APPENDIX F

Historical Data Tables – 2013 to 2016 – on CD

Table 6
Summary of Surface Water Analytical Results
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location			SW2						
Sample Date			13-Dec-13	7-May-14	14-Aug-14	2-Oct-14	13-Apr-15	6-Oct-15	14-Apr-16
Sample ID			CLARS1213TWS-160960745-20131213-JK5	SW2-13	SW2-13	WG-160900764-20141002-JK12	WS-160900764-20150413-RD102	WS-160900764-2015106-RD102	WS-160900764-20160414-AM03
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B3L6734	B475198	B4E7836	B4I4507	B565881	B5K3284	B674686
Laboratory Sample ID			UH4005	VV0988	XD5724	XV9126	ACK468	BCP436	CER846
Sample Type	Units	PWQO							
General Chemistry									
Acidity	mg/L	n/v	-	10	10	45	32	57	16
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	250	370	440	310	440	250
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	2.6	2.4	1.9	1.1	2.2	1.8
Alkalinity, Total (as CaCO3)	mg/L	$_{s16}$[A]	290	260	380	440	310	440	250
Ammonia (as N)	mg/L	n/v	0.23	0.11	0.10	0.13	0.54	<0.050	0.13
Chloride	mg/L	n/v	14	11	8	11	21	12	21
Cyanide (Free)	µg/L	5[A]	-	<2	<2	<2	<2	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	650	540	770	840	680	900	600
Fluoride	mg/L	n/v	-	<0.10	<0.10	<0.10	0.11	<0.10	0.10
Hardness (as CaCO3)	mg/L	n/v	380	300	410	500	380	490	320
Langelier Index (at 20 C)	none	n/v	1.03	1.06	1.11	1.10	0.749	1.16	0.916
Langelier Index (at 4 C)	none	n/v	0.779	0.814	0.865	0.851	0.501	0.907	0.667
Nitrate (as N)	mg/L	n/v	0.41	0.41	0.55	<0.10	0.56	<0.10	1.07
Nitrate + Nitrite (as N)	mg/L	n/v	0.41	0.41	0.55	<0.10	0.633	<0.10	1.07
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.073	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010
pH	S.U.	6.5-8.5[A]	7.88	8.04	7.83	7.67	7.58	7.73	7.89
Phosphorus, Total	mg/L	0.03$_{s4}$[C]	**9.2[C]**	0.011	**0.037[C]**	**0.19[C]**	**0.062[C]**	0.015	0.020
Saturation pH (at 20 C)	none	n/v	6.85	6.98	6.72	6.57	6.83	6.58	6.98
Saturation pH (at 4 C)	none	n/v	7.10	7.23	6.97	6.82	7.08	6.83	7.22
Sulfate	mg/L	n/v	30	19	34	34	22	48	36
Total Dissolved Solids	mg/L	n/v	-	318	486	496	-	546	350
Total Organic Carbon	mg/L	n/v	54	3.8	4.1	7.7	11	3.8	4.1
Total Suspended Solids	mg/L	n/v	-	<10	34	150	<10	<10	13
Turbidity, Lab	ntu	n/v	27	<0.2	21	6.4	2.7	2.2	1.7
Petroleum Hydrocarbons									
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES
Metals, Dissolved									
Calcium	µg/L	n/v	140000	110000	150000	180000	130000	180000	110000
Magnesium	µg/L	n/v	8400	7000	9300	12000	11000	12000	8100
Potassium	µg/L	n/v	<1000	<1000	<1000	2000	5000	<1000	3000
Sodium	µg/L	n/v	3400	3500	3600	4200	5300	5900	8900
Metals, Total									
Aluminum	µg/L	75[C]	**39000[C]**	18	**940[C]**	**1200[C]**	13	12	**200[C]**
Antimony	µg/L	20[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Arsenic	µg/L	100[A] 5[C]	**9.2[C]**	<1.0	<1.0	1.8	<1	<1	<1
Barium	µg/L	n/v	330	26	51	97	86	58	50
Beryllium	µg/L	11/1100$_{s3}$[A]	2.2	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5
Boron	µg/L	200$_{a}$[C]	35	10	19	27	30	24	24
Cadmium	µg/L	0.2[A] 0.1/0.5$_{s12}$[C]	**1.7[AC]**	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	170000	110000	160000	180000	130000	170000	110000
Chromium	µg/L	n/v	59	<5.0	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	1[A]	-	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Cobalt	µg/L	0.9[A]	**20[A]**	<0.50	<0.50	**1.4[A]**	0.67	<0.5	<0.5
Copper	µg/L	5[A] 1/5$_{s13}$[C]	**41[AC]**	<1.0	**1.9[C]**	**2.0[C]**	<1	<1	1
Iron	µg/L	300[A]	**51000[A]**	<100	**1300[A]**	**4300[A]**	**1200[A]**	**500[A]**	250
Lead	µg/L	5/10/20/25$_{s14}$[A] 1/3/5$_{s15}$[C]	**56[AC]**	<0.50	**1.2[C]**	**1.6[C]**	<0.5	<0.5	<0.5
Magnesium	µg/L	n/v	19000	7200	10000	12000	11000	12000	8200
Manganese	µg/L	n/v	3000	19	490	2400	940	350	22
Mercury	µg/L	0.2[A]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	1.1	<0.50	<0.50	<0.50	0.51	<0.5	<0.5
Nickel	µg/L	25[A]	**32[A]**	<1.0	<1.0	1.7	1.5	<1	<1
Phosphorus	µg/L	30$_{s4}$[C]	-	-	-	-	**120[C]**	***<100***	***<100***
Potassium	µg/L	n/v	4100	990	910	2200	4600	800	2500
Selenium	µg/L	100[A]	3.2	<2.0	<2.0	<2.0	<2	<2	<2
Silicon	µg/L	n/v	51000	2300	5100	6700	3800	4700	2400
Silver	µg/L	0.1[A]	**0.38[A]**	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1
Sodium	µg/L	n/v	4400	3000	3700	4300	4900	5600	8400
Strontium	µg/L	n/v	340	210	310	480	520	350	310
Thallium	µg/L	0.3$_{b}$[C]	**0.43[C]**	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	1900	<5.0	51	65	<5	<5.0	10
Uranium	µg/L	5$_{a}$[C]	-	-	-	-	1.3	0.85	0.88
Vanadium	µg/L	6[C]	**89[C]**	<0.50	2.3	2.5	<0.5	<0.5	0.8
Zinc	µg/L	30[A] 20[C]	**280[AC]**	<5.0	11	17	<5	<5.0	<5
Zirconium	µg/L	4$_{a}$[C]	-	-	-	-	<1	<1	<1
Polychlorinated Biphenyls									
Aroclor 1016	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01
Aroclor 1221	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01
Aroclor 1232	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01
Aroclor 1242	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01
Aroclor 1248	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01
Aroclor 1254	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01
Aroclor 1260	µg/L	$_{s7}$[A]	-	-	-	-	<0.05	<0.05	<0.01
Aroclor 1262	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01
Aroclor 1268	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.01
Polychlorinated Biphenyls (PCBs)	µg/L	0.001$_{s7}$[A]	-	-	-	-	***<0.05***	***<0.05***	***<0.01***

See notes on last page

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Sample ID			CLARS1213TWS-160960745-20131213-JK5	SW2-13	SW2-13	WG-160900764-20141002-JK12	WS-160900764-20150413-RD102	WS-160900764-2015106-RD102	WS-160900764-20160414-AM03
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B3L6734	B475198	B4E7836	B4I4507	B565881	B5K3284	B674686
Laboratory Sample ID			UH4005	VV0988	XD5724	XV9126	ACK468	BCP436	CER846
Sample Type	Units	PWQO							
Semi-Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2
Anthracene	µg/L	0.0008$_a$[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(a)anthracene	µg/L	0.0004$_a$[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(a)pyrene	µg/L	n/v	-	-	-	-	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	-	-	-	-	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002$_a$[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002$_a$[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2$_a$[C]	-	-	-	-	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	200$_a$[C]	-	-	-	-	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	-	-	-	-	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6[A]	-	-	-	-	***<1***	***<1***	***<1***
Chloroaniline, 4-	µg/L	n/v	-	-	-	-	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1
Chrysene	µg/L	0.0001$_a$[C]	-	-	-	-	***<0.05***	***<0.05***	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002$_a$[C]	-	-	-	-	***<0.1***	***<0.1***	***<0.1***
Dichlorobenzidine, 3,3'-	µg/L	0.6$_a$[C]	-	-	-	-	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	10$_b$[C]	-	-	-	-	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	-	-	-	-	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	4[C]	-	-	-	-	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	6[C]	-	-	-	-	<0.3	<0.3	<0.3
Fluoranthene	µg/L	0.0008$_a$[C]	-	-	-	-	***<0.2***	***<0.2***	***<0.2***
Fluorene	µg/L	0.2$_a$[C]	-	-	-	-	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	-	-	-	-	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	-	-	-	-	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	2$_b$[C]	-	-	-	-	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	2$_b$[C]	-	-	-	-	<0.2	<0.2	<0.2
Naphthalene	µg/L	7$_a$[C]	-	-	-	-	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	0.5[A]	-	-	-	-	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.03$_a$[C]	-	-	-	-	***<0.1***	***<0.1***	***<0.1***
Phenol	µg/L	5$_b$[C]	-	-	-	-	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	-	-	-	-	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	0.5[A]	-	-	-	-	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	-	-	-	-	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	-	-	-	-	30	<10	<10
Benzene	µg/L	100$_b$[C]	-	-	-	-	<0.2	<0.20	<0.20
Bromodichloromethane	µg/L	200$_a$[C]	-	-	-	-	<0.5	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	60$_a$[C]	-	-	-	-	<1	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	0.9$_a$[C]	-	-	-	-	<0.5	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	-	-	-	-	<0.2	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	15[A]	-	-	-	-	<0.2	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	-	-	-	-	<0.2	<0.20	<0.20
Dibromochloromethane	µg/L	40$_a$[C]	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	2.5[A]	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	2.5[A]	-	-	-	-	<0.5	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	4[A]	-	-	-	-	<0.5	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	-	-	-	<1	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	200[C]	-	-	-	-	<0.2	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	100[C]	-	-	-	-	<0.5	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	40[C]	-	-	-	-	<0.2	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	200[C]	-	-	-	-	<0.5	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	0.7$_a$[C]	-	-	-	-	<0.2	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	<0.3	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	7$_a$[C]	-	-	-	-	<0.4	<0.40	<0.40
Ethylbenzene	µg/L	8[C]	-	-	-	-	<0.2	<0.20	<0.20
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5$_a$[C]	-	-	-	-	<0.2	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	-	-	-	-	<1	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400$_a$[C]	-	-	-	-	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	-	-	-	<5	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	200$_a$[C]	-	-	-	-	<0.5	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	100$_a$[C]	-	-	-	-	<2	<2.0	<2.0
Styrene	µg/L	4$_b$[C]	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	20$_a$[C]	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	70[C]	-	-	-	-	<0.5	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	50[C]	-	-	-	-	<0.2	<0.20	<0.20
Toluene	µg/L	0.8[C]	-	-	-	-	**1.7**[C]	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	10$_a$[C]	-	-	-	-	<0.2	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	800[C]	-	-	-	-	<0.5	<0.50	<0.50
Trichloroethene (TCE)	µg/L	20[C]	-	-	-	-	<0.2	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	-	-	-	<0.5	<0.50	<0.50
Vinyl chloride	µg/L	600$_a$[C]	-	-	-	-	<0.2	<0.20	<0.20
Xylene, m & p-	µg/L	32$_{s17}$[B]	-	-	-	-	<0.2	<0.20	<0.20
Xylene, o-	µg/L	40$_b$[C]	-	-	-	-	<0.2	<0.20	<0.20
Xylenes, Total	µg/L	72$_{s10}$[B]	-	-	-	-	<0.2	<0.20	<0.20

See notes on last page

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Sample Location			SW3						
Sample Date			7-May-14	7-May-14	14-Aug-14	14-Aug-14	1-Oct-14	1-Oct-14	13-Apr-15
Sample ID			SW3-13	SW3-13 DUP	SW3-13	SW3-13DUP	WG-160900764-20141001-JK3	WG-160900764-20141001-JK4	WS-160900764-20150413-RD101
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B475198	B475198	B4E7836	B4E7836	B4I4507	B4I4507	B565881
Laboratory Sample ID			VV0989	VV0990	XD5723	XD5725	XV9124	XV9125	ACK467
Sample Type	Units	PWQO		Field Duplicate		Field Duplicate		Field Duplicate	
General Chemistry									
Acidity	mg/L	n/v	<10	<10	29	115	23	20	12
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	230	230	300	290	340	350	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	4.4	4.5	3.9	3.6	3.0	3.1	1.5
Alkalinity, Total (as CaCO3)	mg/L	$_{s16}$[A]	230	230	310	290	350	350	270
Ammonia (as N)	mg/L	n/v	0.14	0.060	<0.050	0.053	<0.050	<0.050	0.19
Chloride	mg/L	n/v	14	13	16	17	12	12	18
Cyanide (Free)	µg/L	5[A]	<2	<2	<2	<2	<2	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	520	520	680	660	700	710	600
Fluoride	mg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1
Hardness (as CaCO3)	mg/L	n/v	280	280	360	340	420	430	340
Langelier Index (at 20 C)	none	n/v	1.26	1.28	1.28	1.22	1.24	1.26	0.842
Langelier Index (at 4 C)	none	n/v	1.01	1.03	1.03	0.967	0.990	1.01	0.593
Nitrate (as N)	mg/L	n/v	3.11	3.10	2.39	2.33	0.98	0.94	1.94
Nitrate + Nitrite (as N)	mg/L	n/v	3.11	3.1	2.39	2.33	0.98	0.94	1.952
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.013	<0.010	0.013	<0.010	<0.01
pH	S.U.	6.5-8.5[A]	8.32	8.32	8.14	8.12	7.97	7.98	7.77
Phosphorus, Total	mg/L	0.03$_{s4}$[C]	0.005	0.005	0.010	0.008	0.020	0.017	0.025
Saturation pH (at 20 C)	none	n/v	7.06	7.05	6.86	6.91	6.74	6.72	6.92
Saturation pH (at 4 C)	none	n/v	7.31	7.29	7.11	7.16	6.99	6.97	7.17
Sulfate	mg/L	n/v	16	16	35	33	31	31	20
Total Dissolved Solids	mg/L	n/v	300	302	458	424	422	422	-
Total Organic Carbon	mg/L	n/v	2.5	2.6	3.2	3.2	4.4	4.4	5.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	n/v	0.4	0.5	3.5	0.7	2.4	2.5	1.2
Petroleum Hydrocarbons									
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES
Metals, Dissolved									
Calcium	µg/L	n/v	100000	100000	130000	120000	150000	150000	120000
Magnesium	µg/L	n/v	6700	6800	9800	9400	11000	11000	8900
Potassium	µg/L	n/v	1000	1000	1000	1000	2000	2000	3000
Sodium	µg/L	n/v	4900	5000	5500	5400	4900	5000	5300
Metals, Total									
Aluminum	µg/L	75[C]	35	32	57	45	75	75	66
Antimony	µg/L	20[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Arsenic	µg/L	100[A] 5[C]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Barium	µg/L	n/v	27	27	44	43	53	54	41
Beryllium	µg/L	11/1100$_{s3}$[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Boron	µg/L	200$_{a}$[C]	<10	<10	16	13	15	16	15
Cadmium	µg/L	0.2[A] 0.1/0.5$_{s12}$[C]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1
Calcium	µg/L	n/v	110000	100000	130000	130000	150000	150000	110000
Chromium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	1[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Cobalt	µg/L	0.9[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Copper	µg/L	5[A] 1/5$_{s13}$[C]	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	1
Iron	µg/L	300[A]	<100	<100	<100	<100	<100	<100	170
Lead	µg/L	5/10/20/25$_{s14}$[A] 1/3/5$_{s15}$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Magnesium	µg/L	n/v	7200	7000	11000	11000	11000	11000	8300
Manganese	µg/L	n/v	6.4	6.3	31	25	51	52	140
Mercury	µg/L	0.2[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5
Nickel	µg/L	25[A]	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1
Phosphorus	µg/L	30$_{s4}$[C]	-	-	-	-	-	-	***<100***
Potassium	µg/L	n/v	1000	1000	1300	1200	1900	1900	2200
Selenium	µg/L	100[A]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2
Silicon	µg/L	n/v	3100	3000	4900	4800	6500	6500	3300
Silver	µg/L	0.1[A]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1
Sodium	µg/L	n/v	4600	4500	5700	5900	4600	4900	4600
Strontium	µg/L	n/v	190	190	290	280	320	310	260
Thallium	µg/L	0.3$_{b}$[C]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
Uranium	µg/L	5$_{a}$[C]	-	-	-	-	-	-	0.79
Vanadium	µg/L	6[C]	<0.50	<0.50	0.63	0.55	<0.50	0.55	<0.5
Zinc	µg/L	30[A] 20[C]	<5.0	<5.0	17	20	**24**[C]	**28**[C]	<5
Zirconium	µg/L	4$_{a}$[C]	-	-	-	-	-	-	<1
Polychlorinated Biphenyls									
Aroclor 1016	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-
Aroclor 1221	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-
Aroclor 1232	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-
Aroclor 1242	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05
Aroclor 1248	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05
Aroclor 1254	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05
Aroclor 1260	µg/L	$_{s7}$[A]	-	-	-	-	-	-	<0.05
Aroclor 1262	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-
Aroclor 1268	µg/L	$_{s7}$[A]	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	0.001$_{s7}$[A]	-	-	-	-	-	-	***<0.05***

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location			SW3						
Sample Date			7-May-14	7-May-14	14-Aug-14	14-Aug-14	1-Oct-14	1-Oct-14	13-Apr-15
Sample ID			SW3-13	SW3-13 DUP	SW3-13	SW3-13DUP	WG-160900764-20141001-JK3	WG-160900764-20141001-JK4	WS-160900764-20150413-RD101
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B475198	B475198	B4E7836	B4E7836	B4I4507	B4I4507	B565881
Laboratory Sample ID			VV0989	VV0990	XD5723	XD5725	XV9124	XV9125	ACK467
Sample Type	Units	PWQO		Field Duplicate		Field Duplicate		Field Duplicate	
Semi-Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	-	-	-	-	-	-	<0.2
Acenaphthylene	µg/L	n/v	-	-	-	-	-	-	<0.2
Anthracene	µg/L	0.0008_a [C]	-	-	-	-	-	-	***<0.05***
Benzo(a)anthracene	µg/L	0.0004_a [C]	-	-	-	-	-	-	***<0.05***
Benzo(a)pyrene	µg/L	n/v	-	-	-	-	-	-	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	-	-	-	-	-	-	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002_a [C]	-	-	-	-	-	-	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002_a [C]	-	-	-	-	-	-	***<0.05***
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2_a [C]	-	-	-	-	-	-	<0.1
Bis(2-Chloroethyl)ether	µg/L	200_a [C]	-	-	-	-	-	-	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	-	-	-	-	-	-	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6 [A]	-	-	-	-	-	-	***<1***
Chloroaniline, 4-	µg/L	n/v	-	-	-	-	-	-	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	-	-	-	-	-	-	<0.1
Chrysene	µg/L	0.0001_a [C]	-	-	-	-	-	-	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002_a [C]	-	-	-	-	-	-	***<0.1***
Dichlorobenzidine, 3,3'-	µg/L	0.6_a [C]	-	-	-	-	-	-	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	-	-	-	-	-	-	<0.1
Diethyl Phthalate	µg/L	n/v	-	-	-	-	-	-	<0.1
Dimethyl Phthalate	µg/L	n/v	-	-	-	-	-	-	<0.1
Dimethylphenol, 2,4-	µg/L	10_b [C]	-	-	-	-	-	-	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	-	-	-	-	-	-	<2
Dinitrotoluene, 2,4-	µg/L	4 [C]	-	-	-	-	-	-	<0.3
Dinitrotoluene, 2,6-	µg/L	6 [C]	-	-	-	-	-	-	<0.3
Fluoranthene	µg/L	0.0008_a [C]	-	-	-	-	-	-	***<0.2***
Fluorene	µg/L	0.2_a [C]	-	-	-	-	-	-	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	-	-	-	-	-	-	<0.1
Methylnaphthalene (Total)	µg/L	n/v	-	-	-	-	-	-	<0.28
Methylnaphthalene, 1-	µg/L	2_b [C]	-	-	-	-	-	-	<0.2
Methylnaphthalene, 2-	µg/L	2_b [C]	-	-	-	-	-	-	<0.2
Naphthalene	µg/L	7_a [C]	-	-	-	-	-	-	<0.2
Pentachlorophenol	µg/L	0.5 [A]	-	-	-	-	-	-	<0.1
Phenanthrene	µg/L	0.03_a [C]	-	-	-	-	-	-	***<0.1***
Phenol	µg/L	5_b [C]	-	-	-	-	-	-	<0.5
Pyrene	µg/L	n/v	-	-	-	-	-	-	<0.05
Trichlorobenzene, 1,2,4-	µg/L	0.5 [A]	-	-	-	-	-	-	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	-	-	-	-	-	-	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	-	-	-	-	-	-	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	-	-	-	-	-	-	16
Benzene	µg/L	100_b [C]	-	-	-	-	-	-	<0.2
Bromodichloromethane	µg/L	200_a [C]	-	-	-	-	-	-	<0.5
Bromoform (Tribromomethane)	µg/L	60_a [C]	-	-	-	-	-	-	<1
Bromomethane (Methyl bromide)	µg/L	0.9_a [C]	-	-	-	-	-	-	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	-	-	-	-	-	-	<0.2
Chlorobenzene (Monochlorobenzene)	µg/L	15 [A]	-	-	-	-	-	-	<0.2
Chloroform (Trichloromethane)	µg/L	n/v	-	-	-	-	-	-	<0.2
Dibromochloromethane	µg/L	40_a [C]	-	-	-	-	-	-	<0.5
Dichlorobenzene, 1,2-	µg/L	2.5 [A]	-	-	-	-	-	-	<0.5
Dichlorobenzene, 1,3-	µg/L	2.5 [A]	-	-	-	-	-	-	<0.5
Dichlorobenzene, 1,4-	µg/L	4 [A]	-	-	-	-	-	-	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	-	-	-	-	-	<1
Dichloroethane, 1,1-	µg/L	200 [C]	-	-	-	-	-	-	<0.2
Dichloroethane, 1,2-	µg/L	100 [C]	-	-	-	-	-	-	<0.5
Dichloroethene, 1,1-	µg/L	40 [C]	-	-	-	-	-	-	<0.2
Dichloroethene, cis-1,2-	µg/L	200 [C]	-	-	-	-	-	-	<0.5
Dichloroethene, trans-1,2-	µg/L	n/v	-	-	-	-	-	-	<0.5
Dichloropropane, 1,2-	µg/L	0.7_a [C]	-	-	-	-	-	-	<0.2
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	-	-	-	-	-	<0.5
Dichloropropene, cis-1,3-	µg/L	n/v	-	-	-	-	-	-	<0.3
Dichloropropene, trans-1,3-	µg/L	7_a [C]	-	-	-	-	-	-	<0.4
Ethylbenzene	µg/L	8 [C]	-	-	-	-	-	-	<0.2
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5_a [C]	-	-	-	-	-	-	<0.2
Hexane (n-Hexane)	µg/L	n/v	-	-	-	-	-	-	<1
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400_a [C]	-	-	-	-	-	-	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	-	-	-	-	-	<5
Methyl tert-butyl ether (MTBE)	µg/L	200_a [C]	-	-	-	-	-	-	<0.5
Methylene Chloride (Dichloromethane)	µg/L	100_a [C]	-	-	-	-	-	-	<2
Styrene	µg/L	4_b [C]	-	-	-	-	-	-	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	20_a [C]	-	-	-	-	-	-	<0.5
Tetrachloroethane, 1,1,2,2-	µg/L	70 [C]	-	-	-	-	-	-	<0.5
Tetrachloroethene (PCE)	µg/L	50 [C]	-	-	-	-	-	-	<0.2
Toluene	µg/L	0.8 [C]	-	-	-	-	-	-	<0.2
Trichloroethane, 1,1,1-	µg/L	10_a [C]	-	-	-	-	-	-	<0.2
Trichloroethane, 1,1,2-	µg/L	800 [C]	-	-	-	-	-	-	<0.5
Trichloroethene (TCE)	µg/L	20 [C]	-	-	-	-	-	-	<0.2
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	-	-	-	-	-	<0.5
Vinyl chloride	µg/L	600_a [C]	-	-	-	-	-	-	<0.2
Xylene, m & p-	µg/L	32_{s17} [B]	-	-	-	-	-	-	<0.2
Xylene, o-	µg/L	40_b [C]	-	-	-	-	-	-	<0.2
Xylenes, Total	µg/L	72_{s10} [B]	-	-	-	-	-	-	<0.2

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location			SW3 (Contd.)					SW4	
Sample Date			6-Oct-15	6-Oct-15	14-Apr-16	3-Nov-16	3-Nov-16	13-Apr-15	13-Apr-16
Sample ID			WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-20160414-AM02	WS-160900764-20161103-AM001	WS-160900764-20161103-AM002	WS-160900764-20150413-RD100	WS-160900764-20160413-AM01
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B5K3284	B5K3284	B674686	B6N9272	B6N9272	B565881	B674089
Laboratory Sample ID			BCP434	BCP435	CER845	DJQ261	DJQ262	ACK466	CEO697
Sample Type	Units	PWQO					Field Duplicate		
General Chemistry									
Acidity	mg/L	n/v	32	32	10	10	12	14	15
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	370	370	220	120	120	230	260
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.5	2.5	2.3	<1.0	<1.0	<1	2.6
Alkalinity, Total (as CaCO3)	mg/L	s16[A]	370	370	230	120	120	230	260
Ammonia (as N)	mg/L	n/v	0.064	0.093	<0.050	<0.050	<0.050	0.24	<0.050
Chloride	mg/L	n/v	14	15	32	46	46	48	41
Cyanide (Free)	µg/L	5[A]	<2	<2	<2	<1	<1	<2	<2
Electrical Conductivity, Lab	µmhos/cm	n/v	840	840	640	1400	1400	840	700
Fluoride	mg/L	n/v	<0.10	<0.10	0.12	0.61	0.60	0.21	<0.10
Hardness (as CaCO3)	mg/L	n/v	460	470	320	590	580	410	360
Langelier Index (at 20 C)	none	n/v	1.17	1.18	1.01	0.611	0.603	0.625	1.09
Langelier Index (at 4 C)	none	n/v	0.919	0.928	0.760	0.365	0.357	0.377	0.844
Nitrate (as N)	mg/L	n/v	<0.10	<0.10	4.58	2.67	2.63	1.71	0.74
Nitrate + Nitrite (as N)	mg/L	n/v	<0.10	<0.10	4.58	2.67	2.641	1.725	0.74
Nitrite (as N)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.011	0.015	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010
pH	S.U.	6.5-8.5[A]	7.85	7.85	8.04	7.79	7.80	7.60	8.02
Phosphorus, Total	mg/L	0.03[s4,C]	0.016	0.010	0.022	**0.033[C]**	**0.033[C]**	**0.031[C]**	**0.063[C]**
Saturation pH (at 20 C)	none	n/v	6.68	6.68	7.03	7.18	7.19	6.98	6.93
Saturation pH (at 4 C)	none	n/v	6.93	6.93	7.28	7.43	7.44	7.23	7.18
Sulfate	mg/L	n/v	74	83	41	470	460	110	39
Total Dissolved Solids	mg/L	n/v	532	542	344	956	982	-	408
Total Organic Carbon	mg/L	n/v	4.2	4.2	3.4	3.8	3.8	11	3.2
Total Suspended Solids	mg/L	n/v	<10	<10	13	21	18	<10	29
Turbidity, Lab	ntu	n/v	1.2	1.1	8.6	10	5.2	2.3	13
Petroleum Hydrocarbons									
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES
Metals, Dissolved									
Calcium	µg/L	n/v	170000	170000	110000	190000	180000	130000	120000
Magnesium	µg/L	n/v	12000	12000	8800	32000	31000	17000	12000
Potassium	µg/L	n/v	2000	2000	2000	12000	12000	8000	2000
Sodium	µg/L	n/v	7700	7800	16000	95000	94000	27000	18000
Metals, Total									
Aluminum	µg/L	75[C]	24	26	**190[C]**	**440[C]**	**410[C]**	**130[C]**	**680[C]**
Antimony	µg/L	20[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	100[A] 5[C]	<1	<1	<1	<1	<1	<1	<1
Barium	µg/L	n/v	54	52	37	79	72	54	61
Beryllium	µg/L	11/1100[s3,A]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	200[a,C]	36	31	35	**710[C]**	**680[C]**	110	28
Cadmium	µg/L	0.2[A] 0.1/0.5[s12,C]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	160000	160000	110000	170000	170000	120000	120000
Chromium	µg/L	n/v	<5.0	<5.0	<5	<5	<5	<5	<5
Chromium (Hexavalent)	µg/L	1[A]	<0.50	<0.50	0.68	<0.50	<0.50	<0.5	<0.50
Cobalt	µg/L	0.9[A]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	µg/L	5[A] 1/5[s13,C]	<1	<1	<1	<1	1	**1.5[C]**	**1.3[C]**
Iron	µg/L	300[A]	<100	<100	250	**490[A]**	**480[A]**	190	**830[A]**
Lead	µg/L	5/10/20/25[s14,A] 1/3/5[s15,C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
Magnesium	µg/L	n/v	12000	11000	8800	31000	30000	16000	12000
Manganese	µg/L	n/v	120	120	44	73	70	100	53
Mercury	µg/L	0.2[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	40[C]	<0.5	<0.5	0.52	3.7	3.6	1.2	<0.5
Nickel	µg/L	25[A]	<1	<1	<1	1.1	1.2	2	<1
Phosphorus	µg/L	30[s4,C]	***<100***	***<100***	***<100***	***<100***	***<100***	**120[C]**	***<100***
Potassium	µg/L	n/v	1800	1700	1500	11000	11000	7300	2000
Selenium	µg/L	100[A]	<2	<2	<2	<2	<2	<2	<2
Silicon	µg/L	n/v	4500	4500	3300	3000	2900	3600	4200
Silver	µg/L	0.1[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium	µg/L	n/v	7400	7100	15000	86000	83000	24000	16000
Strontium	µg/L	n/v	380	370	270	3000	2900	1100	400
Thallium	µg/L	0.3[b,C]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	9.5	18	20	7.9	40
Uranium	µg/L	5[a,C]	0.83	0.85	0.64	0.75	0.72	1	0.61
Vanadium	µg/L	6[C]	<0.5	<0.5	0.76	1.2	1.2	0.63	1.6
Zinc	µg/L	30[A] 20[C]	19	20	<5	11	13	<5	11
Zirconium	µg/L	4[a,C]	<1	<1	<1	<1	<1	<1	<1
Polychlorinated Biphenyls									
Aroclor 1016	µg/L	[s7,A]	-	-	<0.01	-	-	-	<0.01
Aroclor 1221	µg/L	[s7,A]	-	-	<0.01	-	-	-	<0.01
Aroclor 1232	µg/L	[s7,A]	-	-	<0.01	-	-	-	<0.01
Aroclor 1242	µg/L	[s7,A]	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01
Aroclor 1248	µg/L	[s7,A]	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01
Aroclor 1254	µg/L	[s7,A]	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01
Aroclor 1260	µg/L	[s7,A]	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01
Aroclor 1262	µg/L	[s7,A]	-	-	<0.01	-	-	-	<0.01
Aroclor 1268	µg/L	[s7,A]	-	-	<0.01	-	-	-	<0.01
Polychlorinated Biphenyls (PCBs)	µg/L	0.001[s7,A]	***<0.05***	***<0.05***	***<0.01***	***<0.05***	***<0.05***	***<0.05***	***<0.01***

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location			SW3 (Contd.)					SW4	
Sample Date			6-Oct-15	6-Oct-15	14-Apr-16	3-Nov-16	3-Nov-16	13-Apr-15	13-Apr-16
Sample ID			WS-160900764-2015106-RD100	WS-160900764-2015106-RD101	WS-160900764-20160414-AM02	WS-160900764-20161103-AM001	WS-160900764-20161103-AM002	WS-160900764-20150413-RD100	WS-160900764-20160413-AM01
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B5K3284	B5K3284	B674686	B6N9272	B6N9272	B565881	B674089
Laboratory Sample ID			BCP434	BCP435	CER845	DJQ261	DJQ262	ACK466	CEO697
Sample Type	Units	PWQO					Field Duplicate		
Semi-Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	0.0008$_a$[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)anthracene	µg/L	0.0004$_a$[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(a)pyrene	µg/L	n/v	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.00002$_a$[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Benzo(k)fluoranthene	µg/L	0.0002$_a$[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Biphenyl, 1,1'- (Biphenyl)	µg/L	0.2$_a$[C]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	200$_a$[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	0.6[A]	***<1***	***<1***	***<1***	***<1***	***<1***	***<1***	***<1***
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.0001$_a$[C]	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***	***<0.05***
Dibenzo(a,h)anthracene	µg/L	0.002$_a$[C]	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Dichlorobenzidine, 3,3'-	µg/L	0.6$_a$[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	10$_b$[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	4[C]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	6[C]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	0.0008$_a$[C]	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***	***<0.2***
Fluorene	µg/L	0.2$_a$[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	2$_b$[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	2$_b$[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	7$_a$[C]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	0.5[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.03$_a$[C]	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***	***<0.1***
Phenol	µg/L	5$_b$[C]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	0.5[A]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	n/v	<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	49	<10
Benzene	µg/L	100$_b$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Bromodichloromethane	µg/L	200$_a$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Bromoform (Tribromomethane)	µg/L	60$_a$[C]	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane (Methyl bromide)	µg/L	0.9$_a$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	15[A]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dibromochloromethane	µg/L	40$_a$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,2-	µg/L	2.5[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,3-	µg/L	2.5[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorobenzene, 1,4-	µg/L	4[A]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Dichloroethane, 1,1-	µg/L	200[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dichloroethane, 1,2-	µg/L	100[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloroethene, 1,1-	µg/L	40[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Dichloroethene, cis-1,2-	µg/L	200[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloropropane, 1,2-	µg/L	0.7$_a$[C]	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30
Dichloropropene, trans-1,3-	µg/L	7$_a$[C]	<0.40	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40
Ethylbenzene	µg/L	8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	5$_a$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	400$_a$[C]	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	200$_a$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Methylene Chloride (Dichloromethane)	µg/L	100$_a$[C]	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0
Styrene	µg/L	4$_b$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	20$_a$[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	70[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Tetrachloroethene (PCE)	µg/L	50[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Toluene	µg/L	0.8[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichloroethane, 1,1,1-	µg/L	10$_a$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichloroethane, 1,1,2-	µg/L	800[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Trichloroethene (TCE)	µg/L	20[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50
Vinyl chloride	µg/L	600$_a$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylene, m & p-	µg/L	32$_{s17}$[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylene, o-	µg/L	40$_b$[C]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20
Xylenes, Total	µg/L	72$_{s10}$[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20

See notes on last page

Table 6
Summary of Surface Water Analytical Results
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

