

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	Easting	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)	October 2014 (m AMSL)	October 2015 (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	260.40
-	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	260.13
-	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	250.34
-	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	250.09
-	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	243.44
-	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	230.74
-	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	238.49
-	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	226.19
-	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	-	220.93
-	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
-	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	-	249.78
-	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	-	237.86
-	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	-	212.28
-	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	-	-	-
-	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	258.89
-	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	260.36
-	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	-	-

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

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MOE WWR No.	Location			Coordinates			Ground Surface m AMSL	Elevation		Stick-up (m AGS)	Borehole Depth (m BGS)	Well Diameter (mm)	Screened Interval				Screened Material	
	Well ID	Installation Date	Status	Easting	Northing	Source		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	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	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	Silty Sand Till	-

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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

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

Sample Location	Units	PWQO	SW2						SW3						SW4			
			13-Dec-13 CLARS1213TWS- 160960745- 20131213-JK5	7-May-14	14-Aug-14	2-Oct-14	13-Apr-15	6-Oct-15	7-May-14	7-May-14	14-Aug-14	14-Aug-14	1-Oct-14	1-Oct-14	13-Apr-15	6-Oct-15	6-Oct-15	13-Apr-15
Sample Date																		
Sample ID			160960745- 20131213-JK5	SW2-13	SW2-13	WG-160900764- 20141002-JK12	WS-160900764- 20150413-RD102	WS-160900764- 2015106-RD102	SW3-13	SW3-13 DUP	SW3-13	SW3-13DUP	WG-160900764- 20141001-JK3	WG-160900764- 20141001-JK4	WS-160900764- 20150413-RD101	WS-160900764- 2015106-RD100	WS-160900764- 2015106-RD101	WS-160900764- 20150413-RD100
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B3L6734	B475198	B4E7836	B4I4507	B565881	B5K3284	B475198	B475198	B4E7836	B4E7836	B4I4507	B4I4507	B565881	B5K3284	B5K3284	B565881
Laboratory Sample ID			UH4005	VV0988	XD5724	XV9126	ACK468	BCP436	VV0989	VV0990	XD5723	XD5725	XV9124	XV9125	ACK467	BCP434	BCP435	ACK466
Sample Type									Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate				
General Chemistry																		
Acidity	mg/L	n/v	-	10	10	45	32	57	<10	<10	29	115	23	20	12	32	32	14
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	250	370	440	310	440	230	230	300	290	340	350	270	370	370	230
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	2.6	2.4	1.9	1.1	2.2	4.4	4.5	3.9	3.6	3.0	3.1	1.5	2.5	2.5	<1
Alkalinity, Total (as CaCO3)	mg/L	316 ^A	290	260	380	440	310	440	230	230	310	290	350	350	270	370	370	230
Ammonia (as N)	mg/L	n/v	0.23	0.11	0.10	0.13	0.54	<0.050	0.14	0.060	<0.050	0.053	<0.050	<0.050	0.19	0.064	0.093	0.24
Chloride	mg/L	n/v	11	11	8	11	16	12	12	14	12	17	12	12	18	14	15	48
Cyanide (Free)	µg/L	5 ^A	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	650	540	770	840	680	900	520	520	680	660	700	710	600	840	840	840
Fluoride	mg/L	n/v	-	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.21
Hardness (as CaCO3)	mg/L	n/v	380	300	410	500	380	490	280	280	360	490	420	430	340	460	470	410
Langelier Index (at 20 C)	none	n/v	1.03	1.06	1.11	1.10	0.749	1.16	1.26	1.28	1.28	1.22	1.24	1.26	0.842	1.17	1.18	0.625
Langelier Index (at 4 C)	none	n/v	0.779	0.814	0.865	0.851	0.501	0.907	1.01	1.03	1.03	0.967	0.990	1.01	0.593	0.919	0.928	0.377
Nitrate (as N)	mg/L	n/v	0.41	0.41	0.55	<0.10	0.56	<0.10	3.11	3.10	2.39	2.33	0.98	0.94	1.94	<0.10	<0.10	1.71
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.073	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	0.015
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	0.013	<0.010	0.013	<0.010	<0.01	<0.010	<0.010	<0.01
pH	S.U.	6.5-8.5 ^A	7.88	8.04	7.83	7.67	7.58	7.73	8.32	8.32	8.14	8.12	7.97	7.98	7.77	7.85	7.85	7.60
Phosphorus, Total	mg/L	0.03 ^A	9.2 ^C	0.011	0.037 ^C	0.19 ^C	0.062 ^C	0.015	0.005	0.005	0.010	0.008	0.020	0.017	0.025	0.016	0.010	0.031 ^C
Saturation pH (at 20 C)	none	n/v	6.85	6.98	6.72	6.57	6.83	6.58	7.06	7.05	6.86	6.91	6.74	6.72	6.92	6.68	6.68	6.98
Saturation pH (at 4 C)	none	n/v	7.10	7.23	6.97	6.82	7.08	6.83	7.31	7.29	7.11	7.16	6.99	6.97	7.17	6.93	6.93	7.23
Sulfate	mg/L	n/v	30	19	34	34	22	48	16	16	35	33	31	31	20	74	83	110
Total Dissolved Solids	mg/L	n/v	-	318	486	496	-	546	300	302	458	424	422	422	-	532	542	-
Total Organic Carbon	mg/L	n/v	54	3.8	4.1	7.7	11	3.8	2.5	2.6	3.2	3.2	4.4	4.4	5.2	4.2	4.2	11
Total Suspended Solids	mg/L	n/v	-	<10	34	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	n/v	27	<0.2	21	6.4	2.7	2.2	0.4	0.5	3.5	0.7	2.4	2.5	1.2	1.2	1.1	2.3
BTEX and Petroleum Hydrocarbons																		
Benzene	µg/L	100 ^B	<0.20	<0.20	<0.20	<0.20	<0.20	<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	0.8 ^C	<0.20	<0.20	<0.20	<0.20	1.7 ^C	<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	8 ^C	<0.20	<0.20	<0.20	<0.20	<0.20	<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	32,17 ^B	<0.40	<0.40	<0.40	<0.40	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	40 ^C	<0.20	<0.20	<0.20	<0.20	<0.20	<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	72,10 ^B	<0.40	<0.40	<0.40	<0.40	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25	<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	<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	<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	<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	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at nC50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Metals, Dissolved																		
Calcium	µg/L	n/v	140000	110000	150000	180000	130000	180000	100000	100000	130000	120000	150000	150000	120000	170000	170000	130000
Magnesium	µg/L	n/v	8400	7000	9300	12000	11000	12000	6700	6800	9800	9400	11000	11000	8900	12000	12000	17000
Potassium	µg/L	n/v	<1000	<1000	<1000	2000	5000	<1000	1000	1000	1000	1000	2000	2000	3000	2000	2000	8000
Sodium	µg/L	n/v	3400	3500	3600	4200	5300	5900	4900	5000	5500	5400	4900	5000	5300	7700	7800	27000

See notes on last page

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

Sample Location				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample Date				CLARS1213TWG -160960745- 20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764- 20141001-JK8	WG-160900764- 20141120-CD04	WG-160900764- 20141120-CD06	WG-160900764- 20141120-CD04A	WG-160900764- 20141120-CD06A	WG-160900764- 20141126 RD03	WG-160900764- 20141126 RD03A	WG-160900764- 20150408-RD05	WG-160900764- 20150408-RD05A	WG-160900764- 20151007-RD13	WG-160900764- 20151007-RD14	WG-160900764- 20151007-RD13A	WG-160900764- 20151007-RD14A	
Sample ID																					
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969	
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type	Units	ODWQS	Ontario SCS							Field Duplicate		Field Duplicate						Field Duplicate		Field Duplicate	
General Chemistry																					
Acidity	mg/L	n/v	n/v	-	< 10	< 10	< 10	< 10	-	-	-	-	-	-	<10	-	<10	<10	-	-	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	220	200	180	180	190	-	-	-	-	-	180	-	180	-	180	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	2.2	2.9	2.5	2.6	-	-	-	-	-	2.6	-	2.1	-	1.5	1.7	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	220	200	190	180	190	-	-	-	-	-	190	-	190	-	180	180	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.26	1.2	0.20	0.18	0.17	-	-	-	-	-	0.097	-	0.073	-	0.059	0.068	-	-
Anion Sum	meq/L	n/v	n/v	5.88	4.91	4.63	4.59	4.87	-	-	-	-	-	4.70	-	4.59	-	4.52	4.63	-	-
Cation Sum	meq/L	n/v	n/v	5.83	4.33	55.6	4.44	4.47	-	-	-	-	-	4.75	-	4.59	-	4.68	4.70	-	-
Chloride	mg/L	250 ^D	790 ^{GH}	20	14	13	14	15	-	-	-	-	-	15	-	13	-	13	14	-	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	-	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	<2	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	7.9 ^D	0.87	1.2	0.74	1.0	-	-	-	-	-	0.94	-	0.68	-	0.54	0.55	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	570	420	400	420	420	-	-	-	-	-	430	-	420	-	420	420	-	-
Fluoride	mg/L	1.5 ^B	n/v	-	0.29	0.32	0.28	0.27	-	-	-	-	-	-	-	0.32	-	0.27	0.27	-	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	260 ^E	190 ^E	2700 ^E	190 ^E	200 ^E	-	-	-	-	-	210 ^E	-	200 ^E	-	200 ^E	200 ^E	-	-
Ion Balance	%	n/v	n/v	0.400	6.30	84.6	1.72	4.31	-	-	-	-	-	0.520	-	0.0400	-	1.80	0.750	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.642	0.357	2.08	0.410	0.411	-	-	-	-	-	0.458	-	0.373	-	0.227	0.266	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.393	0.107	1.83	0.161	0.162	-	-	-	-	-	0.208	-	0.123	-	-0.0230	0.0170	-	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	3.18	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-	< 0.10	-	< 0.1	-	< 0.10	< 0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	3.18	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	-	-	< 0.10	-	< 0.1	-	< 0.10	< 0.10	-	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	-	-	-	< 0.010	-	0.013	-	< 0.010	< 0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	-	-	-	< 0.010	-	< 0.01	-	< 0.010	< 0.010	-	-
pH	S.U.	6.5-8.5 ^E	n/v	7.87	8.07	8.22	8.17	8.15	-	-	-	-	-	8.17	-	8.08	-	7.96	7.99	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.71	6.14	7.76	7.74	-	-	-	-	-	7.71	-	7.71	-	7.74	7.72	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.96	6.39	8.01	7.99	-	-	-	-	-	7.96	-	7.96	-	7.99	7.97	-	-
Sulfate	mg/L	500 ^D	n/v	35	24	26	28	28	-	-	-	-	-	26	-	24	-	25	26	-	-
Total Dissolved Solids	mg/L	500 ^D	n/v	-	308	294	292	392	-	-	-	-	-	-	-	218	-	224	224	-	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	-	-	-	-	-	-	-	-	-	250	-	250	-	240	250	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.8	4.1	2.4	1.4	-	-	-	-	-	-	-	0.85	-	0.55	0.57	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	610	5000	1500	820	290	210	-	-	-	44	-	240	-	<10	<10	-	-
Turbidity, Lab	ntu	5.0 ^E	n/v	-	220 ^D	1100 ^D	710 ^D	480 ^D	37 ^D	46 ^D	-	-	-	65 ^D	-	68 ^D	-	7.0 ^D	6.5 ^D	-	-
BTEX and Petroleum Hydrocarbons																					
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	-	< 0.20	-	< 0.2	-	< 0.20	< 0.20	-	-
Toluene	µg/L	24 ^D	24 ^G 22 ^H	1.3	< 0.20	< 0.20	0.21	0.32	< 0.20	< 0.20	-	-	-	< 0.20	-	< 0.2	-	< 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	-	< 0.2	-	< 0.20	< 0.20	-	-
Xylene, m & p-	µg/L	300 ^D	300 ^{GH}	0.81	< 0.23 1B	< 0.20	0.22	< 0.40	< 0.20	< 0.20	-	-	-	< 0.20	-	< 0.2	-	< 0.20	< 0.20	-	-
Xylene, o-	µg/L	300 ^D	300 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	-	< 0.20	-	< 0.2	-	< 0.20	< 0.20	-	-
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	0.81	< 0.23	< 0.20	0.22	< 0.40	< 0.20	< 0.20	-	-	-	< 0.20	-	< 0.2	-	< 0.20	< 0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	-	-	< 25	-	< 25	< 25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	< 25	< 25	< 25	< 25	< 25	-	-	-	-	-	-	-	< 25	-	< 25	< 25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	-	-	< 100	-	< 100	< 100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	-	-	< 200	-	< 200	< 200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	< 200	< 200	< 200	< 200	< 200	-	-	-	-	-	-	-	< 200	-	< 200	< 200	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-	-	-	YES	-	YES	YES	-	-	

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

Sample Location				MW1-13-D																	
Sample Date				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample ID				CLARS1213TWG -160960745- 20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764- 20141001-JK8	WG-160900764- 20141120-CD04	WG-160900764- 20141120-CD06	WG-160900764- 20141120-CD04A	WG-160900764- 20141120-CD06A	WG-160900764- 20141126 RD03	WG-160900764- 20141126 RD03A	WG-160900764- 20150408-RD05	WG-160900764- 20150408-RD05A	WG-160900764- 20151007-RD13	WG-160900764- 20151007-RD14	WG-160900764- 20151007-RD13A	WG-160900764- 20151007-RD14A	
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969	
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type	Units	ODWQS	Ontario SCS							Field Duplicate		Field Duplicate					Field Duplicate	Field Duplicate		Field Duplicate	
Metals																					
Aluminum	µg/L	100 ^F	n/v	< 5.0	7.6	-	7.1	19	-	-	-	-	< 5.0	< 5.0	<5	-	<5	<5	-	-	
Antimony	µg/L	6 ^C	6 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	<0.5	<0.5	-	-	
Arsenic	µg/L	25 ^C	25 ^{GH}	< 1.0	1.2	-	1.1	< 1.0	-	-	-	-	1.4	1.1	1	-	1.1	<1	-	-	
Barium	µg/L	1000 ^B	1000 ^{GH}	110	96	-	84	100	-	-	-	-	110	100	100	-	99	99	-	-	
Beryllium	n/v	n/v	4 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	<0.5	<0.5	-	-	
Boron	µg/L	5000 ^C	5000 ^{GH}	38	32	-	34	32	-	-	-	-	38	33	32	-	23	22	-	-	
Cadmium	µg/L	5 ^B	2.1 ^{GH}	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	-	-	< 0.10	< 0.10	<0.1	-	<0.1	<0.1	-	-	
Calcium	µg/L	n/v	n/v	71000	25000	-	25000	26000	-	-	-	-	26000	26000	26000	-	25000	26000	-	-	
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	-	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-	-	-	-	<0.5	-	<0.50	<0.50	-	-	
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	<5	<5	-	-	
Cobalt	n/v	n/v	3.8 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	<0.5	<0.5	-	-	
Copper	µg/L	1000 ^D	69 ^{GH}	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	<1	<1	-	-	
See notes on last page																					
Metals (Contd.)																					
Iron	µg/L	300 ^D	n/v	< 100	< 100	-	< 100	< 100	-	-	-	-	250	< 100	220	-	250	250	-	-	
Lead	µg/L	10 ^C	10 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	-	-	< 0.50	< 0.50	<0.5	-	<0.5	<0.5	-	-	
Magnesium	µg/L	n/v	n/v	20000	30000	-	32000	32000	-	-	-	-	34000	34000	33000	-	34000	34000	-	-	
Manganese	µg/L	50 ^D	n/v	5.8	4.6	-	3.5	3.2	-	-	-	-	6.6	6.1	6.5	-	5.8	5.9	-	-	
Mercury	µg/L	1 ^B	0.1 ^G 0.29 ^H	-	< 0.1	< 0.1	< 0.10	< 0.1	-	-	-	-	-	-	<0.1	-	<0.1	<0.1	-	-	
Molybdenum	µg/L	n/v	70 ^{GH}	10	2.2	-	2.0	2.1	-	-	-	-	1.8	1.7	1.9	-	2.1	1.9	-	-	
Nickel	µg/L	n/v	100 ^{GH}	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	<1	<1	-	-	
Phosphorus	µg/L	n/v	n/v	< 100	< 100	-	< 100	< 100	-	-	-	-	< 100	< 100	<100	-	<100	<100	-	-	
Potassium	µg/L	n/v	n/v	6400	2800	-	2700	2500	-	-	-	-	2700	2700	2700	-	2500	2500	-	-	
Rubidium	µg/L	n/v	n/v	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	10 ^{GH}	< 2.0	< 2.0	-	< 2.0	< 2.0	-	-	-	-	< 2.0	< 2.0	<2	-	<2	<2	-	-	
Silicon	µg/L	n/v	n/v	6200	10000	-	10000	11000	-	-	-	-	11000	11000	11000	-	10000	11000	-	-	
Silver	µg/L	n/v	1.2 ^{GH}	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	-	-	< 0.10	< 0.10	<0.1	-	<0.1	<0.1	-	-	
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	9200	11000	-	12000	10000	-	-	-	-	12000	11000	12000	-	12000	12000	-	-	
Strontium	µg/L	n/v	n/v	470	570	-	580	590	-	-	-	-	640	640	600	-	600	600	-	-	
Thallium	µg/L	n/v	2 ^{GH}	< 0.050	< 0.050	-	< 0.050	< 0.050	-	-	-	-	< 0.050	< 0.050	<0.05	-	<0.05	<0.05	-	-	
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	<5	<5	-	-	
Uranium	µg/L	20 ^B	20 ^{GH}	0.92	0.17	-	0.41	0.19	-	-	-	-	< 0.10	< 0.10	<0.1	-	<0.1	<0.1	-	-	
Vanadium	µg/L	n/v	6.2 ^{GH}	0.94	< 0.50	-	0.87	0.55	-	-	-	-	< 0.50	< 0.50	<0.5	-	<0.5	<0.5	-	-	
Zinc	µg/L	5000 ^D	890 ^{GH}	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	-	-	< 5.0	< 5.0	<5	-	<5	<5	-	-	
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	-	< 1.0	-	-	-	-	< 1.0	< 1.0	<1	-	<1	<1	-	-	
Polychlorinated Biphenyls																					
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 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				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample Date				CLARS1213TWG -160960745- 20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764- 20141001-JK8	WG-160900764- 20141120-CD04	WG-160900764- 20141120-CD06	WG-160900764- 20141120-CD04A	WG-160900764- 20141120-CD06A	WG-160900764- 20141126 RD03	WG-160900764- 20141126 RD03A	WG-160900764- 20150408-RD05	WG-160900764- 20150408-RD05A	WG-160900764- 20151007-RD13	WG-160900764- 20151007-RD14	WG-160900764- 20151007-RD13A	WG-160900764- 20151007-RD14A	
Sample ID																					
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969	
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type	Units	ODWQS	Ontario SCS								Field Duplicate	Field Duplicate					Field Duplicate	Field Duplicate		Field Duplicate	
Semi - Volatile Organic Compounds																					
Phthalates																					
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	-	41 ^{GH}	1	4	4	2	<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	0.3	0.1	0.2	<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	<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	<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	<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	<0.05	<0.05	<0.05	
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	-	<0.05	0.06	<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	<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	<0.01	<0.01	<0.01	
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^H	-	<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	<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	<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	<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	<0.05	<0.05	<0.05	
Dibenz(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	<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	<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	<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	<0.1	<0.1	<0.1	
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^H	-	<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	<0.28	<0.28	<0.28	
Methylnaphthalene, 1-	µg/L	n/v	3 ^{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	<0.2	<0.2	<0.2	
Methylnaphthalene, 2-	µg/L	n/v	3 ^{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	<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	<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	<0.1	<0.1	<0.1	
Pyrene	µg/L	n/v	4.1 ^{GH}	-	<0.05	0.06	0.06	<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	
See notes on last page																					
Semi - Volatile Organic Compounds (Contd.)																					
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	<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	<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	<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	<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	<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	<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	<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	<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	<2	<2	<2	
Dinitrotoluene, 2,4-	µg/L	n/v	5 ^{GH} 5 ^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	<0.3	<0.3	<0.3	
Dinitrotoluene, 2,6-	µg/L	n/v	5 ^{GH} 5 ^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	<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	<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	<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	<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	<0.2	<0.2	<0.2	
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	-	<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	<0.2	<0.2	<0.2	

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

Sample Location				13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	7-Oct-15	7-Oct-15
Sample Date				CLARS1213TWG -160960745- 20131213-JK2	MW1-13-D	MW1-13-D	MW1-13-D	WG-160900764- 20141001-JK8	WG-160900764- 20141120-CD04	WG-160900764- 20141120-CD06	WG-160900764- 20141120-CD04A	WG-160900764- 20141120-CD06A	WG-160900764- 20141126 RD03	WG-160900764- 20141126 RD03A	WG-160900764- 20150408-RD05	WG-160900764- 20150408-RD05A	WG-160900764- 20151007-RD13	WG-160900764- 20151007-RD14	WG-160900764- 20151007-RD13A	WG-160900764- 20151007-RD14A	
Sample ID																					
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565	YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969	
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered	Lab Filtered	Field Filtered Metals	Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type	Units	ODWQS	Ontario SCS							Field Duplicate		Field Duplicate					Field Duplicate			Field Duplicate	
Volatile Organic Compounds																					
Acetone	µg/L	n/v	2700 ^{GH}	-	< 10	< 10	< 10	< 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	-	< 0.50	-	< 0.50	< 0.50	-	-	
Bromoform (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	-	< 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	0.89 ^{GH}	-	< 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	5 ^B	0.2 ^G 0.79 ^H	-	< 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	30 ^{GH}	-	< 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	2 ^G 2.4 ^H	-	< 0.20	< 0.20	< 0.20	< 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	-	< 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	-	< 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	-	< 0.50	-	< 0.50	< 0.50	-	-	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F	0.5 ^G 1 ^H	-	< 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	590 ^{GH}	-	< 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	5 ^{GH}	-	< 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	0.5 ^G 1.6 ^H	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	-	
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	-	< 0.20	-	< 0.20	-	< 0.20	< 0.20	-	-	
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	-	
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	-	< 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	0.58 ^G 5 ^H	-	< 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	0.5 ^G 1 ^H 0.5 ^G 1 ^H	-	< 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	1 ^{GH}	-	< 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	1 ^{GH}	-	< 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	0.2 ^{GH}	-	< 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	5 ^G 51 ^H	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	< 1.0	-	-	
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	-	< 10	< 10	< 10	< 10	< 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	-	-	< 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	-	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	-	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	-	< 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	5.4 ^{GH}	-	< 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	1.1 ^{GH}	-	< 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	0.5 ^G 1 ^H	-	< 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	0.5 ^G 1.6 ^H	-	< 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	23 ^G 200 ^H	-	< 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	0.5 ^G 4.7 ^H	-	< 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	0.5 ^G 1.6 ^H	-	< 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	150 ^{GH}	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	-	
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	-	< 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 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	Units	ODWQS	Ontario SCS	MW1-13-S										MW2-13-D								
												13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	
												CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126-RD04	WG-160900764-20141126-RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126-RD01	
												STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	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	MAXX	MAXX	MAXX	MAXX	MAXX
												B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M4069	
												UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	UH4003	VV0846	XD5195	XV9685	YP9569	
												Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	
General Chemistry																														
Acidity	mg/L	n/v	n/v	-	26	14	15	84	-	-	-	-	-	11	-	13	-	-	< 10	< 10	< 10	-								
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	180	190	190	200	-	-	-	220	-	210	-	210	-	120	88	88	89	97								
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	1.3	1.8	1.6	1.7	-	-	-	1.7	-	1.3	-	1.3	-	1.5	1.8	1.8	1.5	2.0								
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	180	180	190	190	200	-	-	-	220	-	210	-	210	-	120	90	90	91	99								
Ammonia (as N)	mg/L	n/v	n/v	0.37	0.13	0.91	0.72	0.44	-	-	-	<0.050	-	<0.05	-	0.14	-	0.34	<0.050	<0.050	0.27	0.063								
Anion Sum	meq/L	n/v	n/v	7.36	7.11	7.48	7.28	7.82	-	-	-	8.09	-	8.20	-	7.97	-	3.78	2.27	2.14	2.14	2.23								
Cation Sum	meq/L	n/v	n/v	7.46	6.85	10.6	7.29	7.73	-	-	-	8.52	-	8.25	-	8.20	-	4.05	64.8	2.08	2.18	2.11								
Chloride	mg/L	250 ^D	790 ^{GH}	37	25	25	25	25	-	-	-	25	-	25	-	25	-	21	6	3	2	2								
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	-	<2	<2	<2	<2	-	-	-	<2	-	<2	-	<2	-	-	<2	<2	<2	-								
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	2.8	1.2	1.4	1.2	1.1	-	-	-	3.2	-	0.96	-	0.85	-	14 ^D	3.2	2.9	2.5	2.0								
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	740	700	720	710	740	-	-	-	780	-	770	-	770	-	380	200	200	200	190								
Fluoride	mg/L	1.5 ^B	n/v	-	0.16	0.14	0.17	0.15	-	-	-	-	-	0.13	-	0.14	-	-	0.96	0.84	0.78	-								
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	330 ^E	320 ^E	490 ^E	340 ^E	370 ^E	-	-	-	410 ^E	-	400 ^E	-	390 ^E	-	130 ^E	3200 ^E	45 ^E	49 ^E	43 ^E								
Ion Balance	%	n/v	n/v	0.670	1.90	17.3	0.0300	0.580	-	-	-	2.54	-	0.300	-	1.40	-	3.37	93.2	<0	<0	<0								
Langelier Index (at 20 C)	none	n/v	n/v	0.588	0.597	0.980	0.693	0.714	-	-	-	0.802	-	0.682	-	0.662	-	0.359	2.02	-0.106	-0.175	-0.0410								
Langelier Index (at 4 C)	none	n/v	n/v	0.339	0.348	0.732	0.445	0.467	-	-	-	0.554	-	0.434	-	0.413	-	0.109	1.77	-0.355	-0.423	-0.292								
Nitrate (as N)	mg/L	10.0 ^B	n/v	5.59	12.8 ^B	16.1 ^B	11.0 ^B	18.2 ^B	-	-	-	17.0 ^B	-	20.4 ^B	-	16.7 ^B	-	0.96	<0.10	<0.10	<0.10	<0.10								
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	5.62	12.8 ^B	16.1 ^B	11.5 ^B	18.3 ^B	-	-	-	17.0 ^B	-	20.4 ^B	-	16.8 ^B	-	0.99	<0.10	<0.10	<0.10	<0.10								
Nitrite (as N)	mg/L	1.0 ^B	n/v	0.027	0.033	<0.010	0.511	0.108	-	-	-	0.030	-	<0.01	-	0.058	-	0.023	<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	<0.010	-	-	-	<0.010	-	<0.01	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010								
pH	S.U.	6.5-8.5 ^E	n/v	7.84	7.89	8.00	7.97	7.95	-	-	-	7.91	-	7.81	-	7.82	-	8.15	8.35	8.33	8.27	8.35								
Saturation pH (at 20 C)	none	n/v	n/v	7.25	7.29	7.02	7.28	7.23	-	-	-	7.11	-	7.13	-	7.16	-	7.79	6.33	8.44	8.44	8.39								
Saturation pH (at 4 C)	none	n/v	n/v	7.50	7.54	7.27	7.52	7.48	-	-	-	7.36	-	7.38	-	7.41	-	8.04	6.58	8.69	8.69	8.64								
Sulfate	mg/L	500 ^D	n/v	110	90	87	95	84	-	-	-	85	-	87	-	88	-	38	11	11	11	10								
Total Dissolved Solids	mg/L	500 ^D	n/v	-	416	454	534 ^D	616 ^D	-	-	-	-	-	476	-	458	-	-	170	276	346	-								
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	-	-	-	-	-	-	-	490	-	490	-	470	-	-	-	-	-	130								
Total Organic Carbon	mg/L	n/v	n/v	-	1.5	2.7	2.5	2.7	-	-	-	-	-	0.97	-	0.98	-	-	11	3.5	2.5	-								
Total Suspended Solids	mg/L	n/v	n/v	-	1800	400	230	2600	340	-	-	35	-	10	-	17	-	-	18000	12000	7400	40								
Turbidity, Lab	ntu	5.0 ^E	n/v	-	100 ^D	120 ^D	76 ^D	580 ^D	46 ^D	-	-	12 ^D	-	6.6 ^D	-	5.4 ^D	-	-	1400 ^D	3100 ^D	5200 ^D	110 ^D								
BTEX and Petroleum Hydrocarbons																														
Benzene	µg/L	5 ^B	0.5 ^D 5 ^H	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	-	1.7 ^G	0.77 ^G	0.32	0.31	<0.20								
Toluene	µg/L	24 ^D	24 ^G 22 ^H	1.0	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	-	3.4	1.4	0.82	0.96	0.44								
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	-	0.49	0.22	<0.20	<0.20	<0.20								
Xylene, m & p-	µg/L	300 ^D	300 ^{GH}	1.2	<0.20	<0.20	<0.20	<0.40	<0.40	-	-	<0.20	-	<0.2	-	<0.20	-	1.7	0.82	0.52	0.74	0.29								
Xylene, o-	µg/L	300 ^D	300 ^{GH}	0.49	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.2	-	<0.20	-	0.61	0.31	<0.20	0.30	<0.20								
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	1.7	<0.20	<0.20	<0.20	<0.40	<0.40	-	-	<0.20	-	<0.2	-	<0.20	-	2.3	1.1	0.52	1.0	0.29								
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	<25	<25	<25	<25	<25	<25	-	-	<25	-	<25	-	<25	-	<25	<25	<25	<25	<25								
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	<25	<25	<25	<25	<25	<25	-	-	<25	-	<25	-	<25	-	<25	<25	<25	<25	<25								
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	<100	<100	<100	<100	<100	<100	-	-	<100	-	<100	-	<100	-	<100	<100	<100	<100	<100								
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	<200	<200	<200	<200	<200	<200	-	-	<200	-	<200	-	<200	-	<200	<200	<200	<200	<200								
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	<200	<200	<200	<200	<200	<200	-	-	<200	-	<200	-	<200	-	<200	<200	<200	<200	<200								
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	YES	YES	YES	YES	-	-	-	-	YES	-	YES	-	YES	YES	YES	YES	-								

