene	µg/L	2.4 ^D		-	<0.20	<0.20	<0.20	<0.20	<0.20										
Xylene, m & p-	µg/L	300 ^D		-	<0.40	<0.20	<0.40	<0.20	<0.20										
Xylene, o-	µg/L	300 ^D		-	<0.20	<0.20	<0.20	<0.20	<0.20										
Xylenes, Total	µg/L	300 ^D		-	<0.40	<0.2													

**Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Transformer Station
Hydro One Networks Inc.**

Aquifer Unit	Sample Date	Sample ID	Water Type	Sample Tap	Treatment Type	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Units	ODWS	Shallow Overburden	Shallow Overburden		Shallow Overburden	Thornccliffe Formation	
													14-Apr-16	11-Apr-16	2-Nov-16	12-Apr-16	18-Apr-16	3-Nov-16
													WG-160900764-20160414-JK21	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14	WG-160900764-20160412-JK13	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18
													Treated	Raw Outside (Front house)	Raw Outside (Front house)	Treated Outside (Side house)	Raw Outside (Driveway)	Raw Outside (Driveway)
													Inside (Garage)	None	None	Softener/UV	None	None
													Softener / UV / Filter	None	None	Softener/UV	None	None
													STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
													MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
													B674120	B671945	B6N8820	B673025	B676726	B6N8820
													CEO964	CEE706	DJO304	CEK238	CFC037	DJO309
													Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals

Semi - Volatile Organic Compounds

Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ^B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno[1,2,3-cd]pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60 ^B 30 ^D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5 ^B 2 ^D	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Volatile Organic Compounds

Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.25	1.4	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ^C	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	µg/L	14 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 ^B	<0.20	0.25	1.4	<0.20	<1.0	<1.0	<1.0
Vinyl chloride	µg/L	1 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 5
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
6.5^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
^{DF} g	The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
h	When sulfate levels exceed 500 mg/L, water may have a laxative effect on some people.
i	Applicable for all waters at the point of consumption.
j	The operational guidelines for filtration processes are provided as performance criteria in the Procedure for Disinfection of Drinking Water in Ontario.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
BO	Values reported may be biased low due to overgrowth
MI	Detection limit was raised due to matrix interferences.
NDOGT	No data due to Over Growth for Target Organisms, Total Coliforms and / or E.coli.
NDOGN	No data due to Over Growth for Non-Target organisms.