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

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer 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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals		Field Duplicate	Metals	Field Duplicate
General Chemistry												
Acidity	mg/L	n/v	n/v	-	<10	<10	<10	<10	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	220	200	180	180	190	-	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	2.2	2.9	2.5	2.6	-	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	220	200	190	180	190	-	-	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.26	1.2	0.20	0.18	0.17	-	-	-	-
Anion Sum	meq/L	n/v	n/v	5.88	4.91	4.63	4.59	4.87	-	-	-	-
Cation Sum	meq/L	n/v	n/v	5.83	4.33	55.6	4.44	4.47	-	-	-	-
Chloride	mg/L	250[D]	790[GH]	20	14	13	14	15	-	-	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<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	-	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	570	420	400	420	420	-	-	-	-
Fluoride	mg/L	1.5_b[B]	n/v	-	0.29	0.32	0.28	0.27	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**260[E]**	**190[E]**	**2700[E]**	**190[E]**	**200[E]**	-	-	-	-
Ion Balance	%	n/v	n/v	0.400	6.30	84.6	1.72	4.31	-	-	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.642	0.357	2.08	0.410	0.411	-	-	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.393	0.107	1.83	0.161	0.162	-	-	-	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	3.18	<0.10	<0.10	<0.10	<0.10	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	3.18	<0.10	<0.10	<0.10	<0.10	-	-	-	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<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	-	-	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.87	8.07	8.22	8.17	8.15	-	-	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.71	6.14	7.76	7.74	-	-	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.96	6.39	8.01	7.99	-	-	-	-
Sulfate	mg/L	500_h[D]	n/v	35	24	26	28	28	-	-	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	308	294	292	392	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.8	4.1	2.4	1.4	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	610	5000	1500	820	290	210	-	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	-	**220[D]**	**1100[D]**	**710[D]**	**480[D]**	**37[D]**	**46[D]**	-	-
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	1.3	<0.20	<0.20	0.21	0.32	<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	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.81	<0.23 IB	<0.20	0.22	< 0.40	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.81	<0.23	<0.20	0.22	< 0.40	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	<100	<100	< 100	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	<200	<200	< 200	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	<200	<200	< 200	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-
Metals												
Aluminum	µg/L	100[E]	n/v	<5.0	7.6	-	7.1	19	-	-	-	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	1.2	-	1.1	<1.0	-	-	-	-
Barium	µg/L	1000[B]	1000[GH]	110	96	-	84	100	-	-	-	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-
Boron	µg/L	5000[C]	5000[GH]	38	32	-	34	32	-	-	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	-	<0.10	<0.10	-	-	-	-
Calcium	µg/L	n/v	n/v	71000	25000	-	25000	26000	-	-	-	-
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-
Copper	µg/L	1000[D]	69[GH]	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-
Iron	µg/L	300[D]	n/v	<100	<100	-	<100	<100	-	-	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	-	<0.50	<0.50	-	-	-	-
Magnesium	µg/L	n/v	n/v	20000	30000	-	32000	32000	-	-	-	-
Manganese	µg/L	50[D]	n/v	5.8	4.6	-	3.5	3.2	-	-	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.1	<0.1	<0.10	<0.1	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	10	2.2	-	2.0	2.1	-	-	-	-
Nickel	µg/L	n/v	100[GH]	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	<100	<100	-	-	-	-
Potassium	µg/L	n/v	n/v	6400	2800	-	2700	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	-	-	-	-
Silicon	µg/L	n/v	n/v	6200	10000	-	10000	11000	-	-	-	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	-	<0.10	<0.10	-	-	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	9200	11000	-	12000	10000	-	-	-	-
Strontium	µg/L	n/v	n/v	470	570	-	580	590	-	-	-	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	-	<0.050	<0.050	-	-	-	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-
Uranium	µg/L	20[B]	20[GH]	0.92	0.17	-	0.41	0.19	-	-	-	-
Vanadium	µg/L	n/v	6.2[GH]	0.94	<0.50	-	0.87	0.55	-	-	-	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	-	<5.0	<5.0	-	-	-	-
Zirconium	µg/L	n/v	n/v	<1.0	-	-	-	<1.0	-	-	-	-
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer 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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M0745	B4M0745
Laboratory Sample ID				UH4002	VG2316	VV0843	XD5198	XV9682	YO3446	YO3564	YO3447	YO3565
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	-	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals		Field Duplicate	Metals	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
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.1	0.1	<0.1	0.1	0.3	0.1	0.2	<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
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	µg/L	n/v	4.1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	<0.05	0.06	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	-	<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	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	<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	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	<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	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	<10	<10	<10	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[GH]	-	<0.50	<0.50	<0.50	<0.50	<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	-	-
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	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<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	-	-
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	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<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	-	-
Trihalomethanes	µg/L	100_e[B]	n/v	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (cont.)							
Sample Date				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				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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate
General Chemistry											
Acidity	mg/L	n/v	n/v	-	-	<10	-	<10	<10	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	-	180	-	180	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.6	-	2.1	-	1.5	1.7	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	190	-	180	180	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.097	-	0.073	-	0.059	0.068	-	-
Anion Sum	meq/L	n/v	n/v	4.70	-	4.59	-	4.52	4.63	-	-
Cation Sum	meq/L	n/v	n/v	4.75	-	4.59	-	4.68	4.70	-	-
Chloride	mg/L	250[D]	790[GH]	15	-	13	-	13	14	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	-	<2	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.94	-	0.68	-	0.54	0.55	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	430	-	420	-	420	420	-	-
Fluoride	mg/L	1.5_b[B]	n/v	-	-	0.32	-	0.27	0.27	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	-	**200[E]**	-	**200[E]**	**200[E]**	-	-
Ion Balance	%	n/v	n/v	0.520	-	0.0400	-	1.80	0.750	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.458	-	0.373	-	0.227	0.266	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.208	-	0.123	-	-0.0230	0.0170	-	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.1	-	<0.10	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.1	-	<0.10	<0.10	-	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	0.013	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	8.17	-	8.08	-	7.96	7.99	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.71	-	7.71	-	7.74	7.72	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.96	-	7.96	-	7.99	7.97	-	-
Sulfate	mg/L	500_h[D]	n/v	26	-	24	-	25	26	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	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	-	-	0.85	-	0.55	0.57	-	-
Total Suspended Solids	mg/L	n/v	n/v	44	-	240	-	<10	<10	-	-
Turbidity, Lab	ntu	5_J[D,E]	n/v	**65[D]**	-	**68[D]**	-	**7.0[D]**	**6.5[D]**	-	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	<25	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	-	-	<25	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	-	-	<100	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	-	-	<200	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	-	-	<200	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	YES	-	YES	YES	-	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	1.4	1.1	1	-	1.1	<1	-	-
Barium	µg/L	1000[B]	1000[GH]	110	100	100	-	99	99	-	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	38	33	32	-	23	22	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	26000	26000	26000	-	25000	26000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	<0.5	-	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	<1.0	<1.0	<1	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	250	<100	220	-	250	250	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	34000	34000	33000	-	34000	34000	-	-
Manganese	µg/L	50[D]	n/v	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	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	1.8	1.7	1.9	-	2.1	1.9	-	-
Nickel	µg/L	n/v	100[GH]	<1.0	<1.0	<1	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2700	2700	2700	-	2500	2500	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	11000	11000	11000	-	10000	11000	-	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	12000	11000	12000	-	12000	12000	-	-
Strontium	µg/L	n/v	n/v	640	640	600	-	600	600	-	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	<0.05	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Uranium	µg/L	20[B]	20[GH]	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	-
Vanadium	µg/L	n/v	6.2[GH]	<0.50	<0.50	<0.5	-	<0.5	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	<5	-	<5.0	<5.0	-	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	<1	-	<1	<1	-	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	<0.05	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	-	<0.05	-	<0.05	<0.05	-	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (cont.)							
Sample Date				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				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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M4069	B4M4069	B561683	B561683	B5K5143	B5K5143	B5K5143	B5K5143
Laboratory Sample ID				YP9573	YP9574	ABP947	ABP948	BCZ965	BCZ967	BCZ966	BCZ969
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						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
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<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	-	<0.5	-	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.3	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.4	-	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5	-	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	<0.20	<0.20	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (cont.)					
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				Field Duplicate		Field Duplicate
General Chemistry									
Acidity	mg/L	n/v	n/v	<10	-	<10	<10	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	190	-	180	180	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.0	-	2.2	2.4	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	180	180	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.077	-	0.074	0.069	-	-
Anion Sum	meq/L	n/v	n/v	4.83	-	4.55	4.57	-	-
Cation Sum	meq/L	n/v	n/v	4.70	-	4.52	4.35	-	-
Chloride	mg/L	250[D]	790[GH]	16	-	14	14	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	<1	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.74	-	0.72	0.72	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	430	-	420	420	-	-
Fluoride	mg/L	1.5$_b$[B]	n/v	0.28	-	0.28	0.28	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	-	**200[E]**	**190[E]**	-	-
Ion Balance	%	n/v	n/v	1.41	-	0.400	2.47	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.386	-	0.370	0.379	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.136	-	0.121	0.129	-	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	<0.10	-	<0.10	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	<0.10	-	<0.10	<0.10	-	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	<0.010	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.010	-	<0.010	<0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	8.05	-	8.13	8.15	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.67	-	7.76	7.77	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.92	-	8.00	8.02	-	-
Sulfate	mg/L	500$_h$[D]	n/v	26	-	26	26	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	188	-	250	270	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	260	-	240	240	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.77	-	1.1	1.1	-	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	12	-	-
Turbidity, Lab	ntu	5$_j$[D] [E]	n/v	4.7	-	**8.9[D]**	**8.8[D]**	-	-
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	YES	-	-
Metals									
Aluminum	µg/L	100[E]	n/v	5.6	-	<5	<5	-	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	1.4	-	1.2	1.2	-	-
Barium	µg/L	1000[B]	1000[GH]	110	-	100	100	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	36	-	29	29	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	27000	-	25000	24000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	170	-	120	110	-	-
Lead	µg/L	10$_c$[B]	10[GH]	<0.5	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	34000	-	33000	31000	-	-
Manganese	µg/L	50[D]	n/v	6.3	-	6.5	6.1	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	1.9	-	1.9	1.8	-	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2600	-	2500	2500	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	10000	-	10000	10000	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	<0.1	-	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	12000	-	12000	11000	-	-
Strontium	µg/L	n/v	n/v	570	-	650	640	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5	-	<5	<5	-	-
Uranium	µg/L	20[B]	20[GH]	<0.1	-	<0.1	<0.1	-	-
Vanadium	µg/L	n/v	6.2[GH]	0.67	-	<0.5	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	<1	-	-
Polychlorinated Biphenyls									
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	<0.05	-	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-D (cont.)					
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20160413-AM07	WG-160900764-20160413-AM07A	WG-160900764-20161101-AM06	WG-160900764-20161101-AM07	WG-160900764-20161101-AM06A	WG-160900764-20161101-AM07A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980	B6N7980	B6N7980
Laboratory Sample ID				CEO882	CEO883	DJK320	DJK322	DJK321	DJK323
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				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
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	n/v	4.1[GH]	<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
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<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
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<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
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds									
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.20	-	<0.20	<0.20	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	<0.20	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_{f}[D]	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<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	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	<0.50	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	<0.50	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	<0.50	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S								
Sample Date				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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals				
General Chemistry												
Acidity	mg/L	n/v	n/v	-	26	14	15	84	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	180	190	190	200	-	-	220	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	1.3	1.8	1.6	1.7	-	-	1.7	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	180	180	190	190	200	-	-	220	-
Ammonia (as N)	mg/L	n/v	n/v	0.37	0.13	0.91	0.72	0.44	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.36	7.11	7.48	7.28	7.82	-	-	8.09	-
Cation Sum	meq/L	n/v	n/v	7.46	6.85	10.6	7.29	7.73	-	-	8.52	-
Chloride	mg/L	250[D]	790[GH]	37	25	25	25	25	-	-	25	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<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	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	740	700	720	710	740	-	-	780	-
Fluoride	mg/L	1.5$_b$[B]	n/v	-	0.16	0.14	0.17	0.15	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**330[E]**	**320[E]**	**490[E]**	**340[E]**	**370[E]**	-	-	**410[E]**	-
Ion Balance	%	n/v	n/v	0.670	1.90	17.3	0.0300	0.580	-	-	2.54	-
Langelier Index (at 20 C)	none	n/v	n/v	0.588	0.597	0.980	0.693	0.714	-	-	0.802	-
Langelier Index (at 4 C)	none	n/v	n/v	0.339	0.348	0.732	0.445	0.467	-	-	0.554	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	5.59	**12.8[B]**	**16.1[B]**	**11.0[B]**	**18.2[B]**	-	-	**17.0[B]**	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	5.62	**12.8[B]**	**16.1[B]**	**11.5[B]**	**18.2[B]**	-	-	**17.0[B]**	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	0.027	0.033	<0.010	0.511	0.108	-	-	0.030	-
Orthophosphate(as P)	mg/L	n/v	n/v	<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	-
Saturation pH (at 20 C)	none	n/v	n/v	7.25	7.29	7.02	7.28	7.23	-	-	7.11	-
Saturation pH (at 4 C)	none	n/v	n/v	7.50	7.54	7.27	7.52	7.48	-	-	7.36	-
Sulfate	mg/L	500$_h$[D]	n/v	110	90	87	95	84	-	-	85	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	416	454	**534[D]**	**616[D]**	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	490	-
Total Organic Carbon	mg/L	n/v	n/v	-	1.5	2.7	2.5	2.7	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	1800	400	230	2600	340	-	35	-
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	-	**100[D]**	**120[D]**	**76[D]**	**580[D]**	**46[D]**	-	**12[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	-
Toluene	µg/L	24[D]	24[G] 22[H]	1.0	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	1.2	<0.20	<0.20	<0.20	< 0.40	<0.20	-	<0.20	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	0.49	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	1.7	<0.20	<0.20	<0.20	< 0.40	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	<100	<100	<100	< 100	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	<200	<200	<200	< 200	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	<200	<200	<200	< 200	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-
Metals												
Aluminum	µg/L	100[E]	n/v	<5.0	7.0	-	<5.0	5.4	-	-	<5.0	<5.0
Antimony	µg/L	6[C]	6[GH]	<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
Barium	µg/L	1000[B]	1000[GH]	110	59	-	63	66	-	-	73	69
Beryllium	µg/L	n/v	4[GH]	<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
Cadmium	µg/L	5[B]	2.1[GH]	<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
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.50	<0.50	<5.0	<5.0	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	0.85	<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
Iron	µg/L	300[D]	n/v	<100	<100	-	<100	<100	-	-	<100	<100
Lead	µg/L	10$_c$[B]	10[GH]	<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
Manganese	µg/L	50[D]	n/v	35	16	-	14	5.8	-	-	9.3	9.3
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.1	<0.1	<0.10	<0.1	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	13	9.1	-	15	11	-	-	4.6	5.1
Nickel	µg/L	n/v	100[GH]	<1.0	<1.0	-	<1.0	<1.0	-	-	<1.0	1.3
Phosphorus	µg/L	n/v	n/v	<100	<100	-	<100	<100	-	-	<100	<100
Potassium	µg/L	n/v	n/v	12000	5500	-	6200	5100	-	-	3700	3700
Rubidium	µg/L	n/v	n/v	6.9	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<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
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	13000	6800	-	7100	6300	-	-	6300	6000
Strontium	µg/L	n/v	n/v	420	370	-	400	400	-	-	370	370
Thallium	µg/L	n/v	2[GH]	<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
Uranium	µg/L	20[B]	20[GH]	3.6	3.1	-	3.0	3.0	-	-	2.2	2.3
Vanadium	µg/L	n/v	6.2[GH]	0.75	<0.50	-	<0.50	0.63	-	-	<0.50	0.54
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	-	<5.0	<5.0	-	-	6.5	5.2
Zirconium	µg/L	n/v	n/v	<1.0	-	-	-	<1.0	-	-	<1.0	<1.0
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.5	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	<0.05	<0.05	<0.05	***<0.5***	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S								
Sample Date				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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069
Laboratory Sample ID				UH4001	VG2315	VV0844	XD5197	XV9683	YO3444	YO3445	YP9575	YP9576
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	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
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.5	0.1	0.1	<2	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	<0.5	<0.1	<0.1	<2	<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
Acenaphthylene	µg/L	n/v	1[GH]	-	<1	<0.2	<0.2	***<4***	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	0.3	0.05	<0.05	<1	0.15	<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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[G] 0.1[H]	-	**0.4[GH]**	0.06	<0.05	***<1***	0.10	<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
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
Chrysene	µg/L	n/v	0.1[GH]	-	**0.4[GH]**	0.06	<0.05	***<1***	0.10	<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
Fluoranthene	µg/L	n/v	0.41[GH]	-	***<1***	<0.2	<0.2	***<4***	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3G] 3.2[s3H]	-	<1.4	<0.28	<0.28	***<5.7***	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3GH]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3GH]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<1	<0.2	<0.2	<4	<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
Pyrene	µg/L	n/v	4.1[GH]	-	0.9	0.14	0.11	<1	0.24	<0.05	<0.05	<0.05
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
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<3	<0.5	<0.5	***<10***	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<5	<1	<1	***<20***	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	***<3***	<0.5	<0.5	***<10***	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[tD]	20[GH]	-	***<0.5***	<0.1	<0.1	***<2***	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<10	<2	<2	***<40***	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[s13G] 5[s13H]	-	<1	<0.3	<0.3	<5	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[s13G] 5[s13H]	-	<1	<0.3	<0.3	<5	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30[tD]	30[GH]	-	<0.5	<0.1	<0.1	<2	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.5	<0.1	<0.1	<2	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<1	<0.2	<0.2	<4	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[tD]	2[GH]	-	<1	<0.2	<0.2	***<4***	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[tD]	30[GH]	-	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3[tD]	3[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1[tD]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	<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	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11G] 0.5[s11H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	[s11GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	[s11GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	<10	<10	<10	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	-	<0.50	<0.50	<0.50	<0.50	<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	-
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	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<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	-
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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<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	-
Trihalomethanes	µg/L	100[eB]	n/v	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (cont.)							
Sample Date				8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS								
General Chemistry											
Acidity	mg/L	n/v	n/v	11	-	13	-	18	-	20	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	-	210	-	220	-	210	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.3	-	1.3	-	1.8	-	1.8	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	-	210	-	230	-	210	-
Ammonia (as N)	mg/L	n/v	n/v	<0.05	-	0.14	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	8.20	-	7.97	-	8.20	-	7.57	-
Cation Sum	meq/L	n/v	n/v	8.25	-	8.20	-	7.69	-	7.42	-
Chloride	mg/L	250[D]	790[GH]	26	-	25	-	25	-	26	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.96	-	0.85	-	1.2	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	790	-	770	-	780	-	720	-
Fluoride	mg/L	1.5_b[B]	n/v	0.13	-	0.14	-	0.10	-	0.15	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**400[E]**	-	**390[E]**	-	**370[E]**	-	**350[E]**	-
Ion Balance	%	n/v	n/v	0.300	-	1.40	-	3.17	-	1.01	-
Langelier Index (at 20 C)	none	n/v	n/v	0.682	-	0.662	-	0.795	-	0.755	-
Langelier Index (at 4 C)	none	n/v	n/v	0.434	-	0.413	-	0.547	-	0.507	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	**20.4[B]**	-	**16.7[B]**	-	**16.7[B]**	-	9.45	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	**20.4[B]**	-	**16.8[B]**	-	**16.7[B]**	-	9.45	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.01	-	0.058	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.01	-	<0.010	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.81	-	7.82	-	7.93	-	7.96	-
Saturation pH (at 20 C)	none	n/v	n/v	7.13	-	7.16	-	7.14	-	7.20	-
Saturation pH (at 4 C)	none	n/v	n/v	7.38	-	7.41	-	7.38	-	7.45	-
Sulfate	mg/L	500_h[D]	n/v	87	-	88	-	86	-	97	-
Total Dissolved Solids	mg/L	500[D]	n/v	476	-	458	-	496	-	468	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	490	-	470	-	470	-	430	-
Total Organic Carbon	mg/L	n/v	n/v	0.97	-	0.98	-	1.3	-	1.4	-
Total Suspended Solids	mg/L	n/v	n/v	10	-	17	-	<10	-	100	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**6.6[D]**	-	**5.4[D]**	-	**6.3[D]**	-	**8.7[D]**	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-	YES	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5	-	<5.0	-	<5	-	<5	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	62	-	59	-	61	-	61	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	12	-	12	-	11	-	23	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	100000	-	94000	-	95000	-	88000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	0.80	-	<0.50	-	0.83	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	35000	-	38000	-	33000	-	33000	-
Manganese	µg/L	50[D]	n/v	5.7	-	11	-	3.4	-	8.2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	3.2	-	5.9	-	1.7	-	5	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	2800	-	4100	-	2300	-	4100	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	7600	-	7800	-	6900	-	6900	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	5400	-	6500	-	5000	-	5900	-
Strontium	µg/L	n/v	n/v	340	-	390	-	310	-	360	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	1.8	-	2.8	-	1.7	-	2.8	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	0.54	-	0.83	-	0.56	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-	<1	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW1-13-S (cont.)							
Sample Date				8-Apr-15	8-Apr-15	7-Oct-15	7-Oct-15	13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20150408-RD04	WG-160900764-20150408-RD04A	WG-160900764-20151007-RD12	WG-160900764-20151007-RD12A	WG-160900764-20160413-AM08	WG-160900764-20160413-AM08A	WG-160900764-20161102-AM13	WG-160900764-20161102-AM13A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K5143	B5K5143	B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				ABP945	ABP946	BCZ963	BCZ964	CEO884	CEO885	DJO980	DJO981
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS								
Semi - Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_t$[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_t$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.5	-	<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	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	30[GH]	<0.2	-	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	3[GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.2	-	<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	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.2	-	<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	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.5	-	<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	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.4	-	<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	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5	-	<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	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.5	-	<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	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	-	<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	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	-	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_a$[B]	n/v	-	-	<0.20	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D							
Sample Date				13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals				
General Chemistry											
Acidity	mg/L	n/v	n/v	-	<10	<10	<10	-	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	120	88	88	89	97	-	98	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	1.8	1.8	1.5	2.0	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	120	90	90	91	99	-	99	-
Ammonia (as N)	mg/L	n/v	n/v	0.34	<0.050	<0.050	0.27	0.063	-	0.066	-
Anion Sum	meq/L	n/v	n/v	3.78	2.27	2.14	2.14	2.23	-	2.41	-
Cation Sum	meq/L	n/v	n/v	4.05	64.8	2.08	2.18	2.11	-	2.01	-
Chloride	mg/L	250[D]	790[GH]	21	6	3	2	2	-	9	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<2	<2	<2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**14[D]**	3.2	2.9	2.5	2.0	-	3.5	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	380	200	200	200	190	-	190	-
Fluoride	mg/L	1.5$_b$[B]	n/v	-	0.96	0.84	0.78	-	-	0.97	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**130[E]**	**3200[E]**	**45[E]**	**49[E]**	**43[E]**	-	**39[E]**	-
Ion Balance	%	n/v	n/v	3.37	93.2	<0	<0	<0	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	0.359	2.02	-0.106	-0.175	-0.0410	-	-0.324	-
Langelier Index (at 4 C)	none	n/v	n/v	0.109	1.77	-0.355	-0.423	-0.292	-	-0.574	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	0.96	<0.10	<0.10	<0.10	<0.10	-	<0.1	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	0.99	<0.10	<0.10	<0.10	<0.10	-	<0.1	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	0.023	<0.010	<0.010	<0.010	<0.010	-	<0.01	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.01	-
pH	S.U.	6.5-8.5[E]	n/v	8.15	8.35	8.33	8.27	8.35	-	8.13	-
Saturation pH (at 20 C)	none	n/v	n/v	7.79	6.33	8.44	8.44	8.39	-	8.46	-
Saturation pH (at 4 C)	none	n/v	n/v	8.04	6.58	8.69	8.69	8.64	-	8.71	-
Sulfate	mg/L	500$_h$[D]	n/v	38	11	11	11	10	-	6	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	170	276	346	-	-	230	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	130	-	130	-
Total Organic Carbon	mg/L	n/v	n/v	-	11	3.5	2.5	-	-	4.3	-
Total Suspended Solids	mg/L	n/v	n/v	-	18000	12000	7400	40	-	250	-
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	-	**1400[D]**	**3100[D]**	**5200[D]**	**110[D]**	-	**120[D]**	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5[G] 5[H]	**1.7[G]**	**0.77[G]**	0.32	0.31	<0.20	-	0.23	-
Toluene	µg/L	24[D]	24[G] 22[H]	3.4	1.4	0.82	0.96	0.44	-	0.58	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	0.49	0.22	<0.20	< 0.20	<0.20	-	<0.2	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	1.7	0.82	0.52	0.74	0.29	-	0.44	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	0.61	0.31	<0.20	0.30	<0.20	-	<0.2	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	2.3	1.1	0.52	1.0	0.29	-	0.44	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	< 25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	<25	<25	< 25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	<100	<100	< 100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	<200	<200	< 200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	<200	<200	< 200	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	-	-	YES	-
Metals											
Aluminum	µg/L	100[E]	n/v	6.9	-	13	14	7.6	9.0	12	-
Antimony	µg/L	6[C]	6[GH]	<0.50	-	<0.50	<0.50	<0.50	<0.50	0.54	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	-	1.4	1.2	<1.0	<1.0	<1	-
Barium	µg/L	1000[B]	1000[GH]	100	-	33	42	28	26	19	-
Beryllium	µg/L	n/v	4[GH]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	150	-	140	130	140	130	120	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.1	-
Calcium	µg/L	n/v	n/v	34000	-	11000	11000	9300	8700	8800	-
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	-	-	<0.5	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1.0	-	3.5	<1.0	<1.0	<1.0	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	<100	<100	<100	<100	-
Lead	µg/L	10$_c$[B]	10[GH]	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.5	-
Magnesium	µg/L	n/v	n/v	11000	-	4600	5300	4800	4600	4100	-
Manganese	µg/L	50[D]	n/v	7.6	-	2.8	3.2	2.6	2.6	5.2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00016	<0.10	<0.1	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	22	-	8.6	5.4	3.6	3.7	7.5	-
Nickel	µg/L	n/v	100[GH]	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	<100	<100	<100	-
Potassium	µg/L	n/v	n/v	7700	-	2600	2200	2200	2100	2300	-
Rubidium	µg/L	n/v	n/v	1.9	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2	-
Silicon	µg/L	n/v	n/v	4900	-	4000	4400	4700	4800	4400	-
Silver	µg/L	n/v	1.2[GH]	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.1	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	**27000[F]**	-	**25000[F]**	**26000[F]**	**27000[F]**	**25000[F]**	**27000[F]**	-
Strontium	µg/L	n/v	n/v	470	-	240	290	240	240	210	-
Thallium	µg/L	n/v	2[GH]	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-
Uranium	µg/L	20[B]	20[GH]	0.57	-	0.64	0.48	<0.10	<0.10	<0.1	-
Vanadium	µg/L	n/v	6.2[GH]	1.0	-	1.6	2.3	<0.50	<0.50	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5	-
Zirconium	µg/L	n/v	n/v	<1.0	-	-	<1.0	<1.0	<1.0	<1	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.5	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.5	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.5	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.5	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	<0.05	<0.05	***<0.5***	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D							
Sample Date				13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	26-Nov-14	26-Nov-14	10-Apr-15	10-Apr-15
Sample ID				CLARS1213TWG-160960745-20131213-JK3	MW2-13-D	MW2-13-D	WG-160900764-20141002-JK11	WG-160900764-20141126 RD01	WG-160900764-20141126 RD01A	WG-160900764-20150410-RD11	WG-160900764-20150410-RD11A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B4E7727	B4I4645	B4M4069	B4M4069	B563828	B563828
Laboratory Sample ID				UH4003	VV0846	XD5195	XV9685	YP9569	YP9570	ABZ562	ABZ563
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals				
Semi - Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	4	<1	<1	1	<1	2	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.2	<0.1	<0.1	0.2	0.2	<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
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
Acenaphthylene	µg/L	n/v	1[GH]	-	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	0.06	<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	**0.02[BGH]**	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	-	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	0.07	<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
Fluoranthene	µg/L	n/v	0.41[GH]	-	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	-	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	0.13	<0.05	0.12	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_t$[D]	20[GH]	-	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	30[GH]	-	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_t$[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	-	<1	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	30[GH]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	3[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1.0	<1.0	<1.0	<1.0	-	<1	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.30	<0.30	<0.30	<0.30	-	<0.3	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.40	<0.40	<0.40	<0.40	-	<0.4	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	-	<1	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	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	<5.0	<5.0	-	<5	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	-	<2	-
Styrene	µg/L	n/v	5.4[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.5	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	-	<0.2	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (cont.)					
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A	WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B6N7980	B6N7980
Laboratory Sample ID				BCZ972	BCZ973	CER543	CER544	DJK306	DJK307
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						
General Chemistry									
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	100	-	93	-	89	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	<1.0	-	1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	100	-	93	-	90	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	2.29	-	2.10	-	2.02	-
Cation Sum	meq/L	n/v	n/v	2.19	-	2.16	-	1.91	-
Chloride	mg/L	250[D]	790[GH]	2.3	-	<1.0	-	1.8	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	3.4	-	1.0	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	180	-	190	-	190	-
Fluoride	mg/L	1.5_b[B]	n/v	0.91	-	0.84	-	0.79	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**43[E]**	-	**47[E]**	-	**42[E]**	-
Ion Balance	%	n/v	n/v	NC	-	NC	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	-0.121	-	-0.623	-	-0.410	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.372	-	-0.874	-	-0.660	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.26	-	7.77	-	8.08	-
Saturation pH (at 20 C)	none	n/v	n/v	8.38	-	8.40	-	8.49	-
Saturation pH (at 4 C)	none	n/v	n/v	8.63	-	8.65	-	8.74	-
Sulfate	mg/L	500_h[D]	n/v	4.3	-	9.2	-	6.3	-
Total Dissolved Solids	mg/L	500[D]	n/v	118	-	136	-	166	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	130	-	120	-	110	-
Total Organic Carbon	mg/L	n/v	n/v	4.2	-	1.3	-	1.2	-
Total Suspended Solids	mg/L	n/v	n/v	42	-	<10	-	15	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**160[D]**	-	1.0	-	5.0	-
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	0.57	-	<0.20	-	0.33	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.41	-	<0.20	-	0.26	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.41	-	<0.20	-	0.26	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-
Metals									
Aluminum	µg/L	100[E]	n/v	8.1	-	<5	-	5.9	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	19	-	20	-	18	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	120	-	100	-	110	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	9000	-	9900	-	8500	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	5000	-	5400	-	5000	-
Manganese	µg/L	50[D]	n/v	4	-	3.6	-	3.2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	6.8	-	3.4	-	3.1	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	2200	-	1800	-	2100	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4900	-	4600	-	4500	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**29000[F]**	-	**27000[F]**	-	**23000[F]**	-
Strontium	µg/L	n/v	n/v	240	-	260	-	250	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	<0.1	-	0.11	-	<0.1	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	<0.5	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-
Polychlorinated Biphenyls									
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-D (cont.)					
Sample Date				7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20151007-RD16	WG-160900764-20151007-RD16A	WG-160900764-20160414-AM15	WG-160900764-20160414-AM15A	WG-160900764-20161101-AM04	WG-160900764-20161101-AM04A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B5K5143	B5K5143	B674631	B674631	B6N7980	B6N7980
Laboratory Sample ID				BCZ972	BCZ973	CER543	CER544	DJK306	DJK307
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						
Semi - Volatile Organic Compounds									
Phthalates									
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	n/v	4.1[GH]	<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
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<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
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<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
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds									
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_e[B]	n/v	<0.20	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S							
Sample Date				13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14
Sample ID				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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals				
General Chemistry											
Acidity	mg/L	n/v	n/v	-	<10	<10	<10	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	190	190	190	-	-	190	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.0	2.5	2.4	2.2	-	-	2.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	190	200	190	-	-	190	-
Ammonia (as N)	mg/L	n/v	n/v	0.16	0.15	0.12	0.23	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.12	4.51	4.63	4.49	-	-	4.46	-
Cation Sum	meq/L	n/v	n/v	5.11	52.6	4.47	4.55	-	-	4.49	-
Chloride	mg/L	250[D]	790[GH]	9	6	5	5	-	-	5	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<2	<2	<2	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.3	1.2	0.93	1.5	-	-	1.2	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	490	390	410	410	-	-	410	-
Fluoride	mg/L	1.5_b[B]	n/v	-	0.27	0.27	0.27	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	**2600[E]**	**190[E]**	**200[E]**	-	-	**200[E]**	-
Ion Balance	%	n/v	n/v	0.110	84.2	1.85	0.610	-	-	0.290	-
Langelier Index (at 20 C)	none	n/v	n/v	0.606	2.02	0.565	0.497	-	-	0.538	-
Langelier Index (at 4 C)	none	n/v	n/v	0.357	1.77	0.316	0.249	-	-	0.289	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	0.18	<0.10	<0.10	<0.10	-	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	0.18	<0.10	<0.10	<0.10	-	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<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	-
pH	S.U.	6.5-8.5[E]	n/v	8.03	8.15	8.11	8.09	-	-	8.11	-
Saturation pH (at 20 C)	none	n/v	n/v	7.42	6.13	7.55	7.59	-	-	7.57	-
Saturation pH (at 4 C)	none	n/v	n/v	7.67	6.38	7.80	7.84	-	-	7.82	-
Sulfate	mg/L	500_h[D]	n/v	39	27	26	23	-	-	23	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	228	300	380	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	240	-
Total Organic Carbon	mg/L	n/v	n/v	-	2.7	4.2	2.1	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	3200	2100	5900	2800	-	45	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	-	**550[D]**	**1100[D]**	**3800[D]**	**420[D]**	-	**34[D]**	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	0.83	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.70	0.23	0.24	< 0.40	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.70	0.23	0.24	< 0.40	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	< 25	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	<25	< 25	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	<100	< 100	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	<200	< 200	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	<200	< 200	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	-	-	-	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5.0	-	<5.0	7.3	-	-	<5.0	<5.0
Antimony	µg/L	6[C]	6[GH]	<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
Barium	µg/L	1000[B]	1000[GH]	77	-	53	58	-	-	60	58
Beryllium	µg/L	n/v	4[GH]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50
Boron	µg/L	5000[C]	5000[GH]	49	-	53	54	-	-	52	45
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10
Calcium	µg/L	n/v	n/v	48000	-	38000	37000	-	-	35000	34000
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	-	<5.0	<5.0	-	-	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50
Copper	µg/L	1000[D]	69[GH]	<1.0	-	<1.0	<1.0	-	-	1.7	<1.0
Iron	µg/L	300[D]	n/v	<100	-	<100	<100	-	-	<100	<100
Lead	µg/L	10_c[B]	10[GH]	<0.50	-	<0.50	<0.50	-	-	<0.50	<0.50
Magnesium	µg/L	n/v	n/v	22000	-	24000	25000	-	-	26000	25000
Manganese	µg/L	50[D]	n/v	<2.0	-	<2.0	<2.0	-	-	13	12
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00011	<0.10	<0.1	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	20	-	4.8	4.5	-	-	3.5	3.4
Nickel	µg/L	n/v	100[GH]	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0
Phosphorus	µg/L	n/v	n/v	<100	-	<100	<100	-	-	<100	<100
Potassium	µg/L	n/v	n/v	5600	-	3000	3300	-	-	2900	2600
Rubidium	µg/L	n/v	n/v	0.96	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	-	<2.0	<2.0	-	-	<2.0	<2.0
Silicon	µg/L	n/v	n/v	6200	-	7700	8200	-	-	7700	7600
Silver	µg/L	n/v	1.2[GH]	<0.10	-	<0.10	<0.10	-	-	<0.10	<0.10
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	17000	-	11000	12000	-	-	11000	10000
Strontium	µg/L	n/v	n/v	400	-	460	500	-	-	520	510
Thallium	µg/L	n/v	2[GH]	<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
Uranium	µg/L	20[B]	20[GH]	1.4	-	1.2	1.0	-	-	0.74	0.76
Vanadium	µg/L	n/v	6.2[GH]	1.0	-	1.5	1.6	-	-	0.73	0.77
Zinc	µg/L	5000[D]	890[GH]	<5.0	-	<5.0	10	-	-	5.6	<5.0
Zirconium	µg/L	n/v	n/v	<1.0	-	-	<1.0	-	-	<1.0	<1.0
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	<0.05	<0.05	<0.05	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S							
Sample Date				13-Dec-13	7-May-14	15-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	26-Nov-14	26-Nov-14
Sample ID				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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B4E7727	B4I4645	B4M0745	B4M0745	B4M4069	B4M4069
Laboratory Sample ID				UH4004	VV0845	XD5196	XV9684	YO3442	YO3443	YP9571	YP9572
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals				
Semi - Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	**16[GH]**	4	5	**12[GH]**	<1	2	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.2	0.5	0.2	<0.1	0.3	0.3	0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	<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
Acenaphthylene	µg/L	n/v	1[GH]	-	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	<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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	-	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<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
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
Fluoranthene	µg/L	n/v	0.41[GH]	-	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<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
Pyrene	µg/L	n/v	4.1[GH]	-	<0.05	<0.05	0.08	0.10	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_t[D]	20[GH]	-	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_t[D]	30[GH]	-	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_t[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<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	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<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	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_t[D]	30[GH]	-	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_t[D]	3[GH]	-	<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	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_t[D]	0.5[G] 1[H]	-	<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	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<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	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	<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	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	-	<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	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.30	<0.30	<0.30	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<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	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	<10	<10	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<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	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<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	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	-	<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	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<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	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	-	<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	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (cont.)							
Sample Date				14-Apr-15	14-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A	WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B565881	B565881	B5K5143	B5K5143	B674631	B674631	B674631	B674631
Laboratory Sample ID				ACK475	ACK476	BCZ970	BCZ971	CER541	CER545	CER542	CER546
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate
General Chemistry											
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<10	<10	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	-	190	-	190	190	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	<1	-	1.4	-	1.5	1.6	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	180	-	190	-	190	190	-	-
Ammonia (as N)	mg/L	n/v	n/v	0.052	-	0.10	-	<0.050	<0.050	-	-
Anion Sum	meq/L	n/v	n/v	4.26	-	4.47	-	4.41	4.38	-	-
Cation Sum	meq/L	n/v	n/v	4.27	-	4.61	-	4.30	4.17	-	-
Chloride	mg/L	250[D]	790[GH]	5	-	5.1	-	5.1	5.2	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.64	-	0.81	-	0.75	0.81	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	380	-	400	-	380	380	-	-
Fluoride	mg/L	1.5_b[B]	n/v	0.27	-	0.28	-	0.28	0.28	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**190[E]**	-	**200[E]**	-	**190[E]**	**180[E]**	-	-
Ion Balance	%	n/v	n/v	0.160	-	1.55	-	1.29	2.49	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.0180	-	0.304	-	0.318	0.324	-	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.232	-	0.0540	-	0.0690	0.0740	-	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.1	-	<0.10	-	<0.10	<0.10	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	-	-	<0.10	-	<0.10	<0.10	-	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.01	-	<0.010	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.01	-	<0.010	-	<0.010	0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.63	-	7.88	-	7.93	7.96	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.61	-	7.58	-	7.61	7.64	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.86	-	7.83	-	7.86	7.89	-	-
Sulfate	mg/L	500_h[D]	n/v	22	-	21	-	23	23	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	220	-	234	234	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	240	-	230	220	-	-
Total Organic Carbon	mg/L	n/v	n/v	0.88	-	0.91	-	1.1	1.0	-	-
Total Suspended Solids	mg/L	n/v	n/v	15	-	<10	-	10	13	-	-
Turbidity, Lab	ntu	5_J[D,E]	n/v	**6.9[D]**	-	3.7	-	**9.9[D]**	**7.5[D]**	-	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	-	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5	-	<5.0	-	<5	<5	-	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-	<1	<1	-	-
Barium	µg/L	1000[B]	1000[GH]	47	-	62	-	59	58	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	23	-	42	-	38	35	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	33000	-	34000	-	32000	31000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5.0	-	<5	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	<100	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	25000	-	29000	-	27000	26000	-	-
Manganese	µg/L	50[D]	n/v	49	-	**55[D]**	-	21	20	-	-
Mercury	µg/L	1[B]	0.1_{s1}[G] 0.29_{s1}[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	2.5	-	2.8	-	2.5	2.3	-	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2300	-	2600	-	2200	2100	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	6800	-	8600	-	6800	6600	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	10000	-	11000	-	10000	9700	-	-
Strontium	µg/L	n/v	n/v	470	-	570	-	520	520	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	<5	-	-
Uranium	µg/L	20[B]	20[GH]	0.6	-	0.57	-	0.49	0.56	-	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	<0.5	-	0.73	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5.0	-	<5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	<1	-	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	<0.05	<0.05	-	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (cont.)							
Sample Date				14-Apr-15	14-Apr-15	7-Oct-15	7-Oct-15	14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16
Sample ID				WG-160900764-20150414-RD15	WG-160900764-20150414-RD15A	WG-160900764-20151007-RD15	WG-160900764-20151007-RD15A	WG-160900764-20160414-AM14	WG-160900764-20160414-AM16	WG-160900764-20160414-AM14A	WG-160900764-20160414-AM16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B565881	B565881	B5K5143	B5K5143	B674631	B674631	B674631	B674631
Laboratory Sample ID				ACK475	ACK476	BCZ970	BCZ971	CER541	CER545	CER542	CER546
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						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
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	-	<1.0	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.5	-	<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	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<0.2	-	<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	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.5	-	<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	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1	-	<1.0	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.2	-	<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	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.2	-	<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	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.5	-	<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	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.3	-	<0.30	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.4	-	<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	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	-	<1.0	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5	-	<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	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2	-	<2.0	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.5	-	<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	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	-	<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	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	-	<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	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.5	-	<0.50	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-	<0.20	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.2	-	<0.20	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (cont.)	
Sample Date				1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A
Sampling Company				STANTEC	STANTEC
Laboratory				MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980
Laboratory Sample ID				DJK304	DJK305
Filtered				Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		
General Chemistry					
Acidity	mg/L	n/v	n/v	13	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	2.2	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-
Anion Sum	meq/L	n/v	n/v	4.73	-
Cation Sum	meq/L	n/v	n/v	4.57	-
Chloride	mg/L	250[D]	790[GH]	5.5	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	440	-
Fluoride	mg/L	1.5_b[B]	n/v	0.30	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**200[E]**	-
Ion Balance	%	n/v	n/v	1.71	-
Langelier Index (at 20 C)	none	n/v	n/v	0.513	-
Langelier Index (at 4 C)	none	n/v	n/v	0.264	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.06	-
Saturation pH (at 20 C)	none	n/v	n/v	7.55	-
Saturation pH (at 4 C)	none	n/v	n/v	7.80	-
Sulfate	mg/L	500_h[D]	n/v	24	-
Total Dissolved Solids	mg/L	500[D]	n/v	262	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	250	-
Total Organic Carbon	mg/L	n/v	n/v	2.3	-
Total Suspended Solids	mg/L	n/v	n/v	56	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**14[D]**	-
BTEX and Petroleum Hydrocarbons					
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-
Metals					