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW1-13-S										MW2-13-D							
					13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14
Sample ID	Sample ID				CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126-RD04	WG-160900764-20141126-RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126-RD01
Sampling Company	Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order	Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M4069
Laboratory Sample ID	Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	UH4003	VV0846	XD5195	XV9685	YP9569
Filtered	Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals
Sample Type	Sample Type																					
Metals																						
Aluminum	µg/L	100 ^F	n/v	< 5.0	7.0	-	< 5.0	5.4	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.9	-	13	14	7.6
Antimony	µg/L	6 ^C	6 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50
Arsenic	µg/L	25 ^C	25 ^{GH}	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	1.4	1.2	< 1.0
Barium	µg/L	1000 ^B	1000 ^{GH}	110	59	-	63	66	-	-	73	69	62	-	59	-	100	-	33	42	28	
Beryllium	µg/L	n/v	4 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50
Boron	µg/L	5000 ^C	5000 ^{GH}	76	38	-	59	38	-	-	23	18	12	-	12	-	150	-	140	130	140	
Cadmium	µg/L	5 ^B	2.1 ^{GH}	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	< 0.10	< 0.10	< 0.10
Calcium	µg/L	n/v	n/v	87000	80000	-	85000	89000	-	-	100000	100000	100000	-	94000	-	34000	-	11000	11000	9300	
Cesium	µg/L	n/v	n/v	< 0.20	-	-	-	-	-	-	-	-	-	-	-	-	< 0.20	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	-	< 0.50	< 0.50	< 5.0	< 5.0	-	-	-	-	0.80	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0
Cobalt	µg/L	n/v	3.8 ^{GH}	0.85	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50
Copper	µg/L	1000 ^D	69 ^{GH}	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	3.5	< 1.0	< 1.0
See notes on last page																						
Metals (Contd.)																						
Iron	µg/L	300 ^D	n/v	< 100	< 100	-	< 100	< 100	-	-	< 100	< 100	< 100	-	< 100	-	< 100	-	< 100	< 100	< 100	< 100
Lead	µg/L	10 ^C	10 ^{GH}	< 0.50	< 0.50	-	< 0.50	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50
Magnesium	µg/L	n/v	n/v	27000	29000	-	31000	35000	-	-	36000	35000	35000	-	38000	-	11000	-	4600	5300	4800	
Manganese	µg/L	50 ^D	n/v	35	16	-	14	5.8	-	-	9.3	9.3	5.7	-	11	-	7.6	-	2.8	3.2	2.6	
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	-	< 0.1	< 0.1	< 0.10	< 0.1	-	-	-	-	< 0.1	-	< 0.1	-	-	0.00016	< 0.10	< 0.1	-	-
Molybdenum	µg/L	n/v	70 ^{GH}	13	9.1	-	15	11	-	-	4.6	5.1	3.2	-	5.9	-	22	-	8.6	5.4	3.6	
Nickel	µg/L	n/v	100 ^{GH}	< 1.0	< 1.0	-	< 1.0	< 1.0	-	-	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Phosphorus	µg/L	n/v	n/v	< 100	< 100	-	< 100	< 100	-	-	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	< 100	< 100
Potassium	µg/L	n/v	n/v	12000	5500	-	6200	5100	-	-	3700	3700	2800	-	4100	-	7700	-	2600	2200	2200	
Rubidium	µg/L	n/v	n/v	6.9	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	< 2.0	< 2.0	-	< 2.0	< 2.0	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2.0
Silicon	µg/L	n/v	n/v	6900	6000	-	6800	7900	-	-	9100	8700	7600	-	7800	-	4900	-	4000	4400	4700	
Silver	µg/L	n/v	1.2 ^{GH}	< 0.10	< 0.10	-	< 0.10	< 0.10	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	< 0.10	< 0.10	< 0.10
Sodium	µg/L	200000 ^D 200000 ^F	490000 ^{GH}	13000	6800	-	7100	6300	-	-	6300	6000	5400	-	6500	-	27000^F	-	25000^F	26000^F	27000^F	
Strontium	µg/L	n/v	n/v	420	370	-	400	400	-	-	370	370	340	-	390	-	470	-	240	290	240	
Thallium	µg/L	n/v	2 ^{GH}	< 0.050	< 0.050	-	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.050	< 0.050	< 0.050
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0
Uranium	µg/L	20 ^B	20 ^{GH}	3.6	3.1	-	3.0	3.0	-	-	2.2	2.3	1.8	-	2.8	-	0.57	-	0.64	0.48	< 0.10	
Vanadium	µg/L	n/v	6.2 ^{GH}	0.75	< 0.50	-	< 0.50	0.63	-	-	< 0.50	0.54	< 0.50	< 0.50	< 0.50	< 0.50	1.0	-	1.6	2.3	< 0.50	
Zinc	µg/L	5000 ^D	890 ^{GH}	< 5.0	< 5.0	-	< 5.0	< 5.0	-	-	6.5	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0
Zirconium	µg/L	n/v	n/v	< 1.0	-	-	-	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1.0
Polychlorinated Biphenyls																						
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.5	-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.5	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.5	-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.5	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.5	-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.5	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.5	-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.5	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	< 0.05	< 0.05	< 0.05	< 0.5	-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.5	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW1-13-S															MW2-13-D				
					13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14		
Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	CLARS1213TWG-160960745-20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764-20141001-JK9	WG-160900764-20141120-CD03	WG-160900764-20141120-CD03A	WG-160900764-20141126 RD04	WG-160900764-20141126 RD04A	WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01		
Sampling Company	Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory	Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M4069		
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	UH4003	VV0846	XD5195	XV9685	YP9569		
Filtered	Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals		
Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals		
Semi - Volatile Organic Compounds																								
Phthalates																								
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	-	17 ^{GH}	4	2	28 ^{GH}	4	1	<1	<1	<1	<1	<1	<1	-	4	<1	<1	1			
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	-	<0.5	0.1	0.1	<2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	<0.1	0.2			
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	-	<0.5	<0.1	<0.1	<2	<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}	-	<1	<0.2	<0.2	<4	<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}	-	<1	<0.2	<0.2	<4	<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}	-	<0.3	<0.05	<0.05	<1	<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}	-	0.3	0.05	<0.05	<1	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.06	<0.05	<0.05	<0.05			
Benzo(a)pyrene	µg/L	0.01 ^B	0.01 ^{GH}	-	0.26 ^{BGH}	0.04 ^{BGH}	0.03 ^{BGH}	<0.2	0.08 ^{BGH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	0.02 ^{BGH}			
Benzo(b)fluoranthene	µg/L	n/v	0.1, 12 ^{GH} , 0.1, 12 ^H	-	0.4 ^{GH}	0.06	<0.05	<1	0.10	<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}	-	<0.5	<0.2 MI	<0.05	<1	0.06	<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}	-	<0.3	<0.05	<0.05	<1	<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}	-	0.4 ^{GH}	0.06	<0.05	<1	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.07	<0.05	<0.05	<0.05			
Dibenzo(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	-	<0.5	<0.1	<0.1	<2	<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}	-	<1	<0.2	<0.2	<4	<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}	-	<1	<0.2	<0.2	<4	<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}	-	<0.5	<0.1	<0.1	<2	<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	3,2,3 ^{GH} , 3,2,3 ^H	-	<1.4	<0.28	<0.28	<5.7	<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	3 ^{GH}	-	<1	<0.2	<0.2	<4	<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	3 ^{GH}	-	<1	<0.2	<0.2	<4	<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	-	<1	<0.2	<0.2	<4	<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}	-	0.6	0.1	<0.1	<2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	0.1	<0.1			
Pyrene	µg/L	n/v	4.1 ^{GH}	-	0.9	0.14	0.11	<1	0.24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.13	<0.05	0.12	<0.05			
See notes on last page																								
Semi - Volatile Organic Compounds (Contd.)																								
Remaining Semi - Volatile Organic Compounds																								
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	-	<0.5	<0.1	<0.1	<2	<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}	-	<3	<0.5	<0.5	<10	<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}	-	<3	<0.5	<0.5	<10	<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}	-	<5	<1	<1	<20	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1			
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8,9 ^{GH}	-	<0.5	<0.1	<0.1	<2	<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}	-	<3	<0.5	<0.5	<10	<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}	-	<0.5	<0.1	<0.1	<2	<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}	-	<3	<0.5	<0.5	<10	<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}	-	<10	<2	<2	<40	<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	-	<1	<0.3	<0.3	<5	<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	-	<1	<0.3	<0.3	<5	<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}	-	<0.5	<0.1	<0.1	<2	<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}	-	<3	<0.5	<0.5	<10	<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	-	<0.5	<0.1	<0.1	<2	<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, 2,4,6-	µg/L	n/v	8,9 ^{GH}	-	<1	<0.2	<0.2	<4	<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	n/v	5 ^B , 2 ^D	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2			

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW1-13-S										MW2-13-D								
					13-Dec-13	19-Mar-14	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	
Sample ID	Sample ID				CLARS1213TWG -160960745- 20131213-JK1	MW1-13-S	MW1-13-S	MW1-13-S	WG-160900764- 20141001-JK9	WG-160900764- 20141120-CD03	WG-160900764- 20141120-CD03A	WG-160900764- 20141126 RD04	WG-160900764- 20141126 RD04A	WG-160900764- 20150408-RD04	WG-160900764- 20150408-RD04A	WG-160900764- 20151007-RD12	WG-160900764- 20151007-RD12A	CLARS1213TWG -160960745- 20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764- 20141002-JK11	WG-160900764- 20141126 RD01	
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
				Lab Filtered	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
				Metals	B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M4069	
				Metals	UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576	ABP945	ABP946	BCZ963	BCZ964	UH4003	VV0846	XD5195	XV9685	YP9569	
Sample Type				Metals	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	-	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Lab Filtered	Field Filtered	
Volatile Organic Compounds																							
Acetone	µg/L	n/v		2700 ^{GH}	-	< 10	< 10	< 10	< 10	< 10	-	< 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	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Bromofom (Tribromomethane)	µg/L	n/v		5 ^G 25 ^H	-	< 1.0	< 1.0	< 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		0.89 ^{GH}	-	< 0.50	< 0.50	< 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	5 ^B		0.2 ^G 0.79 ^H	-	< 0.20	< 0.20	< 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		30 ^{GH}	-	< 0.20	< 0.20	< 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		2 ^G 2.4 ^H	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 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	-	< 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	-	< 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	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F ^D		0.5 ^G 1 ^H	-	< 0.50	< 0.50	< 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		590 ^{GH}	-	< 1.0	< 1.0	< 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		5 ^{GH}	-	< 0.20	< 0.20	< 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		0.5 ^G 1.6 ^H	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Dichloroethene, 1,1-	µg/L	14 ^B		0.5 ^G 1.6 ^H	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	-	< 0.20	-	< 0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	
Dichloroethene, cis-1,2-	µg/L	n/v		1.6 ^{GH}	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Dichloroethene, trans-1,2-	µg/L	n/v		1.6 ^{GH}	-	< 0.50	< 0.50	< 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		0.58 ^G 5 ^H	-	< 0.20	< 0.20	< 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		0.5 ^G 0.5 ^H 1 ^I	-	< 0.50	< 0.50	< 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		1 ^{GH}	-	< 0.30	< 0.30	< 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		1 ^{GH}	-	< 0.40	< 0.40	< 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		0.2 ^{GH}	-	< 0.20	< 0.20	< 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		5 ^G 51 ^H	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl Ethyl Ketone (MEK)	µg/L	n/v		1800 ^{GH}	-	< 10	< 10	< 10	< 10	< 10	-	< 10	-	< 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	-	< 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	-	< 0.50	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B		26 ^G 50 ^H	-	< 2.0	< 2.0	< 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		5.4 ^{GH}	-	< 0.50	< 0.50	< 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		1.1 ^{GH}	-	< 0.50	< 0.50	< 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		0.5 ^G 1 ^H	-	< 0.50	< 0.50	< 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		0.5 ^G 1.6 ^H	-	< 0.20	< 0.20	< 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		23 ^G 200 ^H	-	< 0.20	< 0.20	< 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		0.5 ^G 4.7 ^H	-	< 0.50	< 0.50	< 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		0.5 ^G 1.6 ^H	-	< 0.20	< 0.20	< 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		150 ^{GH}	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	µg/L	2 ^B		0.5 ^{GH}	-	< 0.20	< 0.20	< 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 4
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Transformer Station
Hydro One Networks Inc.

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW2-13-D					13-Dec-13 CLARS1213TWG -160960745- 20131213-JK4	MW2-13-S											
					26-Nov-14 WG-160900764- 20141126 RD01A	10-Apr-15 WG-160900764- 20150410-RD11	10-Apr-15 WG-160900764- 20150410-RD11A	7-Oct-15 WG-160900764- 20151007-RD16	7-Oct-15 WG-160900764- 20151007-RD16A		7-May-14 MW2-13-S	15-Aug-14 MW2-13-S	1-Oct-14 WG-160900764- 20141002-JK10	20-Nov-14 WG-160900764- 20141120-CD02	20-Nov-14 WG-160900764- 20141120-CD02A	26-Nov-14 WG-160900764- 20141126 RD02	26-Nov-14 WG-160900764- 20141126 RD02A	14-Apr-15 WG-160900764- 20150414-RD15	14-Apr-15 WG-160900764- 20150414-RD15A	7-Oct-15 WG-160900764- 20151007-RD15	7-Oct-15 WG-160900764- 20151007-RD15A	
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Filtered	Sample Type	STANTEC MAXX B4M4069 YP9570 Lab Filtered	STANTEC MAXX B563828 ABZ562 Field Filtered Metals	STANTEC MAXX B563828 ABZ563 Lab Filtered	STANTEC MAXX B5K5143 BCZ972 Field Filtered Metals	STANTEC MAXX B5K5143 BCZ973 Lab Filtered	STANTEC MAXX B3L6734 UH4004 Lab Filtered Metals	STANTEC MAXX B475182 VV0845 Lab Filtered Metals	STANTEC MAXX B4E7727 XD5196 Lab Filtered Metals	STANTEC MAXX B4I4645 XV9684 Lab Filtered Metals	STANTEC MAXX B4M0745 YO3442 -	STANTEC MAXX B4M0745 YO3443 Lab Filtered	STANTEC MAXX B4M4069 YP9571 Field Filtered Metals	STANTEC MAXX B4M4069 YP9572 Lab Filtered	STANTEC MAXX B565881 ACK475 Field Filtered Metals	STANTEC MAXX B565881 ACK476 Lab Filtered	STANTEC MAXX B5K5143 BCZ970 Field Filtered Metals	STANTEC MAXX B5K5143 BCZ971 Lab Filtered
General Chemistry																						
Acidity	mg/L	n/v	n/v	-	<10	-	<10	-	-	<10	<10	<10	<10	-	-	-	<10	-	<10	-	<10	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	98	-	100	-	200	190	190	190	-	-	-	190	-	180	-	190	-	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	1.3	-	1.7	-	2.0	2.5	2.4	2.2	-	-	-	2.3	-	<1	-	1.4	-	
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	-	99	-	100	-	200	190	200	190	-	-	-	190	-	180	-	190	-	
Ammonia (as N)	mg/L	n/v	n/v	-	0.066	-	<0.050	-	0.16	0.15	0.12	0.23	-	-	-	<0.050	-	0.052	-	0.10	-	
Anion Sum	meq/L	n/v	n/v	-	2.41	-	2.29	-	5.12	4.51	4.63	4.49	-	-	-	4.46	-	4.26	-	4.47	-	
Cation Sum	meq/L	n/v	n/v	-	2.01	-	2.19	-	5.11	52.6	4.47	4.55	-	-	-	4.49	-	4.27	-	4.61	-	
Chloride	mg/L	250 ^D	790 ^{GH}	-	9	-	2.3	-	9	6	5	5	-	-	-	5	-	5	-	5.1	-	
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	-	<2	-	<2	-	-	<2	<2	<2	-	-	-	-	-	<2	-	<2	-	
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	-	3.5	-	3.4	-	1.3	1.2	0.93	1.5	-	-	-	1.2	-	0.64	-	0.81	-	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	-	190	-	180	-	490	390	410	410	-	-	-	410	-	380	-	400	-	
Fluoride	mg/L	1.5 ^B	n/v	-	0.97	-	0.91	-	-	0.27	0.27	0.27	-	-	-	-	-	0.27	-	0.28	-	
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	-	39 ^E	-	43 ^E	-	210 ^E	260 ^E	190 ^E	200 ^E	-	-	-	200 ^E	-	190 ^E	-	200 ^E	-	
Ion Balance	%	n/v	n/v	-	NC	-	NC	-	0.110	84.2	1.85	0.610	-	-	-	0.290	-	0.160	-	1.55	-	
Langelier Index (at 20 C)	none	n/v	n/v	-	-0.324	-	-0.121	-	0.606	2.02	0.565	0.497	-	-	-	0.538	-	0.0180	-	0.304	-	
Langelier Index (at 4 C)	none	n/v	n/v	-	-0.574	-	-0.372	-	0.357	1.77	0.316	0.249	-	-	-	0.289	-	-0.232	-	0.0540	-	
Nitrate (as N)	mg/L	10.0 ^B	n/v	-	<0.1	-	<0.10	-	0.18	<0.10	<0.10	<0.10	-	-	-	<0.10	-	<0.1	-	<0.10	-	
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	-	<0.1	-	<0.10	-	0.18	<0.10	<0.10	<0.10	-	-	-	<0.10	-	-	-	<0.10	-	
Nitrite (as N)	mg/L	1.0 ^B	n/v	-	<0.01	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	-	-	-	<0.010	-	<0.01	-	<0.010	-	
Orthophosphate (as P)	mg/L	n/v	n/v	-	<0.01	-	<0.010	-	<0.010	<0.010	<0.010	<0.010	-	-	-	<0.010	-	<0.01	-	<0.010	-	
pH	S.U.	6.5-8.5 ^E	n/v	-	8.13	-	8.26	-	8.03	8.15	8.11	8.09	-	-	-	8.11	-	7.63	-	7.88	-	
Saturation pH (at 20 C)	none	n/v	n/v	-	8.46	-	8.38	-	7.42	6.13	7.55	7.59	-	-	-	7.57	-	7.61	-	7.58	-	
Saturation pH (at 4 C)	none	n/v	n/v	-	8.71	-	8.63	-	7.67	6.38	7.80	7.84	-	-	-	7.82	-	7.86	-	7.83	-	
Sulfate	mg/L	500 ^D	n/v	-	6	-	4.3	-	39	27	26	23	-	-	-	23	-	22	-	21	-	
Total Dissolved Solids	mg/L	500 ^D	n/v	-	230	-	118	-	-	228	300	380	-	-	-	-	-	-	-	220	-	
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	130	-	130	-	-	-	-	-	-	-	-	240	-	-	-	240	-	
Total Organic Carbon	mg/L	n/v	n/v	-	4.3	-	4.2	-	-	2.7	4.2	2.1	-	-	-	-	-	0.88	-	0.91	-	
Total Suspended Solids	mg/L	n/v	n/v	-	250	-	42	-	-	3200	2100	5900	-	-	-	45	-	15	-	<10	-	
Turbidity, Lab	ntu	5 ^D	n/v	-	120 ^D	-	160 ^D	-	-	550 ^D	1100 ^D	3800 ^D	-	-	-	420 ^D	-	34 ^D	-	6.9 ^D	-	
BTEX and Petroleum Hydrocarbons																						
Benzene	µg/L	5 ^B	0.5 ^D 5 ^H	-	0.23	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
Toluene	µg/L	24 ^D	24 ^D 22 ^H	-	0.58	-	0.57	-	0.83	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
Xylene, m & p-	µg/L	300 ^D	300 ^D 300 ^H	-	0.44	-	0.41	-	0.70	0.23	0.24	<0.40	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
Xylene, o-	µg/L	300 ^D	300 ^D 300 ^H	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
Xylenes, Total	µg/L	300 ^D	72 ^D 300 ^H	-	0.44	-	0.41	-	0.70	0.23	0.24	<0.40	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-	
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^D 420 ^H	-	<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 ^D 150 ^H	-	<100	-	<100	-	<100	<100	<100	<100	<100	<100	-	<100	-	<100	-	<100	-	
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^D 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 nC50	none	n/v	n/v	-	YES	-	YES	-	YES	YES	YES	YES	-	-	-	-	-	YES	-	YES	-	