Aluminum	µg/L	100[E]	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]	66	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	52	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-
Calcium	µg/L	n/v	n/v	36000	-
Cesium	µg/L	n/v	n/v	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-
Iron	µg/L	300[D]	n/v	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-
Magnesium	µg/L	n/v	n/v	28000	-
Manganese	µg/L	50[D]	n/v	27	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	2.6	-
Nickel	µg/L	n/v	100[GH]	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-
Potassium	µg/L	n/v	n/v	2600	-
Rubidium	µg/L	n/v	n/v	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-
Silicon	µg/L	n/v	n/v	7800	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	10000	-
Strontium	µg/L	n/v	n/v	610	-
Thallium	µg/L	n/v	2[GH]	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-
Uranium	µg/L	20[B]	20[GH]	0.58	-
Vanadium	µg/L	n/v	6.2[GH]	0.74	-
Zinc	µg/L	5000[D]	890[GH]	<5	-
Zirconium	µg/L	n/v	n/v	<1	-
Polychlorinated Biphenyls					
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW2-13-S (cont.)	
Sample Date				1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20161101-AM03	WG-160900764-20161101-AM03A
Sampling Company				STANTEC	STANTEC
Laboratory				MAXX	MAXX
Laboratory Work Order				B6N7980	B6N7980
Laboratory Sample ID				DJK304	DJK305
Filtered				Field Filtered Metals	Lab Filtered Metals
Sample Type	**Units**	**ODWS**	**Ontario SCS**		
Semi - Volatile Organic Compounds					
Phthalates					
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	0.2	0.2
Dimethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds					
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2
Volatile Organic Compounds					
Acetone	µg/L	n/v	2700[GH]	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	0.5[G] 1[H]	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D								
Sample Date				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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885
Laboratory Sample ID				VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals						
General Chemistry												
Acidity	mg/L	n/v	n/v	11	11	<10	-	-	14	-	13	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	150	150	160	170	-	170	-	170	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.1	1.0	1.3	1.5	-	<1	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	150	150	160	170	-	170	-	170	-
Ammonia (as N)	mg/L	n/v	n/v	0.29	0.34	0.45	-	-	<0.05	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	16.3	17.2	16.3	19.6	-	20.1	-	19.3	-
Cation Sum	meq/L	n/v	n/v	18.3	17.6	17.9	20.0	-	21.4	-	21.0	-
Chloride	mg/L	250[D]	790[GH]	23	21	22	28	-	28	-	24	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<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	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1600	1700	1600	1800	-	1900	-	1800	-
Fluoride	mg/L	1.5_b[B]	n/v	0.31	0.28	0.30	-	-	0.30	-	0.29	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**510[E]**	**510[E]**	**510[E]**	**580[E]**	-	**640[E]**	-	**600[E]**	-
Ion Balance	%	n/v	n/v	5.59	1.08	4.65	1.08	-	3.13	-	4.31	-
Langelier Index (at 20 C)	none	n/v	n/v	0.598	0.568	0.645	0.758	-	0.603	-	0.415	-
Langelier Index (at 4 C)	none	n/v	n/v	0.353	0.323	0.399	0.513	-	0.358	-	0.171	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	<0.10	0.97	-	0.97	-	0.65	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	<0.10	0.97	-	0.97	-	0.70	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	0.019	<0.010	<0.010	-	<0.01	-	0.047	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	-	<0.01	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.91	7.88	7.93	7.97	-	7.77	-	7.61	-
Saturation pH (at 20 C)	none	n/v	n/v	7.31	7.31	7.29	7.21	-	7.17	-	7.19	-
Saturation pH (at 4 C)	none	n/v	n/v	7.56	7.56	7.53	7.45	-	7.41	-	7.44	-
Sulfate	mg/L	500_h[D]	n/v	**610[D]**	**660[D]**	**600[D]**	**740[D]**	-	**760[D]**	-	**730[D]**	-
Total Dissolved Solids	mg/L	500[D]	n/v	**1140[D]**	**1320[D]**	**1270[D]**	-	-	**1490[D]**	-	**1410[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	**1300[D]**	-	**1300[D]**	-	**1300[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	22	7.0	3.4	-	-	2.8	-	2.0	-
Total Suspended Solids	mg/L	n/v	n/v	5200	5400	980	40	-	200	-	36	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**1300[D]**	**100[D]**	**610[D]**	**22[D]**	-	**45[D]**	-	**23[D]**	-
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5[B]	0.5_{s7}[G] 5[H]	<0.20	<0.20	< 0.20	<0.20	-	<0.2	-	< 0.20	-
Toluene	µg/L	24[D]	24_{s7}[G] 22[H]	0.27	<0.20	< 0.20	<0.20	-	<0.2	-	< 0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.20	< 0.20	<0.20	-	<0.2	-	< 0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.20	<0.20	< 0.40	<0.20	-	<0.2	-	< 0.40	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	< 0.20	<0.20	-	<0.2	-	< 0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.20	<0.20	< 0.40	<0.20	-	<0.2	-	< 0.40	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	< 25	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	< 25	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	< 100	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	< 200	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	< 200	-	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	-	-	YES	-	YES	-
Metals												
Aluminum	µg/L	100[E]	n/v	18	8.1	7.5	<5	<5	<5	-	<5.0	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	0.58	<0.5	<0.5	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1.0	<1.0	<1	<1	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	33	27	31	35	37	24	-	25	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	430	370	380	390	420	350	-	310	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	120000	130000	120000	140000	150000	160000	-	150000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	<5	<5	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	<0.50	-	-	<0.5	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	0.84	0.54	<0.5	<0.5	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	1.2	<1.0	<1.0	3.4	2.4	1.3	-	1.1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	48000	47000	50000	58000	64000	59000	-	55000	-
Manganese	µg/L	50[D]	n/v	23	**74[D]**	37	18	19	22	-	18	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.10	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	**81[GH]**	51	58	**74[GH]**	**78[GH]**	67	-	56	-
Nickel	µg/L	n/v	100[GH]	3.2	1.6	1.7	2.1	2.1	1.8	-	1.5	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	17000	9500	9400	10000	11000	9800	-	7500	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	<2	<2	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4700	4500	4500	5000	5300	4700	-	4300	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**180000[F]**	**160000[F]**	**170000[F]**	**190000[F]**	**210000[DF]**	**190000[F]**	-	**200000[F]**	-
Strontium	µg/L	n/v	n/v	1500	1600	1900	2200	2400	2200	-	2200	-
Thallium	µg/L	n/v	2[GH]	0.11	<0.050	<0.050	<0.05	<0.05	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	<5	<5	<5	-	<5.0	-
Uranium	µg/L	20[B]	20[GH]	7.5	6.1	7.0	5.8	6.4	7.3	-	6	-
Vanadium	µg/L	n/v	6.2[GH]	0.74	<0.50	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	21	17	18	8.5	<5	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	-	<1.0	<1	<1	<1	-	<1	-
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D								
Sample Date				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
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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B476124	B4E7727	B4I4645	B4O2426	B4O2426	B561683	B561683	B5K2885	B5K2885
Laboratory Sample ID				VV5728	XD5193	XV9678	YY7643	YY7644	ABP941	ABP942	BCN649	BCN651
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	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]	-	**16[GH]**	**41[GH]**	3	<1	2	<1	1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.5	<0.4	<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
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
Acenaphthylene	µg/L	n/v	1[GH]	-	<1	<0.8	<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
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
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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	-	***<0.3***	**0.3[GH]**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	***<0.3***	***<0.4***	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	***<0.3***	***<0.2***	<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
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
Fluoranthene	µg/L	n/v	0.41[GH]	-	***<1***	***<0.8***	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	-	<1.4	<1.1	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<1	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<1	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<1	<0.8	<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
Pyrene	µg/L	n/v	4.1[GH]	-	0.5	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.5	<0.4	<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
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<3	<2	<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
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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	***<3***	***<2***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	-	***<0.5***	***<0.4***	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<10	<8	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	-	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	-	<0.5	<0.4	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.5	<0.4	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	-	<1	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	<10	<10	<10	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	<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	-	<0.5	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<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	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.50	<0.50	<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	-	<0.5	-	<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	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	<1.0	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<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	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<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	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	<0.30	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<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	<0.20	<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	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	<5.0	<5.0	-	<5	-	<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	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	<2.0	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<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	<0.50	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	<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	-	<0.2	-	<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	-
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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	<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	-	<0.5	-	<0.50	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-	-	-	-	-	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	<0.20	<0.20	-	<0.2	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)			
Sample Date				14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Sample ID				WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674631	B674631	B6N9173	B6N9173
Laboratory Sample ID				CER537	CER538	DJP832	DJP833
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	18	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	170	-	160	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	<1.0	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	170	-	160	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	18.2	-	16.3	-
Cation Sum	meq/L	n/v	n/v	18.5	-	17.2	-
Chloride	mg/L	250[D]	790[GH]	24	-	22	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.0	-	1.6	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1700	-	1600	-
Fluoride	mg/L	1.5$_b$[B]	n/v	0.32	-	0.32	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**510[E]**	-	**460[E]**	-
Ion Balance	%	n/v	n/v	1.08	-	2.49	-
Langelier Index (at 20 C)	none	n/v	n/v	0.325	-	0.637	-
Langelier Index (at 4 C)	none	n/v	n/v	0.0800	-	0.391	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	0.49	-	0.35	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	0.49	-	0.35	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.019	-	0.012	-
pH	S.U.	6.5-8.5[E]	n/v	7.60	-	7.96	-
Saturation pH (at 20 C)	none	n/v	n/v	7.27	-	7.32	-
Saturation pH (at 4 C)	none	n/v	n/v	7.52	-	7.56	-
Sulfate	mg/L	500$_h$[D]	n/v	**680[D]**	-	**600[D]**	-
Total Dissolved Solids	mg/L	500[D]	n/v	**1340[D]**	-	**1160[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	**1200[D]**	-	**1100[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	2.9	-	2.3	-
Total Suspended Solids	mg/L	n/v	n/v	120	-	440	-
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	**87[D]**	-	**290[D]**	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-
Antimony	µg/L	6[C]	6[GH]	0.54	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	30	-	23	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	320	-	290	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	120000	-	110000	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	3.5	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10$_c$[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	47000	-	43000	-
Manganese	µg/L	50[D]	n/v	27	-	13	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	67	-	63	-
Nickel	µg/L	n/v	100[GH]	1.9	-	1.6	-
Phosphorus	µg/L	n/v	n/v	530	-	<100	-
Potassium	µg/L	n/v	n/v	6200	-	5500	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3800	-	4000	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	**190000[F]**	-	**180000[F]**	-
Strontium	µg/L	n/v	n/v	1900	-	1700	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	6.1	-	5.4	-
Vanadium	µg/L	n/v	6.2[GH]	0.66	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	<0.05	-	<0.05	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-D (Contd.)			
Sample Date				14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Sample ID				WG-160900764-20160414-AM12	WG-160900764-20160414-AM12A	WG-160900764-20161103-AM15	WG-160900764-20161103-AM15A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674631	B674631	B6N9173	B6N9173
Laboratory Sample ID				CER537	CER538	DJP832	DJP833
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	5	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.4	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.4	<0.1
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.8	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.8	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.2	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.2	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	**0.06[BGH]**	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<0.05	<0.05	***<0.2***	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.2	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	***<0.2***	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	***<0.2***	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	***<0.4***	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	***<0.8***	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.8	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	***<0.4***	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<1.1	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.8	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.8	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.8	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.4	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.2	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.4	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<2	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<2	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<4	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.4	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	***<2***	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<0.1	<0.1	***<0.4***	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<2	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<8	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<1	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<1	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<0.1	<0.1	<0.4	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<2	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.4	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.8	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2	<0.8	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_e[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S								
Sample Date				13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141127-RD09A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M5208	B4M5208
Laboratory Sample ID				UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YQ4966	YQ4967
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals				
General Chemistry												
Acidity	mg/L	n/v	n/v	-	13	<10	14	10	-	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	200	220	220	230	-	-	260	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	<1.0	1.7	2.5	2.3	2.4	-	-	2.2	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	200	220	220	230	-	-	260	-
Ammonia (as N)	mg/L	n/v	n/v	0.23	0.31	0.34	0.24	0.18	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	11.1	8.21	7.26	7.66	7.53	-	-	7.73	-
Cation Sum	meq/L	n/v	n/v	11.1	7.67	7.75	7.68	7.49	-	-	7.95	-
Chloride	mg/L	250[D]	790[GH]	32	22	19	18	16	-	-	16	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<2	<2	<2	<2	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	4.1	2.9	1.6	1.2	1.3	-	-	3.6	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1100	760	700	720	710	-	-	700	-
Fluoride	mg/L	1.5_b[B]	n/v	-	0.29	0.30	0.29	0.30	-	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**470[E]**	**310[E]**	**330[E]**	**330[E]**	**320[E]**	-	-	**360[E]**	-
Ion Balance	%	n/v	n/v	0.210	3.36	3.26	0.160	0.230	-	-	1.38	-
Langelier Index (at 20 C)	none	n/v	n/v	0.557	0.620	0.788	0.739	0.736	-	-	0.808	-
Langelier Index (at 4 C)	none	n/v	n/v	0.310	0.372	0.540	0.492	0.488	-	-	0.560	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	5.56	1.35	3.95	2.90	4.03	-	-	5.42	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	5.73	2.06	4.06	3.11	4.03	-	-	5.42	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	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	<0.010	-	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.68	7.97	8.10	8.05	8.05	-	-	7.96	-
Saturation pH (at 20 C)	none	n/v	n/v	7.13	7.35	7.31	7.32	7.31	-	-	7.15	-
Saturation pH (at 4 C)	none	n/v	n/v	7.37	7.60	7.56	7.56	7.56	-	-	7.40	-
Sulfate	mg/L	500_h[D]	n/v	270	170	100	120	100	-	-	78	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	478	472	**502[D]**	**526[D]**	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-	430	-
Total Organic Carbon	mg/L	n/v	n/v	-	3.9	5.2	3.8	2.1	-	-	-	-
Total Suspended Solids	mg/L	n/v	n/v	-	2200	690	770	640	87	-	<10	-
Turbidity, Lab	ntu	5_J[D, E]	n/v	-	**110[D]**	**160[D]**	**310[D]**	**92[D]**	**82[D]**	-	1.9	-
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5[B]	0.5_{s7}[G] 5[H]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s7}[G] 22[H]	0.87	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.40	<0.20	<0.20	<0.20	< 0.40	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.40	<0.20	<0.20	<0.20	< 0.40	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	<25	<25	< 25	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	<100	<100	< 100	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	<200	<200	< 200	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	<200	<200	< 200	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	-	-	-	-
Metals												
Aluminum	µg/L	100[E]	n/v	<5.0	7.7	5.5	6.1	7.8	-	-	<5.0	5.4
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	<0.50	<0.50	0.91	-	-	<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
Barium	µg/L	1000[B]	1000[GH]	72	55	51	54	56	-	-	74	89
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50
Boron	µg/L	5000[C]	5000[GH]	110	130	82	110	98	-	-	39	42
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	<0.10	<0.10
Calcium	µg/L	n/v	n/v	110000	66000	65000	65000	63000	-	-	77000	78000
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<1.0	<0.50	<2.5	<0.50	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	0.83	0.55	<0.50	<0.50	<0.50	-	-	<0.50	<0.50
Copper	µg/L	1000[D]	69[GH]	1.1	<1.0	<1.0	<1.0	<1.0	-	-	1.8	<1.0
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	<100	-	-	<100	<100
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50
Magnesium	µg/L	n/v	n/v	45000	36000	41000	40000	40000	-	-	40000	41000
Manganese	µg/L	50[D]	n/v	**57[D]**	30	19	14	7.6	-	-	6.3	5.8
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00015	<0.10	<0.10	<0.1	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	19	23	16	18	14	-	-	3.7	4.1
Nickel	µg/L	n/v	100[GH]	1.5	1.5	<1.0	<1.0	1.6	-	-	1.9	<1.0
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	<100	-	-	<100	<100
Potassium	µg/L	n/v	n/v	18000	10000	7600	7600	6900	-	-	4700	4900
Rubidium	µg/L	n/v	n/v	8.5	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0
Silicon	µg/L	n/v	n/v	5200	4900	5900	6000	6200	-	-	7800	8000
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	0.20	<0.10	<0.10	-	-	<0.10	<0.10
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**28000[F]**	**26000[F]**	20000	**22000[F]**	20000	-	-	16000	15000
Strontium	µg/L	n/v	n/v	900	750	810	820	850	-	-	620	650
Thallium	µg/L	n/v	2[GH]	0.060	<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
Uranium	µg/L	20[B]	20[GH]	6.0	6.1	4.1	4.6	4.6	-	-	3.6	3.8
Vanadium	µg/L	n/v	6.2[GH]	0.82	<0.50	0.69	0.63	0.77	-	-	0.60	0.62
Zinc	µg/L	5000[D]	890[GH]	<5.0	15	<5.0	<5.0	<5.0	-	-	7.5	<5.0
Zirconium	µg/L	n/v	n/v	<1.0	-	<1.0	-	<1.0	-	-	<1.0	<1.0
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location					MW3-13-S							
Sample Date				13-Dec-13	19-Mar-14	8-May-14	14-Aug-14	1-Oct-14	20-Nov-14	20-Nov-14	27-Nov-14	27-Nov-14
Sample ID				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	WG-160900764-20141127-RD09A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B443695	B476124	B4E7727	B4I4645	B4M0745	B4M0745	B4M5208	B4M5208
Laboratory Sample ID				UH4006	VG2318	VV5727	XD5194	XV9677	YO3440	YO3441	YQ4966	YQ4967
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals	Metals	Metals				
Semi - Volatile Organic Compounds												
Phthalates												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	**11[GH]**	3	2	4	2	<1	5	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	0.6	<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
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	µg/L	n/v	4.1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	0.13	0.08	<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]**	**0.05[BGH]**	<0.01	**0.04[BGH]**	**0.02[BGH]**	<0.01	**0.02[BGH]**	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	-	**0.13[GH]**	0.07	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1 MI	<0.05	<0.1 MI	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	**0.12[GH]**	0.08	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	-	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	0.26	0.15	0.20	0.13	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	-	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	<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	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	<10	<10	<10	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	-	<0.50	<0.50	<0.50	<0.50	<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	-
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	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<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	-
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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<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	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (cont.)								
Sample Date				22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Sample ID				WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4O2436	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173
Laboratory Sample ID				YY7680	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835
Filtered				-	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS									
General Chemistry												
Acidity	mg/L	n/v	n/v	-	14	-	16	-	15	-	12	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	-	230	-	230	-	230	-	230	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	-	1.9	-	1.4	-	1.7	-	2.1	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	-	230	-	230	-	230	-	230	-
Ammonia (as N)	mg/L	n/v	n/v	-	<0.05	-	<0.050	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	-	7.62	-	7.21	-	7.13	-	6.98	-
Cation Sum	meq/L	n/v	n/v	-	7.88	-	7.61	-	7.02	-	7.00	-
Chloride	mg/L	250[D]	790[GH]	-	16	-	15	-	13	-	13	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<2	-	<2	-	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	-	1.8	-	0.89	-	1.8	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	-	720	-	680	-	660	-	650	-
Fluoride	mg/L	1.5_b[B]	n/v	-	0.29	-	0.30	-	0.31	-	0.28	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	-	**350[E]**	-	**330[E]**	-	**300[E]**	-	**290[E]**	-
Ion Balance	%	n/v	n/v	-	1.68	-	2.69	-	0.820	-	0.140	-
Langelier Index (at 20 C)	none	n/v	n/v	-	0.703	-	0.537	-	0.576	-	0.675	-
Langelier Index (at 4 C)	none	n/v	n/v	-	0.454	-	0.288	-	0.327	-	0.426	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	-	3.59	-	2.13	-	1.52	-	1.19	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	-	3.63	-	2.25	-	1.52	-	1.19	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	-	0.035	-	0.124	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	-	<0.01	-	<0.010	-	<0.010	-	0.013	-
pH	S.U.	6.5-8.5[E]	n/v	-	7.93	-	7.81	-	7.90	-	7.99	-
Saturation pH (at 20 C)	none	n/v	n/v	-	7.23	-	7.27	-	7.32	-	7.32	-
Saturation pH (at 4 C)	none	n/v	n/v	-	7.48	-	7.52	-	7.57	-	7.57	-
Sulfate	mg/L	500_h[D]	n/v	-	110	-	99	-	98	-	91	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	442	-	436	-	410	-	400	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	430	-	410	-	390	-	380	-
Total Organic Carbon	mg/L	n/v	n/v	-	2.0	-	0.87	-	1.8	-	1.2	-
Total Suspended Solids	mg/L	n/v	n/v	-	<10	-	<10	-	10	-	91	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	-	3.4	-	2.6	-	**7.4[D]**	-	**6.0[D]**	-
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	-	<0.2	-	< 0.20	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	-	<0.2	-	< 0.20	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	-	<0.2	-	< 0.20	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	-	<0.2	-	< 0.40	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	-	<0.2	-	< 0.20	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	-	<0.2	-	< 0.40	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	-	<25	-	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	-	<25	-	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	-	<100	-	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	-	<200	-	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	-	<200	-	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	-	YES	-	YES	-	YES	-	YES	-
Metals												
Aluminum	µg/L	100[E]	n/v	-	<5	-	<5.0	-	<5	-	<5	-
Antimony	µg/L	6[C]	6[GH]	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	-	<1	-	<1	-	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	-	54	-	57	-	49	-	52	-
Beryllium	µg/L	n/v	4[GH]	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	-	60	-	69	-	83	-	86	-
Cadmium	µg/L	5[B]	2.1[GH]	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	-	72000	-	67000	-	58000	-	58000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	-	<5	-	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	-	<1	-	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	-	<100	-	<100	-	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	-	41000	-	39000	-	36000	-	36000	-
Manganese	µg/L	50[D]	n/v	-	11	-	15	-	4.3	-	3.1	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	-	7.6	-	8.9	-	9.6	-	8.5	-
Nickel	µg/L	n/v	100[GH]	-	<1	-	<1	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	-	<100	-	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	-	5700	-	5700	-	5400	-	5400	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	-	<2	-	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	-	6000	-	6000	-	5400	-	6100	-
Silver	µg/L	n/v	1.2[GH]	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	-	18000	-	**22000[F]**	-	**23000[F]**	-	**23000[F]**	-
Strontium	µg/L	n/v	n/v	-	780	-	740	-	780	-	780	-
Thallium	µg/L	n/v	2[GH]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	-	<5	-	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	-	4	-	3.7	-	3.5	-	3.5	-
Vanadium	µg/L	n/v	6.2[GH]	-	0.52	-	0.67	-	0.85	-	0.8	-
Zinc	µg/L	5000[D]	890[GH]	-	<5	-	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	-	<1	-	<1	-	<1	-	<1	-
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	[GH]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	[GH]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	[GH]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	[GH]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW3-13-S (cont.)								
Sample Date				22-Dec-14	8-Apr-15	8-Apr-15	5-Oct-15	5-Oct-15	14-Apr-16	14-Apr-16	3-Nov-16	3-Nov-16
Sample ID				WG-160900764-20141222-MF02	WG-160900764-20150408-RD03	WG-160900764-20150408-RD03A	WG-160900764-20151005-RD01	WG-160900764-20151005-RD01A	WG-160900764-20160414-AM13	WG-160900764-20160414-AM13A	WG-160900764-20161103-AM16	WG-160900764-20161103-AM16A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4O2436	B561683	B561683	B5K2885	B5K2885	B674631	B674631	B6N9173	B6N9173
Laboratory Sample ID				YY7680	ABP943	ABP944	BCN647	BCN648	CER539	CER540	DJP834	DJP835
Filtered				-	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS									
Semi - Volatile Organic Compounds												
Phthalates												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<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
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	µg/L	n/v	4.1[GH]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.02	<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]	<0.02	<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]	***<0.02***	<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$_{s2}$[G] 0.1$_{s2}$[H]	<0.02	<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]	<0.02	<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]	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.02	<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]	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.02	<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]	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	-	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.5	-	<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	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	-	<0.2	-	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.5	-	<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	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.2	-	<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	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	-	<0.2	-	<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	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	-	<0.5	-	<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	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	-	<0.4	-	<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	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<5	-	<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	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	-	<0.5	-	<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	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	-	<0.5	-	<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	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	-	<0.2	-	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	<0.20	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D							
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals					
General Chemistry											
Acidity	mg/L	n/v	n/v	<10	<10	<20	-	-	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	120	110	130	150	-	-	130	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	1.1	1.1	1.9	-	-	1.4	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	130	110	130	150	-	-	130	-
Ammonia (as N)	mg/L	n/v	n/v	0.59	0.42	0.25	-	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.67	5.63	7.97	9.52	-	-	8.63	-
Cation Sum	meq/L	n/v	n/v	5.09	5.84	7.92	9.84	-	-	8.24	-
Chloride	mg/L	250[D]	790[GH]	23	23	19	16	-	-	9.7	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	<2	-	-	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.7	2.4	2.5	-	-	-	0.88	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	540	580	790	920	-	-	840	-
Fluoride	mg/L	1.5_b[B]	n/v	0.75	0.70	0.56	-	-	-	0.63	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**120[E]**	**130[E]**	**200[E]**	**280[E]**	-	-	**180[E]**	-
Ion Balance	%	n/v	n/v	5.39	1.78	0.320	1.66	-	-	2.33	-
Langelier Index (at 20 C)	none	n/v	n/v	0.134	0.160	0.274	0.643	-	-	0.281	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.115	-0.0890	0.0260	0.396	-	-	0.0340	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	0.28	0.34	<0.10	-	-	0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	0.29	0.34	<0.10	-	-	0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	0.017	<0.010	0.011	-	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	<0.010	<0.010	-	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.00	8.02	7.96	8.12	-	-	8.05	-
Saturation pH (at 20 C)	none	n/v	n/v	7.87	7.86	7.68	7.47	-	-	7.77	-
Saturation pH (at 4 C)	none	n/v	n/v	8.12	8.11	7.93	7.72	-	-	8.02	-
Sulfate	mg/L	500_h[D]	n/v	120	130	230	290	-	-	270	-
Total Dissolved Solids	mg/L	500[D]	n/v	370	346	**616[D]**	-	-	-	**568[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	**600[D]**	-	-	**540[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	7.1	10	34	-	-	-	1.3	-
Total Suspended Solids	mg/L	n/v	n/v	29000	7100	26000	870	-	-	28	-
Turbidity, Lab	ntu	5_J[D,E]	n/v	**220[D]**	**1900[D]**	**34000[D]**	**840[D]**	-	-	**14[D]**	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	0.22	<0.20	< 0.20	-	-	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	0.45	<0.20	< 0.20	-	-	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	0.26	<0.20	0.20	-	-	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.70	<0.20	0.68	-	-	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.31	<0.20	0.27	-	-	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	1.0	<0.20	0.95	-	-	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	< 25	-	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	< 25	-	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	< 100	-	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	< 200	-	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	< 200	-	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	-	-	-	YES	-
Metals											
Aluminum	µg/L	100[E]	n/v	13	15	16	-	10	-	<5	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	0.93	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1.0	<1.0	-	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	61	57	99	-	81	-	26	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	330	340	440	-	510	-	320	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	30000	34000	49000	-	67000	-	39000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	-	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1.0	<1.0	1.1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	-	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	11000	11000	20000	-	27000	-	19000	-
Manganese	µg/L	50[D]	n/v	14	12	4.2	-	5.3	-	<2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	***<1.5 DB***	<0.10	-	-	-	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	**72[GH]**	**76[GH]**	**83[GH]**	-	**81[GH]**	-	**100[GH]**	-
Nickel	µg/L	n/v	100[GH]	1.2	1.0	1.4	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	8300	7400	8200	-	7700	-	4300	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3300	3700	3000	-	3900	-	3200	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.10	-	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**57000[F]**	**68000[F]**	**83000[F]**	-	**94000[F]**	-	**100000[F]**	-
Strontium	µg/L	n/v	n/v	440	520	870	-	1200	-	920	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	<0.050	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	-	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	2.3	1.2	4.2	-	2.6	-	2	-
Vanadium	µg/L	n/v	6.2[GH]	<0.50	0.55	0.76	-	0.56	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	<5.0	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	-	<1.0	<1.0	-	<1	-	<1	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.5	<0.5	-	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	***<0.5***	***<0.5***	-	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-D							
Sample Date				19-Mar-14	8-May-14	1-Oct-14	22-Dec-14	22-Dec-14	22-Dec-14	31-Oct-16	31-Oct-16
Sample ID				MW4-13-D	MW4-13-D	WG-160900764-20141001-JK5	WG-160900764-20141222-MF01	WG-160900764-20141222-MF01A	WG-160900764-20141222-MF01A	WG-160900764-20161031-AM01	WG-160900764-20161031-AM01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B443695	B476124	B4I4645	B4O2426	B4O2426	B4O2426	B6N7980	B6N7980
Laboratory Sample ID				VG2317	VV5729	XV9681	YY7641	YY7641	YY7642	DJK300	DJK301
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	-	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals					
Semi - Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	**18[GH]**	**33[GH]**	**36[GH]**	9	-	<1	2	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	0.6	0.1	<0.5	<0.1	-	<0.1	0.2	0.3
Dimethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	0.10	0.08	<0.3	<0.05	-	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	0.16	0.17	<0.3	<0.05	-	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	**0.06[BGH]**	**0.07[BGH]**	***<0.05***	<0.01	-	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	**0.19[GH]**	**0.18[GH]**	***<0.3***	<0.05	-	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.1 MI	<0.1	***<0.3***	<0.05	-	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	***<0.3***	<0.05	-	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	**0.22[GH]**	**0.19[GH]**	***<0.3***	<0.05	-	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	***<0.5***	<0.1	-	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	**1.4[GH]**	**1.4[GH]**	***<1***	<0.2	-	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<1	<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	***<0.5***	<0.1	-	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<1.4	<0.28	-	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	0.2	0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	**1.1[GH]**	**1.2[GH]**	<0.5	<0.1	-	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	1.8	2.0	1.0	<0.05	-	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<5	<1	-	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	**<3**	<0.5	-	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<0.1	<0.1	***<0.5***	<0.1	-	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<10	<2	-	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<1	<0.3	-	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<1	<0.3	-	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<3	<0.5	-	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.5	<0.1	-	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2	<1	<0.2	-	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	<10	<10	-	-	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	<1.0	-	-	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	0.5[G] 1[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	<1.0	-	-	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.20	<0.20	-	-	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<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	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	<0.30	-	-	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.40	<0.40	-	-	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	<0.20	-	-	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	<1.0	-	-	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	<10	-	-	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	<5.0	-	-	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	<2.0	-	-	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<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	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	<0.20	-	-	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	<0.50	-	-	-	<0.50	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	<0.20	-	-	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D					
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						
General Chemistry									
Acidity	mg/L	n/v	n/v	<10	-	<10	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	150	-	190	-	140	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.2	-	<1.0	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	150	-	190	-	140	-
Ammonia (as N)	mg/L	n/v	n/v	<0.05	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	6.31	-	6.05	-	4.85	-
Cation Sum	meq/L	n/v	n/v	6.20	-	5.27	-	4.66	-
Chloride	mg/L	250[D]	790[GH]	11	-	7.5	-	6.6	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**6.3[D]**	-	**10[D]**	-	2.8	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	630	-	490	-	480	-
Fluoride	mg/L	1.5$_b$[B]	n/v	0.62	-	0.80	-	0.89	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**120[E]**	-	82	-	**69[E]**	-
Ion Balance	%	n/v	n/v	0.890	-	6.85	-	2.00	-
Langelier Index (at 20 C)	none	n/v	n/v	0.102	-	-0.168	-	-0.334	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.147	-	-0.417	-	-0.584	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	<0.1	-	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	<0.1	-	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	<0.01	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.01	-	<0.010	-	0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	-	7.69	-	7.72	-
Saturation pH (at 20 C)	none	n/v	n/v	7.84	-	7.86	-	8.05	-
Saturation pH (at 4 C)	none	n/v	n/v	8.09	-	8.11	-	8.30	-
Sulfate	mg/L	500$_h$[D]	n/v	150	-	93	-	86	-
Total Dissolved Solids	mg/L	500[D]	n/v	424	-	330	-	314	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	380	-	340	-	290	-
Total Organic Carbon	mg/L	n/v	n/v	6.9	-	9.4	-	4.3	-
Total Suspended Solids	mg/L	n/v	n/v	11	-	14	-	18	-
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	**31[D]**	-	**490[D]**	-	**56[D]**	-
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.2	-	< 0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.2	-	< 0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.2	-	< 0.20	-	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	-	< 0.40	-	<0.20	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	-	< 0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.2	-	< 0.40	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	-
Metals									
Aluminum	µg/L	100[E]	n/v	5.1	-	56	-	10	-
Antimony	µg/L	6[C]	6[GH]	0.67	-	1	-	0.91	-
Arsenic	µg/L	25[C]	25[GH]	1.2	-	3.5	-	2.1	-
Barium	µg/L	1000[B]	1000[GH]	70	-	54	-	37	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	180	-	210	-	210	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	28000	-	19000	-	17000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5.0	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.5	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	-
Lead	µg/L	10$_c$[B]	10[GH]	<0.5	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	11000	-	8200	-	6700	-
Manganese	µg/L	50[D]	n/v	22	-	29	-	<2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	48	-	56	-	64	-
Nickel	µg/L	n/v	100[GH]	2.4	-	1.5	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	2800	-	1600	-	1500	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3400	-	3600	-	3700	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	<0.1	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	**88000[F]**	-	**83000[F]**	-	**74000[F]**	-
Strontium	µg/L	n/v	n/v	540	-	460	-	440	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5.0	-	<5	-
Uranium	µg/L	20[B]	20[GH]	3.8	-	2	-	2	-
Vanadium	µg/L	n/v	6.2[GH]	0.51	-	0.67	-	0.93	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5.0	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	-
Polychlorinated Biphenyls									
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-15D					
Sample Date				7-Apr-15	7-Apr-15	5-Oct-15	5-Oct-15	12-Apr-16	12-Apr-16
Sample ID				WG-160900764-20150407-RD01	WG-160900764-20150407-RD01A	WG-160900764-20151005-RD04	WG-160900764-20151005-RD04A	WG-160900764-20160412-AM01	WG-160900764-20160412-AM01A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B561683	B561683	B5K2885	B5K2885	B673021	B673021
Laboratory Sample ID				ABP939	ABP940	BCN654	BCN655	CEK201	CEK202
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						
Semi - Volatile Organic Compounds									
Phthalates									
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	4	2	2	<1	3	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	n/v	4.1[GH]	<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
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	**0.02[BGH]**	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<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
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<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
Pyrene	µg/L	n/v	4.1[GH]	0.08	<0.05	0.10	<0.05	0.09	<0.05
Remaining Semi - Volatile Organic Compounds									
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_f[D]	30[GH]	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.5	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.5	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.2	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	30[GH]	<0.2	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	0.71	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	3[GH]	<0.5	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.5	-	<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	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.2	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.5	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.5	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.2	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.5	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.3	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.4	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.2	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.5	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	-	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.5	-	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.2	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.5	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_a[B]	n/v	-	-	<0.20	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.2	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S						
Sample Date				13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Metals Field Duplicate	Metals	Metals Field Duplicate	Metals	Metals Field Duplicate
General Chemistry										
Acidity	mg/L	n/v	n/v	-	75	86	11	131	135	146
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	240	230	230	340	320	350	350
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.1	1.8	2.0	1.7	2.2	1.7	1.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	240	230	240	340	320	350	350
Ammonia (as N)	mg/L	n/v	n/v	0.18	0.11	0.17	0.062	<0.050	0.070	0.095
Anion Sum	meq/L	n/v	n/v	5.85	5.39	5.57	7.22	6.97	7.45	7.48
Cation Sum	meq/L	n/v	n/v	5.94	42.8	43.6	7.80	6.66	7.95	7.67
Chloride	mg/L	250[D]	790[GH]	8	6	6	3	4	4	4
Cyanide (Free)	µg/L	200[B]	52[GH]	-	<2	<2	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.6	1.9	2.0	1.9	1.9	2.2	2.2
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	560	500	500	650	610	670	680
Fluoride	mg/L	1.5_b[B]	n/v	-	0.14	0.14	0.11	0.15	0.10	0.11
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	**2000[E]**	**2100[E]**	**380[E]**	**320[E]**	**390[E]**	**370[E]**
Ion Balance	%	n/v	n/v	0.760	77.6	77.3	3.85	2.24	3.25	1.27
Langelier Index (at 20 C)	none	n/v	n/v	0.601	1.74	1.80	0.916	0.918	0.919	0.921
Langelier Index (at 4 C)	none	n/v	n/v	0.352	1.49	1.55	0.667	0.670	0.671	0.673
Nitrate (as N)	mg/L	10.0_d[B]	n/v	4.81	3.84	3.84	0.29	0.27	0.31	0.31
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	4.94	3.86	3.86	0.30	0.29	0.31	0.31
Nitrite (as N)	mg/L	1.0_d[B]	n/v	0.123	0.018	0.019	0.010	0.018	<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	<0.010
pH	S.U.	6.5-8.5[E]	n/v	7.69	7.94	7.95	7.73	7.86	7.70	7.72
Saturation pH (at 20 C)	none	n/v	n/v	7.09	6.20	6.15	6.81	6.94	6.78	6.80
Saturation pH (at 4 C)	none	n/v	n/v	7.34	6.45	6.40	7.06	7.19	7.03	7.05
Sulfate	mg/L	500_h[D]	n/v	26	17	18	16	19	13	14
Total Dissolved Solids	mg/L	500[D]	n/v	-	368	286	416	440	472	460
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	-	4.5	6.3	6.1	8.6	3.1	3.1
Total Suspended Solids	mg/L	n/v	n/v	-	4300	5900	680	1600	430	430
Turbidity, Lab	ntu	5_j[D,E]	n/v	-	**770[D]**	**670[D]**	**440[D]**	**580[D]**	**68[D]**	**90[D]**
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	<0.20	<0.20	<0.20	<0.20	<0.20	< 0.20	< 0.20
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	0.85	<0.20	<0.20	<0.20	<0.20	< 0.20	< 0.20
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.20	<0.20	<0.20	<0.20	<0.20	< 0.20	< 0.20
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.77	<0.20	<0.20	<0.20	<0.20	< 0.40	< 0.40
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	<0.20	<0.20	<0.20	< 0.20	< 0.20
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	0.77	<0.20	<0.20	<0.20	<0.20	< 0.40	< 0.40
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25	<25	<25	< 25	< 25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	<25	<25	<25	< 25	< 25
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	<100	<100	<100	< 100	< 100
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	<200	<200	<200	< 200	< 200
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	<200	<200	<200	< 200	< 200
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES	YES	YES	YES	YES
Metals										
Aluminum	µg/L	100[E]	n/v	<5.0	-	-	11	5.0	7.7	<5.0
Antimony	µg/L	6[C]	6[GH]	<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
Barium	µg/L	1000[B]	1000[GH]	48	-	-	81	84	68	65
Beryllium	µg/L	n/v	4[GH]	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Boron	µg/L	5000[C]	5000[GH]	29	-	-	29	36	22	23
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	-	-	<0.10	<0.10	<0.10	<0.10
Calcium	µg/L	n/v	n/v	91000	-	-	130000	100000	140000	130000
Cesium	µg/L	n/v	n/v	<0.20	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	3.8[GH]	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Copper	µg/L	1000[D]	69[GH]	<1.0	-	-	1.1	<1.0	<1.0	<1.0
Iron	µg/L	300[D]	n/v	<100	-	-	<100	<100	<100	<100
Lead	µg/L	10_c[B]	10[GH]	<0.50	-	-	<0.50	<0.50	<0.50	<0.50
Magnesium	µg/L	n/v	n/v	12000	-	-	14000	15000	12000	12000
Manganese	µg/L	50[D]	n/v	<2.0	-	-	2.2	<2.0	<2.0	<2.0
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	0.00012	0.00013	<0.10	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	70[GH]	1.9	-	-	<0.50	<0.50	<0.50	<0.50
Nickel	µg/L	n/v	100[GH]	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Phosphorus	µg/L	n/v	n/v	<100	-	-	<100	<100	<100	<100
Potassium	µg/L	n/v	n/v	1800	-	-	1100	1200	890	870
Rubidium	µg/L	n/v	n/v	1.3	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	-	-	<2.0	<2.0	<2.0	<2.0
Silicon	µg/L	n/v	n/v	4900	-	-	5700	6800	4700	4900
Silver	µg/L	n/v	1.2[GH]	<0.10	-	-	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	7600	-	-	5100	6800	3800	3900
Strontium	µg/L	n/v	n/v	310	-	-	420	460	370	370
Thallium	µg/L	n/v	2[GH]	<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
Uranium	µg/L	20[B]	20[GH]	1.2	-	-	0.59	0.51	0.65	0.68
Vanadium	µg/L	n/v	6.2[GH]	0.55	-	-	<0.50	<0.50	<0.50	<0.50
Zinc	µg/L	5000[D]	890[GH]	<5.0	-	-	<5.0	<5.0	<5.0	<5.0
Zirconium	µg/L	n/v	n/v	<1.0	-	-	-	-	<1.0	<1.0
Polychlorinated Biphenyls										
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S						
Sample Date				13-Dec-13	7-May-14	7-May-14	15-Aug-14	15-Aug-14	1-Oct-14	1-Oct-14
Sample ID				CLARS1213TWG-160960745-20131213-JK7	MW4-13-S	MW4-13-SDUP	MW4-13-S	MW4-13-S DUP	WG-160900764-20141001-JK6	WG-160900764-20141001-JK7
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B3L6734	B475182	B475182	B4E7727	B4E7727	B4I4645	B4I4645
Laboratory Sample ID				UH4007	VV0855	VV0856	XD5199	XD5200	XV9679	XV9680
Filtered				Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals	Metals	Field Duplicate	Metals	Field Duplicate	Metals	Field Duplicate
Semi - Volatile Organic Compounds										
Phthalates										
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	2	2	<1	<1	1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<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
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	µg/L	n/v	4.1[GH]	-	<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
Anthracene	µg/L	n/v	1[GH]	-	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	**0.02[BGH]**	0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1[s2,G] 0.1[s2,H]	-	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<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
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<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
Fluorene	µg/L	n/v	120[GH]	-	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2[s3,G] 3.2[s3,H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	[s3,GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	[s3,GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<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
Pyrene	µg/L	n/v	4.1[GH]	-	0.09	0.08	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds										
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3[t,D]	20[GH]	-	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5[s13,G] 5[s13,H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5[s13,G] 5[s13,H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30[t,D]	30[GH]	-	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2[t,D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds										
Acetone	µg/L	n/v	2700[GH]	-	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	16[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30[t,D]	30[GH]	-	<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
Dibromochloromethane	µg/L	n/v	25[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3[t,D]	3[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1[t,D]	0.5[G] 1[H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	-	<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
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	-	<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
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5[s11,G] 0.5[s11,H]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	[s11,GH]	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	[s11,GH]	-	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	-	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	5.4[GH]	-	<0.50	<0.50	<0.50	<0.50	<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
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
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	-	<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
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
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	-	<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
Trihalomethanes	µg/L	100[e,B]	n/v	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (cont.)							
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15
Sample ID				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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate				
General Chemistry											
Acidity	mg/L	n/v	n/v	-	-	-	-	59	-	74	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	320	320	-	-	330	-	320	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	1.5	-	-	<1.0	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	330	330	-	-	330	-	320	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	0.057	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.88	7.88	-	-	8.49	-	10.7	-