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW2-13-D					13-Dec-13	7-May-14	15-Aug-14	MW2-13-S								
					26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15				13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15
Sample ID					WG-160900764-20141126-RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A	WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	CLARS1213TWG-160960745-20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764-20141002-JK10	WG-160900764-20141120-CD02	WG-160900764-20141120-CD02A	WG-160900764-20141126-RD02	WG-160900764-20141126-RD02A	WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A	WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4M4069	B563828	B563828	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID					YP9570	ABZ562	ABZ563	BCZ972	BCZ973	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	BCZ970	BCZ971
Filtered					Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type																					
Metals																					
Aluminum	µg/L	100 ^F	n/v		9.0	12	-	8.1	-	< 5.0	-	< 5.0	7.3	-	< 5.0	< 5.0	< 5	-	< 5	-	
Antimony	µg/L	6 ^C	6 ^{GH}		< 0.50	0.54	-	< 0.5	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.5	-	< 0.5	-	
Arsenic	µg/L	25 ^C	25 ^{GH}		< 1.0	< 1	-	< 1	-	< 1.0	-	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1	-	< 1	-	
Barium	µg/L	1000 ^B	1000 ^{GH}		26	19	-	19	-	77	-	53	58	-	60	58	47	-	62	-	
Beryllium	µg/L	n/v	4 ^{GH}		< 0.50	< 0.5	-	< 0.5	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.5	-	< 0.5	-	
Boron	µg/L	5000 ^C	5000 ^{GH}		130	120	-	120	-	49	-	53	54	-	52	45	23	-	42	-	
Cadmium	µg/L	5 ^B	2.1 ^{GH}		< 0.10	< 0.1	-	< 0.1	-	< 0.10	-	< 0.10	< 0.10	-	< 0.10	< 0.10	< 0.1	-	< 0.1	-	
Calcium	µg/L	n/v	n/v		8700	8800	-	9000	-	48000	-	38000	37000	-	35000	34000	33000	-	34000	-	
Cesium	µg/L	n/v	n/v		-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}		-	< 0.5	-	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.5	-	< 0.50	-		
Chromium (Total)	µg/L	50 ^B	50 ^{GH}		< 5.0	< 5	-	< 5	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5	-	< 5	-	
Cobalt	µg/L	n/v	3.8 ^{GH}		< 0.50	< 0.5	-	< 0.5	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.5	-	< 0.5	-	
Copper	µg/L	1000 ^D	69 ^{GH}		< 1.0	< 1	-	< 1	-	< 1.0	-	< 1.0	< 1.0	-	1.7	< 1.0	< 1	-	< 1	-	
See notes on last page																					
Metals (Contd.)																					
Iron	µg/L	300 ^D	n/v		< 100	< 100	-	< 100	-	< 100	-	< 100	< 100	-	< 100	< 100	< 100	-	< 100	-	
Lead	µg/L	10 ^C	10 ^{GH}		< 0.50	< 0.5	-	< 0.5	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.5	-	< 0.5	-	
Magnesium	µg/L	n/v	n/v		4600	4100	-	5000	-	22000	-	24000	25000	-	26000	25000	25000	-	29000	-	
Manganese	µg/L	50 ^D	n/v		2.6	5.2	-	4	-	< 2.0	-	< 2.0	< 2.0	-	13	12	49	-	55 ^D	-	
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H		-	< 0.1	-	< 0.1	-	-	0.00011	< 0.10	< 0.1	-	-	-	< 0.1	-	< 0.1	-	
Molybdenum	µg/L	n/v	70 ^{GH}		3.7	7.5	-	6.8	-	20	-	4.8	4.5	-	3.5	3.4	2.5	-	2.8	-	
Nickel	µg/L	n/v	100 ^{GH}		< 1.0	< 1	-	< 1	-	< 1.0	-	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1	-	< 1	-	
Phosphorus	µg/L	n/v	n/v		< 100	< 100	-	< 100	-	< 100	-	< 100	< 100	-	< 100	< 100	< 100	-	< 100	-	
Potassium	µg/L	n/v	n/v		2100	2300	-	2200	-	5600	-	3000	3300	-	2900	2600	2300	-	2600	-	
Rubidium	µg/L	n/v	n/v		-	-	-	-	-	0.96	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	10 ^{GH}		< 2.0	< 2	-	< 2	-	< 2.0	-	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2	-	< 2	-	
Silicon	µg/L	n/v	n/v		4800	4400	-	4900	-	6200	-	7700	8200	-	7700	7600	6800	-	8600	-	
Silver	µg/L	n/v	1.2 ^{GH}		< 0.10	< 0.1	-	< 0.1	-	< 0.10	-	< 0.10	< 0.10	-	< 0.10	< 0.10	< 0.1	-	< 0.1	-	
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}		25000 ^F	27000 ^F	-	29000 ^F	-	17000	-	11000	12000	-	11000	10000	10000	-	11000	-	
Strontium	µg/L	n/v	n/v		240	210	-	240	-	400	-	460	500	-	520	510	470	-	570	-	
Thallium	µg/L	n/v	2 ^{GH}		< 0.050	< 0.05	-	< 0.05	-	< 0.050	-	< 0.050	< 0.050	-	< 0.050	< 0.050	< 0.05	-	< 0.05	-	
Titanium	µg/L	n/v	n/v		< 5.0	< 5	-	< 5	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5	-	< 5	-	
Uranium	µg/L	20 ^B	20 ^{GH}		< 0.10	< 0.1	-	< 0.1	-	1.4	-	1.2	1.0	-	0.74	0.76	0.6	-	0.57	-	
Vanadium	µg/L	n/v	6.2 ^{GH}		< 0.50	< 0.5	-	< 0.5	-	1.0	-	1.5	1.6	-	0.73	0.77	< 0.5	-	< 0.5	-	
Zinc	µg/L	5000 ^D	890 ^{GH}		< 5.0	< 5	-	< 5	-	< 5.0	-	< 5.0	10	-	5.6	< 5.0	< 5	-	< 5	-	
Zirconium	µg/L	n/v	n/v		< 1.0	< 1	-	< 1	-	< 1.0	-	-	< 1.0	-	< 1.0	< 1.0	< 1	-	< 1	-	
Polychlorinated Biphenyls																					
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	-	< 0.05	-	
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	-	< 0.05	-	
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	-	< 0.05	-	
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	-	< 0.05	-	
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H		-	< 0.05	-	< 0.05	-	-	< 0.05	< 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	MW2-13-D										MW2-13-S									
									26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15	13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15	7-Oct-15	7-Oct-15			
Units	ODWQS	Ontario SCS	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	CLARS1213TWG -160960745- 20131213-JK4	MW2-13-S	MW2-13-S	WG-160900764- 20141002-JK10	WG-160900764- 20141120-CD02	WG-160900764- 20141120-CD02A	WG-160900764- 20141126 RD02	WG-160900764- 20141126 RD02A	WG-160900764- 20150414-RD15	WG-160900764- 20150414-RD15A	WG-160900764- 20151007-RD15	WG-160900764- 20151007-RD15A								
Semi - Volatile Organic Compounds																												
Phthalates																												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	< 1	2	<1	1	<1	-	16 ^{GH}	4	5	12 ^{GH}	< 1	2	< 1	< 1	< 1	< 1	< 1								
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	0.2	<0.1	0.1	<0.1	<0.1	-	0.2	0.5	0.2	<0.1	0.3	0.3	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	< 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	< 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	< 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	< 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	< 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	< 0.01	< 0.01	< 0.01								
Benzo(b,j)fluoranthene	µg/L	n/v	0.1, 0.12 ^H	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.1	< 0.1	< 0.1								
Methylnaphthalene (Total)	µg/L	n/v	3.2, 3.3 ^H	< 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	< 0.28	< 0.28	< 0.28								
Methylnaphthalene, 1-	µg/L	n/v	3 ^{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	< 0.2	< 0.2	< 0.2								
Methylnaphthalene, 2-	µg/L	n/v	3 ^{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	< 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	< 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	< 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	0.08	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05								
See notes on last page																												
Semi - Volatile Organic Compounds (Contd.)																												
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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 2	< 2	< 2								
Dinitrotoluene, 2,4-	µg/L	n/v	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	< 0.3	< 0.3	< 0.3	< 0.3								
Dinitrotoluene, 2,6-	µg/L	n/v	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	< 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	< 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	< 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	< 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	< 0.2	< 0.2	< 0.2								
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	< 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	< 0.2	< 0.2	< 0.2								

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW2-13-D					13-Dec-13 CLARS1213TWG -160960745- 20131213-JK4	MW2-13-S										
					26-Nov-14	10-Apr-15	10-Apr-15	7-Oct-15	7-Oct-15		7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	14-Apr-15	14-Apr-15	7-Oct-15	7-Oct-15
Sample ID					WG-160900764- 20141126-RD01A	WG-160900764- 20150410-RD11	WG-160900764- 20150410-RD11A	WG-160900764- 20151007-RD16	WG-160900764- 20151007-RD16A		MW2-13-S	MW2-13-S	WG-160900764- 20141002-JK10	WG-160900764- 20141120-CD02	WG-160900764- 20141120-CD02A	WG-160900764- 20141126-RD02	WG-160900764- 20141126-RD02A	WG-160900764- 20150414-RD15	WG-160900764- 20150414-RD15A	WG-160900764- 20151007-RD15	WG-160900764- 20151007-RD15A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4M4069	B563828	B563828	B5K5143	B5K5143	B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID					YP9570	ABZ562	ABZ563	BCZ972	BCZ973	UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572	ACK475	ACK476	BCZ970	BCZ971
Filtered					Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type																					
Volatile Organic Compounds																					
Acetone	µg/L	n/v		2700 ^{GH}	-	<10	-	<10	-	-	<10	<10	<10	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v		16 ^{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	-
Bromoform (Tribromomethane)	µg/L	n/v		5 ^G 25 ^H	<1	<1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v		0.89 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B		0.2 ^G 0.79 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D		30 ^{GH}	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v		2 ^G 2.4 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v		25 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D		3 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v		59 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D		0.5 ^G 1 ^H	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v		590 ^{GH}	<1	<1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v		5 ^{GH}	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 ^C		0.5 ^G 1.6 ^H	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 ^B		0.5 ^G 1.6 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v		1.6 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v		1.6 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v		0.58 ^G 5 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v		0.5 ^G 1 ^H 0.5 ^G 1 ^H	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v		1 ^{GH}	<0.3	<0.3	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v		1 ^{GH}	<0.4	<0.4	<0.40	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	-	<0.4	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v		0.2 ^{GH}	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v		5 ^G 51 ^H	<1	<1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v		1800 ^{GH}	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v		640 ^{GH}	<5	<5	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	-	<5	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v		15 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 ^B		26 ^G 50 ^H	<2	<2	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v		5.4 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v		1.1 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v		0.5 ^G 1 ^H	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 ^B		0.5 ^G 1.6 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v		23 ^G 200 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v		0.5 ^G 4.7 ^H	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 ^B		0.5 ^G 1.6 ^H	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v		150 ^{GH}	<0.5	<0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.5	-	<0.50	-
Vinyl chloride	µg/L	2 ^B		0.5 ^{GH}	<0.2	<0.2	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	<0.2	-	<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	Units	ODWQS	Ontario SCS	MW3-13-D										MW3-13-S						
					8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14
Sample ID					MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885	B316734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M5208
Laboratory Sample ID					VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651	UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YQ4966
Filtered					Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Field Filtered Metals
Sample Type																					
General Chemistry																					
Acidity	mg/L	n/v	n/v		11	11	< 10	-	-	14	-	13	-	-	13	< 10	14	10	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v		150	150	160	170	-	170	-	170	-	210	200	220	220	230	-	-	260
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v		1.1	1.0	1.3	1.5	-	<1	-	<1.0	-	< 1.0	1.7	2.5	2.3	2.4	-	-	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v		150	150	160	170	-	170	-	170	-	210	200	220	220	230	-	-	260
Ammonia (as N)	mg/L	n/v	n/v		0.29	0.34	0.45	n/v	n/v	<0.05	-	<0.050	-	0.23	0.31	0.34	0.24	0.18	-	-	< 0.050
Anion Sum	meq/L	n/v	n/v		16.3	17.2	16.3	19.6	-	20.1	-	19.3	-	11.1	8.21	7.26	7.66	7.53	-	-	7.73
Cation Sum	meq/L	n/v	n/v		18.3	17.6	17.9	20.0	-	21.4	-	21.0	-	11.1	7.67	7.75	7.68	7.49	-	-	7.95
Chloride	mg/L	250 ^D	790 ^{GH}		23	21	22	28	-	23	-	24	-	32	22	19	18	16	-	-	16
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}		< 2	< 2	< 2	-	-	<2	-	<2	-	-	< 2	< 2	< 2	< 2	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v		5.2 ^D	3.0	2.6	-	-	2.0	-	1.6	-	4.1	2.9	1.6	1.2	1.3	-	-	3.6
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}		1600	1700	1600	1800	-	1900	-	1800	-	1100	760	700	720	710	-	-	700
Fluoride	mg/L	1.5 ^B	n/v		0.31	0.28	0.30	-	-	0.30	-	0.29	-	-	0.29	0.30	0.29	0.30	-	-	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v		510 ^E	510 ^E	510 ^E	580 ^E	-	640 ^E	-	600 ^E	-	470 ^E	310 ^E	330 ^E	330 ^E	320 ^E	-	-	360 ^E
Ion Balance	%	n/v	n/v		5.59	1.08	4.65	1.08	-	3.13	-	4.31	-	0.210	3.36	3.26	0.160	0.230	-	-	1.38
Langelier Index (at 20 C)	none	n/v	n/v		0.598	0.568	0.645	0.758	-	0.603	-	0.415	-	0.557	0.620	0.788	0.739	0.736	-	-	0.808
Langelier Index (at 4 C)	none	n/v	n/v		0.353	0.323	0.399	0.513	-	0.358	-	0.171	-	0.310	0.372	0.540	0.492	0.488	-	-	0.560
Nitrate (as N)	mg/L	10.0 ^B	n/v		< 0.10	< 0.10	< 0.10	0.97	-	0.97	-	0.65	-	5.56	1.35	3.95	2.90	4.03	-	-	5.42
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v		< 0.10	< 0.10	< 0.10	0.97	-	0.97	-	0.70	-	5.73	2.06	4.06	3.11	4.08	-	-	5.42
Nitrite (as N)	mg/L	1.0 ^B	n/v		< 0.010	0.019	< 0.010	< 0.010	-	<0.01	-	0.047	-	0.163	0.714	0.118	0.211	0.058	-	-	< 0.010
Orthophosphate(as P)	mg/L	n/v	n/v		< 0.010	< 0.010	< 0.010	< 0.010	-	<0.01	-	<0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010
pH	S.U.	6.5-8.5 ^E	n/v		7.91	7.88	7.93	7.97	-	7.77	-	7.61	-	7.68	7.97	8.10	8.05	8.05	-	-	7.96
Saturation pH (at 20 C)	none	n/v	n/v		7.31	7.31	7.29	7.21	-	7.17	-	7.19	-	7.13	7.35	7.31	7.32	7.31	-	-	7.15
Saturation pH (at 4 C)	none	n/v	n/v		7.56	7.56	7.53	7.45	-	7.41	-	7.44	-	7.37	7.60	7.56	7.56	7.56	-	-	7.40
Sulfate	mg/L	500 ^D	n/v		610 ^D	660 ^D	600 ^D	740 ^D	-	760 ^D	-	730 ^D	-	270	170	100	120	100	-	-	78
Total Dissolved Solids	mg/L	500 ^D	n/v		1140 ^D	1320 ^D	1270 ^D	-	-	1490 ^D	-	1410 ^D	-	-	478	472	502 ^D	526 ^D	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v		-	-	-	1300 ^D	-	1300 ^D	-	1300 ^D	-	-	-	-	-	-	-	-	430
Total Organic Carbon	mg/L	n/v	n/v		22	7.0	3.4	-	-	2.8	-	2.0	-	-	3.9	5.2	3.8	2.1	-	-	-
Total Suspended Solids	mg/L	n/v	n/v		5200	5400	980	40	-	200	-	36	-	-	2200	690	770	640	87	-	< 10
Turbidity, Lab	ntu	5.0 ^E	n/v		1300 ^D	100 ^D	610 ^D	22 ^D	-	45 ^D	-	23 ^D	-	-	110 ^D	160 ^D	310 ^D	92 ^D	82 ^D	-	1.9
BTEX and Petroleum Hydrocarbons																					
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H		< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	< 0.20	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20
Toluene	µg/L	24 ^D	24 ^G 22 ^H		0.27	< 0.20	< 0.20	< 0.20	-	<0.2	-	< 0.20	-	0.87	< 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	-	<0.2	-	< 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	300 ^{GH}		0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	< 0.40	-	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Xylene, o-	µg/L	300 ^D	300 ^{GH}		< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	< 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 ^G 300 ^H		0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	< 0.40	-	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H		< 25	< 25	< 25	-	-	<25	-	<25	-	< 25	< 25	< 25	< 25	< 25	< 25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H		< 25	< 25	< 25	-	-	<25	-	<25	-	< 25	< 25	< 25	< 25	< 25	< 25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H		< 100	< 100	< 100	-	-	<100	-	<100	-	< 100	< 100	< 100	< 100	< 100	< 100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H		< 200	< 200	< 200	-	-	<200	-	<200	-	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H		< 200	< 200	< 200	-	-	<200	-	<200	-	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Chromatogram to baseline at nC50	none	n/v	n/v		YES	YES	YES	-	-	YES	-	YES	-	YES	YES	YES	YES	YES	-	-	-

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

Sample Location Sample Date	Units	ODWQS	Ontario SCS	MW3-13-D										MW3-13-S							
				8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	
Sample ID				MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885	B316734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M5208
Laboratory Sample ID				VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651	UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YO3441	YQ4966
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered	Field Filtered Metals
Sample Type																					
Metals																					
Aluminum	µg/L	100 ^F	n/v	18	8.1	7.5	< 5	< 5	< 5	-	< 5	-	< 5.0	7.7	5.5	6.1	7.8	-	-	-	< 5.0
Antimony	µg/L	6 ^C	6 ^{GH}	< 0.50	< 0.50	0.58	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	0.91	-	-	-	< 0.50
Arsenic	µg/L	25 ^C	25 ^{GH}	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	-	< 1	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	< 1.0
Barium	µg/L	1000 ^B	1000 ^{GH}	33	27	31	35	37	24	-	25	-	72	55	51	54	56	-	-	-	74
Beryllium	µg/L	n/v	4 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-	< 0.50
Boron	µg/L	5000 ^C	5000 ^{GH}	430	370	380	390	420	350	-	310	-	110	130	82	110	98	-	-	-	39
Cadmium	µg/L	5 ^B	2.1 ^{GH}	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	-	-	< 0.10
Calcium	µg/L	n/v	n/v	120000	130000	120000	140000	150000	160000	-	150000	-	110000	66000	65000	65000	63000	-	-	-	77000
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	< 0.50	< 0.50	< 0.50	-	-	< 0.5	-	< 0.50	-	< 0.50	< 1.0	< 0.50	< 2.5	< 0.50	-	-	-	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	-	< 5	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0
Cobalt	µg/L	n/v	3.8 ^{GH}	< 0.50	0.84	0.54	< 0.5	< 0.5	< 0.5	-	< 0.5	-	0.83	0.55	< 0.50	< 0.50	< 0.50	-	-	-	< 0.50
Copper	µg/L	1000 ^D	69 ^{GH}	1.2	< 1.0	< 1.0	3.4	2.4	1.3	-	1.1	-	1.1	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	1.8
See notes on last page																					
Metals (Contd.)																					
Iron	µg/L	300 ^D	n/v	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100	< 100	< 100	< 100	-	-	-	< 100
Lead	µg/L	10 ^C	10 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-	< 0.50
Magnesium	µg/L	n/v	n/v	48000	47000	50000	58000	64000	59000	-	55000	-	45000	36000	41000	40000	40000	-	-	-	40000
Manganese	µg/L	50 ^D	n/v	23	74 ^D	37	18	19	22	-	18	-	57 ^D	30	19	14	7.6	-	-	-	6.3
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	-	< 0.10	< 0.1	-	-	< 0.1	-	< 0.1	-	-	0.00015	< 0.10	< 0.10	< 0.1	-	-	-	-
Molybdenum	µg/L	n/v	70 ^{GH}	81 ^{GH}	51	58	74 ^{GH}	78 ^{GH}	67	-	56	-	19	23	16	18	14	-	-	-	3.7
Nickel	µg/L	n/v	100 ^{GH}	3.2	1.6	2.1	1.7	2.1	1.8	-	1.5	-	1.5	1.5	< 1.0	< 1.0	1.6	-	-	-	1.9
Phosphorus	µg/L	n/v	n/v	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100	< 100	< 100	< 100	-	-	-	< 100
Potassium	µg/L	n/v	n/v	17000	9500	9400	10000	11000	9800	-	7500	-	18000	10000	7600	7600	6900	-	-	-	4700
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	8.5	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	-	< 2	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-	-	< 2.0
Silicon	µg/L	n/v	n/v	4700	4500	4500	5000	5300	4700	-	4300	-	5200	4900	5900	6000	6200	-	-	-	7800
Silver	µg/L	n/v	1.2 ^{GH}	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.10	< 0.10	0.20	< 0.10	< 0.10	-	-	-	< 0.10
Sodium	µg/L	200000 ^D 200000 ^F	490000 ^{GH}	180000 ^F	160000 ^F	170000 ^F	190000 ^F	210000 ^{DF}	190000 ^F	-	200000 ^F	-	28000 ^F	26000 ^F	20000	22000 ^F	20000	-	-	-	16000
Strontium	µg/L	n/v	n/v	1500	1600	1900	2200	2400	2200	-	2200	-	900	750	810	820	850	-	-	-	620
Thallium	µg/L	n/v	2 ^{GH}	0.11	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05	-	< 0.05	-	0.060	< 0.050	< 0.050	< 0.050	< 0.050	-	-	-	< 0.050
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	-	< 5	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-	< 5.0
Uranium	µg/L	20 ^B	20 ^{GH}	7.5	6.1	7.0	5.8	6.4	7.3	-	6	-	6.0	6.1	4.1	4.6	4.6	-	-	-	3.6
Vanadium	µg/L	n/v	6.2 ^{GH}	0.74	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	0.82	< 0.50	0.69	0.63	0.77	-	-	-	0.60
Zinc	µg/L	5000 ^D	890 ^{GH}	< 5.0	21	17	18	8.5	< 5	-	< 5	-	< 5.0	15	< 5.0	< 5.0	< 5.0	-	-	-	7.5
Zirconium	µg/L	n/v	n/v	< 1.0	-	< 1.0	< 1	< 1	< 1	-	< 1	-	< 1.0	-	< 1.0	-	< 1.0	-	-	-	< 1.0
Polychlorinated Biphenyls																					
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-	< 0.05	-	-	< 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	Units	ODWQS	Ontario SCS	MW3-13-D										MW3-13-S							
					8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	
Sample ID					MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885	B316734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M5208
Laboratory Sample ID					VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651	UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YO3441	YQ4966
Filtered					Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered	Field Filtered Metals
Sample Type																						
Semi - Volatile Organic Compounds																						
Phthalates																						
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	-	16 ^{GH}	41 ^{GH}	3	<1	2	<1	1	<1	-	11 ^{GH}	3	2	4	2	<1	5		
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	-	<0.5	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.6	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	n/v	4.1 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Anthracene	µg/L	n/v	1 ^{GH}	-	<0.3	<0.2	<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	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	-	<0.3	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.13	0.08	<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}	-	0.08 ^{BGH}	0.16 ^{BGH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.08 ^{BGH}	0.05 ^{BGH}	<0.01	0.04 ^{BGH}	0.02 ^{BGH}	<0.01	<0.01	0.02 ^{BGH}	0.02 ^{BGH}
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH} 0.1 ^{GH}	-	<0.3	0.3 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.13 ^{GH}	0.07	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2 ^{GH}	-	<0.3	<0.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.1	<0.1 MI	<0.05	<0.1 MI	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	-	<0.3	<0.2	<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	<0.05	<0.05
Chrysene	µg/L	n/v	0.1 ^{GH}	-	<0.3	0.3 ^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.12 ^{GH}	0.08	<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}	-	<0.5	<0.4	<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	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Fluorene	µg/L	n/v	120 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2 ^{GH} 3.2 ^{GH}	-	<1.4	<1.1	<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	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	3 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	3 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	-	<1	<0.8	<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	<0.2	<0.2
Phenanthrene	µg/L	n/v	1 ^{GH}	-	<0.5	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1 ^{GH}	-	0.5	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.26	0.15	0.20	0.13	<0.05	<0.05	<0.05	<0.05	<0.05
See notes on last page																						
Semi - Volatile Organic Compounds (Contd.)																						
Remaining Semi - Volatile Organic Compounds																						
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5 ^{GH}	-	<3	<2	<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	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120 ^{GH}	-	<3	<2	<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	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	-	<5	<4	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5 ^{GH}	-	<3	<2	<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	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ^B 0.3 ^D	20 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59 ^{GH}	-	<3	<2	<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	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	-	<10	<8	<2	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5 ^{GH} 5 ^{GH}	-	<1	<1	<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	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5 ^{GH} 5 ^{GH}	-	<1	<1	<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	<0.3	<0.3
Pentachlorophenol	µg/L	60 ^B 30 ^D	30 ^{GH}	-	<0.5	<0.4	<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	<0.1	<0.1
Phenol	µg/L	n/v	890 ^{GH}	-	<3	<2	<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	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^{GH} 70 ^H	-	<0.5	<0.4	<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	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9 ^{GH}	-	<1	<0.8	<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	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	-	<1	<0.8	<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	<0.2	<0.2

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

Sample Location Sample Date	Units	ODWQS	Ontario SCS	MW3-13-D										MW3-13-S								
				8-May-14	14-Aug-14	1-Oct-14	22-Dec-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14		
Sample ID				MW3-13-D	MW3-13-D	WG-160900764-20141001-JK2	WG-160900764-20141222-MF03	WG-160900764-20141222-MF03A	WG-160900764-20150408-RD02	WG-160900764-20150408-RD02A	WG-160900764-20151005-RD02	WG-160900764-20151005-RD02A	CLARS1213TWG-160960745-20131213-JK6	MW3-13-S	MW3-13-S	MW3-13-S	MW3-13-S	WG-160900764-20141001-JK1	WG-160900764-20141120-CD01	WG-160900764-20141120-CD01A	WG-160900764-20141127-RD09	
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order				B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885	B316734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M5208	
Laboratory Sample ID				VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651	UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YO3441	YQ4966	
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered	Field Filtered Metals	
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	n/v	2700 ^{GH}	< 10	< 10	< 10	< 10	-	<10	-	<10	-	-	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	
Bromodichloromethane	µg/L	n/v	16 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Bromoform (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-	<1.0	-	-	< 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	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^G 0.79 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 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	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Chloroform (Trichloromethane)	µg/L	n/v	2 ^G 2.4 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 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	-	<0.5	-	<0.50	-	-	< 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	-	<0.5	-	<0.50	-	-	< 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	-	<0.5	-	<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	0.5 ^G 1 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 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	-	<1.0	-	-	< 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	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^G 1.6 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^G 5 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<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	0.5 ^G 0.5 ^H 1 ^I	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 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	-	<0.3	-	<0.30	-	-	< 0.30	< 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	-	<0.4	-	<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	0.2 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Hexane (n-Hexane)	µg/L	n/v	5 ^G 51 ^H	< 1.0	< 1.0	< 1.0	< 1.0	-	<1	-	<1.0	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	< 10	< 10	< 10	< 10	-	<10	-	<10	-	-	< 10	< 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	-	<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	15 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	< 2.0	< 2.0	< 2.0	< 2.0	-	<2	-	<2.0	-	-	< 2.0	< 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	-	<0.5	-	<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	1.1 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<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	0.5 ^G 1 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^G 200 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	-	< 0.20	
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^G 4.7 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 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	-	<0.5	-	<0.50	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	-	<0.2	-	<0.20	-	-	< 0.20	< 0.20	< 0.20	< 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	Units	ODWQS	Ontario SCS	MW3-13-S						MW4-13-D					MW4-13-S				
					27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14
Sample ID	WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP				
Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC			
Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX			
Laboratory Work Order	B4M5208	B4O2436	B561683	B561683	B5K2885	B5K2885	B443695	B476124	B414645	B4O2426	B4O2426	B3L6734	B475182	B475182	B4E7727	B4E7727				
Laboratory Sample ID	YQ4967	YY7680	ABP943	ABP944	BCN647	BCN648	VG2317	VV5729	XV9681	YY7641	YY7642	UH4007	VV0855	VV0856	XD5199	XD5200				
Filtered	Lab Filtered	-	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals				
Sample Type														Field Duplicate		Field Duplicate				
General Chemistry																				
Acidity	mg/L	n/v	n/v	-	-	14	-	16	-	< 10	< 10	< 20	-	-	-	75	86	11	131	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	-	230	n/v	230	-	120	110	130	150	-	240	230	230	340	320	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	-	1.9	-	1.4	-	1.2	1.1	1.1	1.9	-	1.1	1.8	2.0	1.7	2.2	
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	-	-	230	-	230	-	130	110	130	150	-	240	230	240	340	320	
Ammonia (as N)	mg/L	n/v	n/v	-	-	<0.05	-	<0.050	-	0.59	0.42	0.25	-	-	0.18	0.11	0.17	0.062	< 0.050	
Anion Sum	meq/L	n/v	n/v	-	-	7.62	-	7.21	-	5.67	5.63	7.97	9.52	-	5.85	5.39	5.57	7.22	6.97	
Cation Sum	meq/L	n/v	n/v	-	-	7.88	-	7.61	-	5.09	5.84	7.92	9.84	-	5.94	42.8	43.6	7.80	6.66	
Chloride	mg/L	250 ^D	790 ^{GH}	-	-	16	-	15	-	23	23	19	16	-	8	6	6	3	4	
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	-	-	<2	-	<2	-	<2	<2	<2	-	-	<2	<2	<2	<2	<2	
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	-	-	1.8	-	0.89	-	2.7	2.4	2.5	-	-	1.6	1.9	2.0	1.9	1.9	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	-	-	720	-	680	-	540	580	790	920	-	560	500	500	650	610	
Fluoride	mg/L	1.5 ^B	n/v	-	-	0.29	-	0.30	-	0.75	0.70	0.56	-	-	-	0.14	0.14	0.11	0.15	
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	-	-	350 ^E	-	330 ^E	-	120 ^E	130 ^E	200 ^E	280 ^E	-	280 ^E	2000 ^E	2100 ^E	380 ^E	320 ^E	
Ion Balance	%	n/v	n/v	-	-	1.68	-	2.69	-	5.39	1.78	0.320	1.66	-	0.760	77.6	77.3	3.85	2.24	
Langelier Index (at 20 C)	none	n/v	n/v	-	-	0.703	-	0.537	-	0.134	0.160	0.274	0.643	-	0.601	1.74	1.80	0.916	0.918	
Langelier Index (at 4 C)	none	n/v	n/v	-	-	0.454	-	0.288	-	-0.115	-0.0890	0.0260	0.396	-	0.352	1.49	1.55	0.667	0.670	
Nitrate (as N)	mg/L	10.0 ^B	n/v	-	-	3.59	-	2.13	-	< 0.10	0.28	0.34	< 0.10	-	4.81	3.84	3.84	0.29	0.27	
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	-	-	3.63	-	2.25	-	< 0.10	0.29	0.34	< 0.10	-	4.94	3.86	3.86	0.30	0.29	
Nitrite (as N)	mg/L	1.0 ^B	n/v	-	-	0.035	-	0.124	-	< 0.010	0.017	< 0.010	0.011	-	0.123	0.018	0.019	0.010	0.018	
Orthophosphate (as P)	mg/L	n/v	n/v	-	-	<0.01	-	<0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
pH	S.U.	6.5-8.5 ^E	n/v	-	-	7.93	-	7.81	-	8.00	8.02	7.96	8.12	-	7.69	7.94	7.95	7.73	7.86	
Saturation pH (at 20 C)	none	n/v	n/v	-	-	7.23	-	7.27	-	7.87	7.86	7.68	7.47	-	7.09	6.20	6.15	6.81	6.94	
Saturation pH (at 4 C)	none	n/v	n/v	-	-	7.48	-	7.52	-	8.12	8.11	7.93	7.72	-	7.34	6.45	6.40	7.06	7.19	
Sulfate	mg/L	500 ^D	n/v	-	-	110	-	99	-	120	130	230	290	-	26	17	18	16	19	
Total Dissolved Solids	mg/L	500 ^D	n/v	-	-	442	-	436	-	370	346	616 ^D	-	-	368	286	416	440	440	
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	-	430	-	410	-	-	-	600 ^D	-	-	-	-	-	-	-	
Total Organic Carbon	mg/L	n/v	n/v	-	-	2.0	-	0.87	-	7.1	10	34	-	-	-	4.5	6.3	6.1	8.6	
Total Suspended Solids	mg/L	n/v	n/v	-	-	<10	-	<10	-	29000	7100	26000	870	-	-	4300	5900	680	1600	
Turbidity, Lab	ntu	5 ^D	n/v	-	-	3.4	-	2.6	-	220 ^D	1900 ^D	34000 ^D	840 ^D	-	-	770 ^D	670 ^D	440 ^D	580 ^D	
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H	-	-	<0.2	-	< 0.20	-	0.22	< 0.20	< 0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Toluene	µg/L	24 ^D	24 ^G 22 ^H	-	-	<0.2	-	< 0.20	-	0.45	< 0.20	< 0.20	-	-	0.85	< 0.20	< 0.20	< 0.20	< 0.20	
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	-	-	<0.2	-	< 0.20	-	0.26	< 0.20	0.20	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Xylene, m & p-	µg/L	300 ^D	300 ^{GH}	-	-	<0.2	-	< 0.40	-	0.70	< 0.20	0.68	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Xylene, o-	µg/L	300 ^D	300 ^{GH}	-	-	<0.2	-	< 0.20	-	0.31	< 0.20	0.27	-	-	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	-	-	<0.2	-	< 0.40	-	1.0	< 0.20	0.95	-	-	0.77	< 0.20	< 0.20	< 0.20	< 0.20	
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	-	-	<25	-	<25	-	< 25	< 25	< 25	-	-	< 25	< 25	< 25	< 25	< 25	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	-	-	<25	-	<25	-	< 25	< 25	< 25	-	-	< 25	< 25	< 25	< 25	< 25	
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	-	-	<100	-	<100	-	< 100	< 100	< 100	-	-	< 100	< 100	< 100	< 100	< 100	
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	-	-	<200	-	<200	-	< 200	< 200	< 200	-	-	< 200	< 200	< 200	< 200	< 200	
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	-	-	<200	-	<200	-	< 200	< 200	< 200	-	-	< 200	< 200	< 200	< 200	< 200	
Chromatogram to baseline at nC50	none	n/v	n/v	-	-	YES	-	YES	-	YES	YES	YES	-	-	YES	YES	YES	YES	YES	