Cation Sum	meq/L	n/v	n/v	7.98	7.84	-	-	8.93	-	10.9	-
Chloride	mg/L	250[D]	790[GH]	9	9	-	-	34	-	17	-
Cyanide (Free)	µg/L	200[B]	52[GH]	-	-	-	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.8	2.6	-	-	1.7	-	2.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	720	720	-	-	790	-	950	-
Fluoride	mg/L	1.5_b[B]	n/v	-	-	-	-	0.11	-	0.12	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**390[E]**	**380[E]**	-	-	**420[E]**	-	**510[E]**	-
Ion Balance	%	n/v	n/v	0.640	0.270	-	-	2.50	-	0.790	-
Langelier Index (at 20 C)	none	n/v	n/v	0.883	0.885	-	-	0.478	-	0.620	-
Langelier Index (at 4 C)	none	n/v	n/v	0.634	0.637	-	-	0.230	-	0.373	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	-	0.42	-	0.16	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	-	0.42	-	0.16	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.69	7.70	-	-	7.29	-	7.36	-
Saturation pH (at 20 C)	none	n/v	n/v	6.81	6.82	-	-	6.81	-	6.74	-
Saturation pH (at 4 C)	none	n/v	n/v	7.06	7.07	-	-	7.06	-	6.99	-
Sulfate	mg/L	500_h[D]	n/v	54	53	-	-	41	-	180	-
Total Dissolved Solids	mg/L	500[D]	n/v	-	-	-	-	**526[D]**	-	**634[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	420	420	-	-	460	-	**610[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	-	-	-	-	1.8	-	2.0	-
Total Suspended Solids	mg/L	n/v	n/v	19	11	-	-	17	-	<10	-
Turbidity, Lab	ntu	5_J[D,E]	n/v	4.4	**5.9[D]**	-	-	**22[D]**	-	2.7	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s7}[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	< 0.20	-
Toluene	µg/L	24[D]	24_{s7}[G] 22[H]	<0.20	<0.20	-	-	<0.20	-	< 0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s7}[GH]	<0.20	<0.20	-	-	<0.20	-	< 0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	< 0.40	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	< 0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.20	-	< 0.40	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	-	-	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	-	-	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	-	-	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	-	-	-	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	YES	-	YES	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	51	51	53	53	75	-	93	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	40	32	17	17	19	-	46	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	130000	130000	140000	140000	140000	-	180000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	-	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12000	12000	12000	12000	18000	-	17000	-
Manganese	µg/L	50[D]	n/v	13	13	10	8.0	13	-	<2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	-	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Nickel	µg/L	n/v	100[GH]	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	730	700	770	760	1000	-	1200	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	<2.0	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4200	4200	4500	4500	5700	-	5500	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	5800	5300	4900	4800	12000	-	14000	-
Strontium	µg/L	n/v	n/v	340	330	350	350	500	-	480	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	<0.050	<0.050	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-
Uranium	µg/L	20[B]	20[GH]	0.89	0.88	0.96	0.94	0.73	-	1.1	-
Vanadium	µg/L	n/v	6.2[GH]	<0.50	<0.50	<0.50	<0.50	0.63	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	<5.0	<5.0	<5	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	<1.0	<1.0	<1	-	<1	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	-	-	-	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (cont.)							
Sample Date				27-Nov-14	27-Nov-14	27-Nov-14	27-Nov-14	14-May-15	14-May-15	5-Oct-15	5-Oct-15
Sample ID				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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M5208	B4M5208	B4M5208	B4M5208	B590648	B590648	B5K2885	B5K2885
Laboratory Sample ID				YQ4962	YQ4964	YQ4963	YQ4965	AGX650	AGX651	BCN652	BCN653
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		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
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<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	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<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	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<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	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.40	-	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	-	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<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	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	<1.0	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (cont.)			
Sample Date				13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16
Sample ID				WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				CEO890	CEO891	DJK302	DJK303
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	38	-	44	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	280	-	290	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	-	1.4	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	280	-	300	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	10.3	-	10.1	-
Cation Sum	meq/L	n/v	n/v	9.49	-	9.17	-
Chloride	mg/L	250[D]	790[GH]	100	-	40	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.3	-	1.6	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	1000	-	950	-
Fluoride	mg/L	1.5_b[B]	n/v	<0.10	-	0.15	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**400[E]**	-	**390[E]**	-
Ion Balance	%	n/v	n/v	4.11	-	4.70	-
Langelier Index (at 20 C)	none	n/v	n/v	0.813	-	0.745	-
Langelier Index (at 4 C)	none	n/v	n/v	0.566	-	0.497	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	0.25	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	0.25	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.72	-	7.69	-
Saturation pH (at 20 C)	none	n/v	n/v	6.91	-	6.95	-
Saturation pH (at 4 C)	none	n/v	n/v	7.15	-	7.19	-
Sulfate	mg/L	500_h[D]	n/v	90	-	150	-
Total Dissolved Solids	mg/L	500[D]	n/v	**594[D]**	-	**640[D]**	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	**550[D]**	-	**550[D]**	-
Total Organic Carbon	mg/L	n/v	n/v	2.4	-	2.1	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	16	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	3.9	-	**9.0[D]**	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	64	-	120	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	33	-	58	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	140000	-	120000	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	14000	-	23000	-
Manganese	µg/L	50[D]	n/v	2.5	-	3.7	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	<0.5	-	0.56	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-
Potassium	µg/L	n/v	n/v	800	-	1700	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	3400	-	7400	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**35000[F]**	-	**29000[F]**	-
Strontium	µg/L	n/v	n/v	410	-	660	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	0.76	-	0.8	-
Vanadium	µg/L	n/v	6.2[GH]	0.6	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW4-13-S (cont.)			
Sample Date				13-Apr-16	13-Apr-16	31-Oct-16	31-Oct-16
Sample ID				WG-160900764-20160413-AM11	WG-160900764-20160413-AM11A	WG-160900764-20161031-AM02	WG-160900764-20161031-AM02A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				CEO890	CEO891	DJK302	DJK303
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	$0.1_{\pm2}$[G] $0.1_{\pm2}$[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<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
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	$3.2_{\pm3}$[G] $3.2_{\pm3}$[H]	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<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
Dichlorophenol, 2,4-	µg/L	900[B] $0.3_{\dagger}$[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{\pm13}$[G] $5_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	$5_{\pm13}$[G] $5_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] $30_{\dagger}$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} $2_{\dagger}$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] $30_{\dagger}$[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] $3_{\dagger}$[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5^{B} $1_{\dagger}$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	$0.5_{\pm11}$[G] $0.5_{\pm11}$[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D									
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A	WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A	
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	
Laboratory Work Order				B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983	
Laboratory Sample ID				ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212	DJO970	DJO971	
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	
Sample Type	Units	ODWS	Ontario SCS										
General Chemistry													
Acidity	mg/L	n/v	n/v	<10	<10	-	NA	-	<10	-	<10	-	
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	240	180	-	180	-	140	-	130	-	
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	4.8	2.1	-	<1.0	-	1.7	-	2.6	-	
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	250	180	-	180	-	140	-	130	-	
Ammonia (as N)	mg/L	n/v	n/v	0.078	<0.05	-	<0.050	-	<0.050	-	<0.050	-	
Anion Sum	meq/L	n/v	n/v	5.90	4.22	-	4.18	-	3.55	-	3.50	-	
Cation Sum	meq/L	n/v	n/v	3.38	2.73	-	2.43	-	2.74	-	2.51	-	
Chloride	mg/L	250[D]	790[GH]	7	3	-	5.0	-	4.0	-	2.6	-	
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	<2	-	<2	-	<1	-	
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	**39[D]**	**13[D]**	-	**7.7[D]**	-	4.1	-	2.0	-	
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	310	270	-	280	-	260	-	270	-	
Fluoride	mg/L	1.5$_b$[B]	n/v	1.1	1.2	-	1.2	-	1.3	-	1.3	-	
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**33[E]**	**25[E]**	-	**25[E]**	-	**28[E]**	-	**25[E]**	-	
Ion Balance	%	n/v	n/v	27.1	21.6	-	26.5	-	12.9	-	16.4	-	
Langelier Index (at 20 C)	none	n/v	n/v	0.223	-0.275	-	-0.628	-	-0.341	-	-0.210	-	
Langelier Index (at 4 C)	none	n/v	n/v	-0.0250	-0.524	-	-0.877	-	-0.589	-	-0.458	-	
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	<0.50	<0.1	-	<0.10	-	<0.10	-	<0.10	-	
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	<0.50	<0.1	-	<0.10	-	<0.10	-	<0.10	-	
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	<0.050	<0.01	-	<0.010	-	<0.010	-	<0.010	-	
Orthophosphate(as P)	mg/L	n/v	n/v	0.018	0.010	-	<0.010	-	<0.10 DB	-	0.014	-	
pH	S.U.	6.5-8.5[E]	n/v	8.32	8.10	-	7.73	-	8.12	-	8.32	-	
Saturation pH (at 20 C)	none	n/v	n/v	8.10	8.38	-	8.36	-	8.46	-	8.53	-	
Saturation pH (at 4 C)	none	n/v	n/v	8.34	8.63	-	8.61	-	8.71	-	8.78	-	
Sulfate	mg/L	500$_h$[D]	n/v	32	24	-	20	-	31	-	34	-	
Total Dissolved Solids	mg/L	500[D]	n/v	412	414	-	332	-	**532[D]**	-	444	-	
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	270	200	-	190	-	190	-	180	-	
Total Organic Carbon	mg/L	n/v	n/v	37	12	-	8.5	-	6.4	-	14	-	
Total Suspended Solids	mg/L	n/v	n/v	260	250	-	53	-	40	-	890	-	
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	**490[D]**	**600[D]**	-	**350[D]**	-	**1300[D]**	-	**140[D]**	-	
BTEX and Petroleum Hydrocarbons													
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-	
Toluene	µg/L	24[D]	24[G] 22[H]	0.43	0.28	-	0.20	-	<0.20	-	<0.20	-	
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-	
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	0.21	<0.2	-	<0.20	-	<0.20	-	<0.20	-	
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-	
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	0.21	<0.2	-	<0.20	-	<0.20	-	<0.20	-	
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	-	<25	-	<25	-	<25	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	<25	-	<25	-	<25	-	<25	-	
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	<100	-	<100	-	<100	-	<100	-	
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	<200	-	<200	-	<200	-	<200	-	
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	<200	-	<200	-	<200	-	<200	-	
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	YES	-	YES	-	YES	-	
Metals													
Aluminum	µg/L	100[E]	n/v	70	31	-	19	-	48	-	31	-	
Antimony	µg/L	6[C]	6[GH]	0.55	<0.5	-	<0.5	-	<0.5	-	<0.5	-	
Arsenic	µg/L	25[C]	25[GH]	1.5	1.2	-	1.9	-	2.5	-	1.5	-	
Barium	µg/L	1000[B]	1000[GH]	13	7.2	-	7.8	-	7.9	-	7.6	-	
Beryllium	µg/L	n/v	4[GH]	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	
Boron	µg/L	5000[C]	5000[GH]	200	210	-	200	-	200	-	210	-	
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	<0.1	-	<0.1	-	<0.1	-	<0.1	-	
Calcium	µg/L	n/v	n/v	9100	6600	-	6600	-	7600	-	6300	-	
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50[B]	50[GH]	<5	<5	-	<5.0	-	<5	-	<5	-	
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	<0.5	-	<0.50	-	<0.50	-	<0.50	-	
Cobalt	µg/L	n/v	3.8[GH]	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	
Copper	µg/L	1000[D]	69[GH]	3.3	<1	-	<1	-	<1	-	<1	-	
Iron	µg/L	300[D]	n/v	<100	<100	-	<100	-	<100	-	<100	-	
Lead	µg/L	10$_c$[B]	10[GH]	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	
Magnesium	µg/L	n/v	n/v	2600	2000	-	2200	-	2300	-	2100	-	
Manganese	µg/L	50[D]	n/v	6	7.1	-	7.3	-	3.7	-	3.8	-	
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	
Molybdenum	µg/L	n/v	70[GH]	12	7.8	-	7.5	-	7.9	-	5.6	-	
Nickel	µg/L	n/v	100[GH]	1.3	<1	-	<1	-	<1	-	<1	-	
Phosphorus	µg/L	n/v	n/v	<100	<100	-	<100	-	<100	-	<100	-	
Potassium	µg/L	n/v	n/v	1000	780	-	640	-	600	-	500	-	
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10[B]	10[GH]	<2	<2	-	<2	-	<2	-	<2	-	
Silicon	µg/L	n/v	n/v	3100	3100	-	3300	-	3600	-	3400	-	
Silver	µg/L	n/v	1.2[GH]	<0.1	<0.1	-	<0.1	-	<0.1	-	<0.1	-	
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	**61000[F]**	**51000[F]**	-	**44000[F]**	-	**50000[F]**	-	**46000[F]**	-	
Strontium	µg/L	n/v	n/v	120	88	-	110	-	120	-	110	-	
Thallium	µg/L	n/v	2[GH]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	
Titanium	µg/L	n/v	n/v	<5	<5	-	<5.0	-	<5	-	<5	-	
Uranium	µg/L	20[B]	20[GH]	2.3	1.6	-	0.84	-	0.5	-	0.43	-	
Vanadium	µg/L	n/v	6.2[GH]	1.2	0.81	-	1.3	-	<0.5	-	<0.5	-	
Zinc	µg/L	5000[D]	890[GH]	7.9	<5	-	<5.0	-	38	-	<5	-	
Zirconium	µg/L	n/v	n/v	<1	<1	-	<1	-	<1	-	<1	-	
Polychlorinated Biphenyls													
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-D								
Sample Date				3-Feb-15	9-Apr-15	9-Apr-15	6-Oct-15	6-Oct-15	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20150203-RD02	WG-160900764-20150409-RD09	WG-160900764-20150409-RD09A	WG-160900764-2015106-RD06	WG-160900764-2015106-RD06A	WG-160900764-20160412-AM06	WG-160900764-20160412-AM06A	WG-160900764-20161102-AM09	WG-160900764-20161102-AM09A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B562741	B562741	B5K3284	B5K3284	B673021	B673021	B6N8983	B6N8983
Laboratory Sample ID				ZK6639	ABU949	ABU950	BCP426	BCP427	CEK211	CEK212	DJO970	DJO971
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS									
Semi - Volatile Organic Compounds												
Phthalates												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	3	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	5.2	<0.1	<0.1	0.1	0.3	<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
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	µg/L	n/v	4.1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	-	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1	-	<1.0	-	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<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	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<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	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1	-	<1.0	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<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	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.3	-	<0.30	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.4	-	<0.40	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1	-	<1.0	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5	-	<5.0	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2	-	<2.0	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<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	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<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	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.5	-	<0.50	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	<0.20	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.2	-	<0.20	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I						
Sample Date				28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284
Laboratory Sample ID				YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
General Chemistry										
Acidity	mg/L	n/v	n/v	<10	<10	-	<10	-	NA	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	390	150	-	240	-	130	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	10	3.4	-	3.3	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	330	150	-	240	-	130	-
Ammonia (as N)	mg/L	n/v	n/v	0.14	<0.050	-	0.053	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.89	3.81	-	5.48	-	3.22	-
Cation Sum	meq/L	n/v	n/v	5.10	3.28	-	3.01	-	2.72	-
Chloride	mg/L	250[D]	790[GH]	12	3	-	3	-	3.5	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	3.4	2.5	-	2.0	-	1.2	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	440	310	-	280	-	250	-
Fluoride	mg/L	1.5_b[B]	n/v	0.98	1.3	-	1.4	-	1.5	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**51[E]**	**22[E]**	-	**23[E]**	-	**21[E]**	-
Ion Balance	%	n/v	n/v	21.5	7.58	-	29.0	-	8.38	-
Langelier Index (at 20 C)	none	n/v	n/v	0.502	-0.0460	-	-0.0670	-	-0.687	-
Langelier Index (at 4 C)	none	n/v	n/v	0.258	-0.295	-	-0.315	-	-0.937	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	<0.5	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	-	<0.10	-	<0.5	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	0.014	0.034	-	<0.05	-	0.011	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.34	0.031	-	0.015	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.44	8.39	-	8.17	-	7.78	-
Saturation pH (at 20 C)	none	n/v	n/v	7.94	8.43	-	8.24	-	8.47	-
Saturation pH (at 4 C)	none	n/v	n/v	8.18	8.68	-	8.48	-	8.72	-
Sulfate	mg/L	500_h[D]	n/v	46	29	-	23	-	22	-
Total Dissolved Solids	mg/L	500[D]	n/v	**1780[D]**	266	-	438	-	232	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	370	200	-	240	-	170	-
Total Organic Carbon	mg/L	n/v	n/v	28	3.0	-	3.3	-	2.6	-
Total Suspended Solids	mg/L	n/v	n/v	1100	19	-	430	-	43	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**2900[D]**	**150[D]**	-	**580[D]**	-	**120[D]**	-
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	YES	-	YES	-
Metals										
Aluminum	µg/L	100[E]	n/v	**270[E]**	**110[E]**	**110[E]**	78	-	86	-
Antimony	µg/L	6[C]	6[GH]	1.4	1.1	1.1	1.6	-	0.7	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	2.1	2	1.8	-	1.7	-
Barium	µg/L	1000[B]	1000[GH]	30	8.6	8.1	7.8	-	8.7	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	180	210	190	210	-	200	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.1	<0.1	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	15000	5900	6200	6900	-	6600	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5	<5	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	3.3	2	1.9	1.1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.5	<0.5	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	3300	1500	1600	1400	-	1100	-
Manganese	µg/L	50[D]	n/v	5.5	<2	<2	2.3	-	3.3	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	33	13	15	14	-	11	-
Nickel	µg/L	n/v	100[GH]	<1.0	<1	<1	<1	-	1.4	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1900	920	960	850	-	740	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2	<2	<2	-	<2	-
Silicon	µg/L	n/v	n/v	1300	2200	2200	2200	-	2500	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.1	<0.1	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**92000[F]**	**65000[F]**	**64000[F]**	**58000[F]**	-	**52000[F]**	-
Strontium	µg/L	n/v	n/v	150	80	86	84	-	69	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.05	<0.05	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5	<5	<5	-	<5.0	-
Uranium	µg/L	20[B]	20[GH]	4.0	3.8	4	3.7	-	2.6	-
Vanadium	µg/L	n/v	6.2[GH]	2.0	1.9	2.1	1.8	-	2.1	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5	<5	<5	-	8.2	-
Zirconium	µg/L	n/v	n/v	<1.0	<1	<1	<1	-	<1	-
Polychlorinated Biphenyls										
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.5	<0.05	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.5	<0.05	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.5	<0.05	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.5	<0.05	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	***<0.5***	<0.05	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I						
Sample Date				28-Oct-14	4-Feb-15	4-Feb-15	10-Apr-15	10-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4K2141	B520805	B520805	B563828	B563828	B5K3284	B5K3284
Laboratory Sample ID				YE8480	ZK6645	ZK6646	ABZ558	ABZ559	BCP432	BCP433
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
Semi - Volatile Organic Compounds										
Phthalates										
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	7	<1	<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
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	<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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
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
Fluoranthene	µg/L	n/v	0.41[GH]	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<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
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds										
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds										
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<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	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	0.37	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<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	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<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	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.40	-	<0.4	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	<5	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (cont.)			
Sample Date				12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A	WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B6N8983	B6N8983
Laboratory Sample ID				CEK209	CEK210	DJO976	DJO977
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	<10	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	100	-	90	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	100	-	92	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	2.69	-	2.37	-
Cation Sum	meq/L	n/v	n/v	2.57	-	2.28	-
Chloride	mg/L	250[D]	790[GH]	3.3	-	2.5	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.0	-	1.0	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	240	-	230	-
Fluoride	mg/L	1.5_b[B]	n/v	**1.6[B]**	-	1.5	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**18[E]**	-	**17[E]**	-
Ion Balance	%	n/v	n/v	NC	-	NC	-
Langelier Index (at 20 C)	none	n/v	n/v	-0.447	-	-0.539	-
Langelier Index (at 4 C)	none	n/v	n/v	-0.697	-	-0.790	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.012	-	0.013	-
pH	S.U.	6.5-8.5[E]	n/v	8.17	-	8.18	-
Saturation pH (at 20 C)	none	n/v	n/v	8.62	-	8.72	-
Saturation pH (at 4 C)	none	n/v	n/v	8.87	-	8.97	-
Sulfate	mg/L	500_h[D]	n/v	20	-	18	-
Total Dissolved Solids	mg/L	500[D]	n/v	160	-	140	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	150	-	130	-
Total Organic Carbon	mg/L	n/v	n/v	1.5	-	1.4	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	23	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**29[D]**	-	**22[D]**	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	86	-	85	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	2.2	-	2.4	-
Barium	µg/L	1000[B]	1000[GH]	7.4	-	3.1	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	220	-	230	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	5400	-	4800	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	1200	-	1200	-
Manganese	µg/L	50[D]	n/v	<2	-	<2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	10	-	8.6	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-
Potassium	µg/L	n/v	n/v	700	-	630	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	2800	-	2900	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	**50000[F]**	-	**44000[F]**	-
Strontium	µg/L	n/v	n/v	78	-	79	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	1.7	-	1.1	-
Vanadium	µg/L	n/v	6.2[GH]	1.8	-	1.6	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-I (cont.)			
Sample Date				12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM05	WG-160900764-20160412-AM05A	WG-160900764-20161102-AM12	WG-160900764-20161102-AM12A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B6N8983	B6N8983
Laboratory Sample ID				CEK209	CEK210	DJO976	DJO977
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	6	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	0.4	0.5	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	$0.1_{\pm2}$[G] $0.1_{\pm2}$[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<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
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	$3.2_{\pm3}$[G] $3.2_{\pm3}$[H]	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<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
Dichlorophenol, 2,4-	µg/L	900[B] $0.3_{\dagger}$[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{\pm13}$[G] $5_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	$5_{\pm13}$[G] $5_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] $30_{\dagger}$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} $2_{\dagger}$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] $30_{\dagger}$[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] $3_{\dagger}$[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5^{B} $1_{\dagger}$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	$0.5_{\pm11}$[G] $0.5_{\pm11}$[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S								
Sample Date				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-160900764-20141009-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals				Field Duplicate		Field Duplicate		
General Chemistry												
Acidity	mg/L	n/v	n/v	12	-	-	<10	13	-	-	26	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	230	-	230	250	-	-	240	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.3	1.8	-	1.5	1.6	-	-	<1.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	230	-	230	250	-	-	240	-
Ammonia (as N)	mg/L	n/v	n/v	0.17	-	-	<0.05	0.051	-	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.70	6.12	-	6.13	6.58	-	-	6.44	-
Cation Sum	meq/L	n/v	n/v	5.47	6.16	-	5.73	5.75	-	-	6.42	-
Chloride	mg/L	250[D]	790[GH]	8	7	-	8	7	-	-	16	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	-	<2	<2	-	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.9	-	-	1.1	1.1	-	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	530	580	-	560	540	-	-	600	-
Fluoride	mg/L	1.5_b[B]	n/v	0.11	-	-	<0.1	<0.1	-	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**260[E]**	**300[E]**	-	**280[E]**	**280[E]**	-	-	**310[E]**	-
Ion Balance	%	n/v	n/v	2.04	0.290	-	3.41	6.72	-	-	0.130	-
Langelier Index (at 20 C)	none	n/v	n/v	0.651	0.864	-	0.743	0.769	-	-	0.444	-
Langelier Index (at 4 C)	none	n/v	n/v	0.402	0.615	-	0.495	0.520	-	-	0.195	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	**14.7[B]**	**11.9[B]**	-	**12.6[B]**	**12.3[B]**	-	-	8.63	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	**14.8[B]**	**11.9[B]**	-	**12.6[B]**	**12.3[B]**	-	-	8.63	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	0.018	0.014	-	<0.01	0.020	-	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	<0.01	<0.01	-	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.85	7.92	-	7.85	7.83	-	-	7.49	-
Saturation pH (at 20 C)	none	n/v	n/v	7.20	7.06	-	7.11	7.06	-	-	7.04	-
Saturation pH (at 4 C)	none	n/v	n/v	7.44	7.31	-	7.36	7.31	-	-	7.29	-
Sulfate	mg/L	500_h[D]	n/v	15	18	-	23	25	-	-	27	-
Total Dissolved Solids	mg/L	500[D]	n/v	346	-	-	338	330	-	-	378	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	350	-	340	360	-	-	360	-
Total Organic Carbon	mg/L	n/v	n/v	3.5	-	-	0.88	1.3	-	-	0.97	-
Total Suspended Solids	mg/L	n/v	n/v	22000	2200	-	130	310	-	-	41	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**3400[D]**	-	-	**17[D]**	**200[D]**	-	-	**39[D]**	-
BTEX and Petroleum Hydrocarbons												
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	0.47	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	6.5	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	1.5	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	6.2	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	1.7	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	7.9	<0.20	-	<0.2	<0.2	-	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	<25	-	-	<25	<25	-	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	-	<25	<25	-	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	-	<100	<100	-	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	-	<200	<200	-	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	-	<200	<200	-	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	-	YES	YES	-	-	YES	-
Metals												
Aluminum	µg/L	100[E]	n/v	5.6	12	<5	<5	<5	-	-	<5.0	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1	<1	<1	<1	-	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	75	55	54	45	47	-	-	55	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	16	10	13	<10	<10	-	-	<10	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-
Calcium	µg/L	n/v	n/v	84000	100000	99000	92000	93000	-	-	100000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5	<5	<5	<5	-	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	-	<0.5	<0.5	-	-	0.60	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	1.1	1.9	<1	<1	<1	-	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	<100	-	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12000	11000	12000	11000	11000	-	-	12000	-
Manganese	µg/L	50[D]	n/v	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	-
Molybdenum	µg/L	n/v	70[GH]	3.1	1.1	1.3	0.69	0.67	-	-	0.55	-
Nickel	µg/L	n/v	100[GH]	1.3	<1	<1	<1	<1	-	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	<100	-	-	<100	-
Potassium	µg/L	n/v	n/v	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	-
Silicon	µg/L	n/v	n/v	5500	5200	5200	4500	4600	-	-	5800	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	5100	3500	3600	3300	3300	-	-	4800	-
Strontium	µg/L	n/v	n/v	280	210	210	190	190	-	-	220	-
Thallium	µg/L	n/v	2[GH]	<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	-
Uranium	µg/L	20[B]	20[GH]	2.9	0.79	0.91	0.68	0.71	-	-	0.73	-
Vanadium	µg/L	n/v	6.2[GH]	0.76	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	6	<5	9.5	<5	-	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	<1	<1	<1	<1	-	-	<1	-
Polychlorinated Biphenyls												
Aroclor 1242	µg/L	n/v	[GH]	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1248	µg/L	n/v	[GH]	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1254	µg/L	n/v	[GH]	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Aroclor 1260	µg/L	n/v	[GH]	<0.5	-	-	<0.05	<0.05	-	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	***<0.5***	-	-	<0.05	<0.05	-	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S								
Sample Date				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-160900764-20141009-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4O2825	B4O2825	B562741	B562741	B562741	B562741	B5K3284	B5K3284
Laboratory Sample ID				XY3182	YY9889	YY9890	ABU945	ABU947	ABU946	ABU948	BCP424	BCP425
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals				Field Duplicate		Field Duplicate		
Semi - Volatile Organic Compounds												
Phthalates												
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	2	<1	<1	<2	<1	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<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	<0.2	<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	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.1	<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	<0.1	<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	***<0.02***	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<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	<0.1	<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	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.1	<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	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	1.9	<0.28	<0.28	<0.57	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	0.6	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	1.3	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	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]	0.4	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	0.08	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds												
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	0.3	<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	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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	<0.2	<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	***<1***	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_{t}$[D]	20[GH]	<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	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<4	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<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$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_{t}$[D]	30[GH]	<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	<1	<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	<0.2	<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	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_{t}$[D]	2[GH]	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds												
Acetone	µg/L	n/v	2700[GH]	14	<10	-	<10	<10	-	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<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	-	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<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	<0.2	-	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_{t}$[D]	30[GH]	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_{t}$[D]	3[GH]	<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	<0.5	-	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_{t}$[D]	0.5[G] 1[H]	<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	-	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<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	<0.5	-	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<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	<0.5	-	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<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	<0.2	-	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	<0.50	-	<0.5	<0.5	-	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	<0.3	<0.3	-	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<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	<0.2	-	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	<1	<1	-	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	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	-	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<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	-	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<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	<0.5	-	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<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	<0.2	-	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	<0.5	-	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<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	<0.5	-	-	<0.50	-
Trihalomethanes	µg/L	100$_{e}$[B]	n/v	-	-	-	-	-	-	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	<0.2	<0.2	-	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (cont.)							
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975
Filtered				Field Filtered Metals		Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate				
General Chemistry											
Acidity	mg/L	n/v	n/v	37	42	-	-	24	-	24	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	280	280	-	-	240	-	240	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.4	1.5	-	-	1.9	-	1.7	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	290	280	-	-	240	-	240	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	<0.050	-	-	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	7.32	7.25	-	-	6.14	-	6.18	-
Cation Sum	meq/L	n/v	n/v	7.63	7.57	-	-	6.09	-	6.03	-
Chloride	mg/L	250[D]	790[GH]	23	22	-	-	10	-	10	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	-	<1	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.1	1.0	-	-	0.90	-	0.89	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	700	700	-	-	590	-	590	-
Fluoride	mg/L	1.5_b[B]	n/v	<0.10	<0.10	-	-	<0.10	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**370[E]**	**360[E]**	-	-	**290[E]**	-	**290[E]**	-
Ion Balance	%	n/v	n/v	2.08	2.12	-	-	0.440	-	1.25	-
Langelier Index (at 20 C)	none	n/v	n/v	0.822	0.850	-	-	0.832	-	0.802	-
Langelier Index (at 4 C)	none	n/v	n/v	0.573	0.601	-	-	0.583	-	0.553	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	6.41	6.56	-	-	6.83	-	6.84	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	6.41	6.56	-	-	6.83	-	6.84	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.71	7.74	-	-	7.92	-	7.88	-
Saturation pH (at 20 C)	none	n/v	n/v	6.89	6.89	-	-	7.09	-	7.07	-
Saturation pH (at 4 C)	none	n/v	n/v	7.14	7.14	-	-	7.33	-	7.32	-
Sulfate	mg/L	500_h[D]	n/v	24	24	-	-	27	-	26	-
Total Dissolved Solids	mg/L	500[D]	n/v	402	396	-	-	346	-	310	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	400	400	-	-	340	-	340	-
Total Organic Carbon	mg/L	n/v	n/v	1.1	1.1	-	-	0.81	-	0.82	-
Total Suspended Solids	mg/L	n/v	n/v	<10	<10	-	-	<10	-	<10	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	2.9	3.0	-	-	4.1	-	3.3	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	-	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	-	YES	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5	<5	-	-	5.6	-	6.6	-
Antimony	µg/L	6[C]	6[GH]	<0.5	<0.5	-	-	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	<1	-	-	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	51	52	-	-	68	-	72	-
Beryllium	µg/L	n/v	4[GH]	<0.5	<0.5	-	-	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	<10	<10	-	-	11	-	<10	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	<0.1	-	-	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	130000	130000	-	-	93000	-	92000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	<5	-	-	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	<0.5	-	-	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	<1	-	-	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	-	-	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	<0.5	-	-	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	12000	12000	-	-	14000	-	14000	-
Manganese	µg/L	50[D]	n/v	<2	<2	-	-	18	-	17	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	<0.5	<0.5	-	-	0.9	-	0.69	-
Nickel	µg/L	n/v	100[GH]	<1	<1	-	-	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1400	1300	-	-	2700	-	2700	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	<2	-	-	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4900	4800	-	-	6000	-	6000	-
Silver	µg/L	n/v	1.2[GH]	<0.1	<0.1	-	-	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	5900	5800	-	-	5000	-	5000	-
Strontium	µg/L	n/v	n/v	250	250	-	-	240	-	240	-
Thallium	µg/L	n/v	2[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	0.46	0.45	-	-	2.2	-	2.2	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	<0.5	-	-	<0.5	-	0.59	-
Zinc	µg/L	5000[D]	890[GH]	<5	8.3	-	-	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	-	<1	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	<0.05	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (cont.)							
Sample Date				12-Apr-16	12-Apr-16	12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM03	WG-160900764-20160412-AM04	WG-160900764-20160412-AM03A	WG-160900764-20160412-AM04A	WG-160900764-20161102-AM10	WG-160900764-20161102-AM10A	WG-160900764-20161102-AM11	WG-160900764-20161102-AM11A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B673021	B673021	B6N8983	B6N8983	B6N8983	B6N8983
Laboratory Sample ID				CEK205	CEK207	CEK206	CEK208	DJO972	DJO973	DJO974	DJO975
Filtered				Field Filtered Metals		Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		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
Diethyl Phthalate	µg/L	n/v	30^{GH}	<0.1	<0.1	<0.1	0.7	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01^{B}	0.01^{GH}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	$0.1_{s2}{}^{G}$ $0.1_{s2}{}^{H}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	$3.2_{s3}{}^{G}$ $3.2_{s3}{}^{H}$	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}{}^{GH}$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}{}^{GH}$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7^{G} 11^{H}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1^{GH}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10^{GH}	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900^{B} $0.3_{f}{}^{D}$	20^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10^{GH}	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{s13}{}^{G}$ $5_{s13}{}^{H}$	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	$5_{s13}{}^{G}$ $5_{s13}{}^{H}$	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60^{B} $30_{f}{}^{D}$	30^{GH}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890^{GH}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3^{G} 70^{H}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} $2_{f}{}^{D}$	2^{GH}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700^{GH}	<10	<10	-	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16^{GH}	<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	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5^{B}	0.2^{G} 0.79^{H}	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80^{B} $30_{f}{}^{D}$	30^{GH}	<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	-
Dibromochloromethane	µg/L	n/v	25^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200^{B} $3_{f}{}^{D}$	3^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5^{B} $1_{f}{}^{D}$	0.5^{G} 1^{H}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590^{GH}	<1.0	<1.0	-	-	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5^{C}	0.5^{G} 1.6^{H}	<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	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6^{GH}	<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	-
Dichloropropane, 1,2-	µg/L	n/v	0.58^{G} 5^{H}	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	$0.5_{s11}{}^{G}$ $0.5_{s11}{}^{H}$	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}{}^{GH}$	<0.30	<0.30	-	-	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}{}^{GH}$	<0.40	<0.40	-	-	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5^{G} 51^{H}	<1.0	<1.0	-	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800^{GH}	<10	<10	-	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640^{GH}	<5.0	<5.0	-	-	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50^{B}	26^{G} 50^{H}	<2.0	<2.0	-	-	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5^{G} 1^{H}	<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	-
Trichloroethane, 1,1,1-	µg/L	n/v	23^{G} 200^{H}	<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	-
Trichloroethene (TCE)	µg/L	5^{B}	0.5^{G} 1.6^{H}	<0.20	<0.20	-	-	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150^{GH}	<0.50	<0.50	-	-	<0.50	-	<0.50	-
Trihalomethanes	µg/L	$100_{e}{}^{B}$	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2^{B}	0.5^{GH}	<0.20	<0.20	-	-	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)							
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						Field Duplicate		Field Duplicate
General Chemistry											
Acidity	mg/L	n/v	n/v	30	-	15	-	19	17	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	200	-	210	210	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.6	-	1.2	-	<1.0	<1.0	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-	200	-	210	210	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.05	-	<0.050	<0.050	-	-
Anion Sum	meq/L	n/v	n/v	5.70	-	5.59	-	5.60	5.55	-	-
Cation Sum	meq/L	n/v	n/v	5.68	-	5.49	-	5.87	5.61	-	-
Chloride	mg/L	250[D]	790[GH]	8	-	8	-	7.0	6.8	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<2	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.2	-	0.69	-	0.87	0.86	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	550	-	540	-	540	530	-	-
Fluoride	mg/L	1.5_b[B]	n/v	<0.10	-	<0.1	-	<0.10	<0.10	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	-	**270[E]**	-	**280[E]**	**270[E]**	-	-
Ion Balance	%	n/v	n/v	0.180	-	0.890	-	2.35	0.540	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.800	-	0.633	-	0.499	0.463	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.551	-	0.384	-	0.250	0.214	-	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	**14.3[B]**	-	**13.9[B]**	-	**11.1[B]**	**11.2[B]**	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	**14.3[B]**	-	**13.9[B]**	-	**11.1[B]**	**11.2[B]**	-	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.01	-	<0.010	<0.010	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	-	7.81	-	7.62	7.61	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.14	-	7.18	-	7.12	7.15	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.39	-	7.43	-	7.37	7.40	-	-
Sulfate	mg/L	500_h[D]	n/v	18	-	20	-	19	19	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	310	-	328	-	334	334	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	330	-	320	-	330	320	-	-
Total Organic Carbon	mg/L	n/v	n/v	1.0	-	0.71	-	0.82	0.81	-	-
Total Suspended Solids	mg/L	n/v	n/v	14	-	85	-	<10	<10	-	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**19[D]**	-	**6.7[D]**	-	2.1	**7.1[D]**	-	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5_{s1}[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Toluene	µg/L	24[D]	24_{s1}[G] 22_{s1}[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-	YES	YES	-	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-	<5.0	<5.0	-	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-	<1	<1	-	-
Barium	µg/L	1000[B]	1000[GH]	32	-	29	-	33	32	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	17	-	<10	-	<10	<10	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	95000	-	89000	-	96000	92000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-	<5.0	<5.0	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	0.57	-	0.90	1.0	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	<1	-	5.2	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-	<100	<100	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	9600	-	11000	-	11000	11000	-	-
Manganese	µg/L	50[D]	n/v	14	-	4.7	-	<2	<2	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	2.1	-	1.2	-	1.1	1	-	-
Nickel	µg/L	n/v	100[GH]	<1	-	1.5	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	1300	-	1100	-	1300	1200	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	4600	-	4600	-	5900	5700	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-	<0.1	<0.1	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	3200	-	2800	-	3300	3100	-	-
Strontium	µg/L	n/v	n/v	190	-	180	-	180	180	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-	<5.0	<5.0	-	-
Uranium	µg/L	20[B]	20[GH]	0.51	-	0.34	-	0.37	0.35	-	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	<0.5	-	<0.5	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	21	-	<5.0	<5.0	-	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-	<1	<1	-	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-	<0.05	<0.05	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2)							
Sample Date				3-Feb-15	3-Feb-15	10-Apr-15	10-Apr-15	6-Oct-15	6-Oct-15	6-Oct-15	6-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B563828	B563828	B5K3284	B5K3284	B5K3284	B5K3284
Laboratory Sample ID				ZK6641	ZK6642	ABZ560	ABZ561	BCP428	BCP430	BCP429	BCP431
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS						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
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	0.2	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1	-	<1.0	<1.0	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<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	-	<0.5	-	<0.50	<0.50	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1	-	<1.0	<1.0	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.3	-	<0.30	<0.30	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.4	-	<0.40	<0.40	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1	-	<1.0	<1.0	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5	-	<5.0	<5.0	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2	-	<2.0	<2.0	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.2	-	<0.20	<0.20	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.5	-	<0.50	<0.50	-	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	<0.20	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.2	-	<0.20	<0.20	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2) (cont.)			
Sample Date				12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B6N8983	B6N8983
Laboratory Sample ID				CEK203	CEK204	DJO968	DJO969
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	29	-	36	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	260	-	250	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.5	-	1.9	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	260	-	250	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	6.46	-	6.09	-
Cation Sum	meq/L	n/v	n/v	6.52	-	6.02	-
Chloride	mg/L	250[D]	790[GH]	15	-	9.6	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.93	-	0.88	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	620	-	580	-
Fluoride	mg/L	1.5$_b$[B]	n/v	<0.10	-	<0.10	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**280[E]**	-	**290[E]**	-
Ion Balance	%	n/v	n/v	0.480	-	0.610	-
Langelier Index (at 20 C)	none	n/v	n/v	0.773	-	0.874	-
Langelier Index (at 4 C)	none	n/v	n/v	0.524	-	0.625	-
Nitrate (as N)	mg/L	10.0$_d$[B]	n/v	6.25	-	6.40	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	6.25	-	6.40	-
Nitrite (as N)	mg/L	1.0$_d$[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.79	-	7.90	-
Saturation pH (at 20 C)	none	n/v	n/v	7.02	-	7.03	-
Saturation pH (at 4 C)	none	n/v	n/v	7.27	-	7.28	-
Sulfate	mg/L	500$_h$[D]	n/v	16	-	15	-
Total Dissolved Solids	mg/L	500[D]	n/v	350	-	332	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	360	-	330	-
Total Organic Carbon	mg/L	n/v	n/v	1.1	-	0.78	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	29	-
Turbidity, Lab	ntu	5$_j$[D,E]	n/v	**11[D]**	-	**18[D]**	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	<5	-	<5	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	29	-	35	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	<10	-	<10	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	100000	-	99000	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	0.64	-	0.63	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	1.4	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10$_c$[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	7900	-	11000	-
Manganese	µg/L	50[D]	n/v	<2	-	<2	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	1.9	-	<0.5	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-
Potassium	µg/L	n/v	n/v	1400	-	990	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	4600	-	6100	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	20000	-	3100	-
Strontium	µg/L	n/v	n/v	190	-	190	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	1.3	-	0.36	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	37	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	<0.05	-	<0.05	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW5-14-S (2) (cont.)			
Sample Date				12-Apr-16	12-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160412-AM02	WG-160900764-20160412-AM02A	WG-160900764-20161102-AM08	WG-160900764-20161102-AM08A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B673021	B673021	B6N8983	B6N8983
Laboratory Sample ID				CEK203	CEK204	DJO968	DJO969
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<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
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<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
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5^{B} 1_{f}[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW6-14						
Sample Date				9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15
Sample ID				WG-160900764-20141009-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID				XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
General Chemistry										
Acidity	mg/L	n/v	n/v	12	-	-	12	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	200	-	200	-	190	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.8	2.5	-	<1	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	200	-	200	-	190	-
Ammonia (as N)	mg/L	n/v	n/v	0.12	0.058	-	<0.05	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	4.83	5.05	-	5.55	-	5.47	-
Cation Sum	meq/L	n/v	n/v	4.93	4.93	-	5.23	-	5.56	-
Chloride	mg/L	250[D]	790[GH]	10	16	-	24	-	28	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.9	2.3	-	1.4	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	420	470	-	510	-	530	-
Fluoride	mg/L	1.5_b[B]	n/v	0.26	-	-	0.26	-	0.24	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**210[E]**	**210[E]**	-	**230[E]**	-	**250[E]**	-
Ion Balance	%	n/v	n/v	0.990	1.16	-	2.91	-	0.840	-
Langelier Index (at 20 C)	none	n/v	n/v	0.469	0.591	-	-0.0400	-	0.329	-
Langelier Index (at 4 C)	none	n/v	n/v	0.220	0.341	-	-0.289	-	0.0800	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	<0.1	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	-	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<0.010	-	<0.01	-	0.016	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	<0.01	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.98	8.13	-	7.47	-	7.84	-
Saturation pH (at 20 C)	none	n/v	n/v	7.51	7.54	-	7.51	-	7.51	-
Saturation pH (at 4 C)	none	n/v	n/v	7.76	7.79	-	7.76	-	7.76	-
Sulfate	mg/L	500_h[D]	n/v	24	27	-	39	-	38	-
Total Dissolved Solids	mg/L	500[D]	n/v	262	-	-	-	-	296	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	270	-	-	-	290	-
Total Organic Carbon	mg/L	n/v	n/v	3.1	-	-	1.5	-	1.4	-
Total Suspended Solids	mg/L	n/v	n/v	310	120	-	21	-	45	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**96[D]**	**150[D]**	-	**7.2[D]**	-	**70[D]**	-
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	0.24	<0.20	-	<0.2	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	2.5	<0.20	-	<0.2	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	0.50	<0.20	-	<0.2	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	2.1	<0.20	-	<0.2	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.67	<0.20	-	<0.2	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	2.8	<0.20	-	<0.2	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	-	YES	-	YES	-
Metals										
Aluminum	µg/L	100[E]	n/v	27	20	26	12	-	9.9	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1.0	<1.0	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	97	86	86	70	-	80	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	47	49	44	23	-	21	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	39000	36000	41000	40000	-	41000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	-	<0.5	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	0.73	0.81	<0.5	-	0.68	-
Copper	µg/L	1000[D]	69[GH]	1.8	1.6	<1.0	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	26000	29000	29000	32000	-	36000	-
Manganese	µg/L	50[D]	n/v	38	**79[D]**	**92[D]**	**120[D]**	-	**100[D]**	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	5.9	5.2	6.5	4.7	-	4.3	-
Nickel	µg/L	n/v	100[GH]	1.6	<1.0	<1.0	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	6200	4700	5000	4000	-	3800	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	<2	-	<2	-
Silicon	µg/L	n/v	n/v	7900	9200	8700	8500	-	8900	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	15000	13000	12000	12000	-	10000	-
Strontium	µg/L	n/v	n/v	450	520	490	500	-	570	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	<0.050	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	<5	-	<5.0	-
Uranium	µg/L	20[B]	20[GH]	2.8	2.4	3.3	2.4	-	2.8	-
Vanadium	µg/L	n/v	6.2[GH]	0.57	<0.50	<0.50	<0.5	-	0.6	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	<5.0	<5.0	<5	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	<1.0	<1	-	<1	-
Polychlorinated Biphenyls										
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	-	<0.05	-	<0.05	-

See notes on last page

Table 7
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Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW6-14						
Sample Date				9-Oct-14	26-Nov-14	26-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-15
Sample ID				WG-160900764-20141009-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4M4069	B4M4069	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID				XY3183	YP9577	YP9578	ACK471	ACK472	BCZ958	BCZ959
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
Semi - Volatile Organic Compounds										
Phthalates										
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<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
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	<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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
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
Fluoranthene	µg/L	n/v	0.41[GH]	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	1.2	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	0.8	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds										
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	0.2	<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
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<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
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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{t}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{t}[D]	30[GH]	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{t}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds										
Acetone	µg/L	n/v	2700[GH]	16	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<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	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{t}[D]	30[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{t}[D]	3[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_{t}[D]	0.5[G] 1[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<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	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.40	-	<0.4	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	<5	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (cont.)			
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20160413-AM09	WG-160900764-20160413-AM09A	WG-160900764-20161101-AM05	WG-160900764-20161101-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	12	-	13	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	200	-	200	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	2.0	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	200	-	200	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.60	-	5.63	-
Cation Sum	meq/L	n/v	n/v	5.32	-	5.63	-
Chloride	mg/L	250[D]	790[GH]	28	-	28	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	1.4	-	1.1	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	520	-	540	-
Fluoride	mg/L	1.5_b[B]	n/v	0.26	-	0.28	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**240[E]**	-	**260[E]**	-
Ion Balance	%	n/v	n/v	2.55	-	0.00	-
Langelier Index (at 20 C)	none	n/v	n/v	0.444	-	0.527	-
Langelier Index (at 4 C)	none	n/v	n/v	0.195	-	0.278	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.97	-	8.04	-
Saturation pH (at 20 C)	none	n/v	n/v	7.52	-	7.51	-
Saturation pH (at 4 C)	none	n/v	n/v	7.77	-	7.76	-
Sulfate	mg/L	500_h[D]	n/v	40	-	40	-
Total Dissolved Solids	mg/L	500[D]	n/v	316	-	356	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	290	-	300	-
Total Organic Carbon	mg/L	n/v	n/v	1.7	-	1.6	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	91	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**18[D]**	-	**110[D]**	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	8	-	8.4	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	76	-	85	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	29	-	27	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	40000	-	42000	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	34000	-	36000	-
Manganese	µg/L	50[D]	n/v	35	-	44	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	4.2	-	4.5	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-
Potassium	µg/L	n/v	n/v	3300	-	3600	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	8300	-	8600	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	9500	-	10000	-
Strontium	µg/L	n/v	n/v	510	-	590	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	2.1	-	2.1	-
Vanadium	µg/L	n/v	6.2[GH]	0.97	-	0.63	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW6-14 (cont.)			
Sample Date				13-Apr-16	13-Apr-16	1-Nov-16	1-Nov-16
Sample ID				WG-160900764-20160413-AM09	WG-160900764-20160413-AM09A	WG-160900764-20161101-AM05	WG-160900764-20161101-AM05A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N7980	B6N7980
Laboratory Sample ID				CEO886	CEO887	DJK308	DJK309
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1	0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<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
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<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
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5^{B} 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5^{B} 1_{f}[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW7-14						
Sample Date				9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID				XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
General Chemistry										
Acidity	mg/L	n/v	n/v	13	-	-	10	-	<10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	180	-	180	-	180	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	1.8	-	<1	-	1.3	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	190	-	180	-	180	-
Ammonia (as N)	mg/L	n/v	n/v	0.10	0.060	-	<0.05	-	0.085	-
Anion Sum	meq/L	n/v	n/v	5.88	5.37	-	5.35	-	5.44	-
Cation Sum	meq/L	n/v	n/v	5.98	5.39	-	5.44	-	6.09	-
Chloride	mg/L	250[D]	790[GH]	27	29	-	29	-	29	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	-	<2	-	<2	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	2.1	1.4	-	0.86	-	0.80	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	530	520	-	520	-	530	-
Fluoride	mg/L	1.5_b[B]	n/v	0.17	-	-	0.20	-	0.21	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**270[E]**	**250[E]**	-	**250[E]**	-	**280[E]**	-
Ion Balance	%	n/v	n/v	0.830	0.190	-	0.830	-	5.66	-
Langelier Index (at 20 C)	none	n/v	n/v	0.600	0.525	-	-0.0500	-	0.404	-
Langelier Index (at 4 C)	none	n/v	n/v	0.351	0.276	-	-0.299	-	0.155	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	0.11	<0.10	-	<0.1	-	0.28	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	0.11	<0.10	-	-	-	0.29	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<0.010	-	<0.01	-	0.018	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	<0.01	-	<0.010	-
pH	S.U.	6.5-8.5[E]	n/v	7.94	8.02	-	7.47	-	7.87	-
Saturation pH (at 20 C)	none	n/v	n/v	7.34	7.50	-	7.52	-	7.47	-
Saturation pH (at 4 C)	none	n/v	n/v	7.59	7.75	-	7.77	-	7.72	-
Sulfate	mg/L	500_h[D]	n/v	40	40	-	44	-	46	-
Total Dissolved Solids	mg/L	500[D]	n/v	326	-	-	-	-	298	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	-	290	-	-	-	310	-
Total Organic Carbon	mg/L	n/v	n/v	2.2	-	-	0.97	-	0.84	-
Total Suspended Solids	mg/L	n/v	n/v	560	59	-	19	-	<10	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**360[D]**	**57[D]**	-	**6.8[D]**	-	1.2	-
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	1.0	<0.20	-	<0.2	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	0.21	<0.20	-	<0.2	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	1.4	<0.20	-	<0.2	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	0.44	<0.20	-	<0.2	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	1.8	<0.20	-	<0.2	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	-	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	-	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	-	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	-	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	-	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	-	YES	-	YES	-
Metals										
Aluminum	µg/L	100[E]	n/v	16	16	10	11	-	13	-
Antimony	µg/L	6[C]	6[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1.0	<1.0	<1.0	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	100	92	100	78	-	100	-
Beryllium	µg/L	n/v	4[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	21	32	21	<10	-	11	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	57000	45000	48000	44000	-	49000	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5.0	<5.0	<5.0	<5	-	<5.0	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	-	<0.5	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.50	1.0	1.1	<0.5	-	0.53	-
Copper	µg/L	1000[D]	69[GH]	1.6	1.5	<1.0	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	<100	<100	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.50	<0.50	<0.50	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	31000	33000	36000	34000	-	38000	-
Manganese	µg/L	50[D]	n/v	31	**79[D]**	**86[D]**	28	-	42	-
Mercury	µg/L	1[B]	0.1_{s1}[G] 0.29_{s1}[H]	<0.1	-	-	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	4.1	2.8	2.8	2.3	-	2.6	-
Nickel	µg/L	n/v	100[GH]	<1.0	<1.0	<1.0	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	<100	<100	<100	-	<100	-
Potassium	µg/L	n/v	n/v	3700	2800	3300	2700	-	2900	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2.0	<2.0	<2.0	<2	-	<2	-
Silicon	µg/L	n/v	n/v	10000	10000	11000	9700	-	11000	-
Silver	µg/L	n/v	1.2[GH]	<0.10	<0.10	<0.10	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	11000	8700	8900	8600	-	10000	-
Strontium	µg/L	n/v	n/v	420	420	480	410	-	480	-
Thallium	µg/L	n/v	2[GH]	<0.050	<0.050	<0.050	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5.0	<5.0	<5.0	<5	-	<5.0	-
Uranium	µg/L	20[B]	20[GH]	3.5	1.5	1.6	1.1	-	1.1	-
Vanadium	µg/L	n/v	6.2[GH]	0.53	<0.50	<0.50	<0.5	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5.0	5.3	<5.0	<5	-	<5.0	-
Zirconium	µg/L	n/v	n/v	<1.0	<1.0	<1.0	<1	-	<1	-
Polychlorinated Biphenyls										
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	-	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	-	<0.05	-	<0.05	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW7-14						
Sample Date				9-Oct-14	27-Nov-14	27-Nov-14	13-Apr-15	13-Apr-15	7-Oct-15	7-Oct-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
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4I9252	B4M5208	B4M5208	B565881	B565881	B5K5143	B5K5143
Laboratory Sample ID				XY3184	YQ4968	YQ4969	ACK469	ACK470	BCZ960	BCZ962
Filtered				Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS	Metals						
Semi - Volatile Organic Compounds										
Phthalates										
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	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
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<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
Benzo(a)anthracene	µg/L	n/v	1[GH]	<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
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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
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
Fluoranthene	µg/L	n/v	0.41[GH]	<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
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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<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
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds										
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds										
Acetone	µg/L	n/v	2700[GH]	10	<10	-	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	<1	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<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	-	<0.2	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<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	-	<0.5	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	<1	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<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	-	<0.5	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	<0.3	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	<0.40	-	<0.4	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	<1	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	<5	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	<2.0	-	<2	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	<0.2	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	<0.5	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-	-	<0.20	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	<0.2	-	<0.20	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (cont.)			
Sample Date				13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
General Chemistry							
Acidity	mg/L	n/v	n/v	<10	-	10	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	180	-	190	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.7	-	1.8	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	190	-	190	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	-	<0.050	-
Anion Sum	meq/L	n/v	n/v	5.47	-	5.33	-
Cation Sum	meq/L	n/v	n/v	5.26	-	5.28	-
Chloride	mg/L	250[D]	790[GH]	29	-	26	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	-	<1	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	0.92	-	0.91	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	520	-	510	-
Fluoride	mg/L	1.5_b[B]	n/v	0.21	-	0.20	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**240[E]**	-	**240[E]**	-
Ion Balance	%	n/v	n/v	1.97	-	0.450	-
Langelier Index (at 20 C)	none	n/v	n/v	0.487	-	0.502	-
Langelier Index (at 4 C)	none	n/v	n/v	0.238	-	0.253	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	0.20	-	<0.10	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	0.20	-	<0.10	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	-	<0.010	-
Orthophosphate(as P)	mg/L	n/v	n/v	0.010	-	0.010	-
pH	S.U.	6.5-8.5[E]	n/v	8.00	-	8.02	-
Saturation pH (at 20 C)	none	n/v	n/v	7.51	-	7.52	-
Saturation pH (at 4 C)	none	n/v	n/v	7.76	-	7.76	-
Sulfate	mg/L	500_h[D]	n/v	44	-	40	-
Total Dissolved Solids	mg/L	500[D]	n/v	318	-	296	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	290	-	290	-
Total Organic Carbon	mg/L	n/v	n/v	0.99	-	0.87	-
Total Suspended Solids	mg/L	n/v	n/v	<10	-	<10	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	2.2	-	4.5	-
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	5[B]	0.5_{s7}[G] 5[H]	<0.20	-	<0.20	-
Toluene	µg/L	24[D]	24_{s7}[G] 22[H]	<0.20	-	<0.20	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	-
Xylene, m & p-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylene, o-	µg/L	300_{s1}[D]	$_{s1}$[GH]	<0.20	-	<0.20	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	-	<0.20	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	-	<25	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	-	<25	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	-	<100	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	-	<200	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	-	<200	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	-	YES	-
Metals							
Aluminum	µg/L	100[E]	n/v	11	-	11	-
Antimony	µg/L	6[C]	6[GH]	<0.5	-	<0.5	-
Arsenic	µg/L	25[C]	25[GH]	<1	-	<1	-
Barium	µg/L	1000[B]	1000[GH]	87	-	110	-
Beryllium	µg/L	n/v	4[GH]	<0.5	-	<0.5	-
Boron	µg/L	5000[C]	5000[GH]	17	-	23	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	-	<0.1	-
Calcium	µg/L	n/v	n/v	44000	-	42000	-
Cesium	µg/L	n/v	n/v	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	-	<5	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	-	<0.5	-
Copper	µg/L	1000[D]	69[GH]	<1	-	<1	-
Iron	µg/L	300[D]	n/v	<100	-	<100	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	-	<0.5	-
Magnesium	µg/L	n/v	n/v	32000	-	32000	-
Manganese	µg/L	50[D]	n/v	16	-	24	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	-	<0.1	-
Molybdenum	µg/L	n/v	70[GH]	2.3	-	2.3	-
Nickel	µg/L	n/v	100[GH]	<1	-	<1	-
Phosphorus	µg/L	n/v	n/v	<100	-	<100	-
Potassium	µg/L	n/v	n/v	2700	-	3000	-
Rubidium	µg/L	n/v	n/v	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	-	<2	-
Silicon	µg/L	n/v	n/v	10000	-	10000	-
Silver	µg/L	n/v	1.2[GH]	<0.1	-	<0.1	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	8500	-	10000	-
Strontium	µg/L	n/v	n/v	400	-	440	-
Thallium	µg/L	n/v	2[GH]	<0.05	-	<0.05	-
Titanium	µg/L	n/v	n/v	<5	-	<5	-
Uranium	µg/L	20[B]	20[GH]	0.97	-	0.93	-
Vanadium	µg/L	n/v	6.2[GH]	0.76	-	<0.5	-
Zinc	µg/L	5000[D]	890[GH]	<5	-	<5	-
Zirconium	µg/L	n/v	n/v	<1	-	<1	-
Polychlorinated Biphenyls							
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	<0.05	-	<0.05	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	-	<0.05	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW7-14 (cont.)			
Sample Date				13-Apr-16	13-Apr-16	2-Nov-16	2-Nov-16
Sample ID				WG-160900764-20160413-AM10	WG-160900764-20160413-AM10A	WG-160900764-20161102-AM14	WG-160900764-20161102-AM14A
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B674114	B674114	B6N8983	B6N8983
Laboratory Sample ID				CEO888	CEO889	DJO982	DJO983
Filtered				Field Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS				
Semi - Volatile Organic Compounds							
Phthalates							
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<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
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	$0.1_{\pm2}$[G] 0.1$_{\pm2}$[H]	<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
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<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
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	$3.2_{\pm3}$[G] 3.2$_{\pm3}$[H]	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{\pm3}$[GH]	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds							
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<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
Dichlorophenol, 2,4-	µg/L	900[B] $0.3_{\dagger}$[D]	20[GH]	<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
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	$5_{\pm13}$[G] 5$_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	$5_{\pm13}$[G] 5$_{\pm13}$[H]	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] $30_{\dagger}$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] $2_{\dagger}$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] $30_{\dagger}$[D]	30[GH]	<0.20	-	<0.20	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,2-	µg/L	200[B] $3_{\dagger}$[D]	3[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-
Dichlorobenzene, 1,4-	µg/L	5[B] $1_{\dagger}$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	<0.50	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	<0.50	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	$0.5_{\pm11}$[G] 0.5$_{\pm11}$[H]	<0.50	-	<0.50	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.30	-	<0.30	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{\pm11}$[GH]	<0.40	-	<0.40	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	<0.50	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	<0.20	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	<0.50	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15							
Sample Date				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-160900764-20150204-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		Field Duplicate		Field Duplicate		Field Duplicate
General Chemistry											
Acidity	mg/L	n/v	n/v	15	10	-	-	13	17	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	n/v	210	210	-	-	220	210	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	n/v	1.8	1.6	-	-	<1	<1	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	n/v	210	210	-	-	220	210	-	-
Ammonia (as N)	mg/L	n/v	n/v	<0.050	0.065	-	-	0.35	<0.05	-	-
Anion Sum	meq/L	n/v	n/v	6.92	6.93	-	-	6.58	6.52	-	-
Cation Sum	meq/L	n/v	n/v	7.10	6.94	-	-	6.79	6.91	-	-
Chloride	mg/L	250[D]	790[GH]	16	16	-	-	15	15	-	-
Cyanide (Free)	µg/L	200[B]	52[GH]	<2	<2	-	-	<2	<2	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	n/v	4.1	4.1	-	-	1.1	1.1	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	n/a[GH]	640	640	-	-	610	610	-	-
Fluoride	mg/L	1.5_b[B]	n/v	0.13	0.13	-	-	0.11	0.11	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	n/v	**320[E]**	**310[E]**	-	-	**320[E]**	**320[E]**	-	-
Ion Balance	%	n/v	n/v	1.25	0.0600	-	-	1.51	2.90	-	-
Langelier Index (at 20 C)	none	n/v	n/v	0.717	0.670	-	-	0.290	0.317	-	-
Langelier Index (at 4 C)	none	n/v	n/v	0.468	0.422	-	-	0.0410	0.0690	-	-
Nitrate (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	-	<0.1	<0.1	-	-
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	n/v	<0.10	<0.10	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0_d[B]	n/v	<0.010	<0.010	-	-	<0.01	<0.01	-	-
Orthophosphate(as P)	mg/L	n/v	n/v	<0.010	<0.010	-	-	<0.01	<0.01	-	-
pH	S.U.	6.5-8.5[E]	n/v	7.95	7.90	-	-	7.51	7.54	-	-
Saturation pH (at 20 C)	none	n/v	n/v	7.23	7.23	-	-	7.22	7.22	-	-
Saturation pH (at 4 C)	none	n/v	n/v	7.48	7.48	-	-	7.47	7.47	-	-
Sulfate	mg/L	500_h[D]	n/v	110	110	-	-	88	88	-	-
Total Dissolved Solids	mg/L	500[D]	n/v	404	394	-	-	-	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	n/v	400	390	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	n/v	3.6	3.4	-	-	1.2	1.2	-	-
Total Suspended Solids	mg/L	n/v	n/v	19	14	-	-	<10	<10	-	-
Turbidity, Lab	ntu	5_j[D,E]	n/v	**15[D]**	**13[D]**	-	-	2.2	2.3	-	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5_{s1}[G] 5[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Toluene	µg/L	24[D]	24_{s1}[G] 22[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Ethylbenzene	µg/L	2.4[D]	2.4_{s1}[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylene, m & p-	µg/L	300_{s1}[D]	[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylene, o-	µg/L	300_{s1}[D]	[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Xylenes, Total	µg/L	300[D]	72_{s1}[G] 300_{s1}[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	[GH]	<25	<25	-	-	<25	<25	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420_{s7}[G] 420_{s7}[H]	<25	<25	-	-	<25	<25	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150_{s15}[G] 150_{s15}[H]	<100	<100	-	-	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500_{s8}[G] 500_{s8}[H]	<200	<200	-	-	<200	<200	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500_{s10}[G] 500_{s10}[H]	<200	<200	-	-	<200	<200	-	-
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	-	-	YES	YES	-	-
Metals											
Aluminum	µg/L	100[E]	n/v	<5	<5	-	-	<5	5.9	-	-
Antimony	µg/L	6[C]	6[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Arsenic	µg/L	25[C]	25[GH]	1.4	1.3	-	-	1.6	1.7	-	-
Barium	µg/L	1000[B]	1000[GH]	72	73	-	-	65	64	-	-
Beryllium	µg/L	n/v	4[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Boron	µg/L	5000[C]	5000[GH]	17	17	-	-	<10	<10	-	-
Cadmium	µg/L	5[B]	2.1[GH]	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Calcium	µg/L	n/v	n/v	77000	76000	-	-	77000	78000	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	<5	<5	-	-	<5	<5	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Cobalt	µg/L	n/v	3.8[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Copper	µg/L	1000[D]	69[GH]	<1	<1	-	-	<1	<1	-	-
Iron	µg/L	300[D]	n/v	270	280	-	-	**530[D]**	**540[D]**	-	-
Lead	µg/L	10_c[B]	10[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Magnesium	µg/L	n/v	n/v	30000	29000	-	-	30000	31000	-	-
Manganese	µg/L	50[D]	n/v	21	20	-	-	20	20	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Molybdenum	µg/L	n/v	70[GH]	1.9	2	-	-	1.2	1.1	-	-
Nickel	µg/L	n/v	100[GH]	<1	<1	-	-	<1	<1	-	-
Phosphorus	µg/L	n/v	n/v	<100	<100	-	-	<100	<100	-	-
Potassium	µg/L	n/v	n/v	2500	2500	-	-	2300	2300	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	<2	<2	-	-	<2	<2	-	-
Silicon	µg/L	n/v	n/v	10000	10000	-	-	10000	10000	-	-
Silver	µg/L	n/v	1.2[GH]	<0.1	<0.1	-	-	<0.1	<0.1	-	-
Sodium	µg/L	200000_g[D] 20000_g[F]	490000[GH]	16000	15000	-	-	8300	8500	-	-
Strontium	µg/L	n/v	n/v	330	330	-	-	290	300	-	-
Thallium	µg/L	n/v	2[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Titanium	µg/L	n/v	n/v	<5	<5	-	-	<5	<5	-	-
Uranium	µg/L	20[B]	20[GH]	0.69	0.69	-	-	0.25	0.26	-	-
Vanadium	µg/L	n/v	6.2[GH]	<0.5	<0.5	-	-	<0.5	<0.5	-	-
Zinc	µg/L	5000[D]	890[GH]	<5	<5	-	-	<5	<5	-	-
Zirconium	µg/L	n/v	n/v	<1	<1	-	-	<1	<1	-	-
Polychlorinated Biphenyls											
Aroclor 1242	µg/L	n/v	[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1248	µg/L	n/v	[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1254	µg/L	n/v	[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Aroclor 1260	µg/L	n/v	[GH]	<0.05	<0.05	-	-	<0.05	<0.05	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2_{s14}[G] 0.2_{s14}[H]	<0.05	<0.05	-	-	<0.05	<0.05	-	-

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Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				MW8-15							
Sample Date				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-160900764-20150204-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
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B520805	B520805	B520805	B520805	B565881	B565881	B565881	B565881
Laboratory Sample ID				ZK6647	ZK6649	ZK6648	ZL1119	ACK473	ACK477	ACK474	ACK478
Filtered				Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals	Field Filtered Metals	Field Filtered Metals	Lab Filtered Metals	Lab Filtered Metals
Sample Type	Units	ODWS	Ontario SCS		Field Duplicate		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
Diethyl Phthalate	µg/L	n/v	30[GH]	<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
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1_{s2}[H]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	<10	-	-	<10	<10	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	<1.0	-	-	<1	<1	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<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	<0.2	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<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	<0.2	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_{f}[D]	0.5[G] 1[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	<1.0	-	-	<1	<1	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<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	<0.5	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<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	<0.5	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<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	<0.2	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	<0.30	-	-	<0.3	<0.3	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<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	<0.2	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	<1.0	-	-	<1	<1	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	-	-	<10	<10	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	<5.0	-	-	<5	<5	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<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	-	-
Styrene	µg/L	n/v	5.4[GH]	<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	<0.5	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<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	<0.2	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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	<0.5	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	<0.20	-	-	<0.2	<0.2	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	<0.50	-	-	<0.5	<0.5	-	-
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	<0.20	-	-	<0.2	<0.2	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14
Sample ID				WG-160900764-20141120-CD05	WG-160900764-20141126 RD06	WG-160900764-20141126 RD06A	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B4O2825
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	YY9891
Filtered				-	-	-	-	Lab Filtered Metals	-	Lab Filtered Metals	-
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field 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$_b$[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$_d$[B]	n/v	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0$_d$[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$_h$[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[D,E]	n/v	-	-	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	-	<0.20	-	-	-	-
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	-	<0.20	-	-	-	-
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	-	<0.20	-	-	-	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	-	<0.20	-	-	-	-
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	-	<0.20	-	-	-	-
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	-	<0.20	-	-	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	-	-	-	-	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	100[E]	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	µg/L	50[B]	50[GH]	-	-	-	-	-	-	-	<5
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	-	-	-	-	-	-	-	<0.5
Copper	µg/L	1000[D]	69[GH]	-	-	-	-	-	-	-	<1
Iron	µg/L	300[D]	n/v	-	-	-	-	-	-	-	<100
Lead	µg/L	10$_c$[B]	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$_g$[D] 20000$_g$[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	$_{s14}$[GH]	-	-	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	-	-	-	-	-	-	-

See notes on last page

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Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK							
Sample Date				20-Nov-14	26-Nov-14	26-Nov-14	27-Nov-14	27-Nov-14	22-Dec-14	22-Dec-14	23-Dec-14
Sample ID				WG-160900764-20141120-CD05	WG-160900764-20141126 RD06	WG-160900764-20141126 RD06A	WG-160900764-20141127-RD11	WG-160900764-20141127-RD11A	WG-160900764-20141222-MF04	WG-160900764-20141222-MF04A	WG-160900764-20141223-MF02
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M4069	B4M4069	B4M5208	B4M5208	B4O2426	B4O2426	B4O2825
Laboratory Sample ID				YO3448	YP9579	YP9580	YQ4970	YQ4971	YY7645	YY7646	YY9891
Filtered				-	-	-	-	Lab Filtered Metals	-	Lab Filtered Metals	-
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Semi - Volatile Organic Compounds											
Phthalates											
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<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	-
Dimethyl Phthalate	µg/L	n/v	30[GH]	<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	-
Acenaphthylene	µg/L	n/v	1[GH]	<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	-
Benzo(a)anthracene	µg/L	n/v	1[GH]	<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	-
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	<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	-
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<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	-
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	-
Fluoranthene	µg/L	n/v	0.41[GH]	<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	-
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	-
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	-
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Naphthalene	µg/L	n/v	7[G] 11[H]	<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	-
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Remaining Semi - Volatile Organic Compounds											
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<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	-
Chloroaniline, 4-	µg/L	n/v	10[GH]	<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	-
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	<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	-
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2	<2	<2	<2	<2	-
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	<0.1	-
Phenol	µg/L	n/v	890[GH]	<0.5	<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	-
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	-
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Volatile Organic Compounds											
Acetone	µg/L	n/v	2700[GH]	<10	-	-	<10	-	-	-	-
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	-	<0.50	-	-	-	-
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	-	<1.0	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	-	<0.50	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	-	<0.20	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<0.20	-	-	<0.20	-	-	-	-
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.20	-	-	<0.20	-	-	-	-
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	-	<0.50	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	-	-	<0.50	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	-	<0.50	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	0.5[G] 1[H]	<0.50	-	-	<0.50	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	-	<1.0	-	-	-	-
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	-	<0.20	-	-	-	-
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.50	-	-	<0.50	-	-	-	-
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	-	<0.50	-	-	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.50	-	-	<0.50	-	-	-	-
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	-	<0.20	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	-	-	<0.50	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	-	<0.30	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	-	<0.40	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	-	<0.20	-	-	-	-
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	-	<1.0	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	-	<10	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	-	<5.0	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	-	<0.50	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	-	<2.0	-	-	-	-
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	-	<0.50	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	-	<0.50	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.50	-	-	<0.50	-	-	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.20	-	-	<0.20	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.50	-	-	<0.50	-	-	-	-
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	-	<0.20	-	-	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	-	<0.50	-	-	-	-
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	-	<0.20	-	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				FIELD BLANK		
Sample Date				10-Apr-15	14-Apr-16	2-Nov-16
Sample ID				FIELD BLANK	FIELD BLANK-1	FIELD BALNK-1
Sampling Company				STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX
Laboratory Work Order				B563828	B674631	B6N8983
Laboratory Sample ID				ABZ564	CER550	DJO984
Filtered				-		
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field 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$_b$[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$_d$[B]	n/v	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	-	-	-
Nitrite (as N)	mg/L	1.0$_d$[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$_h$[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[D, E]	n/v	-	-	-
BTEX and Petroleum Hydrocarbons						
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.2	<0.20	<0.20
Toluene	µg/L	24[D]	24[G] 22[H]	<0.2	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.2	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.2	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.2	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	n/v	YES	YES	YES
Metals						
Aluminum	µg/L	100[E]	n/v	-	-	-
Antimony	µg/L	6[C]	6[GH]	-	-	-
Arsenic	µg/L	25[C]	25[GH]	-	-	-
Barium	µg/L	1000[B]	1000[GH]	-	-	-
Beryllium	µg/L	n/v	4[GH]	-	-	-
Boron	µg/L	5000[C]	5000[GH]	-	-	-
Cadmium	µg/L	5[B]	2.1[GH]	-	-	-
Calcium	µg/L	n/v	n/v	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-
Chromium	µg/L	50[B]	50[GH]	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	-	-	-
Copper	µg/L	1000[D]	69[GH]	-	-	-
Iron	µg/L	300[D]	n/v	-	-	-
Lead	µg/L	10$_c$[B]	10[GH]	-	-	-
Magnesium	µg/L	n/v	n/v	-	-	-
Manganese	µg/L	50[D]	n/v	-	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	-	-
Molybdenum	µg/L	n/v	70[GH]	-	-	-
Nickel	µg/L	n/v	100[GH]	-	-	-
Phosphorus	µg/L	n/v	n/v	-	-	-
Potassium	µg/L	n/v	n/v	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-
Selenium	µg/L	10[B]	10[GH]	-	-	-
Silicon	µg/L	n/v	n/v	-	-	-
Silver	µg/L	n/v	1.2[GH]	-	-	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	-	-	-
Strontium	µg/L	n/v	n/v	-	-	-
Thallium	µg/L	n/v	2[GH]	-	-	-
Titanium	µg/L	n/v	n/v	-	-	-
Uranium	µg/L	20[B]	20[GH]	-	-	-
Vanadium	µg/L	n/v	6.2[GH]	-	-	-
Zinc	µg/L	5000[D]	890[GH]	-	-	-
Zirconium	µg/L	n/v	n/v	-	-	-
Polychlorinated Biphenyls						
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	-	-

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location					FIELD BLANK	
Sample Date				10-Apr-15	14-Apr-16	2-Nov-16
Sample ID				FIELD BLANK	FIELD BLANK-1	FIELD BALNK-1
Sampling Company				STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX
Laboratory Work Order				B563828	B674631	B6N8983
Laboratory Sample ID				ABZ564	CER550	DJO984
Filtered				-		
Sample Type	Units	ODWS	Ontario SCS	Field Blank	Field Blank	Field Blank
Semi - Volatile Organic Compounds						
Phthalates						
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	10[GH]	<1	<1	<1
Diethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	<0.1	<0.1	<0.1
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	µg/L	n/v	4.1[GH]	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1_{s2}[G] 0.1[H]	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05
Chrysene	µg/L	n/v	0.1[GH]	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	<0.1	<0.1	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	120[GH]	<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
Methylnaphthalene (Total)	µg/L	n/v	3.2_{s3}[G] 3.2_{s3}[H]	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	<0.2	<0.2	<0.2
Phenanthrene	µg/L	n/v	1[GH]	<0.1	<0.1	<0.1
Pyrene	µg/L	n/v	4.1[GH]	<0.05	<0.05	<0.05
Remaining Semi - Volatile Organic Compounds						
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	<0.5	<0.5	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_{f}[D]	20[GH]	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5_{s13}[G] 5_{s13}[H]	<0.3	<0.3	<0.3
Pentachlorophenol	µg/L	60[B] 30_{f}[D]	30[GH]	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	890[GH]	<0.5	<0.5	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_{f}[D]	2[GH]	<0.2	<0.2	<0.2
Volatile Organic Compounds						
Acetone	µg/L	n/v	2700[GH]	<10	<10	<10
Bromodichloromethane	µg/L	n/v	16[GH]	<0.5	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.5	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.2	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_{f}[D]	30[GH]	<0.2	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	2[G] 2.4[H]	<0.2	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	25[GH]	<0.5	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_{f}[D]	3[GH]	<0.5	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.5	<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
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.2	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<0.5	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	0.5[G] 1.6[H]	<0.2	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<0.5	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	1.6[GH]	<0.5	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.2	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5_{s11}[G] 0.5_{s11}[H]	<0.5	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.3	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.4	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.2	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.5	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2	<2.0	<2.0
Styrene	µg/L	n/v	5.4[GH]	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.5	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<0.5	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	0.5[G] 1.6[H]	<0.2	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<0.2	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	0.5[G] 4.7[H]	<0.5	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.2	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.5	<0.50	<0.50
Trihalomethanes	µg/L	100_{e}[B]	n/v	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.2	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				TRIP BLANK					
Sample Date				20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16
Sample ID				TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020	TRIP BLANK	TRIP BLANK
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173
Laboratory Sample ID				YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836
Filtered				-	-	-			
Sample Type	Units	ODWS	Ontario SCS	Trip Blank	Trip 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$_b$[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$_d$[B]	n/v	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	n/v	-	-	-	-	-	-
Nitrite (as N)	mg/L	1.0$_d$[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$_h$[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$_j$[D, E]	n/v	-	-	-	-	-	-
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	5[B]	0.5[G] 5[H]	<0.20	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	24[G] 22[H]	<0.20	-	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	2.4[GH]	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.40	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	$_{s1}$[GH]	<0.20	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	72$_{s1}$[G] 300$_{s1}$[H]	<0.20	-	<0.20	<0.40	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	$_{s7}$[GH]	-	-	-	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	420$_{s7}$[G] 420$_{s7}$[H]	-	-	-	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	150$_{s15}$[G] 150$_{s15}$[H]	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	500$_{s8}$[G] 500$_{s8}$[H]	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	500$_{s10}$[G] 500$_{s10}$[H]	-	-	-	-	-	-
Chromatogram to baseline at C50	none	n/v	n/v	-	-	-	-	-	-
Metals									
Aluminum	µg/L	100[E]	n/v	-	-	-	-	-	-
Antimony	µg/L	6[C]	6[GH]	-	-	-	-	-	-
Arsenic	µg/L	25[C]	25[GH]	-	-	-	-	-	-
Barium	µg/L	1000[B]	1000[GH]	-	-	-	-	-	-
Beryllium	µg/L	n/v	4[GH]	-	-	-	-	-	-
Boron	µg/L	5000[C]	5000[GH]	-	-	-	-	-	-
Cadmium	µg/L	5[B]	2.1[GH]	-	-	-	-	-	-
Calcium	µg/L	n/v	n/v	-	-	-	-	-	-
Cesium	µg/L	n/v	n/v	-	-	-	-	-	-
Chromium	µg/L	50[B]	50[GH]	-	-	-	-	-	-
Chromium (Hexavalent)	µg/L	n/v	25[GH]	-	-	-	-	-	-
Cobalt	µg/L	n/v	3.8[GH]	-	-	-	-	-	-
Copper	µg/L	1000[D]	69[GH]	-	-	-	-	-	-
Iron	µg/L	300[D]	n/v	-	-	-	-	-	-
Lead	µg/L	10$_c$[B]	10[GH]	-	-	-	-	-	-
Magnesium	µg/L	n/v	n/v	-	-	-	-	-	-
Manganese	µg/L	50[D]	n/v	-	-	-	-	-	-
Mercury	µg/L	1[B]	0.1[G] 0.29[H]	-	-	-	-	-	-
Molybdenum	µg/L	n/v	70[GH]	-	-	-	-	-	-
Nickel	µg/L	n/v	100[GH]	-	-	-	-	-	-
Phosphorus	µg/L	n/v	n/v	-	-	-	-	-	-
Potassium	µg/L	n/v	n/v	-	-	-	-	-	-
Rubidium	µg/L	n/v	n/v	-	-	-	-	-	-
Selenium	µg/L	10[B]	10[GH]	-	-	-	-	-	-
Silicon	µg/L	n/v	n/v	-	-	-	-	-	-
Silver	µg/L	n/v	1.2[GH]	-	-	-	-	-	-
Sodium	µg/L	200000$_g$[D] 20000$_g$[F]	490000[GH]	-	-	-	-	-	-
Strontium	µg/L	n/v	n/v	-	-	-	-	-	-
Thallium	µg/L	n/v	2[GH]	-	-	-	-	-	-
Titanium	µg/L	n/v	n/v	-	-	-	-	-	-
Uranium	µg/L	20[B]	20[GH]	-	-	-	-	-	-
Vanadium	µg/L	n/v	6.2[GH]	-	-	-	-	-	-
Zinc	µg/L	5000[D]	890[GH]	-	-	-	-	-	-
Zirconium	µg/L	n/v	n/v	-	-	-	-	-	-
Polychlorinated Biphenyls									
Aroclor 1242	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-
Aroclor 1248	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-
Aroclor 1254	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-
Aroclor 1260	µg/L	n/v	$_{s14}$[GH]	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)	µg/L	3[C]	0.2$_{s14}$[G] 0.2$_{s14}$[H]	-	-	-	-	-	-

See notes on last page

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Clarington Tranformer Station
Hydro One Networks Inc.