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW3-13-S						MW4-13-D					MW4-13-S					
					27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	
Sample ID					WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B4M5208	B4O2436	B561683	B561683	B5K2885	B5K2885	B443695	B476124	B414645	B4O2426	B4O2426	B3L6734	B475182	B475182	B4E7727	B4E7727	
Laboratory Sample ID					YQ4967	YY7680	ABP943	ABP944	BCN647	BCN648	VG2317	VV5729	XV9681	YY7641	YY7642	UH4007	VV0855	VV0856	XD5199	XD5200	
Filtered					Lab Filtered	-	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Field Duplicate	Lab Filtered Metals	Lab Filtered Metals	
Sample Type																					
Metals																					
Aluminum	µg/L	100 ^F	n/v	5.4	-	<5	-	<5	-	13	15	16	-	10	< 5.0	-	-	-	11	5.0	
Antimony	µg/L	6 ^C	6 ^{GH}	< 0.50	-	<0.5	-	<0.5	-	< 0.50	< 0.50	0.93	-	< 0.5	< 0.50	-	-	-	< 0.50	< 0.50	
Arsenic	µg/L	25 ^C	25 ^{GH}	< 1.0	-	<1	-	<1	-	< 1.0	< 1.0	< 1.0	-	< 1	< 1.0	-	-	-	< 1.0	< 1.0	
Barium	µg/L	1000 ^B	1000 ^{GH}	89	-	54	-	57	-	61	57	99	-	81	48	-	-	-	81	84	
Beryllium	µg/L	n/v	4 ^{GH}	< 0.50	-	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5	< 0.50	-	-	-	< 0.50	< 0.50	
Boron	µg/L	5000 ^C	5000 ^{GH}	42	-	60	-	69	-	330	340	440	-	510	29	-	-	-	29	36	
Cadmium	µg/L	5 ^B	2.1 ^{GH}	< 0.10	-	<0.1	-	<0.1	-	< 0.10	< 0.10	< 0.10	-	< 0.1	< 0.10	-	-	-	< 0.10	< 0.10	
Calcium	µg/L	n/v	n/v	78000	-	72000	-	67000	-	30000	34000	49000	-	67000	91000	-	-	-	130000	100000	
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 0.20	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	-	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	< 5.0	-	<5	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5	< 5.0	-	-	-	< 5.0	< 5.0	
Cobalt	µg/L	n/v	3.8 ^{GH}	< 0.50	-	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5	< 0.50	-	-	-	< 0.50	< 0.50	
Copper	µg/L	1000 ^D	69 ^{GH}	< 1.0	-	<1	-	<1	-	< 1.0	< 1.0	1.1	-	< 1	< 1.0	-	-	-	1.1	< 1.0	
See notes on last page																					
Metals (Contd.)																					
Iron	µg/L	300 ^D	n/v	< 100	-	<100	-	<100	-	< 100	< 100	< 100	-	< 100	< 100	-	-	-	< 100	< 100	
Lead	µg/L	10 ^C	10 ^{GH}	< 0.50	-	<0.5	-	<0.5	-	< 0.50	< 0.50	< 0.50	-	< 0.5	< 0.50	-	-	-	< 0.50	< 0.50	
Magnesium	µg/L	n/v	n/v	41000	-	41000	-	39000	-	11000	11000	20000	-	27000	12000	-	-	-	14000	15000	
Manganese	µg/L	50 ^D	n/v	5.8	-	11	-	15	-	14	12	4.2	-	5.3	< 2.0	-	-	-	2.2	< 2.0	
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	-	-	<0.1	-	<0.1	-	< 1.5 DB	< 0.10	-	-	-	-	0.00012	0.00013	< 0.10	< 0.10		
Molybdenum	µg/L	n/v	70 ^{GH}	4.1	-	7.6	-	8.9	-	72 ^{GH}	76 ^{GH}	83 ^{GH}	-	81 ^{GH}	1.9	-	-	-	< 0.50	< 0.50	
Nickel	µg/L	n/v	100 ^{GH}	< 1.0	-	<1	-	<1	-	1.2	1.0	1.4	-	< 1	< 1.0	-	-	-	< 1.0	< 1.0	
Phosphorus	µg/L	n/v	n/v	< 100	-	<100	-	<100	-	< 100	< 100	< 100	-	< 100	< 100	-	-	-	< 100	< 100	
Potassium	µg/L	n/v	n/v	4900	-	5700	-	5700	-	8300	7400	8200	-	7700	1800	-	-	-	1100	1200	
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-	-	
Selenium	µg/L	10 ^B	10 ^{GH}	< 2.0	-	<2	-	<2	-	< 2.0	< 2.0	< 2.0	-	< 2	< 2.0	-	-	-	< 2.0	< 2.0	
Silicon	µg/L	n/v	n/v	8000	-	6000	-	6000	-	3300	3700	3000	-	3900	4900	-	-	-	5700	6800	
Silver	µg/L	n/v	1.2 ^{GH}	< 0.10	-	<0.1	-	<0.1	-	< 0.10	< 0.10	< 0.10	-	< 0.1	< 0.10	-	-	-	< 0.10	< 0.10	
Sodium	µg/L	200000 ^D 200000 ^F	490000 ^{GH}	15000	-	18000	-	22000 ^F	-	57000 ^F	68000 ^F	83000 ^F	-	94000 ^F	7600	-	-	-	5100	6800	
Strontium	µg/L	n/v	n/v	650	-	780	-	740	-	440	520	870	-	1200	310	-	-	-	420	460	
Thallium	µg/L	n/v	2 ^{GH}	< 0.050	-	<0.05	-	<0.05	-	< 0.050	< 0.050	< 0.050	-	< 0.05	< 0.050	-	-	-	< 0.050	< 0.050	
Titanium	µg/L	n/v	n/v	< 5.0	-	<5	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5	< 5.0	-	-	-	< 5.0	< 5.0	
Uranium	µg/L	20 ^B	20 ^{GH}	3.8	-	4	-	3.7	-	2.3	1.2	4.2	-	2.6	1.2	-	-	-	0.59	0.51	
Vanadium	µg/L	n/v	6.2 ^{GH}	0.62	-	0.52	-	0.67	-	< 0.50	0.55	0.76	-	0.56	0.55	-	-	-	< 0.50	< 0.50	
Zinc	µg/L	5000 ^D	890 ^{GH}	< 5.0	-	<5	-	<5	-	< 5.0	< 5.0	< 5.0	-	< 5	< 5.0	-	-	-	< 5.0	< 5.0	
Zirconium	µg/L	n/v	n/v	< 1.0	-	<1	-	<1	-	-	< 1.0	< 1.0	-	< 1	< 1.0	-	-	-	-	-	
Polychlorinated Biphenyls																					
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	<0.05	-	<0.05	-	< 0.05	< 0.5	< 0.5	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	<0.05	-	<0.05	-	< 0.05	< 0.5	< 0.5	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	<0.05	-	<0.05	-	< 0.05	< 0.5	< 0.5	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	<0.05	-	<0.05	-	< 0.05	< 0.5	< 0.5	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	<0.05	-	<0.05	-	< 0.05	< 0.5	< 0.5	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	

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Hydro One Networks Inc.

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW3-13-S						MW4-13-D					MW4-13-S				
					27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14
Sample ID	WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP				
Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC				
Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX				
Laboratory Work Order	B4M5208	B4O2436	B561683	B561683	B5K2885	B5K2885	B443695	B476124	B414645	B4O2426	B4O2426	B3L6734	B475182	B475182	B4E7727	B4E7727				
Laboratory Sample ID	YQ4967	YY7680	ABP943	ABP944	BCN647	BCN648	VG2317	VV5729	XV9681	YY7641	YY7642	UH4007	VV0855	VV0856	XD5199	XD5200				
Filtered	Lab Filtered	-	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals				
Sample Type																				
Semi - Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	< 1	-	<1	<1	<1	<1	18 ^{GH}	33 ^{GH}	36 ^{GH}	9	< 1	-	2	2	< 1	< 1	
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	< 0.1	-	<0.1	<0.1	<0.1	<0.1	0.6	0.1	< 0.5	< 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	< 0.5	< 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	< 0.02	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Acenaphthylene	µg/L	n/v	1 ^{GH}	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Anthracene	µg/L	n/v	1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	0.10	0.08	< 0.3	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/L	n/v	1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	0.16	0.17	< 0.3	< 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	< 0.02	<0.01	<0.01	<0.01	<0.01	0.06 ^{GH}	0.07 ^{GH}	< 0.05	< 0.01	< 0.01	-	0.02 ^{GH}	0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/L	n/v	0.1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	0.19 ^{GH}	0.18 ^{GH}	< 0.3	< 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	< 0.02	<0.05	<0.05	<0.05	<0.05	< 0.1 MI	< 0.1	< 0.3	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(k)fluoranthene	µg/L	n/v	0.1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.3	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	
Chrysene	µg/L	n/v	0.1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	0.22 ^{GH}	0.19 ^{GH}	< 0.3	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenz(a,h)anthracene	µg/L	n/v	0.2 ^{GH}	< 0.1	< 0.02	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	
Fluoranthene	µg/L	n/v	0.41 ^{GH}	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	1.4 ^{GH}	1.4 ^{GH}	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Fluorene	µg/L	n/v	120 ^{GH}	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 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	< 0.02	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	
Methylnaphthalene (Total)	µg/L	n/v	3.2,3,3 ^H	< 0.28	-	<0.28	<0.28	<0.28	<0.28	< 0.28	< 0.28	< 1.4	< 0.28	< 0.28	-	< 0.28	< 0.28	< 0.28	< 0.28	
Methylnaphthalene, 1-	µg/L	n/v	3 ^{GH}	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Methylnaphthalene, 2-	µg/L	n/v	3 ^{GH}	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	0.2	0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Naphthalene	µg/L	n/v	7 ^{GH} 11 ^H	< 0.2	< 0.02	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Phenanthrene	µg/L	n/v	1 ^{GH}	< 0.1	< 0.02	<0.1	<0.1	<0.1	<0.1	1.1 ^{GH}	1.2 ^{GH}	< 0.5	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	
Pyrene	µg/L	n/v	4.1 ^{GH}	< 0.05	< 0.02	<0.05	<0.05	<0.05	<0.05	1.8	2.0	1.0	< 0.05	< 0.05	-	0.09	0.08	< 0.05	< 0.05	
See notes on last page																				
Semi - Volatile Organic Compounds (Contd.)																				
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	< 0.5	< 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	< 3	< 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	< 3	< 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	< 5	< 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	< 0.5	< 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	< 3	< 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	< 0.5	< 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	< 3	< 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	< 10	< 2	< 2	-	< 2	< 2	< 2	< 2	
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^G 5.13 ^H	< 0.3	-	<0.3	<0.3	<0.3	<0.3	< 0.3	< 0.3	< 1	< 0.3	< 0.3	-	< 0.3	< 0.3	< 0.3	< 0.3	
Dinitrotoluene, 2,6-	µg/L	n/v	5.13 ^G 5.13 ^H	< 0.3	-	<0.3	<0.3	<0.3	<0.3	< 0.3	< 0.3	< 1	< 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	< 0.5	< 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	< 3	< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.5	
Trichlorobenzene, 1,2,4-	µg/L	n/v	3 ^G 70 ^H	< 0.1	-	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.5	< 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	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	< 0.2	-	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 1	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW3-13-S						MW4-13-D				MW4-13-S						
					27-Nov-14	22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	
Sample ID					WG-160900764-20141127-RD09A	WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B4M5208	B4O2436	B561683	B561683	B5K2885	B5K2885	B443695	B476124	B414645	B4O2426	B4O2426	B3L6734	B475182	B475182	B4E7727	B4E7727	
Laboratory Sample ID					YQ4967	YY7680	ABP943	ABP944	BCN647	BCN648	VG2317	VV5729	XV9681	YY7641	YY7642	UH4007	VV0855	VV0856	XD5199	XD5200	
Filtered					Lab Filtered	-	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	
Sample Type																		Field Duplicate		Field Duplicate	
Volatile Organic Compounds																					
Acetone	µg/L	n/v		2700 ^{GH}	-	-	<10	-	<10	-	<10	<10	<10	-	-	-	<10	<10	<10	<10	
Bromodichloromethane	µg/L	n/v		16 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Bromoform (Tribromomethane)	µg/L	n/v		5 ^G 25 ^H	-	-	<1	-	<1.0	-	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	
Bromomethane (Methyl bromide)	µg/L	n/v		0.89 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B		0.2 ^G 0.79 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D		30 ^{GH}	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Chloroform (Trichloromethane)	µg/L	n/v		2 ^G 2.4 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Dibromochloromethane	µg/L	n/v		25 ^{GH}	-	-	<0.5	-	<0.50	-	<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}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichlorobenzene, 1,3-	µg/L	n/v		59 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F ^D		0.5 ^G 1 ^H	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichlorodifluoromethane (Freon 12)	µg/L	n/v		590 ^{GH}	-	-	<1	-	<1.0	-	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	
Dichloroethane, 1,1-	µg/L	n/v		5 ^{GH}	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Dichloroethane, 1,2-	µg/L	5 ^C		0.5 ^G 1.6 ^H	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichloroethene, 1,1-	µg/L	14 ^B		0.5 ^G 1.6 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Dichloroethene, cis-1,2-	µg/L	n/v		1.6 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichloroethene, trans-1,2-	µg/L	n/v		1.6 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichloropropane, 1,2-	µg/L	n/v		0.58 ^G 5 ^H	-	-	<0.2	-	<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		0.5 ^G 0.5 ^H 1 ^I	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Dichloropropene, cis-1,3-	µg/L	n/v		1 ^{GH}	-	-	<0.3	-	<0.30	-	<0.30	<0.30	<0.30	-	-	-	<0.30	<0.30	<0.30	<0.30	
Dichloropropene, trans-1,3-	µg/L	n/v		1 ^{GH}	-	-	<0.4	-	<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		0.2 ^{GH}	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Hexane (n-Hexane)	µg/L	n/v		5 ^G 51 ^H	-	-	<1	-	<1.0	-	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	<1.0	<1.0	
Methyl Ethyl Ketone (MEK)	µg/L	n/v		1800 ^{GH}	-	-	<10	-	<10	-	<10	<10	<10	-	-	-	<10	<10	<10	<10	
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v		640 ^{GH}	-	-	<5	-	<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		15 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B		26 ^G 50 ^H	-	-	<2	-	<2.0	-	<2.0	<2.0	<2.0	-	-	-	<2.0	<2.0	<2.0	<2.0	
Styrene	µg/L	n/v		5.4 ^{GH}	-	-	<0.5	-	<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		1.1 ^{GH}	-	-	<0.5	-	<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		0.5 ^G 1 ^H	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Tetrachloroethene (PCE)	µg/L	30 ^B		0.5 ^G 1.6 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Trichloroethane, 1,1,1-	µg/L	n/v		23 ^G 200 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Trichloroethane, 1,1,2-	µg/L	n/v		0.5 ^G 4.7 ^H	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Trichloroethene (TCE)	µg/L	5 ^B		0.5 ^G 1.6 ^H	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<0.20	<0.20	<0.20	<0.20	
Trichlorofluoromethane (Freon 11)	µg/L	n/v		150 ^{GH}	-	-	<0.5	-	<0.50	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	
Vinyl chloride	µg/L	2 ^B		0.5 ^{GH}	-	-	<0.2	-	<0.20	-	<0.20	<0.20	<0.20	-	-	-	<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	Units	ODWQS	Ontario SCS	MW4-13-S								MW4-15D				MW5-14-D						
					1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID					WG-160900764-20141001-JK6	WG-160900764-20141001-JK7	WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B414645	B414645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	MAXX	B5K2885	B5K2885	B561683	B561683	B5K2885	B5K2885	B520805	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID					XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	B590648	BCN652	BCN653	ABP939	ABP940	BCN654	BCN655	ZK6639	ABU949	ABU950	BCP426	BCP427
Filtered					Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	AGX651	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	
Sample Type						Field Duplicate		Field Duplicate		Field Duplicate													
General Chemistry																							
Acidity	mg/L	n/v	n/v	135	146	-	-	-	-	59	-	74	-	<10	-	<10	-	<10	<10	-	NA	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	350	350	320	320	-	-	330	-	320	-	150	-	190	-	240	180	-	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	1.7	1.5	1.5	-	-	<1.0	-	<1.0	-	1.2	-	<1.0	-	4.8	2.1	-	<1.0	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	350	350	330	330	-	-	330	-	320	-	150	-	190	-	250	180	-	180	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.070	0.095	<0.050	<0.050	-	-	0.057	-	<0.050	-	<0.05	-	<0.050	-	0.078	<0.05	-	<0.050	-	-
Anion Sum	meq/L	n/v	n/v	7.45	7.48	7.88	7.88	-	-	8.49	-	10.7	-	6.31	-	6.05	-	5.90	4.22	-	4.18	-	-
Cation Sum	meq/L	n/v	n/v	7.95	7.67	7.98	7.84	-	-	8.93	-	10.9	-	6.20	-	5.27	-	3.38	2.73	-	2.43	-	-
Chloride	mg/L	250 ^D	790 ^{GH}	4	4	9	4	-	-	34	-	17	-	11	-	7.5	-	7	3	-	5.0	-	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	<2	-	-	-	-	<2	-	<2	-	<2	-	<2	-	<2	<2	-	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	2.2	2.2	2.8	2.6	-	-	1.7	-	2.0	-	6.3 ^D	-	10 ^D	-	39 ^D	13 ^D	-	7.7 ^D	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	670	680	720	720	-	-	790	-	950	-	630	-	490	-	310	270	-	280	-	-
Fluoride	mg/L	1.5 ^B	n/v	0.10	0.11	-	-	-	-	0.11	-	0.12	-	0.62	-	0.80	-	1.1	1.2	-	1.2	-	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	390 ^E	370 ^E	390 ^E	380 ^E	-	-	420 ^E	-	510 ^E	-	120 ^E	-	82	-	33 ^E	25 ^E	-	25 ^E	-	-
Ion Balance	%	n/v	n/v	3.25	1.27	0.640	0.270	-	-	2.50	-	0.790	-	0.890	-	6.85	-	27.1	21.6	-	26.5	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.919	0.921	0.883	0.885	-	-	0.478	-	0.620	-	0.102	-	-0.168	-	0.223	-0.275	-	-0.628	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.671	0.673	0.634	0.637	-	-	0.230	-	0.373	-	-0.147	-	-0.417	-	-0.0250	-0.524	-	-0.877	-	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	0.31	0.31	<0.10	<0.10	-	-	0.42	-	0.16	-	<0.1	-	<0.10	-	<0.50	<0.1	-	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	0.31	0.31	<0.10	<0.10	-	-	0.42	-	0.16	-	<0.1	-	<0.10	-	<0.50	<0.1	-	<0.10	-	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.01	-	<0.010	-	<0.050	<0.01	-	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.01	-	<0.010	-	0.018	0.010	-	<0.010	-	-
pH	S.U.	6.5-8.5 ^E	n/v	7.70	7.72	7.69	7.70	-	-	7.79	-	7.36	-	7.29	-	7.94	-	8.32	8.10	-	7.73	-	-
Saturation pH (at 20 C)	none	n/v	n/v	6.78	6.80	6.81	6.82	-	-	6.81	-	6.74	-	7.84	-	7.86	-	8.10	8.38	-	8.36	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.03	7.05	7.06	7.07	-	-	7.06	-	6.99	-	8.09	-	8.11	-	8.34	8.63	-	8.61	-	-
Sulfate	mg/L	500 ^D	n/v	13	14	54	53	-	-	41	-	180	-	150	-	93	-	32	24	-	20	-	-
Total Dissolved Solids	mg/L	500 ^D	n/v	472	460	-	-	-	-	526 ^D	-	634 ^D	-	424	-	330	-	412	414	-	332	-	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	-	420	420	-	-	460	-	610 ^D	-	380	-	340	-	270	200	-	190	-	-
Total Organic Carbon	mg/L	n/v	n/v	3.1	3.1	-	-	-	-	1.8	-	2.0	-	6.9	-	9.4	-	37	12	-	8.5	-	-
Total Suspended Solids	mg/L	n/v	n/v	430	430	19	11	-	-	17	-	<10	-	11	-	14	-	260	250	-	53	-	-
Turbidity, Lab	ntu	5.0 ^E	n/v	68 ^D	90 ^D	4.4	5.9 ^D	-	-	22 ^D	-	2.7	-	31 ^D	-	490 ^D	-	490 ^D	600 ^D	-	350 ^D	-	-
BTEX and Petroleum Hydrocarbons																							
Benzene	µg/L	5 ^B	0.5 ^D 5 ^H	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-	-
Toluene	µg/L	24 ^D	24 ^D 22 ^H	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	0.43	0.28	-	0.20	-	-
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-	-
Xylene, m & p-	µg/L	300 ^D	300 ^D 300 ^{GH}	<0.40	<0.40	<0.20	<0.20	-	-	<0.20	-	<0.40	-	<0.2	-	<0.40	-	0.21	<0.2	-	<0.20	-	-
Xylene, o-	µg/L	300 ^D	300 ^D 300 ^{GH}	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-	-
Xylenes, Total	µg/L	300 ^D	72 ^{GH} 300 ^{GH}	<0.40	<0.40	<0.20	<0.20	-	-	<0.20	-	<0.40	-	<0.2	-	<0.40	-	0.21	<0.2	-	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^{GH} 420 ^{GH}	<25	<25	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	<25	-	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^{GH} 420 ^{GH}	<25	<25	-	-	-	-	<25	-	<25	-	<25	-	<25	-	<25	<25	-	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^{GH} 150 ^{GH}	<100	<100	-	-	-	-	<100	-	<100	-	<100	-	<100	-	<100	<100	-	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^{GH} 500 ^{GH}	<200	<200	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	<200	-	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^{GH} 500 ^{GH}	<200	<200	-	-	-	-	<200	-	<200	-	<200	-	<200	-	<200	<200	-	<200	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	YES	-	-	-	-	YES	-	YES	-	YES	-	YES	-	YES	YES	-	YES	-	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW4-13-S										MW4-15D				MW5-14-D				
					1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID					WG-160900764-20141001-JK6	WG-160900764-20141001-JK7	WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4I4645	B4I4645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B561683	B561683	B5K2885	B5K2885	B520805	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID					XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	B590648	BCN652	BCN653	ABP939	ABP940	BCN654	BCN655	ZK6639	ABU949	ABU950	BCP426	BCP427
Filtered					Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	AGX651	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type						Field Duplicate		Field Duplicate		Field Duplicate													
Metals																							
Aluminum	µg/L	100 ^F	n/v	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	56	-	70	31	-	19	-
Antimony	µg/L	6 ^C	6 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	1	-	0.55	< 0.5	-	< 0.5	-
Arsenic	µg/L	25 ^C	25 ^{GH}	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	3.5	-	1.5	1.2	-	1.9	-
Barium	µg/L	1000 ^B	1000 ^{GH}	68	65	51	51	53	53	75	-	93	-	70	-	54	-	13	7.2	-	7.8	-	-
Beryllium	µg/L	n/v	4 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	-
Boron	µg/L	5000 ^C	5000 ^{GH}	22	23	40	32	17	17	19	-	46	-	180	-	210	-	200	210	-	200	-	-
Cadmium	µg/L	5 ^B	2.1 ^{GH}	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	< 0.10	-	< 0.10	-	< 0.10	< 0.10	-	< 0.10	-
Calcium	µg/L	n/v	n/v	140000	130000	130000	130000	140000	140000	140000	-	180000	-	28000	-	19000	-	9100	6600	-	6600	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	< 0.50	< 0.50	-	-	-	-	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	-
Cobalt	µg/L	n/v	3.8 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	-
Copper	µg/L	1000 ^D	69 ^{GH}	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	< 1.0	-	3.3	< 1.0	-	< 1.0	-
See notes on last page																							
Metals (Contd.)																							
Iron	µg/L	300 ^D	n/v	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	-	< 100	-	< 100	< 100	-	< 100	-	-
Lead	µg/L	10 ^C	10 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	-	< 0.50	< 0.50	-	< 0.50	-	-
Magnesium	µg/L	n/v	n/v	12000	12000	12000	12000	12000	12000	18000	-	17000	-	11000	-	8200	-	2600	2000	-	2200	-	-
Manganese	µg/L	50 ^D	n/v	< 2.0	< 2.0	13	13	10	8.0	13	-	< 2	-	22	-	29	-	6	7.1	-	7.3	-	-
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	< 0.1	< 0.1	-	-	-	< 0.1	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	< 0.1	-	< 0.1	-	-
Molybdenum	µg/L	n/v	70 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	-	48	-	56	-	12	7.8	-	7.5	-	-
Nickel	µg/L	n/v	100 ^{GH}	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	2.4	-	1.5	-	1.3	< 1.0	-	< 1.0	-	-
Phosphorus	µg/L	n/v	n/v	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100	-	< 100	-	< 100	-	< 100	< 100	-	< 100	-	-
Potassium	µg/L	n/v	n/v	890	870	730	700	770	760	1000	-	1200	-	2800	-	1600	-	1000	780	-	640	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	< 2.0	-	< 2.0	-	< 2.0	-	< 2.0	< 2.0	-	< 2.0	-	-
Silicon	µg/L	n/v	n/v	4700	4900	4200	4200	4500	4500	5700	-	5500	-	3400	-	3600	-	3100	3100	-	3300	-	-
Silver	µg/L	n/v	1.2 ^{GH}	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	-	< 0.10	-	< 0.10	-	< 0.10	-	< 0.10	< 0.10	-	< 0.10	-	-
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	3800	3900	5800	5300	4900	4800	12000	-	14000	-	88000 ^F	-	83000 ^F	-	61000 ^F	51000 ^F	-	44000 ^F	-	-
Strontium	µg/L	n/v	n/v	370	370	340	330	350	350	500	-	480	-	540	-	460	-	120	88	-	110	-	-
Thallium	µg/L	n/v	2 ^{GH}	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	-	< 0.050	< 0.050	-	< 0.050	-	-
Titanium	µg/L	n/v	n/v	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	< 5.0	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	-	-
Uranium	µg/L	20 ^B	20 ^{GH}	0.65	0.68	0.89	0.88	0.96	0.94	0.73	-	1.1	-	3.8	-	2	-	2.3	1.6	-	0.84	-	-
Vanadium	µg/L	n/v	6.2 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	-	< 0.50	-	0.51	-	0.67	-	1.2	0.81	-	1.3	-	-
Zinc	µg/L	5000 ^D	890 ^{GH}	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-	< 5.0	-	< 5.0	-	< 5.0	-	7.9	< 5.0	-	< 5.0	-	-
Zirconium	µg/L	n/v	n/v	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	< 1.0	-	< 1.0	-	-
Polychlorinated Biphenyls																							
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	< 0.05	-	< 0.05	-	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	< 0.05	-	< 0.05	-	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	< 0.05	-	< 0.05	-	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	< 0.05	-	< 0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 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	Units	ODWQS	Ontario SCS	MW4-13-S										MW4-15D				MW5-14-D					
					1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	
Sample ID					WG-160900764-20141001-JK6	WG-160900764-20141001-JK7	WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B414645	B414645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	MAXX	B5K2885	B5K2885	B561683	B561683	B5K2885	B5K2885	B520805	B562741	B562741	B5K3284	B5K3284	
Laboratory Sample ID					XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	B590648	BCN652	BCN653	ABP939	ABP940	BCN654	BCN655	ZK6639	ABU949	ABU950	BCP426	BCP427	
Filtered					Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	AGX651	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	
Sample Type						Field Duplicate		Field Duplicate		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	4	2	2	<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	<0.1	<0.1	<0.1	-	<0.1	5.2	<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	<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	<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	<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	<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	<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	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v	0.1, 12 ^{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	<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	<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	<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	<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	<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	<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	<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	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2, 33 ^{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	<0.28	<0.28	<0.28	-	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	3 ^{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	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	3 ^{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	<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	<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	<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	0.08	<0.05	0.10	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
See notes on last page																								
Semi - Volatile Organic Compounds (Contd.)																								
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	<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	<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	<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	<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	<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	<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	<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	<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	<2	<2	<2	-	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5.13 ^D 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	<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 ^D 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	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	n/v	60 ^B 30 ^D	<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	<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	<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	<																			