Sample Location				TRIP BLANK					
Sample Date				20-Nov-14	27-Nov-14	27-Nov-14	7-Oct-15	14-Apr-16	3-Nov-16
Sample ID				TRIP BLANK	TBLK-ABNSIM-W-14-2700	TRIP BLANK LOT 3316	TBLK-F1BB-15-3020	TRIP BLANK	TRIP BLANK
Sampling Company				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory				MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order				B4M0745	B4M5208	B4M5208	B5K5143	B674631	B6N9173
Laboratory Sample ID				YO3566	YQ4972	YQ4973	BCZ976	CER551	DJP836
Filtered				-	-	-			
Sample Type	Units	ODWS	Ontario SCS	Trip Blank	Trip 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
Diethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	-	-	-	<0.1
Dimethyl Phthalate	µg/L	n/v	30[GH]	-	<0.1	-	-	-	<0.1
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	n/v	4.1[GH]	-	<0.2	-	-	-	<0.2
Acenaphthylene	µg/L	n/v	1[GH]	-	<0.2	-	-	-	<0.2
Anthracene	µg/L	n/v	1[GH]	-	<0.05	-	-	-	<0.05
Benzo(a)anthracene	µg/L	n/v	1[GH]	-	<0.05	-	-	-	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	0.01[GH]	-	<0.01	-	-	-	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	0.1$_{s2}$[G] 0.1$_{s2}$[H]	-	<0.05	-	-	-	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	0.2[GH]	-	<0.05	-	-	-	<0.05
Benzo(k)fluoranthene	µg/L	n/v	0.1[GH]	-	<0.05	-	-	-	<0.05
Chrysene	µg/L	n/v	0.1[GH]	-	<0.05	-	-	-	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	0.2[GH]	-	<0.1	-	-	-	<0.1
Fluoranthene	µg/L	n/v	0.41[GH]	-	<0.2	-	-	-	<0.2
Fluorene	µg/L	n/v	120[GH]	-	<0.2	-	-	-	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	0.2[GH]	-	<0.1	-	-	-	<0.1
Methylnaphthalene (Total)	µg/L	n/v	3.2$_{s3}$[G] 3.2$_{s3}$[H]	-	<0.28	-	-	-	<0.28
Methylnaphthalene, 1-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	-	-	-	<0.2
Methylnaphthalene, 2-	µg/L	n/v	$_{s3}$[GH]	-	<0.2	-	-	-	<0.2
Naphthalene	µg/L	n/v	7[G] 11[H]	-	<0.2	-	-	-	<0.2
Phenanthrene	µg/L	n/v	1[GH]	-	<0.1	-	-	-	<0.1
Pyrene	µg/L	n/v	4.1[GH]	-	<0.05	-	-	-	<0.05
Remaining Semi - Volatile Organic Compounds									
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	0.5[GH]	-	<0.1	-	-	-	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	5[GH]	-	<0.5	-	-	-	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	120[GH]	-	<0.5	-	-	-	<0.5
Chloroaniline, 4-	µg/L	n/v	10[GH]	-	<1	-	-	-	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	8.9[GH]	-	<0.1	-	-	-	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	0.5[GH]	-	<0.5	-	-	-	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	20[GH]	-	<0.1	-	-	-	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	59[GH]	-	<0.5	-	-	-	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	10[GH]	-	<2	-	-	-	<2
Dinitrotoluene, 2,4-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	-	-	-	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	5$_{s13}$[G] 5$_{s13}$[H]	-	<0.3	-	-	-	<0.3
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	30[GH]	-	<0.1	-	-	-	<0.1
Phenol	µg/L	n/v	890[GH]	-	<0.5	-	-	-	<0.5
Trichlorobenzene, 1,2,4-	µg/L	n/v	3[G] 70[H]	-	<0.1	-	-	-	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	8.9[GH]	-	<0.2	-	-	-	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	2[GH]	-	<0.2	-	-	-	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	2700[GH]	<10	-	<10	-	<10	<10
Bromodichloromethane	µg/L	n/v	16[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	5[G] 25[H]	<1.0	-	<1.0	-	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	0.89[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	0.2[G] 0.79[H]	<0.20	-	<0.20	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	30[GH]	<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
Dibromochloromethane	µg/L	n/v	25[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	3[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	59[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	0.5[G] 1[H]	<0.50	-	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	590[GH]	<1.0	-	<1.0	-	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	5[GH]	<0.20	-	<0.20	-	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	0.5[G] 1.6[H]	<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
Dichloroethene, cis-1,2-	µg/L	n/v	1.6[GH]	<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
Dichloropropane, 1,2-	µg/L	n/v	0.58[G] 5[H]	<0.20	-	<0.20	-	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	0.5$_{s11}$[G] 0.5$_{s11}$[H]	<0.50	-	<0.50	-	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.30	-	<0.30	-	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	$_{s11}$[GH]	<0.40	-	<0.40	-	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	0.2[GH]	<0.20	-	<0.20	-	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	5[G] 51[H]	<1.0	-	<1.0	-	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	1800[GH]	<10	-	<10	-	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	640[GH]	<5.0	-	<5.0	-	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	15[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	26[G] 50[H]	<2.0	-	<2.0	-	<2.0	<2.0
Styrene	µg/L	n/v	5.4[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	1.1[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	0.5[G] 1[H]	<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
Trichloroethane, 1,1,1-	µg/L	n/v	23[G] 200[H]	<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
Trichloroethene (TCE)	µg/L	5[B]	0.5[G] 1.6[H]	<0.20	-	<0.20	-	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	150[GH]	<0.50	-	<0.50	-	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	n/v	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	0.5[GH]	<0.20	-	<0.20	-	<0.20	<0.20

See notes on last page

Table 7
Summary of Groundwater Analytical Results - Monitoring Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

ODWS	Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (MOE, 2006)
A	ODWS Table 1 - Microbiological Standards, Maximum Acceptable Concentration
B	ODWS Table 2 - Chemical Standards, Maximum Acceptable Concentration
C	ODWS Table 2 - Chemical Standards, Interim Maximum Acceptable Concentration
D	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Aesthetic Objectives
E	ODWS Table 4 - Chemical/Physical Objectives and Guidelines, Operational Guidelines
F	ODWS Table 4 - Medical Officer of Health Reporting Limit
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.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
6.5^{A}	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
b	Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but lower than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
c	This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
d	Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
e	The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
f	Refer to ODWS Table 2 for health related standard
g^{DF}	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^{GH}	Not applicable.
s1^{DGH}	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s2^{GH}	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^{GH}	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^{GH}	Standard is applicable to PHC in the F1 range minus BTEX.
s8^{GH}	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^{GH}	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^{GH}	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s13^{GH}	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^{GH}	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
s15^{GH}	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 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed					
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	13-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20160413-JK20	WG-160900764-20161103-JK21
Water Type			Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B674120	B6N8820
Laboratory Sample ID			WY7356	XW7258	ACQ225	BDB101	CEO963	DJO312
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	22	25	27	45	36	38
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	290	300	310	300	300	320
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.8	1.1	1.1	2.4	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	290	300	310	300	310	320
Ammonia (as N)	mg/L	n/v	<0.050	0.099	<0.05	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	8.88	9.17	9.52	9.16	9.17	9.53
Cation Sum	meq/L	n/v	9.04	9.08	8.94	9.59	8.82	9.19
Chloride	mg/L	250[D]	75	81	86	78	76	83
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.80	0.86	0.69	0.72	0.80	0.91
Electrical Conductivity, Lab	µmhos/cm	n/v	860	890	900	870	880	910
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**410[E]**	**400[E]**	**390[E]**	**420[E]**	**400[E]**	**390[E]**
Ion Balance	%	n/v	0.910	0.470	3.16	2.27	1.94	1.81
Langelier Index (at 20 C)	none	n/v	0.945	0.888	0.672	0.688	1.01	0.940
Langelier Index (at 4 C)	none	n/v	0.698	0.640	0.424	0.440	0.757	0.692
Nitrate (as N)	mg/L	10.0$_d$[B]	1.41	1.10	1.06	1.08	0.89	0.81
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	1.41	1.1	-	1.08	0.89	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.01	<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
pH	S.U.	6.5-8.5[E]	7.88	7.81	7.59	7.58	7.93	7.84
Saturation pH (at 20 C)	none	n/v	6.94	6.92	6.92	6.89	6.93	6.90
Saturation pH (at 4 C)	none	n/v	7.18	7.17	7.17	7.14	7.17	7.14
Sulfate	mg/L	500$_n$[D]	39	40	38	38	39	31
Total Dissolved Solids	mg/L	500[D]	**554[D]**	468	**524[D]**	492	490	**512[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	500	500	480	500
Total Organic Carbon	mg/L	n/v	0.85	0.79	0.73	0.74	0.78	0.86
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	1.3	**5.6[D]**	0.3	0.7	0.3	2.1
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0
Metals								
Aluminum	µg/L	100[E]	<5.0	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	64	67	65	65	65	67
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	10	<10	11	<10	<10	10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120000	120000	110000	120000	110000	120000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	2.9	1.4	20	5	4.8	8.3
Iron	µg/L	300[D]	<100	130	100	<100	<100	**340[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	0.73	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	26000	27000	25000	28000	28000	25000
Manganese	µg/L	50[D]	4.5	12	2.8	2.8	2.9	3.8
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	0.59	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1900	2000	1900	2000	1900	2000
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	7000	6800	6000	6800	6300	6200
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**21000[F]**	**22000[F]**	**26000[F]**	**25000[F]**	19000	**31000[F]**
Strontium	µg/L	n/v	260	290	270	300	280	270
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	16	15	13	14	15	8.8
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	10	7.7	40	17	18	17
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed					
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	13-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK2	WG-160900764-20141006-AD04	WG-160900764-20150415-JK7	WG-160900764-20151008-JK24	WG-160900764-20160413-JK20	WG-160900764-20161103-JK21
Water Type			Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV	Softener / Charcoal Filter / UV
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B674120	B6N8820
Laboratory Sample ID			WY7356	XW7258	ACQ225	BDB101	CEO963	DJO312
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<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
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.5	<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
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<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
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<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
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<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
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<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
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.2	<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
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<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
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

See notes on last page

Table 8
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Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed						
Sample Date			31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15	11-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6	WG-160900764-20160411-JK2	WG-160900764-20161101-JK9
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L2726	B561586	B5K2703	B671945	B6N7539
Laboratory Sample ID			WY7358	XX8294	YK4122	ABP510	BCM871	CEE707	DJI435
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	20	12	36	23	42	56	32
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	300	310	320	320	300	330	300
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.8	2.1	1.7	1.1	1.4	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	300	310	320	320	300	340	300
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	8.18	8.45	8.48	8.10	8.27	8.55	8.04
Cation Sum	meq/L	n/v	8.28	8.48	8.71	7.97	8.54	8.84	7.89
Chloride	mg/L	250[D]	17	21	21	14	20	17	17
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.1	1.2	1.1	1.2	1.1	1.2	1.0
Electrical Conductivity, Lab	µmhos/cm	n/v	750	790	790	770	770	790	770
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**390[E]**	**400[E]**	**410[E]**	**380[E]**	**400[E]**	**410[E]**	**370[E]**
Ion Balance	%	n/v	0.630	0.210	1.33	0.800	1.58	1.66	0.920
Langelier Index (at 20 C)	none	n/v	0.961	0.882	0.979	0.845	0.684	0.807	0.889
Langelier Index (at 4 C)	none	n/v	0.713	0.634	0.731	0.597	0.436	0.559	0.641
Nitrate (as N)	mg/L	10.0$_d$[B]	8.33	8.54	8.48	7.10	8.54	6.62	6.96
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.33	8.54	8.48	7.10	8.54	6.62	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<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	0.011	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.87	7.78	7.86	7.74	7.58	7.66	7.83
Saturation pH (at 20 C)	none	n/v	6.91	6.90	6.88	6.90	6.90	6.85	6.94
Saturation pH (at 4 C)	none	n/v	7.16	7.15	7.12	7.15	7.15	7.10	7.19
Sulfate	mg/L	500$_n$[D]	50	49	45	37	49	42	52
Total Dissolved Solids	mg/L	500[D]	486	442	458	468	478	472	440
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	480	440	470	480	440
Total Organic Carbon	mg/L	n/v	1.2	1.1	1.1	1.1	1.1	1.2	1.0
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	**3[A]**
Total Coliform Background	cfu/100mL	n/v	-	0	0	68	0	0	710
Total Coliforms	cfu/100mL	0[A]	-	0	0	**5[A]**	0	0	**53[A]**
Metals									
Aluminum	µg/L	100[E]	19	<5.0	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	110	110	110	110	120	120	100
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	12	<10	13	12	11	18	12
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	120000	120000	120000	110000	120000	120000	110000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.81	2.1	0.81	0.72	1.7	1.7	0.87
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	17	8.6	5.1	4.7	13	13	6.3
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	0.57	1.2	0.60	<0.5	1.3	0.92	0.72
Magnesium	µg/L	n/v	23000	26000	26000	23000	24000	24000	25000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2	3	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	5.4	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	10000	6300	6100	8100	8400	9400	6500
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	8700	8800	9100	7600	8400	8100	8300
Silver	µg/L	n/v	<0.10	<0.10	0.40	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	5300	8500	10000	5300	7500	11000	5500
Strontium	µg/L	n/v	280	320	300	290	300	320	280
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	1.0	1.1	1.1	0.98	1.1	1.2	1.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	120	150	72	76	130	66	77
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Other/Unconfirmed						
Sample Date			31-Jul-14	8-Oct-14	11-Nov-14	8-Apr-15	5-Oct-15	11-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140731-JK4	WG-160900764-20141008-AD23	WG-160900764-20141111-AD02	WG-160900764-20150408-AD03	WG-160900764-20151005-JK6	WG-160900764-20160411-JK2	WG-160900764-20161101-JK9
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L2726	B561586	B5K2703	B671945	B6N7539
Laboratory Sample ID			WY7358	XX8294	YK4122	ABP510	BCM871	CEE707	DJI435
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<4 MI	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_t[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	3.9	2.5	<0.50	5.2	3.0	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_t[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	13	5.5	0.21	14	6.6	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	1.8	1.3	<0.50	2.3	1.3	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_t[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_t[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	18.7	9.3	<1	<1.0	10.9	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			31-Jul-14	8-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	18-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140731-JK1	WG-160900764-20141008-AD15	WG-160900764-20141112-AD09	WG-160900764-20141112-AD09 FILTERED	WG-160900764-20150415-JK1	WG-160900764-20151005-JK7	WG-160900764-20160418-JK22	WG-160900764-20161101-JK7
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L3740	B4L3740	B567144	B5K2703	B676726	B6N7539
Laboratory Sample ID			WY7355	XX8286	YK9092	YK9156	ACQ219	BCM872	CFC036	DJI433
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry										
Acidity	mg/L	n/v	21	12	29	-	25	40	28	38
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	300	300	290	-	310	300	300	330
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.5	1.9	2.6	-	1.2	1.1	2.4	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	300	300	290	-	310	300	310	330
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	-	<0.05	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	6.78	6.85	6.86	-	7.15	7.16	7.17	7.82
Cation Sum	meq/L	n/v	6.97	6.64	7.11	-	6.72	7.30	7.30	7.47
Chloride	mg/L	250[D]	11	10	13	-	11	14	14	20
Cyanide (Free)	µg/L	200[B]	<2	<2	<20 MI	-	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.95	1.0	0.94	-	0.78	0.98	1.0	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	630	610	640	-	640	660	680	720
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	-	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**330[E]**	**320[E]**	**340[E]**	-	**320[E]**	**350[E]**	**350[E]**	**350[E]**
Ion Balance	%	n/v	1.40	1.57	1.75	-	3.15	0.980	0.930	2.33
Langelier Index (at 20 C)	none	n/v	1.06	0.930	1.08	-	0.734	0.698	1.05	0.983
Langelier Index (at 4 C)	none	n/v	0.813	0.681	0.828	-	0.485	0.450	0.801	0.734
Nitrate (as N)	mg/L	10.0$_d$[B]	3.16	3.44	3.85	-	3.23	4.29	3.59	4.40
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	3.16	3.44	3.85	-	-	4.29	-	2.49
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	-	<0.01	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	-	<0.01	<0.010	<0.010	0.010
pH	S.U.	6.5-8.5[E]	7.95	7.83	7.97	-	7.62	7.57	7.92	7.83
Saturation pH (at 20 C)	none	n/v	6.89	6.90	6.89	-	6.89	6.88	6.87	6.84
Saturation pH (at 4 C)	none	n/v	7.14	7.15	7.14	-	7.13	7.12	7.12	7.09
Sulfate	mg/L	500$_h$[D]	14	15	16	-	17	19	18	19
Total Dissolved Solids	mg/L	500[D]	356	318	356	-	346	386	374	390
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	370	-	370	390	390	410
Total Organic Carbon	mg/L	n/v	0.95	0.94	1.2	-	0.87	0.98	0.97	1.4
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	0.3	-	<0.2	<0.2	0.4	<0.1
Microbiological Analysis										
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	-	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	930	0	-	69	500	13	0
Total Coliforms	cfu/100mL	0[A]	-	**16[A]**	0	-	**9[A]**	**9[A]**	**8[A]**	0
Metals										
Aluminum	µg/L	100[E]	<5.0	6.5	7.6	-	5.4	<5.0	5.7	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	-	<1	<1	<1	<1
Barium	µg/L	1000[B]	39	39	42	-	40	44	42	44
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	5000[C]	10	11	11	-	<10	11	14	19
Cadmium	µg/L	5[B]	0.14	<0.10	<0.10	-	<0.1	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	120000	110000	120000	-	110000	120000	120000	120000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5	<5.0	<5	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5
Copper	µg/L	1000[D]	20	9.6	17	-	5.1	9.5	3.6	11
Iron	µg/L	300[D]	<100	<100	<100	-	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	0.54	<0.50	-	<0.5	<0.5	<0.5	<0.5
Magnesium	µg/L	n/v	9600	10000	11000	-	10000	11000	11000	11000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	-	<2	<2	<2	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	<1	1
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100
Potassium	µg/L	n/v	1000	970	880	-	780	1000	840	1200
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	-	<2	<2	<2	<2
Silicon	µg/L	n/v	6300	5700	5900	-	5200	6100	6200	5700
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.1	<0.1	<0.1	<0.1
Sodium	µg/L	0000$_g$[D] 20000	6300	5800	7400	-	5700	7200	7200	12000
Strontium	µg/L	n/v	200	200	210	-	200	220	210	220
Thallium	µg/L	n/v	0.055	<0.050	<0.050	-	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	<5	<5
Uranium	µg/L	20[B]	0.76	0.51	0.54	-	0.55	0.56	0.63	0.63
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	<0.5	<0.5
Zinc	µg/L	5000[D]	9.8	12	<5.0	-	<5	<5.0	<5	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	-	<1
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	YES	YES

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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			31-Jul-14	8-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	18-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140731-JK1	WG-160900764-20141008-AD15	WG-160900764-20141112-AD09	WG-160900764-20141112-AD09 FILTERED	WG-160900764-20150415-JK1	WG-160900764-20151005-JK7	WG-160900764-20160418-JK22	WG-160900764-20161101-JK7
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B4L3740	B4L3740	B567144	B5K2703	B676726	B6N7539
Laboratory Sample ID			WY7355	XX8286	YK9092	YK9156	ACQ219	BCM872	CFC036	DJI433
Filtered	Units	ODWS	Lab Filtered Metals	Total 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
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[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<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-Chloroethyl)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[B] 0.3_f[D]	<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	0.3	0.3	<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[B] 30_t[D]	<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	5[B] 2_f[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	2.5	-	<0.5	<0.50	<0.50	5.3
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_t[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	2.4	6.4	-	0.28	0.30	<0.20	15
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	1.1	-	<0.5	<0.50	<0.50	2.5
Dichlorobenzene, 1,2-	µg/L	200[B] 3_t[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_t[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	2.4	10	-	<1	<0.50	<1.0	22.8
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	29-Oct-15	13-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK3	WG-160900764-20141006-AD03	WG-160900764-20150415-JK8	WG-160900764-20151008-JK23	WG-160900764-20151029-JK3	WG-160900764-20160413-JK19	WG-160900764-20161103-JK20
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B5M1891	B674120	B6N8820
Laboratory Sample ID			WY7357	XW7257	ACQ226	BDB100	BGI096	CEO962	DJO311
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	32	42	23	51	-	44	44
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	310	320	330	330	-	330	350
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.1	1.6	2.0	1.1	-	2.1	2.2
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	310	320	330	330	-	330	350
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.05	<0.050	-	<0.050	<0.050
Anion Sum	meq/L	n/v	8.07	8.34	8.52	9.60	-	9.37	10.3
Cation Sum	meq/L	n/v	8.02	8.19	8.24	10.5	-	9.69	10.4
Chloride	mg/L	250[D]	38	45	47	79	-	64	95
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	-	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.0	1.2	1.1	1.3	-	2.2	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	790	810	810	900	-	890	990
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.1	<0.10	-	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**350[E]**	**360[E]**	**360[E]**	**450[E]**	-	**400[E]**	**410[E]**
Ion Balance	%	n/v	0.270	0.910	1.69	4.56	-	1.67	0.650
Langelier Index (at 20 C)	none	n/v	0.982	0.855	0.965	0.804	-	1.02	1.05
Langelier Index (at 4 C)	none	n/v	0.733	0.607	0.717	0.557	-	0.772	0.800
Nitrate (as N)	mg/L	10.0$_d$[B]	5.31	3.61	2.44	2.77	-	3.99	2.56
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	5.31	3.61	-	2.77	-	3.99	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.01	<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
pH	S.U.	6.5-8.5[E]	7.86	7.72	7.81	7.56	-	7.83	7.83
Saturation pH (at 20 C)	none	n/v	6.88	6.86	6.84	6.76	-	6.81	6.79
Saturation pH (at 4 C)	none	n/v	7.12	7.11	7.09	7.00	-	7.05	7.03
Sulfate	mg/L	500$_h$[D]	20	22	21	23	-	30	20
Total Dissolved Solids	mg/L	500[D]	442	440	442	**526[D]**	-	**502[D]**	**552[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	450	**540[D]**	-	**520[D]**	**560[D]**
Total Organic Carbon	mg/L	n/v	1.1	1.2	1.2	1.5	-	1.7	1.4
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	-	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	0.3	0.4	2.5	-	2.5	2.4
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	**NDOGT[E]**	**NDOGT[E]**	**3[A]**	**NDOGT[E]**
Total Coliform Background	cfu/100mL	n/v	-	96	12	NDOGT	NDOGT	64	NDOGT
Total Coliforms	cfu/100mL	0[A]	-	**6[A]**	**10[A]**	**NDOGT[E]**	**NDOGT[E]**	**12[A]**	**NDOGT[E]**
Metals									
Aluminum	µg/L	100[E]	<5.0	9.8	8.1	**120[E]**	-	16	**370[E]**
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	-	<1.0	<1
Barium	µg/L	1000[B]	47	55	46	64	-	56	68
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Boron	µg/L	5000[C]	15	11	13	14	-	20	17
Cadmium	µg/L	5[B]	<0.10	<0.10	0.1	<0.1	-	<0.10	<0.1
Calcium	µg/L	n/v	120000	120000	120000	160000	-	140000	140000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	-	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Copper	µg/L	1000[D]	4.2	3.0	<1	1	-	<1.0	2.3
Iron	µg/L	300[D]	<100	<100	<100	120	-	<100	**340[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	1.7	<0.5	-	<0.50	0.57
Magnesium	µg/L	n/v	10000	12000	12000	15000	-	13000	13000
Manganese	µg/L	50[D]	<2.0	6.0	3.3	27	-	<2.0	23
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	-	<100	<100
Potassium	µg/L	n/v	1100	1200	1000	1500	-	1500	1600
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	-	<2.0	<2
Silicon	µg/L	n/v	6300	6300	4800	6800	-	5800	6400
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**23000[F]**	**24000[F]**	**23000[F]**	**34000[F]**	-	**38000[F]**	**52000[F]**
Strontium	µg/L	n/v	210	250	240	300	-	290	280
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	-	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	7.5	-	<5.0	21
Uranium	µg/L	20[B]	1.0	1.1	0.93	1.2	-	0.98	1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	0.82
Zinc	µg/L	5000[D]	21	27	<5	<5.0	-	<5.0	9.9
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	1.5
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.2	<0.20	-	-	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	-	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	-	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	-	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	-	YES	YES

See notes on last page

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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			31-Jul-14	6-Oct-14	15-Apr-15	8-Oct-15	29-Oct-15	13-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK3	WG-160900764-20141006-AD03	WG-160900764-20150415-JK8	WG-160900764-20151008-JK23	WG-160900764-20151029-JK3	WG-160900764-20160413-JK19	WG-160900764-20161103-JK20
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)	Outside (Barn)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B567144	B5K5292	B5M1891	B674120	B6N8820
Laboratory Sample ID			WY7357	XW7257	ACQ226	BDB100	BGI096	CEO962	DJO311
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	-	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30_t[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<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
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_t[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_t[D]	<0.50	<0.50	<0.5	<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
Dichlorobenzene, 1,4-	µg/L	5[B] 1_t[D]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<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
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<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
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<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
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	-	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	-	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<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
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	-	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.2	<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
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<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
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	<1	<0.20	-	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden			
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	10-Apr-15
Sample ID			WG-160900764-20140801-JK7	WG-160900764-20141007-AD09	WG-160900764-20141111-AD01	WG-160900764-20150410-AD05
Water Type			Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B563627
Laboratory Sample ID			WY7361	XX2936	YK4121	ABY873
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals
General Chemistry						
Acidity	mg/L	n/v	18	16	27	19
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	250	270	260	240
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.9	1.9	<1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	250	270	270	240
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.05
Anion Sum	meq/L	n/v	6.52	6.18	6.33	5.62
Cation Sum	meq/L	n/v	6.68	6.14	6.52	5.76
Chloride	mg/L	250[D]	19	18	24	14
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.1	0.99	0.94	0.79
Electrical Conductivity, Lab	µmhos/cm	n/v	640	590	620	540
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.1
Hardness (as CaCO3)	mg/L	80-100[E]	**310[E]**	**290[E]**	**300[E]**	**270[E]**
Ion Balance	%	n/v	1.27	0.330	1.53	1.22
Langelier Index (at 20 C)	none	n/v	0.917	0.904	0.916	0.439
Langelier Index (at 4 C)	none	n/v	0.668	0.655	0.667	0.190
Nitrate (as N)	mg/L	10.0$_d$[B]	**10.5[B]**	2.69	2.96	4.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	**10.5[B]**	2.69	2.96	4.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.01
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.01
pH	S.U.	6.5-8.5[E]	7.90	7.87	7.89	7.49
Saturation pH (at 20 C)	none	n/v	6.99	6.97	6.97	7.05
Saturation pH (at 4 C)	none	n/v	7.24	7.22	7.22	7.30
Sulfate	mg/L	500$_h$[D]	8	5	5	5
Total Dissolved Solids	mg/L	500[D]	390	294	358	310
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	340	300
Total Organic Carbon	mg/L	n/v	0.99	1.0	0.90	0.78
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	0.5	0.3	<0.2	<0.2
Microbiological Analysis						
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	**1[A]**
Total Coliform Background	cfu/100mL	n/v	-	110	46	90
Total Coliforms	cfu/100mL	0[A]	-	**38[A]**	**120[A]**	**2[A]**
Metals						
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1
Barium	µg/L	1000[B]	32	33	35	26
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Boron	µg/L	5000[C]	24	29	29	21
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1
Calcium	µg/L	n/v	110000	100000	110000	97000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Copper	µg/L	1000[D]	17	15	12	5.7
Iron	µg/L	300[D]	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5
Magnesium	µg/L	n/v	7200	6400	6900	6700
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100
Potassium	µg/L	n/v	880	880	880	640
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2
Silicon	µg/L	n/v	5200	5000	4800	4300
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	9600	8800	11000	7900
Strontium	µg/L	n/v	190	190	200	170
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.20	0.15	0.16	0.16
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Zinc	µg/L	5000[D]	5.9	5.1	7.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1
BTEX and Petroleum Hydrocarbons						
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.2
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.2
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.2
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES

See notes on last page

Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden			
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	10-Apr-15
Sample ID			WG-160900764-20140801-JK7	WG-160900764-20141007-AD09	WG-160900764-20141111-AD01	WG-160900764-20150410-AD05
Water Type			Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B563627
Laboratory Sample ID			WY7361	XX2936	YK4121	ABY873
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds						
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_t$[D]	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds						
Acetone	µg/L	n/v	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	<0.20	<0.20	<0.20	<0.2
Chloroform (Trichloromethane)	µg/L	n/v	0.33	0.27	<0.20	0.28
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	<0.50	<0.50	<0.50	<0.5
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	<0.50	<0.50	<0.50	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.2
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5
Trihalomethanes	µg/L	100$_e$[B]	0.33	0.27	<0.20	<1
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			1-Aug-14	6-Oct-14	20-Nov-14	30-Apr-15	7-Oct-15	12-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140801-JK8	WG-160900764-20141006-AD06	W6-160900764-20141120-AD16	WG-160900764-20150430-JK18	WG-160900764-20151007-JK22	WG-160900764-20160412-JK8	WG-160900764-20161102-JK17
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (kitchen)	Inside (kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L9371	B579325	B5K5099	B673025	B6N8820
Laboratory Sample ID			WY7362	XW7260	YN6862	AEW419	BCZ445	CEK231	DJO307
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	18	22	-	36	26	23	29
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	270	260	260	260	270	250	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.5	1.5	1.6	<1.0	1.4	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	270	260	260	260	270	260	280
Ammonia (as N)	mg/L	n/v	0.19	0.057	<0.050	0.23	0.051	0.16	0.13
Anion Sum	meq/L	n/v	16.0	16.0	15.8	16.7	17.1	16.1	18.1
Cation Sum	meq/L	n/v	16.1	15.8	16.2	17.3	17.8	16.5	19.7
Chloride	mg/L	250[D]	**350[D]**	**350[D]**	**350[D]**	**380[D]**	**380[D]**	**360[D]**	**420[D]**
Cyanide (Free)	µg/L	200[B]	<2	<2	-	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.83	0.99	0.90	0.72	0.86	0.84	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	1800	1800	1800	1800	1900	1700	2100
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**260[E]**	95	**140[E]**	**250[E]**	84	**340[E]**	**340[E]**
Ion Balance	%	n/v	0.160	0.490	1.45	1.95	2.19	1.27	4.07
Langelier Index (at 20 C)	none	n/v	0.575	-0.0350	0.133	0.443	-0.474	0.544	0.620
Langelier Index (at 4 C)	none	n/v	0.329	-0.282	-0.113	0.197	-0.720	0.298	0.374
Nitrate (as N)	mg/L	10.0$_d$[B]	0.19	0.25	0.33	0.17	<0.10	0.46	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	0.19	0.25	0.33	0.17	<0.10	0.46	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.88	7.80	7.77	7.80	7.44	7.76	7.83
Saturation pH (at 20 C)	none	n/v	7.30	7.83	7.64	7.36	7.92	7.21	7.21
Saturation pH (at 4 C)	none	n/v	7.55	8.08	7.88	7.60	8.16	7.46	7.46
Sulfate	mg/L	500$_h$[D]	34	35	34	37	39	35	40
Total Dissolved Solids	mg/L	500[D]	**904[D]**	**882[D]**	**814[D]**	**916[D]**	**956[D]**	**910[D]**	**1070[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	**910[D]**	**960[D]**	**1000[D]**	**910[D]**	**1100[D]**
Total Organic Carbon	mg/L	n/v	0.73	0.92	0.85	0.89	0.77	0.84	1.4
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	3.3	0.3	0.3	1.8	0.9	<0.2	0.2
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	86	12	10	58	0	16
Total Coliforms	cfu/100mL	0[A]	-	**46[A]**	**10[A]**	0	**52[A]**	**2[A]**	0
Metals									
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1
Barium	µg/L	1000[B]	70	23	22	70	25	93	75
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	24	15	23	23	18	22	19
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	64000	19000	29000	58000	16000	82000	81000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	8.9	23	32	10	22	42	23
Iron	µg/L	300[D]	<100	<100	<100	240	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.50	<0.5	1.7	<0.5
Magnesium	µg/L	n/v	25000	12000	16000	27000	11000	33000	35000
Manganese	µg/L	50[D]	27	10	16	21	7.1	30	31
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.10	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	0.51	0.53	0.53	0.61	<0.5	0.66	0.54
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2900	980	1300	3500	830	2500	3000
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	8800	8900	8500	8900	8700	8000	8600
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**250000[DF]**	**320000[DF]**	**310000[DF]**	**280000[DF]**	**370000[DF]**	**220000[DF]**	**290000[DF]**
Strontium	µg/L	n/v	260	79	120	240	60	360	330
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.16	0.17	0.17	0.18	<0.1	0.21	0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	50	34	40	39	25	46	35
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			1-Aug-14	6-Oct-14	20-Nov-14	30-Apr-15	7-Oct-15	12-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140801-JK8	WG-160900764-20141006-AD06	W6-160900764-20141120-AD16	WG-160900764-20150430-JK18	WG-160900764-20151007-JK22	WG-160900764-20160412-JK8	WG-160900764-20161102-JK17
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (kitchen)	Inside (kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L9371	B579325	B5K5099	B673025	B6N8820
Laboratory Sample ID			WY7362	XW7260	YN6862	AEW419	BCZ445	CEK231	DJO307
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	-	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.3 MI
Phenanthrene	µg/L	n/v	<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
Pyrene	µg/L	n/v	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	3.0	0.47	0.58	1.4	0.30	2.6	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	3.67	0.47	0.58	1.4	<0.50	2.6	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden				
Sample Date			1-Aug-14	7-Oct-14	30-Apr-15	7-Oct-15	28-Oct-16
Sample ID			WG-160900764-20140801-JK9	WG-160900764-20141007-AD11	WG-160900764-20150430-JK19	WG-160900764-20151007-JK20	WG-160900764-20161028-AW1
Water Type			Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B579325	B5K5099	B6N3868
Laboratory Sample ID			WY7363	XX2938	AEW420	BCZ443	DIO842
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry							
Acidity	mg/L	n/v	19	18	29	25	36
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	280	290	280	280	290
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.4	2.2	2.3	1.1	2.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	280	290	280	280	290
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.061	<0.050	<0.050
Anion Sum	meq/L	n/v	9.10	7.54	8.62	7.72	7.95
Cation Sum	meq/L	n/v	9.35	7.84	8.87	7.88	7.92
Chloride	mg/L	250[D]	92	31	73	45	48
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.2	1.4	1.0	1.1	1.1
Electrical Conductivity, Lab	µmhos/cm	n/v	920	740	830	760	790
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**390[E]**	**330[E]**	**380[E]**	**340[E]**	**340[E]**
Ion Balance	%	n/v	1.36	2.00	1.40	0.980	0.160
Langelier Index (at 20 C)	none	n/v	1.05	0.983	1.05	0.689	1.08
Langelier Index (at 4 C)	none	n/v	0.804	0.735	0.806	0.441	0.827
Nitrate (as N)	mg/L	10.0$_d$[B]	8.51	8.00	6.84	5.96	5.45
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.51	8.00	6.84	5.96	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<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
pH	S.U.	6.5-8.5[E]	7.96	7.90	7.94	7.62	8.00
Saturation pH (at 20 C)	none	n/v	6.91	6.92	6.89	6.93	6.92
Saturation pH (at 4 C)	none	n/v	7.16	7.17	7.14	7.18	7.17
Sulfate	mg/L	500$_h$[D]	16	15	18	17	17
Total Dissolved Solids	mg/L	500[D]	**604[D]**	418	482	426	456
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	480	430	430
Total Organic Carbon	mg/L	n/v	1.0	1.4	1.1	1.1	1.1
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	<0.2	<0.2	0.5
Microbiological Analysis							
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	**NDOGN[E]**	0
Total Coliform Background	cfu/100mL	n/v	-	96	7	NDOGN	20
Total Coliforms	cfu/100mL	0[A]	-	**2[A]**	0	**NDOGN[E]**	0
Metals							
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1
Barium	µg/L	1000[B]	65	71	60	58	58
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5
Boron	µg/L	5000[C]	12	26	15	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1
Calcium	µg/L	n/v	140000	120000	130000	120000	120000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	0.53	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5
Copper	µg/L	1000[D]	4.0	7.2	4.5	6.2	8
Iron	µg/L	300[D]	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	0.70	<0.50	<0.5	<0.5
Magnesium	µg/L	n/v	11000	8800	11000	11000	11000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2700	7400	2400	2100	2000
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2
Silicon	µg/L	n/v	6100	5500	5500	5600	5800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**35000[F]**	**24000[F]**	**30000[F]**	**26000[F]**	**26000[F]**
Strontium	µg/L	n/v	250	240	250	220	240
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.29	0.26	0.26	0.27	0.27
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	0.57
Zinc	µg/L	5000[D]	5.4	16	8.8	6.9	9.8
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden				
Sample Date			1-Aug-14	7-Oct-14	30-Apr-15	7-Oct-15	28-Oct-16
Sample ID			WG-160900764-20140801-JK9	WG-160900764-20141007-AD11	WG-160900764-20150430-JK19	WG-160900764-20151007-JK20	WG-160900764-20161028-AW1
Water Type			Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B579325	B5K5099	B6N3868
Laboratory Sample ID			WY7363	XX2938	AEW420	BCZ443	DIO842
Filtered	Units	ODWS	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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<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
Dibenzo(a,h)anthracene	µg/L	n/v	<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
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<5 MI
Dinitrotoluene, 2,4-	µg/L	n/v	<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
Fluoranthene	µg/L	n/v	<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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<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
Methylnaphthalene, 1-	µg/L	n/v	<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
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	<0.1	<0.1	<0.1	<0.1	<1 MI
Phenanthrene	µg/L	n/v	<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
Pyrene	µg/L	n/v	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_t$[D]	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.81	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	0.81	<1.0	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			1-Aug-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	5-Oct-15	16-Nov-15	12-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140801-JK11	WG-160900764-20141008-AD18	WG-160900764-20141112-AD10	WG-160900764-20141112-AD10 FILTERED	WG-160900764-20150421-JK14	WG-160900764-20151005-JK8	WG-160900764-20151116-JK	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19
Water Type			Raw	Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)
Treatment Type			Softener (not operational)	Softener	Softener (not operational)	Softener (not operational)	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			B4D8040	B4I8196	B4L3740	B4L3740	B571211	B5K2703	B5N4851	B673025	B6N8820
Laboratory Sample ID			WY7365	XX8289	YK9093	YK9157	ADJ096	BCM873	BIZ104	CEK236	DJO310
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry											
Acidity	mg/L	n/v	<10	<10	36	-	15	50	42	26	50
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	320	320	330	-	230	340	330	270	340
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.3	2.0	2.4	-	2.1	1.2	1.4	1.5	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	320	330	340	-	230	340	330	270	350
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.12	-	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	8.24	8.26	7.97	-	5.45	9.41	8.58	5.96	10.3
Cation Sum	meq/L	n/v	8.15	8.15	8.03	-	5.57	9.78	8.84	6.26	9.94
Chloride	mg/L	250[D]	39	38	24	-	11	64	48	9.3	92
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	-	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.85	0.87	0.90	-	3.0	0.84	0.84	1.1	0.79
Electrical Conductivity, Lab	µmhos/cm	n/v	780	790	730	-	510	870	840	560	970
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**320[E]**	**1.8[E]**	**250[E]**	-	**2.6[E]**	**430[E]**	**390[E]**	**300[E]**	**410[E]**
Ion Balance	%	n/v	0.520	0.710	0.330	-	1.07	1.92	1.51	2.47	1.58
Langelier Index (at 20 C)	none	n/v	0.927	-1.38	0.827	-	-1.12	0.796	0.818	0.812	1.01
Langelier Index (at 4 C)	none	n/v	0.679	-1.63	0.578	-	-1.37	0.548	0.570	0.563	0.766
Nitrate (as N)	mg/L	10.0$_d$[B]	3.49	3.43	2.69	-	4.55	4.06	2.99	0.83	3.87
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	3.49	3.43	2.69	-	4.57	4.06	2.99	0.83	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	-	0.015	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	-	0.026	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.89	7.81	7.88	-	7.98	7.57	7.65	7.77	7.82
Saturation pH (at 20 C)	none	n/v	6.96	9.19	7.05	-	9.10	6.78	6.84	6.96	6.81
Saturation pH (at 4 C)	none	n/v	7.21	9.44	7.30	-	9.35	7.02	7.08	7.21	7.05
Sulfate	mg/L	500$_h$[D]	20	21	18	-	7	23	22	9.2	21
Total Dissolved Solids	mg/L	500[D]	440	430	402	-	270	472	436	322	**558[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	430	-	310	**520[D]**	470	320	**550[D]**
Total Organic Carbon	mg/L	n/v	0.87	0.81	0.86	-	2.5	0.85	0.80	1.0	1.7
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	0.3	-	0.3	<0.2	<0.2	<0.2	0.8
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	**22[A]**	0	-	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	110	44	-	0	0	46	50	1300
Total Coliforms	cfu/100mL	0[A]	-	**24[A]**	**32[A]**	-	0	0	**2[A]**	**30[A]**	0
Metals											
Aluminum	µg/L	100[E]	<5.0	5.4	5.1	-	9.3	<5.0	<5	5.2	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	31	<2.0	25	-	<2.0	71	73	32	73
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	15	13	13	-	<10	15	17	<10	22
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	96000	570	74000	-	880	140000	130000	110000	140000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.58	0.51	<0.50	-	<0.50	0.58	0.66	<0.50	0.58
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	39	6.1	22	-	24	44	11	8.9	13
Iron	µg/L	300[D]	<100	<100	<100	-	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	1.3	<0.50	<0.50	-	0.60	1.4	<0.5	<0.50	0.52
Magnesium	µg/L	n/v	19000	83	15000	-	110	18000	17000	7200	18000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	-	<2.0	<2	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1100	<200	1500	-	<200	960	910	530	930
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	-	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	7000	6800	7500	-	3100	7800	7600	4900	7300
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**40000[F]**	**190000[F]**	**70000[F]**	-	**130000[F]**	**27000[F]**	**25000[F]**	6800	**38000[F]**
Strontium	µg/L	n/v	170	1.3	130	-	1.9	290	280	190	290
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	-	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5	<5.0	<5
Uranium	µg/L	20[B]	0.51	0.42	0.44	-	0.21	0.57	0.47	0.23	0.47
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	0.52	<0.50	<0.5
Zinc	µg/L	5000[D]	30	9.9	9.5	-	17	30	6.6	7.9	14
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.40	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.40	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden								
Sample Date			1-Aug-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	5-Oct-15	16-Nov-15	12-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140801-JK11	WG-160900764-20141008-AD18	WG-160900764-20141112-AD10	WG-160900764-20141112-AD10 FILTERED	WG-160900764-20150421-JK14	WG-160900764-20151005-JK8	WG-160900764-20151116-JK	WG-160900764-20160412-JK12	WG-160900764-20161103-JK19
Water Type			Raw	Treated	Treated	Treated	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Back Deck)	Outside (Back Deck)	Outside (Back Deck)
Treatment Type			Softener (not operational)	Softener	Softener (not operational)	Softener (not operational)	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			B4D8040	B4I8196	B4L3740	B4L3740	B571211	B5K2703	B5N4851	B673025	B6N8820
Laboratory Sample ID			WY7365	XX8289	YK9093	YK9157	ADJ096	BCM873	BIZ104	CEK236	DJO310
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds											
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<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
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
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
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
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
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
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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
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
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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	0.2	1.0	<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
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
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<5	<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
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
Fluoranthene	µg/L	n/v	<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
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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	<0.1	<0.1	<0.1	<0.1	<0.5	<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
Phenol	µg/L	n/v	<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
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
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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	1.9	-	<0.20	0.23	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	1.9	-	<1.0	<0.50	-	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			5-Aug-14	6-Oct-14	11-Nov-14	11-Nov-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK12	WG-160900764-20141006-AD02	WG-160900764-20141111-AD05	WG-160900764-20141111-AD06	WG-160900764-20150416-JK9	WG-160900764-2015106-JK11	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8
Water Type			Treated	Treated	Treated	Raw	Treated	Raw	Raw	Raw
Sample Tap			Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)
Treatment Type			Softener	Softener	Softener	None	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L2726	B4L2726	B567840	B5K3284	B673025	B6N7539
Laboratory Sample ID			WZ3801	XW7256	YK4125	YK4126	ACT454	BCP439	CEK239	DJI434
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry										
Acidity	mg/L	n/v	25	15	36	42	17	38	27	29
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	300	310	320	320	320	300	280	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	2.3	2.1	2.1	2.2	1.1	1.7	2.3
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	300	310	320	320	320	300	280	320
Ammonia (as N)	mg/L	n/v	<0.050	0.067	<0.050	0.17	0.052	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	8.03	8.17	7.87	7.86	7.87	8.69	6.37	9.00
Cation Sum	meq/L	n/v	8.14	8.26	8.42	8.34	7.81	9.65	6.74	8.88
Chloride	mg/L	250[D]	40	36	26	24	25	59	12	63
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.93	1.1	1.2	1.2	1.3	1.0	1.9	1.0
Electrical Conductivity, Lab	µmhos/cm	n/v	800	800	750	740	740	830	600	870
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**1.5[E]**	**2.6[E]**	**220[E]**	**390[E]**	**<1**	**420[E]**	**330[E]**	**180[E]**
Ion Balance	%	n/v	0.720	0.580	3.38	2.95	0.340	5.24	2.84	0.670
Langelier Index (at 20 C)	none	n/v	-1.44	-1.34	0.654	1.00	-1.63	0.721	0.894	0.354
Langelier Index (at 4 C)	none	n/v	-1.69	-1.58	0.406	0.754	-1.87	0.473	0.645	0.107
Nitrate (as N)	mg/L	10.0$_d$[B]	1.81	1.69	1.60	1.65	1.31	1.45	0.95	1.16
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	1.81	1.69	1.6	1.65	1.31	1.45	0.95	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.010	<0.010	<0.01	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.85	7.89	7.85	7.83	7.86	7.58	7.81	7.89
Saturation pH (at 20 C)	none	n/v	9.29	9.23	7.20	6.83	9.48	6.86	6.91	7.53
Saturation pH (at 4 C)	none	n/v	9.54	9.48	7.45	7.08	9.73	7.11	7.16	7.78
Sulfate	mg/L	500$_h$[D]	34	39	29	29	30	41	15	39
Total Dissolved Solids	mg/L	500[D]	448	440	428	440	396	472	330	**536[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	440	430	450	490	340	490
Total Organic Carbon	mg/L	n/v	1.0	1.0	1.2	1.2	1.2	0.93	1.9	0.97
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	0.2	0.3	<0.2	<0.2	0.2	<0.1
Microbiological Analysis										
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	**8[A]**	0	0	0	**NDOGT[E]**	**NDOGT[E]**	0
Total Coliform Background	cfu/100mL	n/v	-	120	12	0	600	NDOGT	NDOGT	870
Total Coliforms	cfu/100mL	0[A]	-	**32[A]**	0	0	**4[A]**	**NDOGT[E]**	**NDOGT[E]**	**75[A]**
Metals										
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	5.1	<5	5	6.3	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	<2.0	<2.0	18	59	<2	74	29	11
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	15	20	17	17	15	<10	<10	15
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	480	540	56000	130000	280	130000	120000	28000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	12	14	28	8.5	13	16	37	44
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	0.63	0.55	<0.5	0.79	0.91	0.86
Magnesium	µg/L	n/v	80	300	20000	16000	<50	23000	9000	28000
Manganese	µg/L	50[D]	<2.0	<2.0	2.5	<2.0	<2	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	230	320	3500	1100	210	1800	380	4700
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	6200	7100	7100	7100	5000	7100	3600	6200
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**190000[F]**	**190000[F]**	**89000[F]**	11000	**180000[F]**	**26000[F]**	4100	**120000[F]**
Strontium	µg/L	n/v	<1.0	1.8	89	250	<1	270	180	45
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	3.7	3.8	2.7	2.2	2.2	5.2	1.1	5.6
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	<5.0	6.9	6.5	<5	<5.0	7.6	5.2
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			5-Aug-14	6-Oct-14	11-Nov-14	11-Nov-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK12	WG-160900764-20141006-AD02	WG-160900764-20141111-AD05	WG-160900764-20141111-AD06	WG-160900764-20150416-JK9	WG-160900764-2015106-JK11	WG-160900764-20160412-JK14	WG-160900764-20161101-JK8
Water Type			Treated	Treated	Treated	Raw	Treated	Raw	Raw	Raw
Sample Tap			Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)	Outside (Right house)
Treatment Type			Softener	Softener	Softener	None	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L2726	B4L2726	B567840	B5K3284	B673025	B6N7539
Laboratory Sample ID			WZ3801	XW7256	YK4125	YK4126	ACT454	BCP439	CEK239	DJI434
Filtered	Units	ODWS	Lab Filtered 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[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<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-Chloroethyl)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[B] 0.3$_f$[D]	<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[B] 30$_f$[D]	<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	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	3.4	3.6	1.1	<0.50	<0.50	2.4
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	1.4	1.3	1.2	<1.0	<1.0	3.9
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	0.45	<0.20	7.4	8.3	1.1	<0.20	0.29	2.3
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	2.6	2.6	1.8	<0.50	<0.50	4.3
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	0.45	<0.20	14.8	15.8	5.3	<0.20	0.29	12.9
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			5-Aug-14	8-Oct-14	20-Nov-14	21-Apr-15	6-Oct-15	7-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK14	WG-160900764-20141008-AD19	W6-160900764-20141120-AD17	WG-160900764-20150421-JK12	WG-160900764-2015106-JK14	WG-160900764-20151007-JK14	WG-160900764-20160412-JK10	WG-160900764-20161101-JK2
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (kitchen)	Outside (Back house)	Outside (Back house)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L9371	B571211	B5K3284	B5K5099	B673025	B6N7539
Laboratory Sample ID			WZ3803	XX8290	YN6864	ADJ094	BCP442	BCZ446	CEK233	DJI428
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry										
Acidity	mg/L	n/v	29	10	-	33	51	-	47	29
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	320	330	320	320	310	-	340	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.7	1.4	2.3	1.1	-	1.6	2.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	320	330	330	320	310	-	340	310
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	0.064	<0.050	-	<0.050	<0.050
Anion Sum	meq/L	n/v	9.71	9.96	10.4	10.3	9.50	-	13.0	8.74
Cation Sum	meq/L	n/v	9.72	9.62	10.6	9.97	9.97	-	13.3	8.84
Chloride	mg/L	250[D]	75	81	100	99	78	-	190	50
Cyanide (Free)	µg/L	200[B]	<2	<2	-	<2	<2	-	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.88	1.1	1.9	1.2	1.0	-	1.5	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	930	940	1000	940	920	-	1400	860
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**390[E]**	**390[E]**	**410[E]**	**390[E]**	**400[E]**	-	**490[E]**	**350[E]**
Ion Balance	%	n/v	0.0800	1.77	0.840	1.48	2.45	-	1.14	0.590
Langelier Index (at 20 C)	none	n/v	0.935	0.880	0.833	1.03	0.719	-	0.953	1.04
Langelier Index (at 4 C)	none	n/v	0.687	0.632	0.586	0.784	0.471	-	0.706	0.794
Nitrate (as N)	mg/L	10.0$_d$[B]	4.89	4.68	4.29	4.16	4.37	-	1.11	4.46
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	4.90	4.68	4.29	4.16	4.37	-	1.11	-
Nitrite (as N)	mg/L	1.0$_d$[B]	0.011	<0.010	0.068	<0.010	<0.010	-	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.79	7.74	7.67	7.88	7.59	-	7.70	7.96
Saturation pH (at 20 C)	none	n/v	6.86	6.86	6.83	6.85	6.87	-	6.75	6.92
Saturation pH (at 4 C)	none	n/v	7.11	7.11	7.08	7.10	7.12	-	7.00	7.17
Sulfate	mg/L	500$_h$[D]	40	39	36	34	36	-	33	36
Total Dissolved Solids	mg/L	500[D]	**526[D]**	**532[D]**	**558[D]**	**514[D]**	**530[D]**	-	**840[D]**	486
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	**570[D]**	**550[D]**	**530[D]**	-	**720[D]**	480
Total Organic Carbon	mg/L	n/v	0.93	1.1	1.9	1.3	0.95	-	1.5	1.2
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	0.9	<0.2	<0.2	-	<0.2	<0.1
Microbiological Analysis										
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	-	0	0	**NDOGT[E]**
Total Coliform Background	cfu/100mL	n/v	-	530	990	0	-	0	11	NDOGT
Total Coliforms	cfu/100mL	0[A]	-	**28[A]**	**18[A]**	0	-	0	0	**NDOGT[E]**
Metals										
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	5.3	-	5.5	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	<1
Barium	µg/L	1000[B]	58	62	62	59	65	-	59	<2
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Boron	µg/L	5000[C]	25	23	23	22	16	-	10	18
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.10	<0.1
Calcium	µg/L	n/v	130000	130000	140000	130000	130000	-	180000	110000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Copper	µg/L	1000[D]	4.5	6.2	7.4	6.7	29	-	31	20
Iron	µg/L	300[D]	<100	<100	210	<100	<100	-	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Magnesium	µg/L	n/v	17000	18000	18000	18000	19000	-	13000	18000
Manganese	µg/L	50[D]	5.3	4.6	21	5.0	4.7	-	4	7.2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.1	-	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	2.7
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	-	<100	<100
Potassium	µg/L	n/v	1100	1100	1300	1000	1200	-	470	1400
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2.0	<2	-	<2.0	<2
Silicon	µg/L	n/v	6400	6100	6500	6000	6500	-	5600	6100
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	-	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**42000[F]**	**43000[F]**	**53000[F]**	**48000[F]**	**44000[F]**	-	**79000[F]**	**41000[F]**
Strontium	µg/L	n/v	260	270	270	280	270	-	430	180
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	-	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5
Uranium	µg/L	20[B]	1.2	1.4	1.4	1.4	1.5	-	0.65	1.4
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	-	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	7.7	<5.0	<5.0	<5.0	-	9.5	110
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	-	<1.0	<1
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	-	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	-	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	-	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	-	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	-	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	-	YES	YES

See notes on last page

Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden							
Sample Date			5-Aug-14	8-Oct-14	20-Nov-14	21-Apr-15	6-Oct-15	7-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK14	WG-160900764-20141008-AD19	W6-160900764-20141120-AD17	WG-160900764-20150421-JK12	WG-160900764-2015106-JK14	WG-160900764-20151007-JK14	WG-160900764-20160412-JK10	WG-160900764-20161101-JK2
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (kitchen)	Outside (Back house)	Outside (Back house)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L9371	B571211	B5K3284	B5K5099	B673025	B6N7539
Laboratory Sample ID			WZ3803	XX8290	YN6864	ADJ094	BCP442	BCZ446	CEK233	DJI428
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	2	-	<1	<1	-	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	-	<5	<2	-	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<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
Fluoranthene	µg/L	n/v	<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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<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
Methylnaphthalene, 1-	µg/L	n/v	<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
Naphthalene	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	-	<0.5	<0.1	-	<0.1	<0.1
Phenanthrene	µg/L	n/v	<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
Pyrene	µg/L	n/v	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	-	<0.2	<0.2	-	<0.2	<0.2
Volatile Organic Compounds										
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	9.5	<0.50	<0.50	-	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	92	0.27	<0.20	-	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	2.0	<0.50	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	-	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	-	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	**103.5[B]**	<1.0	<0.20	-	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			5-Aug-14	8-Oct-14	11-Nov-14	15-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK16	WG-160900764-20141008-AD22	WG-160900764-20141111-AD03	WG-160900764-20150415-JK5	WG-160900764-2015106-JK9	WG-160900764-20160412-JK11	WG-160900764-20161101-JK5
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L2726	B567144	B5K3284	B673025	B6N7539
Laboratory Sample ID			WZ3805	XX8293	YK4123	ACQ223	BCP437	CEK235	DJI431
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	24	<10	22	24	29	30	26
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	260	270	250	300	270	280	270
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	1.7	2.1	1.3	1.0	1.4	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	260	270	260	300	270	290	270
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	4.6	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	6.67	6.76	6.59	7.51	6.74	7.06	6.78
Cation Sum	meq/L	n/v	6.60	6.63	6.95	7.48	7.10	7.14	6.51
Chloride	mg/L	250[D]	13	12	14	21	16	16	18
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	4	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.74	0.97	0.98	**5.4[D]**	0.98	1.2	1.0
Electrical Conductivity, Lab	µmhos/cm	n/v	600	630	640	700	630	670	650
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**320[E]**	**320[E]**	**330[E]**	**340[E]**	**340[E]**	**340[E]**	**310[E]**
Ion Balance	%	n/v	0.530	0.970	2.68	0.160	2.60	0.610	2.01
Langelier Index (at 20 C)	none	n/v	0.910	0.868	0.961	0.751	0.658	0.802	0.927
Langelier Index (at 4 C)	none	n/v	0.661	0.619	0.712	0.503	0.409	0.554	0.678
Nitrate (as N)	mg/L	10.0$_d$[B]	8.06	8.69	8.67	6.54	6.64	6.22	6.18
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.06	8.69	8.67	-	6.64	6.22	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	0.025	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.89	7.83	7.94	7.66	7.62	7.72	7.92
Saturation pH (at 20 C)	none	n/v	6.98	6.96	6.98	6.91	6.96	6.92	6.99
Saturation pH (at 4 C)	none	n/v	7.23	7.21	7.23	7.16	7.21	7.17	7.24
Sulfate	mg/L	500$_h$[D]	22	21	22	23	23	21	23
Total Dissolved Solids	mg/L	500[D]	358	324	376	402	386	370	352
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	370	410	380	390	370
Total Organic Carbon	mg/L	n/v	0.80	0.92	0.94	5.7	0.91	1.2	0.95
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	<0.2	3.8	<0.2	<0.2	1.9
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	**16[A]**	**1[A]**	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	96	8	250	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	**24[A]**	**6[A]**	0	0	0	0
Metals									
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	22	<5.0	<5.0	5.6
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	41	45	48	46	45	46	44
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	<10	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	110000	110000	110000	110000	110000	120000	100000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	0.56	0.56	0.56	<0.5	0.68	0.53	0.61
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	14	7.2	5.4	5.8	5.1	7.4	4.7
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	11000	12000	13000	12000	13000	13000	12000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	16	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	870	910	940	2300	990	960	990
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	6300	6000	6600	5300	6500	6000	6000
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	6200	5700	6300	8900	6900	7100	7100
Strontium	µg/L	n/v	190	200	210	210	210	220	190
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.52	0.49	0.57	0.61	0.64	0.65	0.61
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	11	9.0	11	9.5	9.1	8.5	15
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			5-Aug-14	8-Oct-14	11-Nov-14	15-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140805-JK16	WG-160900764-20141008-AD22	WG-160900764-20141111-AD03	WG-160900764-20150415-JK5	WG-160900764-2015106-JK9	WG-160900764-20160412-JK11	WG-160900764-20161101-JK5
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I8196	B4L2726	B567144	B5K3284	B673025	B6N7539
Laboratory Sample ID			WZ3805	XX8293	YK4123	ACQ223	BCP437	CEK235	DJI431
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	0.61	<0.5	<0.50	<0.50	1.9
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	1.4	5.2	<0.20	<0.20	3.1
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	1.1
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	2.01	5.2	<0.20	<0.20	6.1
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			21-Aug-14	7-Oct-14	10-Apr-15	5-Oct-15	28-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140821-HB-03	WG-160900764-20141007-AD10	WG-160900764-20150410-AD06	WG-160900764-20151005-JK1	WG-160900764-20151028-JK1	WG-160900764-20160412-JK9	WG-160900764-20161101-JK4
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I7101	B563627	B5K2703	B5M1891	B673025	B6N7539
Laboratory Sample ID			XF8148	XX2937	ABY874	BCM866	BGI094	CEK232	DJI430
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	38	19	17	28	-	24	17
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	330	340	310	300	-	270	230
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	3.2	2.4	2.2	1.0	-	1.5	2.3
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	340	340	310	310	-	270	230
Ammonia (as N)	mg/L	n/v	0.060	<0.050	<0.05	0.28	-	<0.050	<0.050
Anion Sum	meq/L	n/v	17.5	18.4	16.9	19.0	-	16.5	14.5
Cation Sum	meq/L	n/v	18.2	18.2	17.4	19.5	-	16.7	14.7
Chloride	mg/L	250[D]	**360[D]**	**380[D]**	**350[D]**	**420[D]**	-	**370[D]**	**320[D]**
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	-	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.1	1.3	2.8	1.1	-	3.8	0.81
Electrical Conductivity, Lab	µmhos/cm	n/v	1900	1900	1900	2000	-	1800	1600
Fluoride	mg/L	1.5_b[B]	<0.10	<0.10	<0.1	<0.10	-	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**390[E]**	**400[E]**	**390[E]**	**410[E]**	-	**400[E]**	**440[E]**
Ion Balance	%	n/v	1.73	0.400	1.51	1.51	-	0.650	0.960
Langelier Index (at 20 C)	none	n/v	1.10	0.954	0.963	0.579	-	0.799	0.866
Langelier Index (at 4 C)	none	n/v	0.849	0.708	0.717	0.333	-	0.554	0.620
Nitrate (as N)	mg/L	10.0_d[B]	1.85	2.09	2.12	3.31	-	1.89	1.95
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	1.85	2.09	2.12	3.31	-	1.89	-
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.01	<0.010	-	0.012	<0.010
pH	S.U.	6.5-8.5[E]	8.01	7.88	7.89	7.55	-	7.76	8.03
Saturation pH (at 20 C)	none	n/v	6.91	6.93	6.93	6.97	-	6.97	7.17
Saturation pH (at 4 C)	none	n/v	7.16	7.18	7.17	7.21	-	7.21	7.41
Sulfate	mg/L	500_h[D]	30	32	25	32	-	31	32
Total Dissolved Solids	mg/L	500[D]	**984[D]**	**1010[D]**	**980[D]**	**1080[D]**	-	**1020[D]**	**1010[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	**950[D]**	**1100[D]**	-	**930[D]**	**810[D]**
Total Organic Carbon	mg/L	n/v	1.5	1.4	2.9	1.2	-	3.8	0.76
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	-	<10	<10
Turbidity, Lab	ntu	5_i[D,E]	<0.2	1.2	0.2	<0.2	-	<0.2	0.3
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	**1[A]**	0	-	0	**NDOGT[E]**
Total Coliform Background	cfu/100mL	n/v	240	0	56	53	-	200	NDOGT
Total Coliforms	cfu/100mL	0[A]	**76[A]**	0	**17[A]**	**11[A]**	-	**43[A]**	**NDOGT[E]**
Metals									
Aluminum	µg/L	100[E]	<5.0	7.7	<5	<5.0	-	<5.0	7
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	-	<1.0	1
Barium	µg/L	1000[B]	110	170	97	150	-	79	220
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Boron	µg/L	5000[C]	15	10	10	<10	-	<10	11
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1
Calcium	µg/L	n/v	130000	120000	130000	130000	-	150000	100000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	-	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	<0.5
Copper	µg/L	1000[D]	43	25	11	17	-	12	8.3
Iron	µg/L	300[D]	<100	<100	<100	<100	-	<100	<100
Lead	µg/L	10_c[B]	**16[B]**	5.5	<0.5	1.3	-	0.99	1.5
Magnesium	µg/L	n/v	16000	22000	14000	22000	-	8800	44000
Manganese	µg/L	50[D]	<2.0	2.3	<2	<2	-	<2.0	2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	-	<0.50	0.51
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	1.4
Phosphorus	µg/L	n/v	<100	<100	<100	<100	-	<100	<100
Potassium	µg/L	n/v	1400	2100	2300	2100	-	730	2900
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	-	<2.0	<2
Silicon	µg/L	n/v	6500	7600	4400	7600	-	3100	9100
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	-	<0.10	<0.1
Sodium	µg/L	0000_g[D] 20000	**240000[DF]**	**240000[DF]**	**220000[DF]**	**260000[DF]**	-	**200000[F]**	**130000[F]**
Strontium	µg/L	n/v	310	380	320	350	-	310	560
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	-	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	-	<5.0	<5
Uranium	µg/L	20[B]	0.45	0.70	0.44	0.65	-	0.51	0.8
Vanadium	µg/L	n/v	<0.50	0.53	<0.5	0.53	-	<0.50	<0.5
Zinc	µg/L	5000[D]	13	5.3	5.1	<5.0	-	5	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	-	<1.0	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	-	<0.40	<0.40
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.2	<0.20	-	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	-	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	-	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	-	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	-	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	-	YES	YES

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Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			21-Aug-14	7-Oct-14	10-Apr-15	5-Oct-15	28-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140821-HB-03	WG-160900764-20141007-AD10	WG-160900764-20150410-AD06	WG-160900764-20151005-JK1	WG-160900764-20151028-JK1	WG-160900764-20160412-JK9	WG-160900764-20161101-JK4
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I7101	B563627	B5K2703	B5M1891	B673025	B6N7539
Laboratory Sample ID			XF8148	XX2937	ABY874	BCM866	BGI094	CEK232	DJI430
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	***<0.02***	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<2	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<2	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<4	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.5	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.57	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	-	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	3.6	<0.5	<0.50	-	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	2.1	<1	<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
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	4.2	<0.2	<0.20	-	<0.20	0.21
Dibromochloromethane	µg/L	n/v	<0.50	4.8	<0.5	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.5	<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
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<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
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<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
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<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
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	-	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	-	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	-	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<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
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	-	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.2	<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
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	-	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<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
Trihalomethanes	µg/L	100_e[B]	<0.20	14.7	<1	<0.20	-	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	-	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden					
Sample Date			21-Aug-14	6-Oct-14	21-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140821-HB-05	WG-160900764-20141006-AD05	WG-160900764-20150421-JK13	WG-160900764-2015106JK12	WG-160900764-20160413-JK18	WG-160900764-20161102-JK16
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Basement Laundry Tub Tap	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I6091	B571211	B5K3284	B674120	B6N8820
Laboratory Sample ID			XF8149	XW7259	ADJ095	BCP440	CEO961	DJO306
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	57	46	36	51	31	46
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	370	390	360	390	350	390
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	3.3	1.9	1.9	1.6	2.4	2.5
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	370	390	360	390	350	390
Ammonia (as N)	mg/L	n/v	0.068	<0.050	0.18	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	12.1	12.2	11.7	11.7	10.2	12.6
Cation Sum	meq/L	n/v	12.3	11.8	11.6	12.4	10.2	12.4
Chloride	mg/L	250[D]	130	130	130	110	89	130
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.7	1.9	1.9	1.7	1.8	1.8
Electrical Conductivity, Lab	µmhos/cm	n/v	1200	1200	1100	1100	960	1200
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**460[E]**	**430[E]**	**430[E]**	**450[E]**	**390[E]**	**450[E]**
Ion Balance	%	n/v	0.690	1.83	0.550	2.77	0.0500	0.780
Langelier Index (at 20 C)	none	n/v	1.20	0.954	0.963	0.875	1.04	1.01
Langelier Index (at 4 C)	none	n/v	0.951	0.706	0.716	0.627	0.791	0.765
Nitrate (as N)	mg/L	10.0$_d$[B]	1.92	1.92	2.28	1.40	1.37	1.31
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	1.92	1.92	2.28	1.4	1.37	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.98	7.72	7.76	7.65	7.87	7.83
Saturation pH (at 20 C)	none	n/v	6.78	6.76	6.80	6.78	6.83	6.82
Saturation pH (at 4 C)	none	n/v	7.03	7.01	7.04	7.02	7.08	7.06
Sulfate	mg/L	500$_h$[D]	38	35	36	38	28	40
Total Dissolved Solids	mg/L	500[D]	**652[D]**	**610[D]**	**576[D]**	**614[D]**	**528[D]**	**678[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	**630[D]**	**640[D]**	**540[D]**	**670[D]**
Total Organic Carbon	mg/L	n/v	1.8	1.7	1.9	1.7	1.7	1.7
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	0.3	<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
Total Coliform Background	cfu/100mL	n/v	190	0	160	180	47	150
Total Coliforms	cfu/100mL	0[A]	**46[A]**	0	**26[A]**	**6[A]**	**2[A]**	**7[A]**
Metals								
Aluminum	µg/L	100[E]	15	<5.0	<5.0	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1.0	<1
Barium	µg/L	1000[B]	93	91	79	92	68	110
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	26	17	16	19	13	26
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	140000	140000	130000	130000	130000	120000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	45	8.2	7.5	9.1	11	6
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	1.5	<0.50	0.53	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	27000	22000	24000	28000	20000	33000
Manganese	µg/L	50[D]	<2.0	<2.0	<2.0	<2	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	1.1	<1.0	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1700	1600	1500	2100	1400	2800
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	7400	7600	5800	8200	5900	8600
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**70000[F]**	**71000[F]**	**65000[F]**	**76000[F]**	**52000[F]**	**78000[F]**
Strontium	µg/L	n/v	350	350	340	340	310	370
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Uranium	µg/L	20[B]	1.0	1.0	1.1	1.4	0.89	1.8
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	31	5.7	13	5.8	13	14
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden					
Sample Date			21-Aug-14	6-Oct-14	21-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140821-HB-05	WG-160900764-20141006-AD05	WG-160900764-20150421-JK13	WG-160900764-2015106JK12	WG-160900764-20160413-JK18	WG-160900764-20161102-JK16
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Basement Laundry Tub Tap	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F2239	B4I6091	B571211	B5K3284	B674120	B6N8820
Laboratory Sample ID			XF8149	XW7259	ADJ095	BCP440	CEO961	DJO306
Filtered	Units	ODWS	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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<5	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<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
Fluoranthene	µg/L	n/v	<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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<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
Methylnaphthalene, 1-	µg/L	n/v	<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
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<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
Pyrene	µg/L	n/v	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	1.5	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	15	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	0.54	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	5.1	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	22.14	<1.0	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			22-Sep-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	7-Oct-15	14-Apr-16
Sample ID			WG-160900764-20140922-JK01	WG-160900764-20141008-AD16	WG-160900764-20141112-AD15	WG-160900764-20141112-AD15 FILTERED	WG-160900764-20150421-JK16	WG-160900764-20151007-JK18	WG-160900764-20160414-JK21
Water Type			Treated	Raw	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)
Treatment Type			Softener / UV	Softener	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4H5247	B4I8196	B4L3740	B4L3740	B571211	B5K5099	B674120
Laboratory Sample ID			XR1306	XX8287	YK9098	YK9162	ADJ098	BCZ441	CEO964
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	19	15	31	-	26	38	38
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	310	350	350	-	310	330	310
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.8	1.7	2.5	-	2.0	1.4	2.7
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	320	350	350	-	310	330	310
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	-	0.068	0.12	<0.050
Anion Sum	meq/L	n/v	9.22	10.2	9.56	-	8.99	9.15	7.81
Cation Sum	meq/L	n/v	9.43	9.99	9.90	-	9.05	9.43	8.17
Chloride	mg/L	250[D]	74	86	67	-	61	64	30
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	-	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.8	1.9	1.9	-	2.3	1.9	1.9
Electrical Conductivity, Lab	µmhos/cm	n/v	870	960	930	-	850	880	720
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**<1.0**	**430[E]**	**<1.0**	-	**2.7[E]**	**400[E]**	**360[E]**
Ion Balance	%	n/v	1.13	1.15	1.73	-	0.350	1.53	2.25
Langelier Index (at 20 C)	none	n/v	-1.82	0.930	-1.64	-	-1.26	0.848	1.11
Langelier Index (at 4 C)	none	n/v	-2.07	0.682	-1.89	-	-1.51	0.600	0.856
Nitrate (as N)	mg/L	10.0$_d$[B]	4.88	4.38	3.89	-	5.80	4.23	5.09
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	4.88	4.46	3.89	-	5.80	4.273	5.09
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	0.074	<0.010	-	<0.010	0.043	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	0.010	-	<0.010	0.011	<0.010
pH	S.U.	6.5-8.5[E]	7.79	7.70	7.89	-	7.83	7.66	7.97
Saturation pH (at 20 C)	none	n/v	9.62	6.78	9.53	-	9.09	6.82	6.87
Saturation pH (at 4 C)	none	n/v	9.87	7.02	9.77	-	9.34	7.06	7.12
Sulfate	mg/L	500$_h$[D]	22	25	20	-	27	22	18
Total Dissolved Solids	mg/L	500[D]	478	**588[D]**	**522[D]**	-	478	484	414
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	**560[D]**	-	**520[D]**	500	430
Total Organic Carbon	mg/L	n/v	1.8	1.8	1.8	-	2.3	1.8	1.9
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	<0.2	-	0.3	0.3	<0.2
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	-	0	0	0
Total Coliform Background	cfu/100mL	n/v	0	200	0	-	0	0	100
Total Coliforms	cfu/100mL	0[A]	0	**320[A]**	0	-	0	0	**3[A]**
Metals									
Aluminum	µg/L	100[E]	51	8.4	<5.0	-	8.5	<5.0	<5.0
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	-	<1.0	<1	<1.0
Barium	µg/L	1000[B]	<2.0	66	<2.0	-	<2.0	29	27
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.50
Boron	µg/L	5000[C]	24	36	38	-	29	30	25
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	220	150000	250	-	740	140000	120000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.50
Copper	µg/L	1000[D]	10	22	11	-	52	66	72
Iron	µg/L	300[D]	<100	<100	<100	-	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	1.0	<0.50	-	0.60	<0.5	<0.50
Magnesium	µg/L	n/v	<50	15000	<50	-	200	15000	13000
Manganese	µg/L	50[D]	3.0	3.7	<2.0	-	<2.0	7.6	9.2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	<0.10
Molybdenum	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.50
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	2.4	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	<100
Potassium	µg/L	n/v	220	2700	650	-	3400	2500	2300
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	-	<2.0	<2	<2.0
Silicon	µg/L	n/v	6200	6500	6600	-	5200	6400	5800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.10	<0.1	<0.10
Sodium	µg/L	0000$_g$[D] 20000	**220000[DF]**	**30000[F]**	**230000[DF]**	-	**200000[F]**	**32000[F]**	**22000[F]**
Strontium	µg/L	n/v	<1.0	310	<1.0	-	1.3	190	230
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	-	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0
Uranium	µg/L	20[B]	0.27	0.57	0.45	-	0.39	0.37	0.34
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.5	<0.50
Zinc	µg/L	5000[D]	<5.0	17	<5.0	-	11	49	81
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1	<1.0
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	-
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	-
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.40	-
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	-
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	-	<0.20	<0.40	-
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	-	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	YES

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Table 8
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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden						
Sample Date			22-Sep-14	8-Oct-14	12-Nov-14	12-Nov-14	21-Apr-15	7-Oct-15	14-Apr-16
Sample ID			WG-160900764-20140922-JK01	WG-160900764-20141008-AD16	WG-160900764-20141112-AD15	WG-160900764-20141112-AD15 FILTERED	WG-160900764-20150421-JK16	WG-160900764-20151007-JK18	WG-160900764-20160414-JK21
Water Type			Treated	Raw	Treated	Treated	Treated	Treated	Treated
Sample Tap			Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)	Inside (Garage)
Treatment Type			Softener / UV	Softener	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter	Softener / UV / Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4H5247	B4I8196	B4L3740	B4L3740	B571211	B5K5099	B674120
Laboratory Sample ID			XR1306	XX8287	YK9098	YK9162	ADJ098	BCZ441	CEO964
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.3	0.2	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	-	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	1.6	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	-	35	2.5	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	0.79	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<0.20	-	37	<0.50	<0.20
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden				Shallow Overburden		
Sample Date			16-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16	21-Apr-15	6-Oct-15	12-Apr-16
Sample ID			WG-160900764-20150416-JK11	WG-160900764-20151005-JK3	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14	WG-160900764-20150421-JK15	WG-160900764-2015106-JK13	WG-160900764-20160412-JK13
Water Type			Raw	Raw	Raw	Raw	Treated	Treated	Treated
Sample Tap			Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Side house)	Outside (Side house)	Outside (Side house)
Treatment Type			None	None	None	None	Softener/UV	Softener/UV	Softener/UV
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B567840	B5K2703	B671945	B6N8820	B571211	B5K3284	B673025
Laboratory Sample ID			ACT456	BCM868	CEE706	DJO304	ADJ097	BCP441	CEK238
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	29	57	26	52	25	35	27
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	390	370	360	350	290	310	300
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.9	<1.0	1.4	1.8	1.9	1.3	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	390	370	360	350	290	310	300
Ammonia (as N)	mg/L	n/v	<0.05	<0.050	<0.050	<0.050	0.086	<0.050	<0.050
Anion Sum	meq/L	n/v	9.22	8.55	8.80	8.43	8.71	7.15	9.91
Cation Sum	meq/L	n/v	9.19	8.67	8.85	8.20	8.64	7.42	10.4
Chloride	mg/L	250[D]	19	11	29	14	88	11	130
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<1	<2	<2	<2
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.2	1.3	1.4	1.1	1.3	1.0	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	850	790	820	770	820	650	970
Fluoride	mg/L	1.5$_b$[B]	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**6.1[E]**	**410[E]**	**7.4[E]**	**340[E]**	**330[E]**	**350[E]**	**370[E]**
Ion Balance	%	n/v	0.150	0.690	0.290	1.35	0.390	1.80	2.30
Langelier Index (at 20 C)	none	n/v	-0.686	0.542	-0.903	0.791	0.910	0.774	0.965
Langelier Index (at 4 C)	none	n/v	-0.934	0.294	-1.15	0.542	0.662	0.526	0.718
Nitrate (as N)	mg/L	10.0$_d$[B]	5.57	6.59	6.07	6.11	0.94	3.29	0.24
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	5.57	6.59	6.07	-	0.94	3.29	0.24
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.90	7.34	7.63	7.74	7.83	7.66	7.83
Saturation pH (at 20 C)	none	n/v	8.58	6.80	8.54	6.95	6.92	6.89	6.87
Saturation pH (at 4 C)	none	n/v	8.83	7.05	8.78	7.20	7.17	7.14	7.11
Sulfate	mg/L	500$_h$[D]	19	20	19	24	14	22	14
Total Dissolved Solids	mg/L	500[D]	488	474	**508[D]**	458	464	380	**548[D]**
Total Dissolved Solids (Calculated)	mg/L	500[D]	**530[D]**	460	**510[D]**	450	470	390	**540[D]**
Total Organic Carbon	mg/L	n/v	1.1	1.3	1.2	1.8	1.3	1.0	1.4
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	<0.2	<0.2	<0.2	0.8	<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	n/v	0	380	5	29	41	460	92
Total Coliforms	cfu/100mL	0[A]	0	**7[A]**	**1[A]**	**1[A]**	**1[A]**	**21[A]**	**5[A]**
Metals									
Aluminum	µg/L	100[E]	7.7	13	6.3	11	<5.0	<5.0	<5.0
Antimony	µg/L	6[C]	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Arsenic	µg/L	25[C]	<1	<1	<1.0	<1	<1.0	<1	<1.0
Barium	µg/L	1000[B]	<2	67	<2.0	58	29	47	32
Beryllium	µg/L	n/v	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Boron	µg/L	5000[C]	16	<10	31	<10	12	<10	11
Cadmium	µg/L	5[B]	<0.1	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10
Calcium	µg/L	n/v	1900	120000	2400	91000	120000	120000	140000
Chromium	µg/L	50[B]	<5	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Chromium (Hexavalent)	µg/L	n/v	<5	0.83	0.85	0.75	<0.50	0.71	<0.50
Cobalt	µg/L	n/v	<0.5	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Copper	µg/L	1000[D]	65	20	20	12	3.3	5.1	7.3
Iron	µg/L	300[D]	<100	<100	<100	<100	<100	<100	<100
Lead	µg/L	10$_c$[B]	<0.5	<0.5	<0.50	0.59	<0.50	<0.5	<0.50
Magnesium	µg/L	n/v	290	24000	340	28000	8300	16000	7600
Manganese	µg/L	50[D]	<2	<2	<2.0	<2	<2.0	<2	<2.0
Mercury	µg/L	1[B]	<0.1	<0.1	<0.10	-	<0.1	<0.1	<0.10
Molybdenum	µg/L	n/v	0.73	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50
Nickel	µg/L	n/v	<1	<1	<1.0	<1	<1.0	<1	<1.0
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	540	1900	<200	4500	330	750	250
Selenium	µg/L	10[B]	<2	<2	<2.0	<2	<2.0	<2	<2.0
Silicon	µg/L	n/v	8300	9700	8600	9100	3900	6800	3800
Silver	µg/L	n/v	0.22	<0.1	<0.10	<0.1	<0.10	<0.1	<0.10
Sodium	µg/L	0000$_g$[D] 20000	**210000[DF]**	11000	**200000[F]**	**28000[F]**	**47000[F]**	8200	**69000[F]**
Strontium	µg/L	n/v	4.2	270	6	190	230	210	260
Thallium	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05	<0.05
Titanium	µg/L	n/v	<5	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Uranium	µg/L	20[B]	0.56	0.65	0.58	1.7	0.27	0.38	0.29
Vanadium	µg/L	n/v	0.71	<0.5	0.66	<0.5	<0.50	<0.5	<0.50
Zinc	µg/L	5000[D]	19	6.7	<5.0	9.8	<5.0	10	6.8
Zirconium	µg/L	n/v	<1	<1	<1.0	<1	<1.0	<1	<1.0
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.2	<0.20	<0.40	<0.20	<0.20	<0.20	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.2	<0.20	<0.40	<0.20	<0.20	<0.20	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Shallow Overburden				Shallow Overburden		
Sample Date			16-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16	21-Apr-15	6-Oct-15	12-Apr-16
Sample ID			WG-160900764-20150416-JK11	WG-160900764-20151005-JK3	WG-160900764-20160411-JK1	WG-160900764-20161102-JK14	WG-160900764-20150421-JK15	WG-160900764-2015106-JK13	WG-160900764-20160412-JK13
Water Type			Raw	Raw	Raw	Raw	Treated	Treated	Treated
Sample Tap			Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Front house)	Outside (Side house)	Outside (Side house)	Outside (Side house)
Treatment Type			None	None	None	None	Softener/UV	Softener/UV	Softener/UV
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B567840	B5K2703	B671945	B6N8820	B571211	B5K3284	B673025
Laboratory Sample ID			ACT456	BCM868	CEE706	DJO304	ADJ097	BCP441	CEK238
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<5	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	22	0.86	0.25	1.4	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.2	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	28	<0.50	0.25	1.4	<1.0	<0.20	<0.20
Vinyl chloride	µg/L	1[B]	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	18-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B567144	B5K2703	B676726	B6N8820
Laboratory Sample ID			WY7359	XX8291	ACQ220	BCM870	CFC037	DJO309
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	<10	<10	<10	<10	12	10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	180	190	200	180	180	180
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	1.7	<1	<1.0	1.9	2.0
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	180	190	200	180	190	190
Ammonia (as N)	mg/L	n/v	0.11	0.11	0.41	0.12	0.079	0.093
Anion Sum	meq/L	n/v	3.96	4.02	4.29	3.97	4.01	4.00
Cation Sum	meq/L	n/v	4.23	3.97	3.91	4.18	4.09	3.94
Chloride	mg/L	250[D]	2	2	2	1.9	1.9	1.8
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.69	0.75	0.58	0.72	0.84	0.85
Electrical Conductivity, Lab	µmhos/cm	n/v	370	370	370	360	360	370
Fluoride	mg/L	1.5$_b$[B]	0.15	0.14	0.16	0.15	0.16	0.16
Hardness (as CaCO3)	mg/L	80-100[E]	**190[E]**	**180[E]**	**180[E]**	**190[E]**	**190[E]**	**180[E]**
Ion Balance	%	n/v	3.25	0.650	4.55	2.58	1.05	0.720
Langelier Index (at 20 C)	none	n/v	0.652	0.537	0.259	0.317	0.595	0.590
Langelier Index (at 4 C)	none	n/v	0.403	0.287	0.00800	0.0670	0.345	0.340
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.01	<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
pH	S.U.	6.5-8.5[E]	8.07	7.99	7.68	7.75	8.03	8.05
Saturation pH (at 20 C)	none	n/v	7.42	7.45	7.43	7.43	7.43	7.46
Saturation pH (at 4 C)	none	n/v	7.66	7.70	7.68	7.68	7.68	7.71
Sulfate	mg/L	500$_n$[D]	11	10	12	11	11	11
Total Dissolved Solids	mg/L	500[D]	224	212	210	216	204	222
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	230	220	220	220
Total Organic Carbon	mg/L	n/v	0.85	0.79	0.77	0.69	0.76	1.1
Total Suspended Solids	mg/L	n/v	72	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	**31[D]**	**11[D]**	4.0	**8.1[D]**	3.5	**8.3[D]**
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	0	4	5
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	**1[A]**
Metals								
Aluminum	µg/L	100[E]	23	18	<5	5.2	<5	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1	<1
Barium	µg/L	1000[B]	170	180	180	180	180	170
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	5000[C]	21	19	20	19	23	18
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1
Calcium	µg/L	n/v	52000	47000	46000	50000	48000	46000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Copper	µg/L	1000[D]	1.9	<1.0	17	<1	5.4	3.3
Iron	µg/L	300[D]	<100	**1200[D]**	**880[D]**	**1600[D]**	**790[D]**	**1200[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Magnesium	µg/L	n/v	16000	16000	15000	16000	16000	16000
Manganese	µg/L	50[D]	21	18	15	24	16	18
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1
Molybdenum	µg/L	n/v	0.71	0.79	0.8	0.7	0.75	0.82
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	<1	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1100	1000	1000	1100	1000	1100
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	<2	<2
Silicon	µg/L	n/v	12000	12000	11000	12000	12000	11000
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1
Sodium	µg/L	0000$_g$[D] 20000	7100	6300	6400	6700	7400	6700
Strontium	µg/L	n/v	260	250	250	260	250	250
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Zinc	µg/L	5000[D]	<5.0	<5.0	5.6	<5.0	<5	7
Zirconium	µg/L	n/v	4.1	<1.0	<1	<1	-	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			31-Jul-14	8-Oct-14	15-Apr-15	5-Oct-15	18-Apr-16	3-Nov-16
Sample ID			WG-160900764-20140731-JK5	WG-160900764-20141008-AD20	WG-160900764-20150415-JK2	WG-160900764-20151005-JK5	WG-160900764-20160418-JK23	WG-160900764-20161103-JK18
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)	Outside (Driveway)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I8196	B567144	B5K2703	B676726	B6N8820
Laboratory Sample ID			WY7359	XX8291	ACQ220	BCM870	CFC037	DJO309
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<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
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.5	<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
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<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
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<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
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<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
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<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
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.2	<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
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<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
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	<1.0	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit								Thorncliffe Formatio
Sample Date			31-Jul-14	6-Oct-14	12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15
Sample ID			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
Water Type			Treated	Treated	Treated	Treated	Treated	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L3740	B4L3740	B523926	B532599
Laboratory Sample ID			WY7360	XW7255	YK9094	YK9158	ZM1389	ZQ1897
Filtered	Units	ODWS	Lab Filtered Metals	Lab Filtered Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	<10	<10	<10	-	-	-
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	140	150	140	-	-	-
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.9	2.1	2.0	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	140	150	140	-	140	140
Ammonia (as N)	mg/L	n/v	0.25	0.29	0.35	-	-	-
Anion Sum	meq/L	n/v	3.13	3.50	3.15	-	-	-
Cation Sum	meq/L	n/v	3.03	3.39	3.16	-	-	-
Chloride	mg/L	250[D]	2	3	2	-	2	2
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.69	0.74	0.86	-	-	-
Electrical Conductivity, Lab	µmhos/cm	n/v	290	320	300	-	300	300
Fluoride	mg/L	1.5$_b$[B]	0.21	0.20	0.22	-	-	-
Hardness (as CaCO3)	mg/L	80-100[E]	**120[E]**	**140[E]**	**120[E]**	-	-	-
Ion Balance	%	n/v	1.56	1.65	0.0300	-	-	-
Langelier Index (at 20 C)	none	n/v	0.280	0.427	0.299	-	-	-
Langelier Index (at 4 C)	none	n/v	0.0300	0.177	0.0490	-	-	-
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	-	-	-
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.010	<0.010	-	-	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	-	-	-
Orthophosphate(as P)	mg/L	n/v	0.012	0.014	0.012	-	0.015	0.015
pH	S.U.	6.5-8.5[E]	8.15	8.18	8.17	-	8.10	8.14
Saturation pH (at 20 C)	none	n/v	7.87	7.75	7.87	-	-	-
Saturation pH (at 4 C)	none	n/v	8.12	8.00	8.12	-	-	-
Sulfate	mg/L	500$_h$[D]	10	18	11	-	13	13
Total Dissolved Solids	mg/L	500[D]	162	144	156	-	-	-
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	170	-	-	-
Total Organic Carbon	mg/L	n/v	0.73	0.67	0.82	-	-	-
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	1.2	1.3	1.1	-	**5.6[D]**	1.2
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	-	-	-
Total Coliform Background	cfu/100mL	n/v	-	0	0	-	-	-
Total Coliforms	cfu/100mL	0[A]	-	0	0	-	-	-
Metals								
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	-	-	-
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	-	-
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	-	-	-
Barium	µg/L	1000[B]	95	120	94	-	-	-
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Boron	µg/L	5000[C]	48	36	43	-	-	-
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	-	-	-
Calcium	µg/L	n/v	22000	27000	22000	-	-	-
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	-	-
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Copper	µg/L	1000[D]	1.1	<1.0	<1.0	-	-	-
Iron	µg/L	300[D]	<100	300	290	-	-	-
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	-	-	-
Magnesium	µg/L	n/v	15000	17000	17000	-	-	-
Manganese	µg/L	50[D]	7.1	8.0	8.4	-	-	-
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	-	-
Molybdenum	µg/L	n/v	0.72	0.81	1.1	-	-	-
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	-	-	-
Phosphorus	µg/L	n/v	<100	<100	<100	-	-	-
Potassium	µg/L	n/v	520	540	510	-	-	-
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	-	-	-
Silicon	µg/L	n/v	8600	8000	7800	-	-	-
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	-	-
Sodium	µg/L	0000$_g$[D] 20000	14000	14000	14000	-	-	-
Strontium	µg/L	n/v	330	380	350	-	-	-
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	-	-	-
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	-	-
Uranium	µg/L	20[B]	<0.10	<0.10	<0.10	-	-	-
Vanadium	µg/L	n/v	<0.50	<0.50	0.88	-	-	-
Zinc	µg/L	5000[D]	<5.0	<5.0	<5.0	-	-	-
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	-	-
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	-	-
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	-	-	-
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	-	-	-
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	-	-
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	-	-	-
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	-	-	-
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	-	-
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	-	-
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	-	-	-
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	-	-	-
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	-	-