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW4-13-S										MW4-15D				MW5-14-D				
					1-Oct-14	1-Oct-14	27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15	7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID					WG-160900764-20141001-JK6	WG-160900764-20141001-JK7	WG-160900764-20141127-RD07	WG-160900764-20141127-RD08	WG-160900764-20141127-RD07A	WG-160900764-20141127-RD08A	WG-160900764-20150514-MF01	WG-160900764-20150514-MF01A	WG-160900764-20151005-RD03	WG-160900764-20151005-RD03A	WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B414645	B414645	B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885	B561683	B561683	B5K2885	B5K2885	B520805	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID					XV9679	XV9680	YQ4962	YQ4964	YQ4963	YQ4965	AGX650	B590648	BCN652	BCN653	ABP939	ABP940	BCN654	BCN655	ZK6639	ABU949	ABU950	BCP426	BCP427
Filtered					Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Field Filtered Metals	AGX651	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type						Field Duplicate		Field Duplicate		Field Duplicate													
Volatile Organic Compounds																							
Acetone	µg/L	n/v		2700 ^{GH}	< 10	< 10	< 10	< 10	-	-	<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	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Bromofom (Tribromomethane)	µg/L	n/v		5 ^G 25 ^H	< 1.0	< 1.0	< 1.0	< 1.0	-	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v		0.89 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B		0.2 ^G 0.79 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D		30 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v		2 ^G 2.4 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	0.71	-	<0.20	-	0.20	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v		25 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<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	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v		59 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F ^D		0.5 ^G 1 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v		590 ^{GH}	< 1.0	< 1.0	< 1.0	< 1.0	-	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v		5 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 ^C		0.5 ^G 1.6 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 ^B		0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v		1.6 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v		1.6 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v		0.58 ^G 5 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v		0.5 ^G 1.1 ^H 0.5 ^G 1.1 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<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	-	<0.3	-	<0.30	-	<0.30	<0.3	-	<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	-	<0.4	-	<0.40	-	<0.40	<0.4	-	<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	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v		5 ^G 51 ^H	< 1.0	< 1.0	< 1.0	< 1.0	-	-	<1.0	-	<1.0	-	<1	-	<1.0	-	<1.0	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v		1800 ^{GH}	< 10	< 10	< 10	< 10	-	-	<10	-	<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	-	<5	-	<5.0	-	<5.0	<5	-	<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	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 ^B		26 ^G 50 ^H	< 2.0	< 2.0	< 2.0	< 2.0	-	-	<2.0	-	<2.0	-	<2	-	<2.0	-	<2.0	<2	-	<2.0	-
Styrene	µg/L	n/v		5.4 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v		1.1 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v		0.5 ^G 1 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 ^B		0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v		23 ^G 200 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v		0.5 ^G 4.7 ^H	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 ^B		0.5 ^G 1.6 ^H	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v		150 ^{GH}	< 0.50	< 0.50	< 0.50	< 0.50	-	-	<0.50	-	<0.50	-	<0.5	-	<0.50	-	<0.50	<0.5	-	<0.50	-
Vinyl chloride	µg/L	2 ^B		0.5 ^{GH}	< 0.20	< 0.20	< 0.20	< 0.20	-	-	<0.20	-	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.2	-	<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	Units	ODWQS	Ontario SCS	MW5-14-1								MW5-14-5								
					28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	
Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A	
Sampling Company	Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory	Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284	
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425	
Filtered	Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Lab Filtered
Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
General Chemistry																					
Acidity	mg/L	n/v	n/v	n/v	< 10	<10	-	<10	-	NA	-	12	-	-	<10	13	-	-	-	26	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	n/v	390	150	-	240	-	130	-	200	230	-	230	250	-	-	-	240	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	n/v	10	3.4	-	3.3	-	<1.0	-	1.3	1.8	-	1.5	1.6	-	-	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	n/v	330	150	-	240	-	130	-	210	230	-	230	250	-	-	-	240	-
Ammonia (as N)	mg/L	n/v	n/v	n/v	0.14	<0.050	-	0.053	n/v	<0.050	-	0.17	-	-	<0.05	0.051	-	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	n/v	7.89	3.81	-	5.48	-	3.22	-	5.70	6.12	-	6.13	6.58	-	-	-	6.44	-
Cation Sum	meq/L	n/v	n/v	n/v	5.10	3.28	-	3.01	-	2.72	-	5.47	6.16	-	5.73	5.75	-	-	-	6.42	-
Chloride	mg/L	250 ^D	790 ^{GH}	n/v	12	3	-	3	-	3.5	-	8	7	-	8	7	-	-	-	16	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	n/v	< 2	<2	-	<2	-	<2	-	< 2	-	-	<2	<2	-	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	n/v	3.4	2.5	-	2.0	-	1.2	-	1.9	-	-	1.1	1.1	-	-	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	n/v	440	310	-	280	-	250	-	530	580	-	560	540	-	-	-	600	-
Fluoride	mg/L	1.5 ^B	n/v	n/v	0.98	1.3	-	1.4	-	1.5	-	0.11	-	-	<0.1	<0.1	-	-	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	n/v	51 ^E	22 ^E	-	23 ^E	-	21 ^E	-	260 ^E	300 ^E	-	280 ^E	280 ^E	-	-	-	310 ^E	-
Ion Balance	%	n/v	n/v	n/v	21.5	7.58	-	29.0	-	8.38	-	2.04	0.290	-	3.41	6.72	-	-	-	0.130	-
Langelier Index (at 20 C)	none	n/v	n/v	n/v	0.502	-0.0460	-	-0.0670	n/v	-0.687	-	0.651	0.864	-	0.743	0.769	-	-	-	0.444	-
Langelier Index (at 4 C)	none	n/v	n/v	n/v	0.258	-0.295	-	-0.315	-	-0.937	-	0.402	0.615	-	0.495	0.520	-	-	-	0.195	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	n/v	< 0.10	<0.10	-	<0.5	-	<0.10	-	14.7 ^B	11.9 ^B	-	12.6 ^B	12.3 ^B	-	-	-	8.63	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	n/v	0.014	<0.10	-	<0.5	-	<0.10	-	14.8 ^B	11.9 ^B	-	12.6 ^B	12.3 ^B	-	-	-	8.63	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	n/v	0.014	0.034	-	<0.05	-	0.011	-	0.018	0.014	-	<0.01	0.020	-	-	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	n/v	0.34	0.031	-	0.015	-	<0.010	-	< 0.010	< 0.010	-	<0.01	<0.01	-	-	-	<0.010	-
pH	S.U.	6.5-8.5 ^E	n/v	n/v	8.44	8.39	-	8.17	n/v	7.78	-	7.85	7.92	-	7.85	7.83	-	-	-	7.49	-
Saturation pH (at 20 C)	none	n/v	n/v	n/v	7.94	8.43	-	8.24	-	8.47	-	7.20	7.06	-	7.11	7.06	-	-	-	7.04	-
Saturation pH (at 4 C)	none	n/v	n/v	n/v	8.18	8.68	-	8.48	-	8.72	-	7.44	7.31	-	7.36	7.31	-	-	-	7.29	-
Sulfate	mg/L	500 ^D	n/v	n/v	46	29	-	23	n/v	22	-	15	18	-	23	25	-	-	-	27	-
Total Dissolved Solids	mg/L	500 ^D	n/v	n/v	1780 ^D	266	-	438	-	232	-	346	-	-	338	330	-	-	-	378	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	n/v	370	200	-	240	-	170	-	-	350	-	340	360	-	-	-	360	-
Total Organic Carbon	mg/L	n/v	n/v	n/v	28	3.0	-	3.3	n/v	2.6	-	3.5	-	-	0.88	1.3	-	-	-	0.97	-
Total Suspended Solids	mg/L	n/v	n/v	n/v	1100	19	-	430	-	43	-	22000	2200	-	130	310	-	-	-	41	-
Turbidity, Lab	ntu	5.0 ^E	n/v	n/v	2900 ^D	150 ^D	-	580 ^D	-	120 ^D	-	3400 ^D	-	-	17 ^D	200 ^D	-	-	-	39 ^D	-
BTEX and Petroleum Hydrocarbons																					
Benzene	µg/L	5 ^B	0.5 ^D 5 ^H	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	0.47	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
Toluene	µg/L	24 ^D	24 ^D 22 ^H	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	6.5	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	1.5	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
Xylene, m & p-	µg/L	300 ^D	300 ^D 300 ^{GH}	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	6.2	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
Xylene, o-	µg/L	300 ^D	300 ^D 300 ^{GH}	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	1.7	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
Xylenes, Total	µg/L	300 ^D	72 ^{GH} 300 ^{GH} 300 ^H	n/v	< 0.20	<0.20	-	<0.2	-	<0.20	-	7.9	< 0.20	-	<0.2	<0.2	-	-	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^{GH} 420 ^{GH} 420 ^H	n/v	< 25	<25	-	<25	-	<25	-	< 25	-	-	<25	<25	-	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^{GH} 420 ^{GH} 420 ^H	n/v	< 25	<25	-	<25	-	<25	-	< 25	-	-	<25	<25	-	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^{GH} 150 ^{GH} 150 ^H	n/v	< 100	<100	-	<100	-	<100	-	< 100	-	-	<100	<100	-	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^{GH} 500 ^{GH} 500 ^H	n/v	< 200	<200	-	<200	-	<200	-	< 200	-	-	<200	<200	-	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^{GH} 500 ^{GH} 500 ^H	n/v	< 200	<200	-	<200	-	<200	-	< 200	-	-	<200	<200	-	-	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	n/v	YES	YES	-	YES	-	YES	-	YES	-	-	YES	YES	-	-	-	YES	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW5-14-I								MW5-14-S							
					28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID					WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID					YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered					Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Filtered	Field Filtered Metals	Lab Filtered
Sample Type																				
Metals																				
Aluminum	µg/L	100 ^F	n/v		270 ^E	110 ^E	110 ^E	78	-	86	-	5.6	12	< 5	<5	<5	-	-	<5	-
Antimony	µg/L	6 ^C	6 ^{GH}		1.4	1.1	1.1	1.6	-	0.7	-	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	-
Arsenic	µg/L	25 ^C	25 ^{GH}		< 1.0	2.1	2	1.8	-	1.7	-	< 1.0	< 1	< 1	< 1	< 1	-	-	< 1	-
Barium	µg/L	1000 ^B	1000 ^{GH}		30	8.6	8.1	7.8	-	8.7	-	75	55	54	45	47	-	-	55	-
Beryllium	µg/L	n/v	4 ^{GH}		< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	-
Boron	µg/L	5000 ^C	5000 ^{GH}		180	210	190	210	-	200	-	16	10	13	< 10	< 10	-	-	< 10	-
Cadmium	µg/L	5 ^B	2.1 ^{GH}		< 0.10	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	-
Calcium	µg/L	n/v	n/v		15000	5900	6200	6900	-	6600	-	84000	100000	99000	92000	93000	-	-	100000	-
Cesium	µg/L	n/v	n/v		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}		< 0.50	< 0.50	-	< 0.5	-	< 0.50	-	< 0.50	-	-	< 0.5	< 0.5	-	-	0.60	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}		< 5.0	< 5	< 5	< 5	-	< 5	-	< 5.0	< 5	< 5	< 5	< 5	-	-	< 5	-
Cobalt	µg/L	n/v	3.8 ^{GH}		< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	-
Copper	µg/L	1000 ^D	69 ^{GH}		3.3	2	1.9	1.1	-	< 1	-	1.1	1.9	< 1	< 1	< 1	-	-	< 1	-
See notes on last page																				
Metals (Contd.)																				
Iron	µg/L	300 ^D	n/v		< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100	< 100	< 100	< 100	-	-	< 100	-
Lead	µg/L	10 ^C	10 ^{GH}		< 0.50	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	-
Magnesium	µg/L	n/v	n/v		3300	1500	1600	1400	-	1100	-	12000	11000	12000	11000	11000	-	-	12000	-
Manganese	µg/L	50 ^D	n/v		5.5	< 2	< 2	2.3	-	3.3	-	15	14	17	5	5	-	-	2.1	-
Mercury	µg/L	1 ^B	0.1 ^G 0.29 ^H		< 0.1	-	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	< 0.1	-	-	< 0.1	-
Molybdenum	µg/L	n/v	70 ^{GH}		33	13	15	14	-	11	-	3.1	1.1	1.3	0.69	0.67	-	-	0.55	-
Nickel	µg/L	n/v	100 ^{GH}		< 1.0	< 1	< 1	< 1	-	1.4	-	1.3	< 1	< 1	< 1	< 1	-	-	< 1	-
Phosphorus	µg/L	n/v	n/v		< 100	< 100	< 100	< 100	-	< 100	-	< 100	< 100	< 100	< 100	< 100	-	-	< 100	-
Potassium	µg/L	n/v	n/v		1900	920	960	850	-	740	-	3600	2000	1900	1500	1500	-	-	1900	-
Rubidium	µg/L	n/v	n/v		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}		< 2.0	< 2	< 2	< 2	-	< 2	-	< 2.0	< 2	< 2	< 2	< 2	-	-	< 2	-
Silicon	µg/L	n/v	n/v		1300	2200	2200	2200	-	2500	-	5500	5200	5200	4500	4600	-	-	5800	-
Silver	µg/L	n/v	1.2 ^{GH}		< 0.10	< 0.1	< 0.1	< 0.1	-	< 0.1	-	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	-
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}		92000 ^F	65000 ^F	64000 ^F	58000 ^F	-	52000 ^F	-	5100	3500	3600	3300	3300	-	-	4800	-
Strontium	µg/L	n/v	n/v		150	80	86	84	-	69	-	280	210	210	190	190	-	-	220	-
Thallium	µg/L	n/v	2 ^{GH}		< 0.050	< 0.05	< 0.05	< 0.05	-	< 0.05	-	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	-
Titanium	µg/L	n/v	n/v		< 5.0	< 5	< 5	< 5	-	< 5	-	< 5.0	< 5	< 5	< 5	< 5	-	-	< 5	-
Uranium	µg/L	20 ^B	20 ^{GH}		4.0	3.8	4	3.7	-	2.6	-	2.9	0.79	0.91	0.68	0.71	-	-	0.73	-
Vanadium	µg/L	n/v	6.2 ^{GH}		2.0	1.9	2.1	1.8	-	2.1	-	0.76	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	-
Zinc	µg/L	5000 ^D	890 ^{GH}		< 5.0	< 5	< 5	< 5	-	8.2	-	< 5.0	6	< 5	9.5	< 5	-	-	< 5	-
Zirconium	µg/L	n/v	n/v		< 1.0	< 1	< 1	< 1	-	< 1	-	< 1.0	< 1	< 1	< 1	< 1	-	-	< 1	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		< 0.5	< 0.05	-	< 0.05	-	< 0.05	-	< 0.5	-	-	< 0.05	< 0.05	-	-	< 0.05	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		< 0.5	< 0.05	-	< 0.05	-	< 0.05	-	< 0.5	-	-	< 0.05	< 0.05	-	-	< 0.05	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		< 0.5	< 0.05	-	< 0.05	-	< 0.05	-	< 0.5	-	-	< 0.05	< 0.05	-	-	< 0.05	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		< 0.5	< 0.05	-	< 0.05	-	< 0.05	-	< 0.5	-	-	< 0.05	< 0.05	-	-	< 0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H		< 0.5	< 0.05	-	< 0.05	-	< 0.05	-	< 0.5	-	-	< 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	Units	ODWQS	Ontario SCS	MW5-14-1								MW5-14-5							
					28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID					WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID					YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered					Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type																				
Semi - Volatile Organic Compounds																				
Phthalates																				
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10 ^{GH}	7	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<2	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	0.1	1.9	<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	<0.2	<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	<0.4	<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	<0.4	<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	<0.1	<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	<0.1	<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	<0.01	<0.01	<0.01	<0.01
Benzo(b,j)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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.2	<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	<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	<0.4	<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	<0.2	<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	1.9	<0.28	<0.28	<0.57	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	3.2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	3.2 ^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.3	<0.2	<0.2	<0.4	<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	0.8	<0.2	<0.2	<0.4	<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	0.4	<0.1	<0.1	<0.2	<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	0.08	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
See notes on last page																				
Semi - Volatile Organic Compounds (Contd.)																				
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	0.3	<0.1	<0.1	<0.2	<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	<1	<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	<1	<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	<2	<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	<0.2	<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	<1	<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	<0.2	<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	<1	<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	<4	<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	<0.5	<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	<0.5	<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	<0.2	<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	<1	<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	<0.2	<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	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2

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

Sample Location Sample Date	Units	ODWQS	Ontario SCS	MW5-14-1								MW5-14-5							
				28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	9-Oct-14	23-Dec-14	23-Dec-14	9-Apr-15	9-Apr-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15
Sample ID				WG-160900764-20141028-HB01	WG-160900764-20150204-RD04	WG-160900764-20150204-RD04A	WG-160900764-20150410-RD08	WG-160900764-20150410-RD08A	WG-160900764-2015106-RD09	WG-160900764-2015106-RD09A	WG-160900764-20141009-AD01	WG-160900764-20141223-MF01	WG-160900764-20141223-MF01A	WG-160900764-20150409-RD06	WG-160900764-20150409-RD07	WG-160900764-20150409-RD06A	WG-160900764-20150409-RD07A	WG-160900764-2015106-RD05	WG-160900764-2015106-RD05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4K2141	B520805	B520805	B563828	B563828	B563828	B5K3284	B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433	XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Lab Filtered
Sample Type																			
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2700 ^{GH}	< 10	<10	-	<10	-	<10	-	14	< 10	-	<10	<10	-	-	<10	-
Bromodichloromethane	µg/L	n/v	16 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	< 1.0	<1.0	-	<1	-	<1.0	-	< 1.0	< 1.0	-	<1	<1	-	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^G 0.79 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2 ^G 2.4 ^H	0.37	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F	0.5 ^G 1 ^H	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	< 1.0	<1.0	-	<1	-	<1.0	-	< 1.0	< 1.0	-	<1	<1	-	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^G 1.6 ^H	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^G 5 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^G 1 ^H 0.5 ^G 1 ^H	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	< 0.30	<0.30	-	<0.3	-	<0.30	-	< 0.30	< 0.30	-	<0.3	<0.3	-	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	< 0.40	<0.40	-	<0.4	-	<0.40	-	< 0.40	< 0.40	-	<0.4	<0.4	-	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5 ^G 51 ^H	< 1.0	<1.0	-	<1	-	<1.0	-	< 1.0	< 1.0	-	<1	<1	-	-	<1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	< 10	<10	-	<10	-	<10	-	< 10	< 10	-	<10	<10	-	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	< 5.0	<5.0	-	<5	-	<5.0	-	< 5.0	< 5.0	-	<5	<5	-	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	< 2.0	<2.0	-	<2	-	<2.0	-	< 2.0	< 2.0	-	<2	<2	-	-	<2.0	-
Styrene	µg/L	n/v	5.4 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^G 1 ^H	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^G 1.6 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^G 200 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^G 4.7 ^H	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^G 1.6 ^H	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	< 0.50	<0.50	-	<0.5	-	<0.50	-	< 0.50	< 0.50	-	<0.5	<0.5	-	-	<0.50	-
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	< 0.20	<0.20	-	<0.2	-	<0.20	-	< 0.20	< 0.20	-	<0.2	<0.2	-	-	<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	Units	ODWQS	Ontario SCS	MW5-14-S (2)								MW6-14						
					3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15
Sample ID					WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID					ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959
Filtered					Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type										Field Duplicate		Field Duplicate							
General Chemistry																			
Acidity	mg/L	n/v	n/v	30	-	15	-	19	17	-	-	-	12	-	-	12	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	200	-	210	210	-	-	-	200	200	-	200	-	190	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	1.2	-	<1.0	<1.0	-	-	-	1.8	2.5	-	<1	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	200	-	200	-	210	210	-	-	-	200	200	-	200	-	190	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.05	-	<0.050	<0.050	-	-	-	0.12	0.058	-	<0.05	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.70	-	5.59	-	5.60	5.55	-	-	-	4.83	5.05	-	5.55	-	5.47	-
Cation Sum	meq/L	n/v	n/v	5.68	-	5.49	-	5.87	5.61	-	-	-	4.93	4.93	-	5.23	-	5.56	-
Chloride	mg/L	250 ^D	790 ^{GH}	8	-	8	-	7.0	6.8	-	-	-	10	16	-	24	-	28	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	<2	-	<2	<2	-	-	-	<2	-	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	1.2	-	0.69	-	0.87	0.86	-	-	-	2.9	2.3	-	1.4	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	550	-	540	-	540	530	-	-	-	420	470	-	510	-	530	-
Fluoride	mg/L	1.5 ^B	n/v	<0.10	-	<0.1	-	<0.10	<0.10	-	-	-	0.26	-	-	0.26	-	0.24	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	280 ^E	-	270 ^E	-	280 ^E	270 ^E	-	-	-	210 ^E	210 ^E	-	230 ^E	-	250 ^E	-
Ion Balance	%	n/v	n/v	0.180	-	0.890	-	2.35	0.540	-	-	-	0.990	1.16	-	2.91	-	0.840	-
Langelier Index (at 20 C)	none	n/v	n/v	0.800	-	0.633	-	0.499	0.463	-	-	-	0.469	0.591	-	-0.0400	-	0.329	-
Langelier Index (at 4 C)	none	n/v	n/v	0.551	-	0.384	-	0.250	0.214	-	-	-	0.220	0.341	-	-0.289	-	0.0800	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	14.3 ^B	-	13.9 ^B	-	11.1 ^B	11.2 ^B	-	-	-	<0.10	<0.10	-	<0.1	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	14.3 ^B	-	13.9 ^B	-	11.1 ^B	11.2 ^B	-	-	-	<0.10	<0.10	-	-	-	<0.10	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-	-	<0.010	<0.010	-	<0.01	-	0.016	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-	-	<0.010	<0.010	-	<0.01	-	<0.010	-
pH	S.U.	6.5-8.5 ^E	n/v	7.94	-	7.81	-	7.62	7.61	-	-	-	7.98	8.13	-	7.47	-	7.84	-
Saturation pH (at 20 C)	none	n/v	n/v	7.14	-	7.18	-	7.12	7.15	-	-	-	7.51	7.54	-	7.51	-	7.51	-
Saturation pH (at 4 C)	none	n/v	n/v	7.39	-	7.43	-	7.37	7.40	-	-	-	7.76	7.79	-	7.76	-	7.76	-
Sulfate	mg/L	500 ^D	n/v	18	-	20	-	19	19	-	-	-	24	27	-	39	-	38	-
Total Dissolved Solids	mg/L	500 ^D	n/v	310	-	328	-	334	334	-	-	-	262	-	-	-	-	296	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	330	-	320	-	330	320	-	-	-	-	270	-	-	-	290	-
Total Organic Carbon	mg/L	n/v	n/v	1.0	-	0.71	-	0.82	0.81	-	-	-	3.1	-	-	1.5	-	1.4	-
Total Suspended Solids	mg/L	n/v	n/v	14	-	85	-	<10	<10	-	-	-	310	120	-	21	-	45	-
Turbidity, Lab	ntu	5.0 ^E	n/v	19 ^D	-	6.7 ^D	-	2.1	7.1 ^D	-	-	-	96 ^D	150 ^D	-	7.2 ^D	-	70 ^D	-
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	0.24	<0.20	-	<0.2	-	<0.20	-
Toluene	µg/L	24 ^D	24 ^G 22 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	2.5	<0.20	-	<0.2	-	<0.20	-
Ethylbenzene	µg/L	2.4 ^D	2.4 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	0.50	<0.20	-	<0.2	-	<0.20	-
Xylene, m & p-	µg/L	300 ^D	300 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	2.1	<0.20	-	<0.2	-	<0.20	-
Xylene, o-	µg/L	300 ^D	300 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	0.67	<0.20	-	<0.2	-	<0.20	-
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	2.8	<0.20	-	<0.2	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	<25	-	<25	-	<25	<25	-	-	-	<25	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	<25	-	<25	-	<25	<25	-	-	-	<25	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	<100	-	<100	-	<100	<100	-	-	-	<100	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	<200	-	<200	-	<200	<200	-	-	-	<200	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	<200	-	<200	-	<200	<200	-	-	-	<200	-	-	<200	-	<200	-
Chromatogram to baseline at nC50	none	n/v	n/v	YES	-	YES	-	YES	YES	-	-	-	YES	-	-	YES	-	YES	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW5-14-5 (2)								MW6-14						
					3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15
Sample ID					WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID					ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959
Filtered					Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type										Field Duplicate		Field Duplicate							
Metals																			
Aluminum	µg/L	100 ^F	n/v	<5	-	<5	-	<5	<5	-	-	-	27	20	26	12	-	9.9	-
Antimony	µg/L	6 ^C	6 ^{GH}	<0.5	-	<0.5	-	<0.5	<0.5	-	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Arsenic	µg/L	25 ^C	25 ^{GH}	<1	-	<1	-	<1	<1	-	-	-	<1.0	<1.0	<1.0	<1	-	<1	-
Barium	µg/L	1000 ^B	1000 ^{GH}	32	-	29	-	33	32	-	-	-	97	86	86	70	-	80	-
Beryllium	µg/L	n/v	4 ^{GH}	<0.5	-	<0.5	-	<0.5	<0.5	-	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Boron	µg/L	5000 ^C	5000 ^{GH}	17	-	<10	-	<10	<10	-	-	-	47	49	44	23	-	21	-
Cadmium	µg/L	5 ^B	2.1 ^{GH}	<0.1	-	<0.1	-	<0.1	<0.1	-	-	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	95000	-	89000	-	96000	92000	-	-	-	39000	36000	41000	40000	-	41000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	<0.50	-	0.57	-	0.90	1.0	-	-	-	<0.50	-	-	<0.5	-	<0.50	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	<5	-	<5	-	<5	<5	-	-	-	<5.0	<5.0	<5.0	<5	-	<5	-
Cobalt	µg/L	n/v	3.8 ^{GH}	<0.5	-	<0.5	-	<0.5	<0.5	-	-	-	<0.50	0.73	0.81	<0.5	-	0.68	-
Copper	µg/L	1000 ^D	69 ^{GH}	<1	-	5.2	-	<1	<1	-	-	-	1.8	1.6	<1.0	<1	-	<1	-
See notes on last page																			
Metals (Contd.)																			
Iron	µg/L	300 ^D	n/v	<100	-	<100	-	<100	<100	-	-	-	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10 ^C	10 ^{GH}	<0.5	-	<0.5	-	<0.5	<0.5	-	-	-	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	9600	-	11000	-	11000	11000	-	-	-	26000	29000	29000	32000	-	36000	-
Manganese	µg/L	50 ^D	n/v	14	-	4.7	-	<2	<2	-	-	-	38	79^D	92^D	120^D	-	100^D	-
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H	<0.1	-	<0.1	-	<0.1	<0.1	-	-	-	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70 ^{GH}	2.1	-	1.2	-	1.1	1	-	-	-	5.9	5.2	6.5	4.7	-	4.3	-
Nickel	µg/L	n/v	100 ^{GH}	<1	-	1.5	-	<1	<1	-	-	-	1.6	<1.0	<1.0	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	<100	-	-	-	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1300	-	1100	-	1300	1200	-	-	-	6200	4700	5000	4000	-	3800	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	<2	-	<2	-	<2	<2	-	-	-	<2.0	<2.0	<2.0	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4600	-	4600	-	5900	5700	-	-	-	7900	9200	8700	8500	-	8900	-
Silver	µg/L	n/v	1.2 ^{GH}	<0.1	-	<0.1	-	<0.1	<0.1	-	-	-	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	3200	-	2800	-	3300	3100	-	-	-	15000	13000	12000	12000	-	10000	-
Strontium	µg/L	n/v	n/v	190	-	180	-	180	180	-	-	-	450	520	490	500	-	570	-
Thallium	µg/L	n/v	2 ^{GH}	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	<0.050	<0.050	<0.050	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5	<5	-	-	-	<5.0	<5.0	<5.0	<5	-	<5	-
Uranium	µg/L	20 ^B	20 ^{GH}	0.51	-	0.34	-	0.37	0.35	-	-	-	2.8	2.4	3.3	2.4	-	2.8	-
Vanadium	µg/L	n/v	6.2 ^{GH}	<0.5	-	<0.5	-	<0.5	<0.5	-	-	-	0.57	<0.50	<0.50	<0.5	-	0.6	-
Zinc	µg/L	5000 ^D	890 ^{GH}	<5	-	21	-	<5	<5	-	-	-	<5.0	<5.0	<5.0	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	<1	-	-	-	<1.0	<1.0	<1.0	<1	-	<1	-
Polychlorinated Biphenyls																			
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	<0.05	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	<0.05	-	<0.05	-	<0.05	<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	Units	ODWQS	Ontario SCS	MW5-14-5 (2)										MW6-14					
												3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	
		WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A											
		STANTEC MAXX B520805 ZK6641 Field Filtered Metals	STANTEC MAXX B520805 ZK6642 Lab Filtered	STANTEC MAXX B563828 ABZ560 Field Filtered Metals	STANTEC MAXX B563828 ABZ561 Lab Filtered	STANTEC MAXX B5K3284 BCP428 Field Filtered Metals	STANTEC MAXX B5K3284 BCP430 Field Filtered Metals	STANTEC MAXX B5K3284 BCP429 Lab Filtered	STANTEC MAXX B5K3284 BCP431 Lab Filtered	STANTEC MAXX B419252 XY3183 Lab Filtered Metals	STANTEC MAXX B4M4069 YP9577 Field Filtered Metals	STANTEC MAXX B4M4069 YP9578 Lab Filtered	STANTEC MAXX B565881 ACK471 Field Filtered Metals	STANTEC MAXX B565881 ACK472 Lab Filtered	STANTEC MAXX B5K5143 BCZ958 Field Filtered Metals	STANTEC MAXX B5K5143 BCZ959 Lab Filtered											
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	<1										
Diethyl Phthalate	µg/L	n/v	30 ^{GH}	<0.1	0.2	<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	<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	<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	<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	<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	<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	<0.01										
Benzo(b,j)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	<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	<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	<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	<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	<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	<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	<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	<0.1										
Methylnaphthalene (Total)	µg/L	n/v	3.2,3,3 ^H	<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	<0.28										
Methylnaphthalene, 1-	µg/L	n/v	3 ^{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	<0.2										
Methylnaphthalene, 2-	µg/L	n/v	3 ^{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	<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	<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	<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	<0.05										
See notes on last page																											
Semi - Volatile Organic Compounds (Contd.)																											
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	0.2	<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	<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	<0.5										
Chloroaniline, 4-	µg/L	n/v	10 ^{GH}	<1	<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	<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	<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	<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	<0.5										
Dinitrophenol, 2,4-	µg/L	n/v	10 ^{GH}	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2										
Dinitrotoluene, 2,4-	µg/L	n/v	5,13 ^D 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	<0.3	<0.3										
Dinitrotoluene, 2,6-	µg/L	n/v	5,13 ^D 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	<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	<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	<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	<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	<0.2										
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	<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	<0.2										

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW5-14-S (2)								MW6-14						
					3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-Oct-15	9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15
Sample ID					WG-160900764-20150203-RD03	WG-160900764-20150203-RD03A	WG-160900764-20150410-RD010	WG-160900764-20150410-RD10A	WG-160900764-2015106-RD07	WG-160900764-2015106-RD08	WG-160900764-2015106-RD07A	WG-160900764-2015106-RD08A	WG-160900764-20141009-AD02	WG-160900764-20141126 RD05	WG-160900764-20141126 RD05A	WG-160900764-20150413-RD13	WG-160900764-20150413-RD13A	WG-160900764-20151007-RD10	WG-160900764-20151007-RD10A
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284	B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID					ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431	XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959
Filtered					Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered
Sample Type										Field Duplicate		Field Duplicate							
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2700 ^{GH}	<10	-	<10	-	<10	<10	-	-	-	16	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	<1.0	-	<1	-	<1.0	<1.0	-	-	-	<1.0	<1.0	-	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^G 0.79 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2 ^G 2.4 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F ^D	0.5 ^G 1 ^H	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	<1.0	-	<1	-	<1.0	<1.0	-	-	-	<1.0	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^G 1.6 ^H	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^G 5 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^G 1.1 ^H 0.5 ^G 1.1 ^H	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	1.1 ^{GH}	<0.30	-	<0.3	-	<0.30	<0.30	-	-	-	<0.30	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	1.1 ^{GH}	<0.40	-	<0.4	-	<0.40	<0.40	-	-	-	<0.40	<0.40	-	<0.4	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5 ^C 51 ^H	<1.0	-	<1	-	<1.0	<1.0	-	-	-	<1.0	<1.0	-	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	<10	-	<10	-	<10	<10	-	-	-	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	<5.0	-	<5	-	<5.0	<5.0	-	-	-	<5.0	<5.0	-	<5	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	<2.0	-	<2	-	<2.0	<2.0	-	-	-	<2.0	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v	5.4 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^G 1 ^H	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^G 1.6 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^G 200 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^G 4.7 ^H	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^G 1.6 ^H	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	<0.50	-	<0.5	-	<0.50	<0.50	-	-	-	<0.50	<0.50	-	<0.5	-	<0.50	-
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	<0.20	-	<0.2	-	<0.20	<0.20	-	-	-	<0.20	<0.20	-	<0.2	-	<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	Units	ODWQS	Ontario SCS	MW7-14								MW8-15							
					9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	
Sample ID					WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	
Laboratory Sample ID					XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	
Filtered					Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Duplicate	
Sample Type																				
General Chemistry																				
Acidity	mg/L	n/v	n/v	13	-	-	10	-	<10	-	-	15	10	-	-	13	17	-	-	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	180	-	180	n/v	180	-	210	210	210	-	-	220	210	-	-	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	1.8	-	<1	-	1.3	-	1.8	1.6	-	-	<1	<1	-	-	-	
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	210	190	-	180	-	180	-	210	210	-	-	220	210	-	-	-	
Ammonia (as N)	mg/L	n/v	n/v	0.10	0.060	-	<0.05	n/v	0.10	0.085	<0.050	0.065	-	-	0.35	<0.05	-	-	-	
Anion Sum	meq/L	n/v	n/v	5.88	5.37	-	5.35	-	5.44	-	6.92	6.93	-	-	6.58	6.52	-	-	-	
Cation Sum	meq/L	n/v	n/v	5.98	5.39	-	5.44	-	6.09	-	7.10	6.94	-	-	6.79	6.91	-	-	-	
Chloride	mg/L	250 ^D	790 ^{GH}	27	29	-	29	-	29	-	16	16	-	-	15	15	-	-	-	
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	<2	-	-	<2	-	<2	-	<2	<2	-	-	<2	<2	-	-	-	
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	2.1	1.4	-	0.86	-	0.80	-	4.1	4.1	-	-	1.1	1.1	-	-	-	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	530	520	-	520	-	530	-	640	640	-	-	610	610	-	-	-	
Fluoride	mg/L	1.5 ^B	n/v	0.17	-	-	0.20	-	0.21	-	0.13	0.13	-	-	0.11	0.11	-	-	-	
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	270 ^F	250 ^F	-	250 ^F	-	280 ^F	-	320 ^F	310 ^F	-	-	320 ^F	320 ^F	-	-	-	
Ion Balance	%	n/v	n/v	0.830	0.190	-	0.830	-	5.66	-	1.25	0.0600	-	-	1.51	2.90	-	-	-	
Langelier Index (at 20 C)	none	n/v	n/v	0.600	0.525	-	-0.0500	-	0.404	-	0.717	0.670	-	-	0.290	0.317	-	-	-	
Langelier Index (at 4 C)	none	n/v	n/v	0.351	0.276	-	-0.299	-	0.155	-	0.468	0.422	-	-	0.0410	0.0690	-	-	-	
Nitrate (as N)	mg/L	10.0 ^B	n/v	0.11	<0.10	-	<0.1	-	0.28	-	<0.10	<0.10	-	-	<0.1	<0.1	-	-	-	
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	0.11	<0.10	-	-	-	0.29	-	<0.10	<0.10	-	-	-	-	-	-	-	
Nitrite (as N)	mg/L	1.0 ^B	n/v	<0.010	<0.010	-	<0.01	-	0.018	-	<0.010	<0.010	-	-	<0.01	<0.01	-	-	-	
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	<0.01	-	<0.010	-	<0.010	<0.010	-	-	<0.01	<0.01	-	-	-	
pH	S.U.	6.5-8.5 ^F	n/v	7.94	8.02	-	7.94	-	7.87	-	7.95	7.90	-	-	7.51	7.54	-	-	-	
Saturation pH (at 20 C)	none	n/v	n/v	7.34	7.50	-	7.52	-	7.47	-	7.23	7.23	-	-	7.22	7.22	-	-	-	
Saturation pH (at 4 C)	none	n/v	n/v	7.59	7.75	-	7.77	-	7.72	-	7.48	7.48	-	-	7.47	7.47	-	-	-	
Sulfate	mg/L	500 ^D	n/v	40	40	-	44	n/v	46	-	110	110	-	-	88	88	-	-	-	
Total Dissolved Solids	mg/L	500 ^D	n/v	326	-	-	-	-	298	-	404	394	-	-	-	-	-	-	-	
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	290	-	-	-	310	-	400	390	-	-	-	-	-	-	-	
Total Organic Carbon	mg/L	n/v	n/v	2.2	-	-	0.97	n/v	0.84	-	3.6	3.4	-	-	1.2	1.2	-	-	-	
Total Suspended Solids	mg/L	n/v	n/v	560	59	-	19	-	<10	-	19	14	-	-	<10	<10	-	-	-	
Turbidity, Lab	ntu	5 ^D	n/v	360 ^D	57 ^D	-	6.8 ^D	-	1.2	-	15 ^D	13 ^D	-	-	2.2	2.3	-	-	-	
BTEX and Petroleum Hydrocarbons																				
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H	<0.20	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
Toluene	µg/L	24 ^D	24 ^G 22 ^H	1.0	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
Ethylbenzene	µg/L	2.4 ^D	2.4 ^G	0.21	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
Xylene, m & p-	µg/L	300 ^D	300 ^G 300 ^H	1.4	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
Xylene, o-	µg/L	300 ^D	300 ^G 300 ^H	0.44	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	1.8	<0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	-	
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	<25	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	<25	-	-	<25	-	<25	-	<25	<25	-	-	<25	<25	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	<100	-	-	<100	-	<100	-	<100	<100	-	-	<100	<100	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	<200	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	<200	-	-	<200	-	<200	-	<200	<200	-	-	<200	<200	-	-	-	
Chromatogram to baseline at nC50	none	n/v	n/v	YES	-	-	YES	-	YES	-	YES	YES	-	-	YES	YES	-	-	-	

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	MW7-14								MW8-15							
					9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	
Sample ID					WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	
Laboratory Sample ID					XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	
Filtered					Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Field Duplicate	
Sample Type																				
Metals																				
Aluminum	µg/L	100 ^F	n/v		16	16	10	11	-	13	-	<5	<5	-	-	<5	5.9	-	-	
Antimony	µg/L	6 ^C	6 ^{GH}		<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	
Arsenic	µg/L	25 ^C	25 ^{GH}		<1.0	<1.0	<1.0	<1	-	<1	-	1.4	1.3	-	-	1.6	1.7	-	-	
Barium	µg/L	1000 ^B	1000 ^{GH}		100	92	100	78	-	100	-	72	73	-	-	65	64	-	-	
Beryllium	µg/L	n/v	4 ^{GH}		<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	
Boron	µg/L	5000 ^C	5000 ^{GH}		21	32	21	<10	-	11	-	17	17	-	-	<10	<10	-	-	
Cadmium	µg/L	5 ^B	2.1 ^{GH}		<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-	
Calcium	µg/L	n/v	n/v		57000	45000	48000	44000	-	49000	-	77000	76000	-	-	77000	78000	-	-	
Cesium	µg/L	n/v	n/v		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}		<0.50	-	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Chromium (Total)	µg/L	50 ^B	50 ^{GH}		<5.0	<5.0	<5.0	<5	-	<5	-	<5	<5	-	-	<5	<5	-	-	
Cobalt	µg/L	n/v	3.8 ^{GH}		<0.50	1.0	1.1	<0.5	-	0.53	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	
Copper	µg/L	1000 ^D	69 ^{GH}		1.6	1.5	<1.0	<1	-	<1	-	<1	<1	-	-	<1	<1	-	-	
See notes on last page																				
Metals (Contd.)																				
Iron	µg/L	300 ^D	n/v		<100	<100	<100	<100	-	<100	-	270	280	-	-	530 ^D	540 ^D	-	-	
Lead	µg/L	10 ^C	10 ^{GH}		<0.50	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	
Magnesium	µg/L	n/v	n/v		31000	33000	36000	34000	-	38000	-	30000	29000	-	-	30000	31000	-	-	
Manganese	µg/L	50 ^D	n/v		31	79 ^D	86 ^D	28	-	42	-	20	20	-	-	20	20	-	-	
Mercury	µg/L	1 ^B	0.1 ^C 0.29 ^H		<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-	
Molybdenum	µg/L	n/v	70 ^{GH}		4.1	2.8	2.8	2.3	-	2.6	-	1.9	2	-	-	1.2	1.1	-	-	
Nickel	µg/L	n/v	100 ^{GH}		<1.0	<1.0	<1.0	<1	-	<1	-	<1	<1	-	-	<1	<1	-	-	
Phosphorus	µg/L	n/v	n/v		<100	<100	<100	<100	-	<100	-	<100	<100	-	-	<100	<100	-	-	
Potassium	µg/L	n/v	n/v		3700	2800	3300	2700	-	2900	-	2500	2500	-	-	2300	2300	-	-	
Rubidium	µg/L	n/v	n/v		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	10 ^{GH}		<2.0	<2.0	<2.0	<2	-	<2	-	<2	<2	-	-	<2	<2	-	-	
Silicon	µg/L	n/v	n/v		10000	10000	11000	9700	-	11000	-	10000	10000	-	-	10000	10000	-	-	
Silver	µg/L	n/v	1.2 ^{GH}		<0.10	<0.10	<0.10	<0.1	-	<0.1	-	<0.1	<0.1	-	-	<0.1	<0.1	-	-	
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}		11000	8700	8900	8600	-	10000	-	16000	15000	-	-	8300	8500	-	-	
Strontium	µg/L	n/v	n/v		420	420	480	410	-	480	-	330	330	-	-	290	300	-	-	
Thallium	µg/L	n/v	2 ^{GH}		<0.050	<0.050	<0.050	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	
Titanium	µg/L	n/v	n/v		<5.0	<5.0	<5.0	<5	-	<5	-	<5	<5	-	-	<5	<5	-	-	
Uranium	µg/L	20 ^B	20 ^{GH}		3.5	1.5	1.6	1.1	-	1.1	-	0.69	0.69	-	-	0.25	0.26	-	-	
Vanadium	µg/L	n/v	6.2 ^{GH}		0.53	<0.50	<0.50	<0.5	-	<0.5	-	<0.5	<0.5	-	-	<0.5	<0.5	-	-	
Zinc	µg/L	5000 ^D	890 ^{GH}		<5.0	5.3	<5.0	<5	-	<5	-	<5	<5	-	-	<5	<5	-	-	
Zirconium	µg/L	n/v	n/v		<1.0	<1.0	<1.0	<1	-	<1	-	<1	<1	-	-	<1	<1	-	-	
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H		<0.05	-	-	<0.05	-	<0.05	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H		<0.05	-	-	<0.05	-	<0.05	-	<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	Units	ODWQS	Ontario SCS	MW7-14								MW8-15							
					9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	
Sample ID					WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A	
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order					B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	
Laboratory Sample ID					XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	
Filtered					Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type																				
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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/L	n/v	0.1, 12 ^{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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.1	< 0.1	< 0.1	
Methylnaphthalene (Total)	µg/L	n/v	3.2, 33 ^{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	< 0.28	< 0.28	< 0.28	
Methylnaphthalene, 1-	µg/L	n/v	3 ^{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	< 0.2	< 0.2	< 0.2	
Methylnaphthalene, 2-	µg/L	n/v	3 ^{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	< 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	< 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	< 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	< 0.05	< 0.05	< 0.05	
See notes on last page																				
Semi - Volatile Organic Compounds (Contd.)																				
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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.2	< 0.2	< 0.2	
Trichlorophenol, 2,4,6-	µg/L	n/v	5 ^B 2 ^D	< 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	< 0.2	< 0.2	< 0.2	

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

Sample Location Sample Date	Units	ODWQS	Ontario SCS	MW7-14								MW8-15							
				9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15	4-Feb-15	4-Feb-15	4-Feb-15	4-Feb-15	14-Apr-15	14-Apr-15	14-Apr-15	14-Apr-15	
Sample ID				WG-160900764-20141009-AD03	WG-160900764-20141127-RD10	WG-160900764-20141127-RD10A	WG-160900764-20150413-RD12	WG-160900764-20150413-RD12A	WG-160900764-20151007-RD11	WG-160900764-20151007-RD11A	WG-160900764-20150204-RD05	WG-160900764-20150204-RD06	WG-160900764-20150204-RD05A	WG-160900764-20150204-RD06A	WG-160900764-20150414-RD14	WG-160900764-20150414-RD16	WG-160900764-20150414-RD14A	WG-160900764-20150414-RD16A	
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order				B419252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143	B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881	
Laboratory Sample ID				XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962	ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478	
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Lab Filtered	Field Filtered Metals	Field Duplicate	Lab Filtered	Field Duplicate	Field Filtered Metals	Field Filtered Metals	Lab Filtered	Lab Filtered	
Sample Type																			
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2700 ^{GH}	10	< 10	-	<10	-	<10	-	<10	<10	-	-	<10	<10	-	-	
Bromodichloromethane	µg/L	n/v	16 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Bromoforn (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	< 1.0	< 1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-	
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^G 0.79 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Chloroform (Trichloromethane)	µg/L	n/v	2 ^G 2.4 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Dibromochloromethane	µg/L	n/v	25 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^D	0.5 ^G 1 ^H	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	< 1.0	< 1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-	
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^G 1.6 ^H	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^G 5 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^G 1 ^H 0.5 ^G 1 ^H	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	< 0.30	< 0.30	-	<0.3	-	<0.30	-	<0.30	<0.30	-	-	<0.3	<0.3	-	-	
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	< 0.40	< 0.40	-	<0.4	-	<0.40	-	<0.40	<0.40	-	-	<0.4	<0.4	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Hexane (n-Hexane)	µg/L	n/v	5 ^G 51 ^H	< 1.0	< 1.0	-	<1	-	<1.0	-	<1.0	<1.0	-	-	<1	<1	-	-	
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	< 10	< 10	-	<10	-	<10	-	<10	<10	-	-	<10	<10	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	< 5.0	< 5.0	-	<5	-	<5.0	-	<5.0	<5.0	-	-	<5	<5	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	< 2.0	< 2.0	-	<2	-	<2.0	-	<2.0	<2.0	-	-	<2	<2	-	-	
Styrene	µg/L	n/v	5.4 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^G 1 ^H	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^G 200 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^G 4.7 ^H	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^G 1.6 ^H	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	< 0.50	< 0.50	-	<0.5	-	<0.50	-	<0.50	<0.50	-	-	<0.5	<0.5	-	-	
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	< 0.20	< 0.20	-	<0.2	-	<0.20	-	<0.20	<0.20	-	-	<0.2	<0.2	-	-	

See notes on last page

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	FIELD BLANK										TRIP BLANK									
					20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14	10-Apr-15	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15				
Sample ID					WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126-RD06	FILTERED BLANK	WG-160900764-20141126-RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	FILTERED BLANK	WG-160900764-20141127-RD11A	FILTERED BLANK	WG-160900764-20141222-MF04	FILTERED BLANK	WG-160900764-20141222-MF04A	FILTERED BLANK	WG-160900764-20141223-MF02	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4M0745	B4M0745	B4M069	B4M069	B4M069	B4M5208	B4M5208	B4M5208	B4O2426	B4O2426	B4O2426	B4O2825	B563828	B4M0745	B4M5208	B4M5208	B4M5208	B5K5143	B5K5143	
Laboratory Sample ID					YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971	YY7645	YY7646	YY9891	ABZ564	YO3566	YQ4972	YQ4973	YQ4973	BCZ976	BCZ976	BCZ976	
Filtered					-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	-	-	-	-	-	-	-	-	
Sample Type					Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
General Chemistry																								
Acidity	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^E	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anion Sum	meq/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	meq/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	250 ^D	790 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	200 ^B	52 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a ^{GH}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	1.5 ^B	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100 ^E	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ion Balance	%	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10.0 ^B	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0 ^B	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	S.U.	6.5-8.5 ^E	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	500 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	500 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity, Lab	ntu	5.0 ^E	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons																								
Benzene	µg/L	5 ^B	0.5 ^G 5 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.20
Toluene	µg/L	24 ^D	24 ^G 22 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.20
Ethylbenzene	µg/L	2.4 ^D	2.4 ^G	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.20
Xylene, m & p-	µg/L	300 ^D	300 ^G 300 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.40
Xylene, o-	µg/L	300 ^D	300 ^G 300 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.20
Xylenes, Total	µg/L	300 ^D	72 ^G 300 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	-	-	-	-	-	<0.2	< 0.20	-	< 0.20	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	420 ^G 420 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<25	-	-	-	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420 ^G 420 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<25	-	-	-	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150 ^G 150 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500 ^G 500 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<200	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500 ^G 500 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<200	-	-	-	-
Chromatogram to baseline at nC50	none	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	-	-	-	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	FIELD BLANK										TRIP BLANK					
					20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14	10-Apr-15	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15
Sample ID					WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126-RD06	FILTERED BLANK	WG-160900764-20141126-RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4M0745	B4M0745	B4M4069	B4M4069	B4M4069	B4M5208	B4M5208	B4M5208	B4O2426	B4O2426	B4O2825	B563828	B4M0745	B4M5208	B4M5208	B5K5143
Laboratory Sample ID					YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971	YY7645	YY7646	YY9891	ABZ564	YO3566	YQ4972	YQ4973	BCZ976
Filtered					-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	-	-	-	-	-
Sample Type					Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Metals																				
Aluminum	µg/L	100 ^F	n/v	-	-	-	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-
Antimony	µg/L	6 ^C	6 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Arsenic	µg/L	25 ^C	25 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-
Barium	µg/L	1000 ^B	1000 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-
Beryllium	µg/L	n/v	4 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Boron	µg/L	5000 ^C	5000 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 10	-	-	-	-	-
Cadmium	µg/L	5 ^B	2.1 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-
Calcium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 200	-	-	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	µg/L	50 ^B	50 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-
Cobalt	µg/L	n/v	3.8 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Copper	µg/L	1000 ^D	69 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-
See notes on last page																				
Metals (Contd.)																				
Iron	µg/L	300 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	< 100	-	-	-	-	-
Lead	µg/L	10 ^C	10 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Magnesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 50	-	-	-	-	-
Manganese	µg/L	50 ^D	n/v	-	-	-	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-
Mercury	µg/L	1 ^B	0.1 ^G 0.29 ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Nickel	µg/L	n/v	100 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-
Phosphorus	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 100	-	-	-	-	-
Potassium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 200	-	-	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	10 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 2	-	-	-	-	-
Silicon	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 50	-	-	-	-	-
Silver	µg/L	n/v	1.2 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-
Sodium	µg/L	200000 ^D 20000 ^F	490000 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 100	-	-	-	-	-
Strontium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-
Thallium	µg/L	n/v	2 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.05	-	-	-	-	-
Titanium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-
Uranium	µg/L	20 ^B	20 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-
Vanadium	µg/L	n/v	6.2 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 0.5	-	-	-	-	-
Zinc	µg/L	5000 ^D	890 ^{GH}	-	-	-	-	-	-	-	-	-	-	-	< 5	-	-	-	-	-
Zirconium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-	-	-
Polychlorinated Biphenyls																				
Aroclor 1242	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^C	0.2 ₁₄ ^C 0.2 ₁₄ ^H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	FIELD BLANK										TRIP BLANK					
					20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14	10-Apr-15	20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15
Sample ID					WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126-RD06	FILTERED BLANK	WG-160900764-20141126-RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020
Sampling Company					STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory					MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order					B4M0745	B4M0745	B4M069	B4M069	B4M069	B4M5208	B4M5208	B4M5208	B4O2426	B4O2426	B4O2825	B563828	B4M0745	B4M5208	B4M5208	B5K5143
Laboratory Sample ID					YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971	YY7645	YY7646	YY9891	ABZ564	YO3566	YQ4972	YQ4973	BCZ976
Filtered					-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	-	-	-	-	-
Sample Type					Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
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}	<0.05	<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	3.2,3,3 ^{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	3 ^{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	3 ^{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}	<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	-	-
See notes on last page																				
Semi - Volatile Organic Compounds (Contd.)																				
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	5,13 ^{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	-	<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	-	<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	1.2	<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	n/v	5 ^B 2 ^D	<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	-	-

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

Sample Location	Sample Date	Units	ODWQS	Ontario SCS	FIELD BLANK										TRIP BLANK				
					20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14	10-Apr-15	20-Nov-14	27-Nov-14	27-Nov-14
Sample ID				WG-160900764-20141120-CD05	FILTERED BLANK	WG-160900764-20141126-RD06	FILTERED BLANK	WG-160900764-20141126-RD06A	FILTERED BLANK	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02	FIELD BLANK	TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F18B-15-3020
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M0745	B4M069	B4M069	B4M069	B4M5208	B4M5208	B4M5208	B4O2426	B4O2426	B4O2825	B563828	B4M0745	B4M5208	B4M5208	B5K5143
Laboratory Sample ID				YO3448	YO3766	YP9579	YP9675	YP9580	YQ5179	YQ4970	YQ4971	YY7645	YY7646	YY9891	ABZ564	YO3566	YQ4972	YQ4973	BCZ976
Filtered				-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	Lab Filtered	-	-	-	-	-	-
Sample Type				Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Volatile Organic Compounds																			
Acetone	µg/L	n/v	2700 ^{GH}	< 10	-	-	-	-	-	< 10	-	-	-	-	<10	< 10	-	< 10	-
Bromodichloromethane	µg/L	n/v	16 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5 ^G 25 ^H	< 1.0	-	-	-	-	-	< 1.0	-	-	-	-	< 1	< 1.0	-	< 1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	0.2 ^G 0.79 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80 ^B 30 ^D	30 ^{GH}	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2 ^G 2.4 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Dibromochloromethane	µg/L	n/v	25 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichlorobenzene, 1,2-	µg/L	200 ^B 3 ^D	3 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichlorobenzene, 1,4-	µg/L	5 ^B 1 ^F ^D	0.5 ^G 1 ^H	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590 ^{GH}	< 1.0	-	-	-	-	-	< 1.0	-	-	-	-	< 1	< 1.0	-	< 1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5 ^{GH}	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Dichloroethane, 1,2-	µg/L	5 ^C	0.5 ^G 1.6 ^H	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichloroethene, 1,1-	µg/L	14 ^B	0.5 ^G 1.6 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58 ^G 5 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5 ^G 0.5 ^H 1 ^H	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	1 ^{GH}	< 0.30	-	-	-	-	-	< 0.30	-	-	-	-	< 0.3	< 0.30	-	< 0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	1 ^{GH}	< 0.40	-	-	-	-	-	< 0.40	-	-	-	-	< 0.4	< 0.40	-	< 0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2 ^{GH}	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Hexane (n-Hexane)	µg/L	n/v	5 ^G 51 ^H	< 1.0	-	-	-	-	-	< 1.0	-	-	-	-	< 1	< 1.0	-	< 1.0	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	1800 ^{GH}	< 10	-	-	-	-	-	< 10	-	-	-	-	< 10	< 10	-	< 10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640 ^{GH}	< 5.0	-	-	-	-	-	< 5.0	-	-	-	-	< 5	< 5.0	-	< 5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50 ^B	26 ^G 50 ^H	< 2.0	-	-	-	-	-	< 2.0	-	-	-	-	< 2	< 2.0	-	< 2.0	-
Styrene	µg/L	n/v	5.4 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5 ^G 1 ^H	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Tetrachloroethene (PCE)	µg/L	30 ^B	0.5 ^G 1.6 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23 ^G 200 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5 ^G 4.7 ^H	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Trichloroethene (TCE)	µg/L	5 ^B	0.5 ^G 1.6 ^H	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150 ^{GH}	< 0.50	-	-	-	-	-	< 0.50	-	-	-	-	< 0.5	< 0.50	-	< 0.50	-
Vinyl chloride	µg/L	2 ^B	0.5 ^{GH}	< 0.20	-	-	-	-	-	< 0.20	-	-	-	-	< 0.2	< 0.20	-	< 0.20	-

See notes on last page

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

Notes:

ODWQS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006)
A	ODWQS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWQS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWQS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWQS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWQS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWQS Table 4 - Medical Officer of Health Reporting Limit
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I 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 ODWQS
6.5^A	Concentration exceeds the indicated standard.
15.2	Measured concentration was less than the applicable standard.
< 0.50	Laboratory reportable detection limit was greater than the applicable standard.
< 0.03	Analyte was not detected at a concentration greater than the laboratory reportable detection 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).
f	Refer to ODWQS Table 2 for health related standard
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.
n/a	Not applicable.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
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.
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.
s7	Standard is applicable to PHC in the F1 range minus BTEX.
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.
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.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
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.
s14	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
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		Shallow Well					Shallow Well			
			21-Aug-14	7-Oct-14	10-Apr-15	5-Oct-15	28-Oct-15	21-Aug-14	6-Oct-14	21-Apr-15	6-Oct-15
Sample ID			WG-160900764-20140821-HB-03	WG-160900764-20141007-AD10	WG-160900764-20150410-AD06	WG-160900764-20151005-JK1	WG-160900764-20151028-JK1	WG-160900764-20140821-HB-05	WG-160900764-20141006-AD05	WG-160900764-20150421-JK13	WG-160900764-20151016JK12
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I7101	B543627	B5K2703	B5M1891	B4F2239	B4I6091	B5I71211	B5K3284
Laboratory Sample ID			XF8148	XX2937	ABY874	BCM866	BGI094	XF8149	XW7259	ADJ095	BCP440
Filtered	Units	ODWQS	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
Acenaphthylene	µg/L	n/v	<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
Benzo[a]anthracene	µg/L	n/v	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	µg/L	0.01 ⁸	<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
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
Benzo[k]fluoranthene	µg/L	n/v	<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
Bis[2-Chloroethoxy]ether	µg/L	n/v	<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
Bis[2-Ethylhexyl]phthalate (DEHP)	µg/L	n/v	<1	<1	<1	-	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900 ⁹ 0.3 ⁹	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60 ⁹ 30 ⁹	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	n/v	<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
Benzene	µg/L	5 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	n/v	<0.50	3.6	<0.5	<0.50	-	<0.50	1.5	<0.50	<0.50
Bromoform (tribromomethane)	µg/L	n/v	<1.0	2.1	<1	<1.0	-	<1.0	15	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride (tetrachloromethane)	µg/L	5 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ⁹ 30 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chloroform (trichloromethane)	µg/L	n/v	<0.20	4.2	<0.2	<0.20	-	<0.20	0.54	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	4.8	<0.5	<0.50	-	<0.50	5.1	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 ⁹ 3 ⁹	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ⁸ 1 ⁹	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ^c	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1,1-	µg/L	14 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloroethane, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Dichloropropane, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	-	<0.30	<0.30	<0.30	<0.30
Dichloropropane, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	-	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	µg/L	2.4 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK)	µg/L	n/v	<10	<10	<10	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5	<5.0	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 ⁸	<2.0	<2.0	<2	<2.0	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100 ⁸	<0.20	14.7	<1	<0.20	-	<0.20	22.14	<1.0	<0.20
Vinyl chloride	µg/L	2 ⁸	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300 ⁹	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

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

Aquifer Unit	Sample Date	Units	ODWQS	Deep Well				Deep Well				Deep Well				
				31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	31-Jul-14	6-Oct-14	12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15	10-Mar-15	8-Apr-15	6-Oct-15
Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20140731-JK6	WG-160900764-20141006-AD01	WG-160900764-20141112-AD11	WG-160900764-20141112-AD11 FILTERED	WG-160900764-20150210-AD01	WG-160900764-20150224-AD01	WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-20151016-JK15
Water Type	Water Type	Water Type	Water Type	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Outside (Driveway)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)
Sample Tap	Sample Tap	Sample Tap	Sample Tap	None	None	None	None	Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	None
Treatment Type	Treatment Type	Treatment Type	Treatment Type	None	None	None	None	Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	None
Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B4D8040	B4B196	B567144	B5K2703	B4D8040	B4B196	B4L3740	B4L3740	B523924	B532599	B541661	B561586	B5K3284
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	WY7359	XX8291	ACQ220	BCM870	WY7360	XW7255	YK9094	YK9158	ZM1389	ZQ1897	ZU7235	ABP511	BCP443
Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Lab Filtered Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry																
Acidity	mg/L	n/v		<10	<10	<10	<10	<10	<10	<10	-	-	-	-	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v		180	190	200	180	140	150	140	-	-	-	-	140	140
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v		2.0	1.7	<1	<1.0	1.9	2.1	2.0	-	-	-	-	1.5	<1.0
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^f		180	190	200	180	140	150	140	-	140	140	140	140	140
Ammonia (as N)	mg/L	n/v		0.11	0.11	0.41	0.12	0.25	0.29	0.35	-	-	-	-	0.24	0.27
Anion Sum	meq/L	n/v		3.96	4.02	4.29	3.97	3.13	3.50	3.15	-	-	-	-	3.19	3.21
Cation Sum	meq/L	n/v		4.23	3.97	3.91	4.18	3.03	3.39	3.16	-	-	-	-	3.12	3.33
Chloride	mg/L	250 ^d		2	2	2	1.9	2	3	2	-	2	2	2	2	2.5
Cyanide (Free)	µg/L	200 ^d		<2	<2	<2	<2	<2	<2	<2	-	-	-	-	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5 ^d		0.69	0.75	0.58	0.72	0.69	0.74	0.86	-	-	-	-	0.63	0.74
Electrical Conductivity, Lab	µmhos/cm	n/v		370	370	370	360	290	320	300	-	300	300	290	300	290
Fluoride	mg/L	1.5 ^h		0.15	0.14	0.16	0.15	0.21	0.20	0.22	-	-	-	-	0.24	0.21
Hardness (as CaCO3)	mg/L	80-100 ^f		190 ^e	180 ^e	180 ^e	190 ^e	120 ^e	140 ^e	120 ^e	-	-	-	-	120 ^e	130 ^e
Ion Balance	%	n/v		3.25	0.650	4.55	2.58	1.56	1.65	0.0300	-	-	-	-	1.13	1.77
Langelier Index (at 20 C)	none	n/v		0.652	0.537	0.259	0.317	0.280	0.427	0.299	-	-	-	-	0.193	0.00400
Langelier Index (at 4 C)	none	n/v		0.403	0.287	0.00800	0.0670	0.0300	0.177	0.0490	-	-	-	-	-0.0580	-0.246
Nitrate (as N)	mg/L	10.0 ^g		<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	-	-	-	-	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0 ^g		<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	-	-	-	-	<0.10	<0.10
Nitrite (as N)	mg/L	1.0 ^g		<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	-	-	-	-	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v		<0.010	<0.010	<0.01	<0.010	0.012	0.014	0.012	-	0.015	0.015	0.015	0.016	0.011
pH	S.U.	6.5-8.5 ^d		8.07	7.99	7.68	7.75	8.15	8.18	8.17	-	8.10	8.14	8.11	8.05	7.85
Saturation pH (at 20 C)	none	n/v		7.42	7.45	7.43	7.43	7.87	7.75	7.87	-	-	-	-	7.86	7.84
Saturation pH (at 4 C)	none	n/v		7.66	7.70	7.68	7.68	8.12	8.00	8.12	-	-	-	-	8.11	8.09
Sulfate	mg/L	500 ^d		11	10	12	11	10	18	11	-	13	13	12	12	12
Total Dissolved Solids	mg/L	500 ^d		224	212	210	216	162	144	156	-	-	-	-	140	154
Total Organic Carbon	mg/L	n/v		0.85	0.79	0.77	0.69	0.73	0.67	0.82	-	-	-	-	0.58	0.65
Total Suspended Solids	mg/L	n/v		72	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5 ^b		31 ^a	11 ^a	4.0	8.1 ^b	1.2	1.3	1.1	-	5.6 ^b	1.2	1.2	1.6	1.7
Microbiological Analysis																
Escherichia coli (E.Coli)	cfu/100ml	0 ^a		-	0	0	0	-	0	0	-	-	-	-	0	0
Total Coliform Background	cfu/100ml	n/v		-	0	0	0	-	0	0	-	-	-	-	0	31
Total Coliforms	cfu/100ml	0 ^a		-	0	0	0	-	0	0	-	-	-	-	0	0
Metals																
Aluminum	µg/L	100 ^d		23	18	<5	5.2	<5.0	<5.0	<5.0	-	-	-	-	<5	<5
Antimony	µg/L	6 ^c		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	-	-	-	<0.5	<0.5
Arsenic	µg/L	25 ^c		<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	-	-	-	-	<1	<1
Barium	µg/L	1000 ^d		170	180	180	180	95	120	94	-	-	-	-	100	96
Beryllium	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	-	-	-	<0.5	<0.5
Boron	µg/L	5000 ^d		21	19	20	19	48	36	43	-	-	-	-	45	36
Cadmium	µg/L	5 ^d		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	-	-	-	-	<0.1	<0.1
Calcium	µg/L	n/v		52000	47000	46000	50000	22000	27000	22000	-	-	-	-	22000	23000
Chromium (Hexavalent)	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Chromium (Total)	µg/L	50 ^d		<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	-	-	-	-	<5	<5
Cobalt	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	-	-	-	<0.5	<0.5
Copper	µg/L	1000 ^d		1.9	<1.0	17	<1	1.1	<1.0	<1.0	-	-	-	-	1.9	3
Iron	µg/L	300 ^d		<100	1200 ^b	880 ^b	1600 ^b	<100	300	290	-	-	-	-	550 ^b	440 ^b
Lead	µg/L	10 ^h		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	-	-	-	<0.5	<0.5
Magnesium	µg/L	n/v		16000	16000	15000	16000	15000	17000	17000	-	-	-	-	16000	18000
Manganese	µg/L	50 ^d		21	18	15	24	7.1	8.0	8.4	-	-	-	-	8.3	9
Mercury	µg/L	1 ^b		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	-	-	-	-	<0.1	<0.1
Molybdenum	µg/L	n/v		0.71	0.79	0.8	0.7	0.72	0.81	1.1	-	-	-	-	0.7	0.72
Nickel	µg/L	n/v		<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	-	-	-	-	<1	<1
Phosphorus	µg/L	n/v		<100	<100	<100	<100	<100	<100	<100	-	-	-	-	<100	<100
Potassium	µg/L	n/v		1100	1000	1000	1100	520	540	510	-	-	-	-	540	560
Selenium	µg/L	10 ^d		<2.0	<2.0	<2	<2	<2.0	<2.0	<2.0	-	-	-	-	<2	<2
Silicon	µg/L	n/v		12000	12000	11000	12000	8600	8000	7800	-	-	-	-	7700	8300
Silver	µg/L	n/v		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	-	-	-	-	<0.1	<0.1
Sodium	µg/L	200000 ^d 20000 ^b		7100	6300	6400	6700	14000	14000	14000	-	-	-	-	14000	15000
Strontium	µg/L	n/v		260	250	250	260	330	380	350	-	-	-	-	360	360
Thallium	µg/L	n/v		<0.050	<0.050	<0.05	<0.05	<0.050	<0.050	<0.050	-	-	-	-	<0.05	<0.05
Titanium	µg/L	n/v		<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	-	-	-	-	<5	<5
Uranium	µg/L	20 ^d		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	-	-	-	-	<0.1	<0.1
Vanadium	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	0.88	-	-	-	-	<0.5	<0.5
Zinc	µg/L	5000 ^d		<5.0	<5.0	5.6	<5	<5.0	<5.0	<5.0	-	-	-	-	<5	6.4
Zirconium	µg/L	n/v		4.1	<1.0	<1	<1	<1.0	<1.0	<1.0	-	-	-	-	<1	<1
BTEX and Petroleum Hydrocarbons																
Benzene	µg/L	5 ^d		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Toluene	µg/L	24 ^d														

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

Aquifer Unit	Sample Date	Units	ODWQS	Deep Well				Deep Well								
				31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	31-Jul-14	6-Oct-14	12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15	10-Mar-15	8-Apr-15	6-Oct-15
Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20140731-JK6	WG-160900764-20141006-AD01	WG-160900764-20141112-AD11	WG-160900764-20150210-AD01	WG-160900764-20150224-AD01	WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-2015106-JK15	
Water Type	Water Type	Water Type	Water Type	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Outside (Driveway)	Raw Outside (Driveway)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)	
Sample Tap	Sample Tap	Sample Tap	Sample Tap	None	None	None	None	Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	
Treatment Type	Treatment Type	Treatment Type	Treatment Type	None	None	None	None	Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None	None	None	
Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B4D8040	B4B196	B567144	B5K2703	B4D8040	B4B196	B4L3740	B4L3740	B523924	B523924	B541661	B5K3284	
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	WY7359	XX8291	ACQ220	BCM870	WY7360	XW7255	YK9094	YK9158	ZM1389	ZM1389	ZU7235	BCP443	
Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Lab Filtered Metals	Total Metals	Total Metals Lab Filtered SVOC	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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01 ⁸		<0.01	<0.01	<0.01	<0.01	0.03 ⁸	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050	<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	-	-	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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 ⁸ 0.3 ⁹		<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	0.3	0.3	-	-	-	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.071	<0.071	<0.071	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<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	<0.050	<0.050	<0.050	<0.2	<0.2
Pentachlorophenol	µg/L	60 ⁸ 30 ⁹		<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	<0.030	<0.030	<0.030	<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	0.04	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050	<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 ⁸ 2 ⁹		<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
Benzene	µg/L	5 ⁸		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Bromodichloromethane	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Bromoform (tribromomethane)	µg/L	n/v		<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	-	-	-	-	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ⁸		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ⁸ 30 ⁹		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Dibromochloromethane	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200 ⁸ 3 ⁹		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ⁸ 1 ⁹		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v		<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0	-	-	-	-	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ⁸		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14 ⁸		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	-	-	-	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	-	-	-	-	<0.20	<0.20
Dichloropropane, 1,3- (sum of isomers cis + trans)	µg/L															

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

Aquifer Unit	Sample Date	Units	ODWQS	Deep Well						Deep Well						
				1-Aug-14	7-Oct-14	11-Nov-14	11-Nov-14	15-Apr-15	7-Oct-15	5-Aug-14	6-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	28-Oct-15
Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20140801-JK10	WG-160900764-20141007-AD13	WG-160900764-20141111-AD07	WG-160900764-20141111-AD08	WG-160900764-20150415-JK6	WG-160900764-20151007-JK19	WG-160900764-20140805-JK13	WG-160900764-20141006-AD07	WG-160900764-20141112-AD14	WG-160900764-20141112-AD14 FILTERED	WG-160900764-20150415-JK3	WG-160900764-20151005-JK2	WG-160900764-20151028-JK2
Water Type	Water Type	Water Type	Water Type	Treated Outside (Back house)	Raw Inside (Basement)	Treated Outside (Back house)	Raw Inside (Basement)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)
Sample Tap	Sample Tap	Sample Tap	Sample Tap	Back house	Basement	Back house	Basement	Back house	Back house	Back house	Back house	Back house	Back house	Back house	Back house	Back house
Treatment Type	Treatment Type	Treatment Type	Treatment Type	Softener	None	Softener	None	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B4D8040	B4I7101	B4L2726	B4L2726	B567144	B5K5099	B4D9335	B4I6091	B4L3740	B4L3740	B567144	B5K2703	B5M1891
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	WY7344	XX2940	YK4127	YK4128	ACQ224	BCI2442	WZ3802	XW7261	YK9097	YK9161	ACQ221	BCM867	BGI095
Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals	-
General Chemistry																
Acidity	mg/L	n/v		<10	<10	<10	13	<10	<10	<10	<10	<10	-	<10	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v		200	200	200	200	200	200	120	120	120	-	130	130	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v		3.5	2.2	2.9	2.1	2.3	1.4	1.4	1.9	1.8	-	<1	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^f		200	210	200	200	200	200	120	120	130	-	130	130	-
Ammonia (as N)	mg/L	n/v		<0.050	<0.050	0.052	0.11	<0.05	<0.050	0.12	0.11	0.095	-	0.13	0.30	-
Anion Sum	meq/L	n/v		5.41	5.71	5.58	5.80	5.37	5.47	3.17	3.25	3.24	-	3.30	3.35	-
Cation Sum	meq/L	n/v		5.18	5.74	5.89	5.86	5.08	5.75	3.16	3.10	3.30	-	3.23	3.25	-
Chloride	mg/L	250 ^f		12	12	13	13	12	13	2	2	2	-	1	1.6	-
Cyanide (Free)	µg/L	200 ^f		<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5 ^f		0.60	0.65	0.62	0.63	0.48	0.63	0.48	0.70	0.62	-	0.48	0.65	-
Electrical Conductivity, Lab	µmhos/cm	n/v		560	530	560	530	530	520	300	310	310	-	300	300	-
Fluoride	mg/L	1.5 ^h		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.35	0.36	0.37	-	0.39	0.38	-
Hardness (as CaCO3)	mg/L	80-100 ^f		<1.0 ^f	270 ^f	<1.0 ^f	280 ^f	<1.0 ^f	260 ^f	87	88	92	-	89	89	-
Ion Balance	%	n/v		2.23	0.250	2.71	0.510	2.81	2.50	0.170	2.30	0.920	-	1.06	1.54	-
Langelier Index (at 20 C)	none	n/v		<0	0.835	<0	0.807	NC	0.626	0.0200	0.157	0.154	-	-0.514	-0.374	-
Langelier Index (at 4 C)	none	n/v		<0	0.586	<0	0.558	NC	0.377	-0.230	-0.0930	-0.0960	-	-0.764	-0.624	-
Nitrate (as N)	mg/L	10.0 ^h		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0 ^h		<0.10	<0.10	<0.010	<0.010	<0.10	<0.10	<0.10	<0.010	<0.010	-	<0.10	<0.10	-
Nitrite (as N)	mg/L	1.0 ^h		<0.010	<0.010	<0.010	<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	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	-
pH	S.U.	6.5-8.5 ^d		8.28	8.07	8.20	8.05	8.09	7.88	8.08	8.21	8.18	-	7.54	7.68	-
Saturation pH (at 20 C)	none	n/v		<0	7.23	<0	7.24	NC	7.25	8.06	8.05	8.03	-	8.05	8.05	-
Saturation pH (at 4 C)	none	n/v		<0	7.48	<0	7.49	NC	7.50	8.31	8.30	8.28	-	8.30	8.30	-
Sulfate	mg/L	500 ^g		52	59	58	69	48	55	32	33	32	-	33	34	-
Total Dissolved Solids	mg/L	500 ^g		320	332	346	336	308	298	166	160	160	-	166	176	-
Total Organic Carbon	mg/L	n/v		0.46	0.65	0.58	0.59	0.57	0.61	0.55	0.61	1.0	-	0.62	0.64	-
Total Suspended Solids	mg/L	n/v		<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	-
Turbidity, Lab	ntu	5 ^f		0.2	15 ^h	<0.2	0.8	2.7	32 ^h	1.5	1.0	0.5	-	<0.2	<0.2	-
Microbiological Analysis																
Escherichia coli (E.Coli)	cfu/100ml	0 ^a		-	0	0	0	0	0	-	0	0	-	0	0	-
Total Coliform Background	cfu/100ml	0 ^a		-	0	0	0	0	0	-	0	0	-	0	0	-
Total Coliforms	cfu/100ml	0 ^a		-	0	0	0	0	0	-	0	0	-	0	0	-
Metals																
Aluminum	µg/L	100 ^f		<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	5.2	<5.0	-	<5	6.9	-
Antimony	µg/L	6 ^c		<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	<0.5	<0.5	-
Arsenic	µg/L	25 ^c		<1.0	<1.0	<1.0	<1.0	<1	<1	2.8	2.9	2.9	-	3.1	2.7	-
Barium	µg/L	1000 ^d		<2.0	85	<2.0	85	<2	82	34	34	33	-	33	32	-
Beryllium	µg/L	n/v		<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	<0.5	<0.5	-
Boron	µg/L	5000 ^d		<10	<10	10	<10	<10	<10	78	70	76	-	74	75	-
Cadmium	µg/L	5 ^f		<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	-	<0.1	<0.1	-
Calcium	µg/L	n/v		<200	76000	<200	77000	<200	74000	17000	17000	18000	-	16000	17000	-
Chromium (Hexavalent)	µg/L	n/v		<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	-	<0.5	<0.50	-
Chromium (Total)	µg/L	50 ^h		<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	-	<5	<5	-
Cobalt	µg/L	n/v		<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	<0.5	<0.5	-
Copper	µg/L	1000 ^d		11	8.7	3.6	<1.0	160	2.8	3.0	<1.0	<1.0	-	<1.0	13	-
Iron	µg/L	300 ^g		<100	2200 ^g	<100	1800 ^g	150	2600 ^g	<100	<100	140	-	<100	<100	-
Lead	µg/L	10 ^h		<0.50	0.53	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	<0.5	<0.5	-
Magnesium	µg/L	n/v		<50	20000	<50	21000	<50	19000	11000	11000	12000	-	12000	12000	-
Manganese	µg/L	50 ^g		<2.0	35	<2.0	43	<2	63 ^h	9.6	9.1	11	-	9.4	12	-
Mercury	µg/L	1 ^h		<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	-	<0.1	<0.1	-
Molybdenum	µg/L	n/v		1.3	1.1	0.99	1.1	0.99	1	5.2	5.1	5.2	-	5.2	5.7	-
Nickel	µg/L	n/v		<1.0	<1.0	<1.0	2.8	<1	<1	1.6	<1.0	<1.0	-	<1	<1	-
Phosphorus	µg/L	n/v		<100	<100	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	-
Potassium	µg/L	n/v		2400	1100	<200	1200	<200	1100	870	800	800	-	850	800	-
Selenium	µg/L	10 ^h		<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0	<2.0	-	<2	<2	-
Silicon	µg/L	n/v		4800	5300	4900	5000	3800	4700	6700	6700	6300	-	5700	6600	-
Silver	µg/L	n/v		<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	-	<0.1	<0.1	-
Sodium	µg/L	200000 ^g 20000 ^h		120000 ^g	4700	140000 ^g	5000	120000 ^g	7900	32000 ^g	30000 ^g	33000 ^g	-	33000 ^g	33000 ^g	-
Strontium	µg/L	n/v		<1.0	240	<1.0	230	<1	220	360	380	370	-	390	360	-
Thallium	µg/L	n/v		<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050	<0.050	-	<0.05	<0.05	-
Titanium	µg/L	n/v		<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	-	<5	<5	-
Uranium	µg/L	20 ^h		<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	0.41	0.44	0.48	-	0.48	0.33	-
Vanadium	µg/L	n/v		<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	-	<0.5	<0.5	-
Zinc	µg/L	5000 ^g		24	7.											

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	Deep Well				Deep Well				Deep Well			
											5-Aug-14	7-Oct-14	11-Nov-14	15-Apr-15	7-Oct-15	20-Aug-14	7-Oct-14	21-Apr-15	7-Oct-15	20-Aug-14	8-Oct-14	8-Apr-15
Units	ODWQS	WG-160900764-20140805-JK15	WG-160900764-20141007-AD14	WG-160900764-20141111-AD04	WG-160900764-20150415-JK4	WG-160900764-20151007-JK21	WG-160900764-20140820-HB02	WG-160900764-20141007-AD08	WG-160900764-20150421-JK17	WG-160900764-20151007-JK17	WG-160900764-20140820-HB01	WG-160900764-20141008-AD17	WG-160900764-20150408-AD01	WG-160900764-20151016-JK16								
Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)								
Softener	Softener / UV	Softener / UV	None	None	None	None	None	None	None	None	None	None	None	None								
STANTEC	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	MAXX								
B4D9335	B47101	B4L2726	B567144	B5K5099	B4F1595	B4F1701	B4F1595	B4F1701	B571211	B5K5099	B4F1595	B4B196	B561586	B5K3284								
WZ3804	XX2941	YK4124	ACQ222	BC2444	XF4726	XX2935	XX2935	ADJ099	BC2440	XF4725	XX8288	ABF508	BCP444									
Units	ODWQS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Lab Filtered Metals	Total Metals	Total Metals	Total Metals								
General Chemistry																						
Acidity	mg/L	n/v	12	<10	16	13	12	14	<10	14	15	<10	<10	17	13							
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	220	210	220	230	210	210	210	210	190	200	200	200	210							
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	2.1	2.2	<1	1.3	2.7	2.2	1.8	1.2	2.3	1.8	1.7	1.4							
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^f	220	210	220	230	210	210	210	210	200	210	200	200	210							
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.050	0.086	<0.050	<0.050	0.18	0.13	0.12	0.12	0.20							
Anion Sum	meq/L	n/v	6.15	5.86	6.18	6.37	5.98	5.70	5.80	5.70	5.74	4.28	4.46	4.31	4.54							
Cation Sum	meq/L	n/v	6.13	5.62	6.39	5.79	6.20	5.84	5.75	5.70	6.00	4.17	4.46	4.26	4.68							
Chloride	mg/L	250 ^d	16	13	16	16	15	13	12	13	13	2	2	2	2.2							
Cyanide (Free)	µg/L	200 ^d	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2							
Dissolved Organic Carbon (DOC)	mg/L	5 ^d	0.46	0.69	0.65	0.58	0.71	0.46	0.79	1.1	0.74	0.90	1.4	1.1	1.2							
Electrical Conductivity, Lab	µmhos/cm	n/v	580	550	590	580	570	540	540	530	540	400	410	400	410							
Fluoride	mg/L	1.5 ^h	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	0.11	0.16	0.11							
Hardness (as CaCO3)	mg/L	80-100 ^f	300 ^e	260 ^e	300 ^e	260 ^e	290 ^e	280 ^e	270 ^e	270 ^e	290 ^e	200 ^e	210 ^e	200 ^e	220 ^e							
Ion Balance	%	n/v	0.180	2.09	1.70	4.78	1.81	1.24	0.460	0.0500	2.25	1.33	0.0100	0.530	1.53							
Langelier Index (at 20 C)	none	n/v	0.848	0.817	0.886	0.481	0.660	0.931	0.822	0.728	0.598	0.737	0.653	0.586	0.557							
Langelier Index (at 4 C)	none	n/v	0.599	0.568	0.637	0.232	0.411	0.682	0.573	0.479	0.349	0.487	0.403	0.337	0.308							
Nitrate (as N)	mg/L	10.0 ^g	8.93	6.06	9.35	9.62	8.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10							
Nitrate + Nitrite (as N)	mg/L	10.0 ^g	8.93	6.06	9.35	9.62	8.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10							
Nitrite (as N)	mg/L	1.0 ^g	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.045	<0.010							
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012							
pH	S.U.	6.5-8.5 ^d	7.99	8.03	8.03	7.66	7.82	8.14	8.03	7.95	7.78	8.11	7.98	7.95	7.86							
Saturation pH (at 20 C)	none	n/v	7.14	7.21	7.14	7.18	7.16	7.21	7.21	7.22	7.19	7.37	7.32	7.37	7.30							
Saturation pH (at 4 C)	none	n/v	7.39	7.46	7.39	7.42	7.41	7.46	7.46	7.47	7.44	7.62	7.57	7.62	7.55							
Sulfate	mg/L	500 ^d	34	37	33	34	34	53	58	53	54	13	13	13	14							
Total Dissolved Solids	mg/L	500 ^d	340	322	352	334	316	324	312	304	290	234	222	256	230							
Total Organic Carbon	mg/L	n/v	0.60	0.68	0.72	0.65	0.64	0.81	0.86	0.67	0.71	1.4	1.3	1.1	1.2							
Total Suspended Solids	mg/L	n/v	12	<10	<10	<10	<10	30	16	<10	<10	<10	<10	<10	<10							
Turbidity, Lab	ntu	5 ^f	1.5	<0.2	0.6	<0.2	0.7	18 ^b	18 ^b	19 ^b	20 ^b	4.9	20 ^b	17 ^b	9.7 ^b							
Microbiological Analysis																						
Escherichia coli (E.Coli)	cfu/100ml	0 ^a	-	0	0	0	0	0	0	0	0	0	0	0	NDOGN ^a							
Total Coliform Background	cfu/100ml	n/v	-	620	42	2	16	92	36	8	15	> 2000	> 2000	1800	NDOGN ^a							
Total Coliforms	cfu/100ml	0 ^a	-	0	0	0	0	3 ^a	22 ^a	0	0	24	80 ^a	0	NDOGN ^a							
Metals																						
Aluminum	µg/L	100 ^d	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5							
Antimony	µg/L	6 ^c	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	0.55	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5							
Arsenic	µg/L	25 ^c	<1.0	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1	<1							
Barium	µg/L	1000 ^d	52	47	54	47	54	40	45	41	45	150	180	170	170							
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5							
Boron	µg/L	5000 ^d	<10	11	<10	<10	<10	<10	<10	<10	<10	19	13	18	<10							
Cadmium	µg/L	5 ^d	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1							
Calcium	µg/L	n/v	90000	76000	89000	79000	86000	78000	76000	75000	80000	54000	57000	55000	60000							
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50							
Chromium (Total)	µg/L	50 ^d	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5							
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5							
Copper	µg/L	1000 ^d	6.4	6.9	6.4	8.1	11	<1.0	<1.0	1.5	<1	2.1	4.0	2	4.8							
Iron	µg/L	300 ^d	<100	<100	270	<100	660 ^b	<100	1800 ^b	1500 ^b	1600 ^b	<100	2700 ^b	2200 ^b	1600 ^b							
Lead	µg/L	10 ^h	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5							
Magnesium	µg/L	n/v	17000	17000	18000	16000	18000	21000	21000	21000	21000	15000	15000	14000	17000							
Manganese	µg/L	50 ^d	<2.0	<2.0	4.0	<2	26	24	27	22	26	15	25	24	21							
Mercury	µg/L	1 ^b	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1							
Molybdenum	µg/L	n/v	<0.50	0.51	<0.50	<0.5	<0.5	3.4	2.9	3.2	3	0.63	<0.50	0.63	0.57							
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1	<1							
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100							
Potassium	µg/L	n/v	970	860	920	830	890	1100	1000	1000	1100	890	990	940	1100							
Selenium	µg/L	10 ^g	<2.0	<2.0	<2.0	<2	<2	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2	<2							
Silicon	µg/L	n/v	6900	4600	7500	6000	6700	5800	5700	5500	5600	11000	12000	10000	12000							
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.1	<0.1							
Sodium	µg/L	200000 ^d 20000 ^g	4300	9700	9600	12000	9000	4300	4000	4300	4400	5200	5000	5200	5100							
Strontium	µg/L	n/v	220	210	220	210	220	270	270	270	270	220	230	220	230							
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.05	<0.05							
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5	<5							
Uranium	µg/L	20 ^g	0.77	0.67	0.80	0.79	0.78	0.76	0.75	0.74	0.76	<0.10	<0.10	<0.1	<0.1							
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.5	<0.5							
Zinc																						

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

Aquifer Unit	Sample Date	Units	ODWQS	Deep Well				Deep Well			
				20-Aug-14	7-Oct-14	16-Apr-15	6-Oct-15	22-Sep-14	8-Oct-14	8-Apr-15	5-Oct-15
Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20140820-HB04	WG-160900764-20141007-AD12	WG-160900764-20150416-JK10	WG-160900764-2015106-JK10	WG-160900764-20140922-JK02	WG-160900764-20141008-AD21	WG-160900764-20150408-AD02	WG-160900764-20151005-JK4
Water Type	Water Type	Water Type	Water Type	Raw Inside (Basement)	Raw Inside (Basement)	Raw Inside (Basement)	Raw Inside (Basement)	Treated Inside (Kilchen)	Treated Inside (Kilchen)	Raw Inside (Kilchen)	Raw Inside (Kilchen)
Sample Tap	Sample Tap	Sample Tap	Sample Tap	Basement	Basement	Basement	Basement	Kilchen	Kilchen	Kilchen	Kilchen
Treatment Type	Treatment Type	Treatment Type	Treatment Type	None	None	None	None	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter
Sampling Company	Sampling Company	Sampling Company	Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	Laboratory	Laboratory	Laboratory	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	B4F1595	B47101	B567840	B5K3284	B4H5247	B4B196	B541586	B5K2703
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	XF4727	XX2939	ACT455	BCP438	XR1307	XX8292	ABP509	BCM869
Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v		10	<10	11	<10	<10	<10	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v		190	200	210	190	150	160	150	160
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v		2.8	2.4	<1	1.2	1.7	1.7	1.7	<1.0
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^f		200	200	210	200	150	160	150	160
Ammonia (as N)	mg/L	n/v		0.23	0.099	0.36	0.33	0.16	0.13	0.13	0.11
Anion Sum	meq/L	n/v		4.37	4.40	4.68	4.34	3.14	3.37	3.26	3.39
Cation Sum	meq/L	n/v		4.38	4.43	4.50	4.67	3.51	3.29	3.26	3.52
Chloride	mg/L	250 ^f		2	2	2	2.3	1	<1	<1	1.2
Cyanide (Free)	µg/L	200 ^f		<2	<2	<2	<2	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5 ^d		1.0	1.4	1.4	1.4	1.1	0.67	0.57	0.55
Electrical Conductivity, Lab	µmhos/cm	n/v		410	410	400	400	290	310	310	300
Fluoride	mg/L	1.5 ^h		<0.10	<0.10	0.11	<0.10	0.25	0.24	0.28	0.26
Hardness (as CaCO3)	mg/L	80-100 ^f		210^f	210^f	210^f	220^f	130^f	130^f	130^f	150^f
Ion Balance	%	n/v		0.140	0.330	1.93	3.66	5.51	1.16	0.0400	1.98
Langelier Index (at 20 C)	none	n/v		0.853	0.755	0.0770	0.479	0.364	0.358	0.328	0.0840
Langelier Index (at 4 C)	none	n/v		0.603	0.506	-0.173	0.230	0.113	0.107	0.0780	-0.166
Nitrate (as N)	mg/L	10.0 ^g		<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0 ^g		<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0 ^g		<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v		<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5 ^d		8.19	8.10	7.38	7.81	8.10	8.06	8.06	7.77
Saturation pH (at 20 C)	none	n/v		7.34	7.35	7.30	7.33	7.73	7.71	7.74	7.69
Saturation pH (at 4 C)	none	n/v		7.59	7.60	7.55	7.58	7.98	7.96	7.99	7.94
Sulfate	mg/L	500 ^d		18	17	15	18	6	9	8	9.8
Total Dissolved Solids	mg/L	500 ^d		216	246	216	228	126	174	198	198
Total Organic Carbon	mg/L	n/v		1.5	1.5	1.4	1.3	1.1	0.65	0.51	0.58
Total Suspended Solids	mg/L	n/v		33	<10	<10	<10	27	<10	<10	<10
Turbidity, Lab	ntu	5 ^d f		84^d	11^d	7.6^d	7.0^d	31^d	7.6^d	2.9	<0.2
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100ml	0 ^a		0	0	0	0	0	0	0	0
Total Coliform Background	cfu/100ml	n/v		46	46	0	29	3	16	0	10
Total Coliforms	cfu/100ml	0 ^a		0	0	0	0	0	0	0	1^a
Metals											
Aluminum	µg/L	100 ^f		<5.0	6.3	<5	<5	16	<5.0	<5	<5
Antimony	µg/L	6 ^c		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Arsenic	µg/L	25 ^c		<1.0	<1.0	<1	<1	1.5	1.5	1.8	1.6
Barium	µg/L	1000 ^d		100	140	150	140	99	120	110	120
Beryllium	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Boron	µg/L	5000 ^d		13	12	15	<10	38	43	42	37
Cadmium	µg/L	5 ^h		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Calcium	µg/L	n/v		57000	57000	57000	60000	28000	30000	29000	32000
Chromium (Hexavalent)	µg/L	n/v		<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (Total)	µg/L	50 ^h		<5.0	<5.0	<5	<5	<5.0	<5.0	<5	<5
Cobalt	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Copper	µg/L	1000 ^d		<1.0	<1.0	<1	<1	<1.0	<1.0	<1	<1
Iron	µg/L	300 ^d		<100	2100^d	1900^d	1700^d	7700^d	880^d	590^d	<100
Lead	µg/L	10 ^g		<0.50	<0.5	<0.5	0.95	<0.50	<0.50	<0.5	<0.5
Magnesium	µg/L	n/v		16000	16000	16000	17000	14000	15000	15000	16000
Manganese	µg/L	50 ^d		24	37	50	30	96^d	40	56^d	29
Mercury	µg/L	1 ^h		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v		0.98	0.63	0.84	0.8	<0.50	1.1	1	1.6
Nickel	µg/L	n/v		<1.0	<1.0	<1	<1	1.2	<1.0	<1	<1
Phosphorus	µg/L	n/v		<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v		870	890	950	970	840	810	840	880
Selenium	µg/L	10 ^h		<2.0	<2.0	<2	<2	<2.0	<2.0	<2	<2
Silicon	µg/L	n/v		9100	9900	9300	10000	9200	11000	9800	11000
Silver	µg/L	n/v		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Sodium	µg/L	200000 ^d 20000 ^g		4500	4300	4600	4600	14000	13000	12000	14000
Strontium	µg/L	n/v		220	240	230	230	310	320	320	330
Thallium	µg/L	n/v		<0.050	<0.050	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05
Titanium	µg/L	n/v		<5.0	<5.0	<5	<5	<5.0	<5.0	<5	<5
Uranium	µg/L	20 ^h		<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1
Vanadium	µg/L	n/v		<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.5	<0.5
Zinc	µg/L	5000 ^d		<5.0	67	<5	<5	<5.0	<5.0	<5	<5
Zirconium	µg/L	n/v		<1.0	<1.0	<1	<1	<1.0	<1.0	<1	<1
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5 ^h		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24 ^h		<0.20	<0.20	3.0	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4 ^h		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300 ^h		<0.20	<0.20	<0.2	0.31	<0.20	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300 ^h		<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300 ^h		<0.20	<0.20	<0.2	0.31	<0.20	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v		<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (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 nC50	none	n/v		YES	YES	YES	YES	YES	YES	YES	YES
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3 ^c		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

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	Other/Unconfirmed				Other/Unconfirmed					
											31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15	
											WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6	
											Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	
											Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	None	None	None	None	None	
											STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
											MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
											B4D8040	B4I6091	B567144	B5K5292	B4D8040	B4I8196	B4I2726	B561586	B5K2703	
											WY7356	XW7258	ACQ225	BDB101	WY7358	XX8294	YK4122	ABP510	BCM871	
											Units	ODWQS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	
General Chemistry																				
Acidity	mg/L	n/v	22	25	27	45	20	12	36	23	42									
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	300	310	300	300	310	320	320	300									
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.8	1.1	1.1	2.1	1.8	2.1	1.7	1.1									
Alkalinity, Total (as CaCO3)	mg/L	30-500 ^F	290	300	310	300	300	310	320	320	300									
Ammonia (as N)	mg/L	n/v	<0.050	0.099	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050									
Anion Sum	meq/L	n/v	8.88	9.17	9.52	9.14	8.18	8.45	8.48	8.10	8.27									
Cation Sum	meq/L	n/v	9.04	9.08	8.94	9.59	8.28	8.48	8.71	7.97	8.54									
Chloride	mg/L	250 ^F	75	81	86	78	17	21	21	14	20									
Cyanide (Free)	µg/L	200 ^F	<2	<2	<2	<2	<2	<2	<2	<2	<2									
Dissolved Organic Carbon (DOC)	mg/L	5 ^D	0.80	0.86	0.69	0.72	1.1	1.2	1.1	1.2	1.1									
Electrical Conductivity, Lab	µmhos/cm	n/v	860	890	900	870	750	790	790	770	770									
Fluoride	mg/L	1.5 ^B	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10									
Hardness (as CaCO3)	mg/L	80-100 ^F	410 ^F	400 ^F	390 ^F	420 ^F	390 ^F	400 ^F	410 ^F	380 ^F	400 ^F									
Ion Balance	%	n/v	0.910	0.470	3.16	2.27	0.630	0.210	1.33	0.800	1.58									
Langelier Index (at 20 C)	none	n/v	0.945	0.888	0.672	0.688	0.961	0.882	0.979	0.845	0.684									
Langelier Index (at 4 C)	none	n/v	0.698	0.640	0.424	0.440	0.713	0.634	0.731	0.597	0.436									
Nitrate (as N)	mg/L	10.0 ^B	1.41	1.10	1.06	1.08	8.33	8.54	8.48	7.10	8.54									
Nitrate + Nitrite (as N)	mg/L	10.0 ^B	1.41	1.1	1.06	1.08	8.33	8.54	8.48	7.10	8.54									
Nitrite (as N)	mg/L	1.0 ^B	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010									
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010									
pH	S.U.	6.5-8.5 ^D	7.88	7.81	7.59	7.58	7.87	7.78	7.84	7.74	7.58									
Saturation pH (at 20 C)	none	n/v	6.94	6.92	6.92	6.89	6.91	6.90	6.88	6.90	6.90									
Saturation pH (at 4 C)	none	n/v	7.18	7.17	7.17	7.14	7.16	7.15	7.12	7.15	7.15									
Sulfate	mg/L	500 ^D	39	40	38	38	50	49	45	37	49									
Total Dissolved Solids	mg/L	500 ^D	554 ^D	468	524 ^D	492	486	442	458	468	478									
Total Organic Carbon	mg/L	n/v	0.85	0.79	0.73	0.74	1.2	1.1	1.1	1.1	1.1									
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10	<10									
Turbidity, Lab	ntu	5 ^D F	1.3	5.6 ^D	0.3	0.7	<0.2	<0.2	<0.2	<0.2	<0.2									
Microbiological Analysis																				
Escherichia coli (E.Coli)	cfu/100ml	0 ^A	-	0	0	0	-	0	0	0	0									
Total Coliform Background	cfu/100ml	0 ^A	-	0	0	0	-	0	0	0	48									
Total Coliforms	cfu/100ml	0 ^A	-	0	0	0	-	0	0	5 ^A	0									
Metals																				
Aluminum	µg/L	100 ^F	<5.0	<5.0	<5	<5	19	<5.0	<5.0	<5	<5									
Antimony	µg/L	6 ^C	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.5									
Arsenic	µg/L	25 ^C	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<1	<1									
Barium	µg/L	1000 ^D	64	67	65	65	110	110	110	110	120									
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.5									
Boron	µg/L	5000 ^D	10	<10	11	<10	12	<10	13	12	11									
Cadmium	µg/L	5 ^B	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.1									
Calcium	µg/L	n/v	120000	120000	110000	120000	120000	120000	120000	110000	120000									
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	0.81	2.1	0.81	0.72	1.7									
Chromium (Total)	µg/L	50 ^B	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	<5	<5									
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.5									
Copper	µg/L	1000 ^D	2.9	1.4	20	5	17	8.6	5.1	4.7	13									
Iron	µg/L	300 ^D	<100	130	100	<100	<100	<100	<100	<100	<100									
Lead	µg/L	10 ^B	<0.50	<0.50	0.73	<0.5	0.57	1.2	0.60	<0.5	1.3									
Magnesium	µg/L	n/v	26000	27000	25000	28000	23000	26000	26000	23000	24000									
Manganese	µg/L	50 ^D	4.5	12	2.8	2.8	<2.0	<2.0	<2.0	<2	<2									
Mercury	µg/L	1 ^B	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.1									
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	0.59	<0.50	<0.50	<0.50	<0.5	<0.5									
Nickel	µg/L	n/v	<1.0	1.0	<1	<1	<1.0	<1.0	<1.0	5.4	<1									
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100	<100									
Potassium	µg/L	n/v	1900	2000	1900	2000	10000	6300	6100	8100	8400									
Selenium	µg/L	10 ^B	<2.0	<2.0	<2	<2	<2.0	<2.0	<2.0	<2	<2									
Silicon	µg/L	n/v	7000	6800	6000	6800	8700	8800	9100	7400	8400									
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	0.40	<0.1	<0.1									
Sodium	µg/L	200000 ^D , 20000 ^D	21000 ^F	22000 ^F	26000 ^F	25000 ^F	5300	8500	10000	5300	7500									
Strontium	µg/L	n/v	260	290	270	300	280	320	300	290	300									
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050	<0.050	<0.05	<0.05									
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5	<5.0	<5.0	<5.0	<5	<5									
Uranium	µg/L	20 ^B	1.6	1.5	1.3	1.4	1.0	1.1	1.1	0.98	1.1									
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.50	<0.50	<0.5	<0.5									
Zinc	µg/L	5000 ^D	10	7.7	40	17	120	150	72	76	130									
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<1	<1		</							

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

Aquifer Unit	Sample Date	Units	ODWQS	Other/Unconfirmed				Other/Unconfirmed				
				31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15
Sample ID	Sample ID	Sample ID	Sample ID	WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6
Water Type	Water Type	Water Type	Water Type	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Treated Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)	Raw Outside (Back house)
Sample Tap	Sample Tap	Sample Tap	Sample Tap	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	None	None	None	None	None
Treatment Type	Treatment Type	Treatment Type	Treatment Type	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Sampling Company	Sampling Company	Sampling Company	Sampling Company	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory	Laboratory	Laboratory	Laboratory	B4D8040	B4I6091	B567144	B5K5292	B4D8040	B4I8196	B4L2726	B561586	B5K2703
Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	Laboratory Work Order	WY7356	XW7258	ACQ225	BDB101	XX8294	YK4122	ABP510	BCM871	
Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID	Laboratory Sample ID									
Filtered	Filtered	Filtered	Filtered	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Lab Filtered 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 ⁸	<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	<4 MI	<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 ⁹ 0.3 ⁹	<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 ⁸ 30 ⁹	<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 ⁸ 2 ⁹	<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
Benzene	µg/L	5 ⁸	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	3.9	2.5	<0.50	<0.50	5.2
Bromoform (tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<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	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride (tetrachloromethane)	µg/L	5 ⁸	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80 ⁸ 30 ⁹	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	13	5.5	0.21	14	
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	1.8	1.3	<0.50	2.3	
Dichlorobenzene, 1,2-	µg/L	200 ⁸ 3 ⁹	<0.50	<0.50	<0.5	<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	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5 ⁸ 1 ⁹	<0.50	<0.50	<0.5	<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	<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	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5 ⁸	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1,1-	µg/L	14 ⁸	<0.20	<0.20	<0.2	<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	<0.5	<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	<0.5	<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	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropane, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropane, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	µg/L	2.4 ⁸	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK)	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	<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	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50 ⁸	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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	<0.5	<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	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30 ⁸	<0.20									

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	Concentration was detected but did not exceed applicable standards.
< 0.50	Laboratory reportable detection limit exceeded standard.
< 0.03	The analyte was not detected above the laboratory reportable detection 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
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.
MI	Detection limit was raised due to matrix interferences.
BO	Values reported may be biased low due to overgrowth
NDOGT	No Data due to Over Growth for Target Organisms,
NDOGN	No Data due to Over Growth for Non-Target organisms