See notes on last page

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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit								Thorncliffe Formatio
Sample Date			31-Jul-14	6-Oct-14	12-Nov-14	12-Nov-14	10-Feb-15	24-Feb-15
Sample ID			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
Water Type			Treated	Treated	Treated	Treated	Treated	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Sediment Filter	Carbon Filter	Sediment Filter	Sediment Filter	Sediment Filter	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I6091	B4L3740	B4L3740	B523926	B532599
Laboratory Sample ID			WY7360	XW7255	YK9094	YK9158	ZM1389	ZQ1897
Filtered	Units	ODWS	Lab Filtered Metals	Lab Filtered Metals	Total Metals	Total Metals Lab Filtered SVOC	Total Metals	Total Metals
Semi - Volatile Organic Compounds								
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050
Benzo(a)pyrene	µg/L	0.01[B]	**0.03[B]**	<0.01	<0.01	<0.01	<0.010	<0.010
Benzo(b/j)fluoranthene	µg/L	n/v	0.10	<0.05	<0.05	<0.05	<0.050	<0.050
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050
Benzo(k)fluoranthene	µg/L	n/v	0.06	<0.05	<0.05	<0.05	<0.050	<0.050
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	-
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	-
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	-
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	-	-
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	-	-
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	-
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.050	<0.050
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	-
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	-	-
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.3	0.3	-	-
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	-
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	-
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	-	-
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	-	-
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	-	-
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.050	<0.050
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.071	<0.071
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.050	<0.050
Pentachlorophenol	µg/L	60[B] 30_f[D]	<0.1	<0.1	<0.1	<0.1	-	-
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.030	<0.030
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	-	-
Pyrene	µg/L	n/v	0.06	<0.05	<0.05	<0.05	<0.050	<0.050
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	-	-
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	-	-
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	-	-
Volatile Organic Compounds								
Acetone	µg/L	n/v	<10	<10	<10	-	-	-
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	-	-
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	-	-	-
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	-	-	-
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	-	-	-
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	-	-
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	-	-
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	-	-
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	-	-
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	-	-
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	-	-
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	-	-
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	-	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	-	-
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	-	-
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	-	-
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	<0.20	-	-	-
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	-	-

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit							
Sample Date			10-Mar-15	8-Apr-15	6-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-2015106-JK15	WG-160900764-20160411-JK4	WG-160900764-20161102-JK12
Water Type			Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B541661	B561586	B5K3284	B671945	B6N8820
Laboratory Sample ID			ZU7235	ABP511	BCP443	CEE709	DJO302
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry							
Acidity	mg/L	n/v	-	<10	<10	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	-	140	140	150	140
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	-	1.5	<1.0	<1.0	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	140	140	140	150	150
Ammonia (as N)	mg/L	n/v	-	0.24	0.27	0.22	0.24
Anion Sum	meq/L	n/v	-	3.19	3.21	3.27	3.26
Cation Sum	meq/L	n/v	-	3.12	3.33	3.20	3.13
Chloride	mg/L	250[D]	2	2	2.5	2.0	2.4
Cyanide (Free)	µg/L	200[B]	-	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	-	0.63	0.74	0.75	0.80
Electrical Conductivity, Lab	µmhos/cm	n/v	290	300	290	280	300
Fluoride	mg/L	1.5$_b$[B]	-	0.24	0.21	0.23	0.22
Hardness (as CaCO3)	mg/L	80-100[E]	-	**120[E]**	**130[E]**	**120[E]**	**120[E]**
Ion Balance	%	n/v	-	1.13	1.77	1.13	1.93
Langelier Index (at 20 C)	none	n/v	-	0.193	0.00400	-0.128	0.269
Langelier Index (at 4 C)	none	n/v	-	-0.0580	-0.246	-0.378	0.0190
Nitrate (as N)	mg/L	10.0$_d$[B]	-	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	-	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	-	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	0.015	0.016	0.011	0.012	0.014
pH	S.U.	6.5-8.5[E]	8.11	8.05	7.85	7.73	8.13
Saturation pH (at 20 C)	none	n/v	-	7.86	7.84	7.86	7.86
Saturation pH (at 4 C)	none	n/v	-	8.11	8.09	8.11	8.11
Sulfate	mg/L	500$_n$[D]	12	12	12	10	12
Total Dissolved Solids	mg/L	500[D]	-	140	154	190	166
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	170	180	180	170
Total Organic Carbon	mg/L	n/v	-	0.58	0.65	0.87	0.63
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	1.2	1.6	1.7	**11[D]**	1.2
Microbiological Analysis							
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	31	5	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0
Metals							
Aluminum	µg/L	100[E]	-	<5	<5.0	8.1	<5
Antimony	µg/L	6[C]	-	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	-	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	-	100	96	100	100
Beryllium	µg/L	n/v	-	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	-	45	36	48	44
Cadmium	µg/L	5[B]	-	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	-	22000	23000	22000	23000
Chromium	µg/L	50[B]	-	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	-	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	-	1.9	3	10	<1
Iron	µg/L	300[D]	-	**550[D]**	**440[D]**	**1500[D]**	**400[D]**
Lead	µg/L	10$_c$[B]	-	<0.5	<0.5	3.5	<0.5
Magnesium	µg/L	n/v	-	16000	18000	17000	16000
Manganese	µg/L	50[D]	-	8.3	9	15	9.3
Mercury	µg/L	1[B]	-	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	-	0.7	0.72	0.52	0.94
Nickel	µg/L	n/v	-	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	-	<100	<100	<100	<100
Potassium	µg/L	n/v	-	540	560	430	600
Selenium	µg/L	10[B]	-	<2	<2	<2.0	<2
Silicon	µg/L	n/v	-	7700	8300	7900	7800
Silver	µg/L	n/v	-	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	-	14000	15000	15000	14000
Strontium	µg/L	n/v	-	360	360	380	370
Thallium	µg/L	n/v	-	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	-	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	-	<0.1	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	-	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	-	<5	6.4	130	<5
Zirconium	µg/L	n/v	-	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons							
Benzene	µg/L	1[B]	-	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	-	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	-	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	-	<0.20	<0.20	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	-	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	-	<0.20	<0.20	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	-	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	-	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	-	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	-	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	-	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	-	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit							
Sample Date			10-Mar-15	8-Apr-15	6-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20150310-AD01	WG-160900764-20150408-AD04	WG-160900764-2015106-JK15	WG-160900764-20160411-JK4	WG-160900764-20161102-JK12
Water Type			Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B541661	B561586	B5K3284	B671945	B6N8820
Laboratory Sample ID			ZU7235	ABP511	BCP443	CEE709	DJO302
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds							
Acenaphthene	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.010	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.050	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	-	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	-	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	-	<1	<1	1	<1
Chloroaniline, 4-	µg/L	n/v	-	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	-	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.050	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	-	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	-	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	-	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	-	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	-	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	-	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	-	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	-	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.050	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.071	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.050	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	-	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.030	<0.1	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	-	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.050	<0.05	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	-	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	-	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	-	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds							
Acetone	µg/L	n/v	-	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	-	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	-	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	-	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	-	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	-	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	-	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	-	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	-	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation							
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	11-Nov-14	15-Apr-15	7-Oct-15	11-Apr-16	2-Nov-16
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-160900764-20160411-JK5	WG-160900764-20161102-JK11
Water Type			Treated	Raw	Treated	Raw	Treated	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	None	Softener	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B4L2726	B567144	B5K5099	B671945	B6N8820
Laboratory Sample ID			WY7364	XX2940	YK4127	YK4128	ACQ224	BCZ442	CEE710	DJO301
Filtered	Units	ODWS	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	<10	13	<10	<10	16	15
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	200	200	200	200	200	200	210	200
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	3.5	2.2	2.9	2.1	2.3	1.4	1.2	1.9
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	200	210	200	200	200	200	210	210
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	0.052	0.11	<0.05	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	5.41	5.71	5.58	5.80	5.37	5.47	5.67	5.64
Cation Sum	meq/L	n/v	5.18	5.74	5.89	5.86	5.08	5.75	5.74	5.59
Chloride	mg/L	250[D]	12	12	13	13	12	13	13	12
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.60	0.65	0.62	0.63	0.48	0.63	0.61	0.77
Electrical Conductivity, Lab	µmhos/cm	n/v	560	530	560	530	530	520	530	530
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**<1.0**	**270[E]**	**<1.0**	**280[E]**	**<1**	**260[E]**	**270[E]**	**260[E]**
Ion Balance	%	n/v	2.23	0.250	2.71	0.510	2.81	2.50	0.670	0.480
Langelier Index (at 20 C)	none	n/v	<0	0.835	<0	0.807	NC	0.626	0.551	0.739
Langelier Index (at 4 C)	none	n/v	<0	0.586	<0	0.558	NC	0.377	0.302	0.490
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.010	<0.010	<0.1	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.28	8.07	8.20	8.05	8.09	7.88	7.77	7.99
Saturation pH (at 20 C)	none	n/v	<0	7.23	<0	7.24	NC	7.25	7.22	7.25
Saturation pH (at 4 C)	none	n/v	<0	7.48	<0	7.49	NC	7.50	7.47	7.50
Sulfate	mg/L	500$_n$[D]	52	59	58	69	48	55	54	56
Total Dissolved Solids	mg/L	500[D]	320	332	346	336	308	298	302	322
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	340	320	310	300	310	300
Total Organic Carbon	mg/L	n/v	0.46	0.65	0.58	0.59	0.57	0.61	0.69	0.54
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	0.2	**15[D]**	<0.2	0.8	2.7	**32[D]**	**21[D]**	**19[D]**
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	1	0	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0	0	0
Metals										
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	<2.0	85	<2.0	85	<2	82	90	83
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	<10	<10	10	<10	<10	<10	12	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	<200	76000	<200	77000	<200	74000	76000	73000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	11	8.7	3.6	<1.0	160	2.8	19	<1
Iron	µg/L	300[D]	<100	**2200[D]**	<100	**1800[D]**	150	**2600[D]**	**2200[D]**	**1800[D]**
Lead	µg/L	10$_c$[B]	<0.50	0.53	<0.50	<0.50	<0.5	<0.5	0.99	<0.5
Magnesium	µg/L	n/v	<50	20000	<50	21000	<50	19000	20000	20000
Manganese	µg/L	50[D]	<2.0	35	<2.0	43	<2	**63[D]**	44	29
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	1.3	1.1	0.99	1.1	0.99	1	1.3	1
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	2.8	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	2400	1100	<200	1200	<200	1100	1100	1200
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	4800	5300	4900	5000	3800	4700	5000	4800
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	**120000[F]**	4700	**140000[F]**	5000	**120000[F]**	7900	5000	4800
Strontium	µg/L	n/v	<1.0	240	<1.0	230	<1	220	250	230
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	24	7.7	7.7	<5.0	<5	6.6	13	6.3
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons										
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.40	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.40	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation							
Sample Date			1-Aug-14	7-Oct-14	11-Nov-14	11-Nov-14	15-Apr-15	7-Oct-15	11-Apr-16	2-Nov-16
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-160900764-20160411-JK5	WG-160900764-20161102-JK11
Water Type			Treated	Raw	Treated	Raw	Treated	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Inside (Basement Pressure Tank)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	None	Softener	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D8040	B4I7101	B4L2726	B4L2726	B567144	B5K5099	B671945	B6N8820
Laboratory Sample ID			WY7364	XX2940	YK4127	YK4128	ACQ224	BCZ442	CEE710	DJO301
Filtered	Units	ODWS	Lab Filtered 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[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<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-Chloroethyl)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[B] 0.3$_f$[D]	<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[B] 30$_f$[D]	<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	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	0.21	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<0.20	<0.20	<1	<0.50	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation								
Sample Date			5-Aug-14	6-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	28-Oct-15	11-Apr-16	1-Nov-16
Sample ID			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	WG-160900764-20160411-JK6	WG-160900764-20161101-JK3
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L3740	B4L3740	B567144	B5K2703	B5M1891	B671945	B6N7539
Laboratory Sample ID			WZ3802	XW7261	YK9097	YK9161	ACQ221	BCM867	BGI095	CEE711	DJI429
Filtered	Units	ODWS	Lab Filtered Metals	Total 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
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	120	120	120	-	130	130	-	130	120
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.4	1.9	1.8	-	<1	<1.0	-	<1.0	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	120	120	130	-	130	130	-	130	120
Ammonia (as N)	mg/L	n/v	0.12	0.11	0.095	-	0.13	0.30	-	0.099	0.11
Anion Sum	meq/L	n/v	3.17	3.25	3.24	-	3.30	3.35	-	3.43	3.30
Cation Sum	meq/L	n/v	3.16	3.10	3.30	-	3.23	3.25	-	3.09	3.16
Chloride	mg/L	250[D]	2	2	2	-	1	1.6	-	1.9	2.7
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	-	<2	<2	-	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.48	0.70	0.62	-	0.48	0.65	-	0.64	0.66
Electrical Conductivity, Lab	µmhos/cm	n/v	300	310	310	-	300	300	-	300	310
Fluoride	mg/L	1.5_b[B]	0.35	0.36	0.37	-	0.39	0.38	-	0.39	0.39
Hardness (as CaCO3)	mg/L	80-100[E]	87	88	92	-	89	89	-	87	88
Ion Balance	%	n/v	0.170	2.30	0.920	-	1.06	1.54	-	5.18	2.23
Langelier Index (at 20 C)	none	n/v	0.0200	0.157	0.154	-	-0.514	-0.374	-	-0.347	0.126
Langelier Index (at 4 C)	none	n/v	-0.230	-0.0930	-0.0960	-	-0.764	-0.624	-	-0.597	-0.124
Nitrate (as N)	mg/L	10.0_d[B]	<0.10	<0.10	<0.10	-	<0.1	<0.10	-	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0_d[B]	<0.10	<0.010	<0.010	-	<0.1	<0.10	-	<0.10	<0.10
Nitrite (as N)	mg/L	1.0_d[B]	<0.010	<0.010	<0.010	-	<0.01	<0.010	-	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	-	<0.01	<0.010	-	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.08	8.21	8.18	-	7.54	7.68	-	7.66	8.19
Saturation pH (at 20 C)	none	n/v	8.06	8.05	8.03	-	8.05	8.05	-	8.01	8.07
Saturation pH (at 4 C)	none	n/v	8.31	8.30	8.28	-	8.30	8.30	-	8.26	8.32
Sulfate	mg/L	500_h[D]	32	33	32	-	33	34	-	34	34
Total Dissolved Solids	mg/L	500[D]	166	160	160	-	166	176	-	176	182
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	190	-	190	190	-	190	190
Total Organic Carbon	mg/L	n/v	0.55	0.61	1.0	-	0.62	0.64	-	0.69	0.55
Total Suspended Solids	mg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10
Turbidity, Lab	ntu	5_j[D,E]	1.5	1.0	0.5	-	<0.2	<0.2	-	0.3	0.2
Microbiological Analysis											
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	-	0	0	-	0	0
Total Coliform Background	cfu/100mL	n/v	-	0	0	-	0	0	-	0	0
Total Coliforms	cfu/100mL	0[A]	-	0	0	-	0	0	-	0	0
Metals											
Aluminum	µg/L	100[E]	<5.0	5.2	<5.0	-	<5	6.9	-	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5
Arsenic	µg/L	25[C]	2.8	2.9	2.9	-	3.1	2.7	-	2.7	2.7
Barium	µg/L	1000[B]	34	34	33	-	33	32	-	35	33
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5
Boron	µg/L	5000[C]	78	70	76	-	74	75	-	76	66
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	-	<0.1	<0.1	-	<0.10	<0.1
Calcium	µg/L	n/v	17000	17000	18000	-	16000	17000	-	17000	16000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5
Copper	µg/L	1000[D]	3.0	<1.0	<1.0	-	<1	13	-	<1.0	<1
Iron	µg/L	300[D]	<100	<100	140	-	<100	<100	-	<100	<100
Lead	µg/L	10_c[B]	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5
Magnesium	µg/L	n/v	11000	11000	12000	-	12000	12000	-	11000	11000
Manganese	µg/L	50[D]	9.6	9.1	11	-	9.4	12	-	9.1	7.5
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	-	<0.1	<0.1	-	<0.10	<0.1
Molybdenum	µg/L	n/v	5.2	5.1	5.2	-	5.2	5.7	-	5.4	5.2
Nickel	µg/L	n/v	1.6	<1.0	<1.0	-	<1	<1	-	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	-	<100	<100	-	<100	<100
Potassium	µg/L	n/v	870	800	800	-	850	820	-	710	850
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	-	<2	<2	-	<2.0	<2
Silicon	µg/L	n/v	6700	6700	6300	-	5700	6600	-	6200	6000
Silver	µg/L	n/v	<0.10	<0.10	<0.10	-	<0.1	<0.1	-	<0.10	<0.1
Sodium	µg/L	$_{0000}_g$[D] 20000	**32000[F]**	**30000[F]**	**33000[F]**	-	**33000[F]**	**33000[F]**	-	**30000[F]**	**31000[F]**
Strontium	µg/L	n/v	360	380	370	-	390	360	-	390	350
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	-	<0.05	<0.05	-	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5
Uranium	µg/L	20[B]	0.41	0.44	0.48	-	0.48	0.33	-	0.45	0.48
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.5	-	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	<5.0	<5.0	-	<5	14	-	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1	-	<1.0	<1
BTEX and Petroleum Hydrocarbons											
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Xylene, m & p-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.40	<0.40
Xylene, o-	µg/L	300_{s1}[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	-	<25	<25	-	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	-	<25	<25	-	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	-	<100	<100	-	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	990	<200	<200	-	<200	440	-	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	460	<200	<200	-	<200	<200	-	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	-	YES	YES	-	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation								
Sample Date			5-Aug-14	6-Oct-14	12-Nov-14	12-Nov-14	15-Apr-15	5-Oct-15	28-Oct-15	11-Apr-16	1-Nov-16
Sample ID			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	WG-160900764-20160411-JK6	WG-160900764-20161101-JK3
Water Type			Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated	Treated
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener	Softener
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I6091	B4L3740	B4L3740	B567144	B5K2703	B5M1891	B671945	B6N7539
Laboratory Sample ID			WZ3802	XW7261	YK9097	YK9161	ACQ221	BCM867	BGI095	CEE711	DJI429
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals Lab Filtered SVOC	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	<0.6	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	0.01	***<0.03***	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<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	<0.2	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<3	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<3	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	0.3	0.3	<0.1	<0.3	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<6	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.8	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.8	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<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	<0.3	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.85	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.6	<0.2	<0.2	<0.2
Volatile Organic Compounds											
Acetone	µg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	-	<0.3	<0.30	-	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	-	<0.4	<0.40	-	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	-	<1	<1.0	-	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	-	<10	<10	-	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	-	<5	<5.0	-	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	-	<2	<2.0	-	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	-	<0.5	<0.50	-	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<0.20	-	<1	<0.20	-	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	-	<0.2	<0.20	-	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation						
Sample Date			5-Aug-14	7-Oct-14	11-Nov-14	15-Apr-15	7-Oct-15	13-Apr-16	31-Oct-16
Sample ID			WG-160900764-20140805-JK15	WG-160900764-20141007-AD14	WG-160900764-20141111-AD04	WG-160900764-20150415-JK4	WG-160900764-20151007-JK21	WG-160900764-20160413-JK17	WG-160900764-2016111031-JK1
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener / UV	Softener / UV	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I7101	B4L2726	B567144	B5K5099	B674120	B6N7539
Laboratory Sample ID			WZ3804	XX2941	YK4124	ACQ222	BCZ444	CEO960	DJI427
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry									
Acidity	mg/L	n/v	12	<10	16	13	12	27	12
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	220	210	220	230	210	360	220
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.0	2.1	2.2	<1	1.3	2.5	2.4
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	220	210	220	230	210	360	220
Ammonia (as N)	mg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	6.15	5.86	6.18	6.37	5.98	7.56	6.04
Cation Sum	meq/L	n/v	6.13	5.62	6.39	5.79	6.20	7.77	5.87
Chloride	mg/L	250[D]	16	13	16	16	15	2.1	15
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.46	0.69	0.65	0.58	0.71	1.3	0.74
Electrical Conductivity, Lab	µmhos/cm	n/v	580	550	590	580	570	680	600
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**300[E]**	**260[E]**	**300[E]**	**260[E]**	**290[E]**	**2.0[E]**	***<1.0***
Ion Balance	%	n/v	0.180	2.09	1.70	4.78	1.81	1.42	1.49
Langelier Index (at 20 C)	none	n/v	0.848	0.817	0.886	0.481	0.660	-1.27	NC
Langelier Index (at 4 C)	none	n/v	0.599	0.568	0.637	0.232	0.411	-1.52	NC
Nitrate (as N)	mg/L	10.0$_d$[B]	8.93	6.06	9.35	9.62	8.23	0.10	6.59
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	8.93	6.06	9.35	-	8.23	0.1	-
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	7.99	8.03	8.03	7.66	7.82	7.87	8.07
Saturation pH (at 20 C)	none	n/v	7.14	7.21	7.14	7.18	7.16	9.14	NC
Saturation pH (at 4 C)	none	n/v	7.39	7.46	7.39	7.42	7.41	9.39	NC
Sulfate	mg/L	500$_n$[D]	34	37	33	34	34	10	36
Total Dissolved Solids	mg/L	500[D]	340	322	352	334	316	394	416
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	360	350	340	420	360
Total Organic Carbon	mg/L	n/v	0.60	0.68	0.72	0.65	0.64	1.3	0.79
Total Suspended Solids	mg/L	n/v	12	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	1.5	<0.2	0.6	<0.2	0.7	0.3	0.4
Microbiological Analysis									
Escherichia coli (E.Coli)	cfu/100mL	0[A]	-	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	-	620	42	2	16	0	860
Total Coliforms	cfu/100mL	0[A]	-	0	0	0	0	0	0
Metals									
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	52	47	54	47	54	<2.0	<2
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	<10	11	<10	<10	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	90000	76000	89000	79000	86000	550	<200
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	6.4	6.9	6.4	8.1	11	20	14
Iron	µg/L	300[D]	<100	<100	270	<100	**660[D]**	<100	<100
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	17000	17000	18000	16000	18000	150	<50
Manganese	µg/L	50[D]	<2.0	<2.0	4.0	<2	26	<2.0	<2
Mercury	µg/L	1[B]	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	0.51	<0.50	<0.5	<0.5	<0.50	<0.5
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	970	860	920	830	890	<200	<200
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	6900	6600	7500	6000	6700	4700	6100
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	4300	9700	9600	12000	9000	**180000[F]**	**130000[F]**
Strontium	µg/L	n/v	220	210	220	210	220	<1.0	<1
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.77	0.67	0.80	0.79	0.78	0.25	0.8
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	5.7	5.9	6.6	5.9	11	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.40	-	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.2	<0.20	-	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.2	<0.40	-	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES	YES

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Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation						
Sample Date			5-Aug-14	7-Oct-14	11-Nov-14	15-Apr-15	7-Oct-15	13-Apr-16	31-Oct-16
Sample ID			WG-160900764-20140805-JK15	WG-160900764-20141007-AD14	WG-160900764-20141111-AD04	WG-160900764-20150415-JK4	WG-160900764-20151007-JK21	WG-160900764-20160413-JK17	WG-160900764-2016111031-JK1
Water Type			Raw	Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			Softener	Softener / UV	Softener / UV	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4D9335	B4I7101	B4L2726	B567144	B5K5099	B674120	B6N7539
Laboratory Sample ID			WZ3804	XX2941	YK4124	ACQ222	BCZ444	CEO960	DJI427
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
Semi - Volatile Organic Compounds									
Acenaphthene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Acenaphthylene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/L	n/v	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	**0.03[B]**	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Biphenyl, 1,1'- (Biphenyl)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-Chloroethyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Chloroisopropyl)ether	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<1	<1	<1	<1	<1	<1	<1
Chlorophenol, 2- (ortho-Chlorophenol)	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl Phthalate	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethylphenol, 2,4-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<2	<2	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dinitrotoluene, 2,6-	µg/L	n/v	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	µg/L	n/v	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2
Fluorene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methylnaphthalene (Total)	µg/L	n/v	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Methylnaphthalene, 1-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylnaphthalene, 2-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30_t[D]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1
Phenol	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/L	n/v	<0.05	<0.05	<0.05	0.24	<0.05	<0.05	<0.05
Trichlorobenzene, 1,2,4-	µg/L	n/v	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Volatile Organic Compounds									
Acetone	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_t[D]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_t[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_t[D]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	<0.20	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	7-Oct-14	21-Apr-15	7-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140820-HB02	WG-160900764-20141007-AD08	WG-160900764-20150421-JK17	WG-160900764-20151007-JK17	WG-160900764-20160412-JK15	WG-160900764-20161101-JK10
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I7101	B571211	B5K5099	B673025	B6N7539
Laboratory Sample ID			XF4726	XX2935	ADJ099	BCZ440	CEK241	DJI436
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	14	<10	14	15	14	16
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	210	210	210	210	220	210
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.7	2.2	1.8	1.2	1.4	1.5
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	210	210	210	210	220	210
Ammonia (as N)	mg/L	n/v	0.086	<0.050	<0.050	<0.050	<0.050	<0.050
Anion Sum	meq/L	n/v	5.70	5.80	5.70	5.74	5.88	5.81
Cation Sum	meq/L	n/v	5.84	5.75	5.70	6.00	6.12	5.84
Chloride	mg/L	250[D]	13	12	13	13	14	14
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.46	0.79	1.1	0.74	0.71	0.77
Electrical Conductivity, Lab	µmhos/cm	n/v	540	540	530	540	570	550
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	0.11
Hardness (as CaCO3)	mg/L	80-100[E]	**280[E]**	**270[E]**	**270[E]**	**290[E]**	**290[E]**	**280[E]**
Ion Balance	%	n/v	1.24	0.460	0.0500	2.25	1.95	0.220
Langelier Index (at 20 C)	none	n/v	0.931	0.822	0.728	0.598	0.664	0.648
Langelier Index (at 4 C)	none	n/v	0.682	0.573	0.479	0.349	0.415	0.400
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.14	8.03	7.95	7.78	7.85	7.89
Saturation pH (at 20 C)	none	n/v	7.21	7.21	7.22	7.19	7.19	7.24
Saturation pH (at 4 C)	none	n/v	7.46	7.46	7.47	7.44	7.43	7.49
Sulfate	mg/L	500$_h$[D]	53	58	53	54	54	57
Total Dissolved Solids	mg/L	500[D]	324	312	304	290	334	402
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	310	320	320	310
Total Organic Carbon	mg/L	n/v	0.81	0.86	0.67	0.71	0.74	0.71
Total Suspended Solids	mg/L	n/v	30	16	<10	<10	<10	11
Turbidity, Lab	ntu	5$_i$[D,E]	**18[D]**	**18[D]**	**19[D]**	**20[D]**	**18[D]**	**25[D]**
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	92	36	8	15	0	0
Total Coliforms	cfu/100mL	0[A]	**3[A]**	**22[A]**	0	0	0	0
Metals								
Aluminum	µg/L	100[E]	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	0.55	<0.50	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1.0	<1	<1.0	<1
Barium	µg/L	1000[B]	40	45	41	45	44	43
Beryllium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	<10	<10	<10	<10	<10	<10
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	78000	76000	75000	80000	80000	76000
Chromium	µg/L	50[B]	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	<1.0	<1.0	1.5	<1	<1.0	2.3
Iron	µg/L	300[D]	<100	**1800[D]**	**1500[D]**	**1600[D]**	**1800[D]**	**2100[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	21000	21000	21000	21000	22000	21000
Manganese	µg/L	50[D]	24	27	22	26	26	30
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	3.4	2.9	3.2	3	3.3	2.4
Nickel	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	1100	1000	1000	1100	1100	1200
Selenium	µg/L	10[B]	<2.0	<2.0	<2.0	<2	<2.0	<2
Silicon	µg/L	n/v	5800	5700	5500	5600	5700	5300
Silver	µg/L	n/v	<0.10	<0.10	<0.10	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	4300	4000	4300	4400	4500	4500
Strontium	µg/L	n/v	270	270	270	270	280	260
Thallium	µg/L	n/v	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Uranium	µg/L	20[B]	0.76	0.75	0.74	0.76	0.87	0.73
Vanadium	µg/L	n/v	<0.50	<0.50	<0.50	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	<5.0	<5.0	<5.0	<5.0	6.4
Zirconium	µg/L	n/v	<1.0	<1.0	<1.0	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	0.26
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	7-Oct-14	21-Apr-15	7-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140820-HB02	WG-160900764-20141007-AD08	WG-160900764-20150421-JK17	WG-160900764-20151007-JK17	WG-160900764-20160412-JK15	WG-160900764-20161101-JK10
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I7101	B571211	B5K5099	B673025	B6N7539
Laboratory Sample ID			XF4726	XX2935	ADJ099	BCZ440	CEK241	DJI436
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	2	2	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<2	<2	<5	<2	<2	<2
Dinitrotoluene, 2,4-	µg/L	n/v	<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
Fluoranthene	µg/L	n/v	<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
Indeno(1,2,3-cd)pyrene	µg/L	n/v	<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
Methylnaphthalene, 1-	µg/L	n/v	<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
Naphthalene	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1
Phenanthrene	µg/L	n/v	<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
Pyrene	µg/L	n/v	<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
Trichlorophenol, 2,4,5-	µg/L	n/v	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	0.24
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1.0	<0.20	<0.20	0.24
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	8-Oct-14	8-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140820-HB01	WG-160900764-20141008-AD17	WG-160900764-20150408-AD01	WG-160900764-2015106-JK16	WG-160900764-20160413-JK16	WG-160900764-20161102-JK13
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I8196	B561586	B5K3284	B674120	B6N8820
Laboratory Sample ID			XF4725	XX8288	ABP508	BCP444	CEO959	DJO303
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	<10	<10	17	13	10	13
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	190	200	200	210	200	200
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.3	1.8	1.7	1.4	1.9	2.1
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	200	210	200	210	210	200
Ammonia (as N)	mg/L	n/v	0.18	0.13	0.12	0.20	0.10	0.12
Anion Sum	meq/L	n/v	4.28	4.46	4.31	4.54	4.44	4.45
Cation Sum	meq/L	n/v	4.17	4.46	4.26	4.68	4.41	4.38
Chloride	mg/L	250[D]	2	2	2	2.2	1.7	2.2
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	0.90	1.4	1.1	1.2	1.2	1.2
Electrical Conductivity, Lab	µmhos/cm	n/v	400	410	400	410	390	410
Fluoride	mg/L	1.5$_b$[B]	0.13	0.11	0.16	0.11	0.13	0.13
Hardness (as CaCO3)	mg/L	80-100[E]	**200[E]**	**210[E]**	**200[E]**	**220[E]**	**210[E]**	**200[E]**
Ion Balance	%	n/v	1.33	0.0100	0.530	1.53	0.260	0.780
Langelier Index (at 20 C)	none	n/v	0.737	0.653	0.586	0.557	0.672	0.707
Langelier Index (at 4 C)	none	n/v	0.487	0.403	0.337	0.308	0.423	0.458
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	0.065	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	0.065	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	0.012	<0.010	<0.010
pH	S.U.	6.5-8.5[E]	8.11	7.98	7.95	7.86	7.99	8.05
Saturation pH (at 20 C)	none	n/v	7.37	7.32	7.37	7.30	7.32	7.34
Saturation pH (at 4 C)	none	n/v	7.62	7.57	7.62	7.55	7.57	7.59
Sulfate	mg/L	500$_n$[D]	13	13	13	14	13	13
Total Dissolved Solids	mg/L	500[D]	234	222	256	230	236	244
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	240	250	240	240
Total Organic Carbon	mg/L	n/v	1.4	1.3	1.1	1.2	1.2	1.5
Total Suspended Solids	mg/L	n/v	<10	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D, E]	4.9	**20[D]**	**17[D]**	**9.7[D]**	**8.0[D]**	**5.2[D]**
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0 BO	0 BO	0	**NDOGN[E]**	0	0
Total Coliform Background	cfu/100mL	n/v	> 2000	> 2000	1800	NDOGN	230	1500
Total Coliforms	cfu/100mL	0[A]	**24 BO[A]**	0 BO	0	**NDOGN[E]**	0	0
Metals								
Aluminum	µg/L	100[E]	<5.0	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	150	180	170	170	170	170
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	19	13	18	<10	15	13
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	54000	57000	55000	60000	59000	56000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	2.1	4.0	2	4.8	5	1.1
Iron	µg/L	300[D]	<100	**2700[D]**	**2200[D]**	**1600[D]**	**1600[D]**	**1100[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	15000	15000	14000	17000	15000	16000
Manganese	µg/L	50[D]	15	25	24	21	20	20
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	0.63	<0.50	0.63	0.57	0.6	0.56
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	890	990	940	1100	910	1000
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	11000	12000	10000	12000	11000	11000
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	5200	5000	5200	5100	4700	4900
Strontium	µg/L	n/v	220	230	220	230	240	220
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	9.8	6.4	12	6.3	9.5
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	-	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	8-Oct-14	8-Apr-15	6-Oct-15	13-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140820-HB01	WG-160900764-20141008-AD17	WG-160900764-20150408-AD01	WG-160900764-2015106-JK16	WG-160900764-20160413-JK16	WG-160900764-20161102-JK13
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)	Outside (Back house)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I8196	B561586	B5K3284	B674120	B6N8820
Laboratory Sample ID			XF4725	XX8288	ABP508	BCP444	CEO959	DJO303
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	<1	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_f$[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_f$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_f$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	2.5	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_f$[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100$_e$[B]	<0.20	2.5	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	7-Oct-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140820-HB04	WG-160900764-20141007-AD12	WG-160900764-20150416-JK10	WG-160900764-2015106-JK10	WG-160900764-20160412-JK7	WG-160900764-20161101-JK6
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I7101	B567840	B5K3284	B673025	B6N7539
Laboratory Sample ID			XF4727	XX2939	ACT455	BCP438	CEK230	DJI432
Filtered	Units	ODWS	Lab Filtered Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	10	<10	11	<10	<10	11
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	190	200	210	190	200	200
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	2.8	2.4	<1	1.2	1.4	2.3
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	200	200	210	200	200	200
Ammonia (as N)	mg/L	n/v	0.23	0.099	0.36	0.33	1.2	1.1
Anion Sum	meq/L	n/v	4.37	4.40	4.68	4.34	4.47	4.44
Cation Sum	meq/L	n/v	4.38	4.43	4.50	4.67	4.36	4.35
Chloride	mg/L	250[D]	2	2	2	2.3	2.4	2.7
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.0	1.4	1.4	1.4	1.4	1.4
Electrical Conductivity, Lab	µmhos/cm	n/v	410	410	400	400	400	410
Fluoride	mg/L	1.5$_b$[B]	<0.10	<0.10	0.11	<0.10	0.12	0.10
Hardness (as CaCO3)	mg/L	80-100[E]	**210[E]**	**210[E]**	**210[E]**	**220[E]**	**200[E]**	**200[E]**
Ion Balance	%	n/v	0.140	0.330	1.93	3.66	1.14	1.06
Langelier Index (at 20 C)	none	n/v	0.853	0.755	0.0770	0.479	0.532	0.721
Langelier Index (at 4 C)	none	n/v	0.603	0.506	-0.173	0.230	0.283	0.471
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.01	<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
pH	S.U.	6.5-8.5[E]	8.19	8.10	7.38	7.81	7.87	8.08
Saturation pH (at 20 C)	none	n/v	7.34	7.35	7.30	7.33	7.34	7.36
Saturation pH (at 4 C)	none	n/v	7.59	7.60	7.55	7.58	7.59	7.61
Sulfate	mg/L	500$_h$[D]	18	17	15	18	15	17
Total Dissolved Solids	mg/L	500[D]	216	246	216	228	240	230
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	250	240	240	240
Total Organic Carbon	mg/L	n/v	1.5	1.5	1.4	1.3	1.4	1.4
Total Suspended Solids	mg/L	n/v	33	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	**84[D]**	**11[D]**	**7.6[D]**	**7.0[D]**	**5.9[D]**	**5.8[D]**
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	46	46	0	29	3	0
Total Coliforms	cfu/100mL	0[A]	0	0	0	0	0	0
Metals								
Aluminum	µg/L	100[E]	<5.0	6.3	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	<1.0	<1.0	<1	<1	<1.0	<1
Barium	µg/L	1000[B]	100	140	150	140	150	140
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	13	12	15	<10	12	11
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	57000	57000	57000	60000	57000	54000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	<1.0	<1.0	<1	<1	2.3	1.9
Iron	µg/L	300[D]	<100	**2100[D]**	**1900[D]**	**1700[D]**	**1500[D]**	**1500[D]**
Lead	µg/L	10$_c$[B]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	16000	16000	16000	17000	14000	16000
Manganese	µg/L	50[D]	24	37	50	30	40	27
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	0.98	0.63	0.84	0.8	0.77	0.67
Nickel	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	870	890	950	970	880	950
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	9100	9900	9300	10000	9100	9200
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	4500	4300	4600	4600	4400	4500
Strontium	µg/L	n/v	220	240	230	230	240	220
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	67	<5	<5.0	17	5.8
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	3.0	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	0.31	<0.40	<0.40
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.2	0.31	<0.40	<0.40
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			20-Aug-14	7-Oct-14	16-Apr-15	6-Oct-15	12-Apr-16	1-Nov-16
Sample ID			WG-160900764-20140820-HB04	WG-160900764-20141007-AD12	WG-160900764-20150416-JK10	WG-160900764-2015106-JK10	WG-160900764-20160412-JK7	WG-160900764-20161101-JK6
Water Type			Raw	Raw	Raw	Raw	Raw	Raw
Sample Tap			Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)	Inside (Basement)
Treatment Type			None	None	None	None	None	None
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4F1595	B4I7101	B567840	B5K3284	B673025	B6N7539
Laboratory Sample ID			XF4727	XX2939	ACT455	BCP438	CEK230	DJI432
Filtered	Units	ODWS	Lab Filtered 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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	2	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3$_f$[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30$_t$[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2$_t$[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1	<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
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30$_t$[D]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3$_t$[D]	<0.50	<0.50	<0.5	<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
Dichlorobenzene, 1,4-	µg/L	5[B] 1$_t$[D]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1	<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
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.2	<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
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<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
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.3	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.4	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<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
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.5	<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
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.2	<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
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.2	<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
Trihalomethanes	µg/L	100$_e$[B]	<0.20	<0.20	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20

See notes on last page

Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			22-Sep-14	8-Oct-14	8-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140922-JK02	WG-160900764-20141008-AD21	WG-160900764-20150408-AD02	WG-160900764-20151005-JK4	WG-160900764-20160411-JK3	WG-160900764-20161102-JK15
Water Type			Treated	Treated	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4H5247	B4I8196	B561586	B5K2703	B671945	B6N8820
Laboratory Sample ID			XR1307	XX8292	ABP509	BCM869	CEE708	DJO305
Filtered	Units	ODWS	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals	Total Metals
General Chemistry								
Acidity	mg/L	n/v	<10	<10	<10	<10	<10	<10
Alkalinity, Bicarbonate (as CaCO3)	mg/L	n/v	150	160	150	160	160	160
Alkalinity, Carbonate (as CaCO3)	mg/L	n/v	1.7	1.7	1.7	<1.0	<1.0	1.8
Alkalinity, Total (as CaCO3)	mg/L	30-500[E]	150	160	150	160	160	160
Ammonia (as N)	mg/L	n/v	0.16	0.13	0.13	0.11	0.12	0.11
Anion Sum	meq/L	n/v	3.14	3.37	3.26	3.39	3.39	3.36
Cation Sum	meq/L	n/v	3.51	3.29	3.26	3.52	3.27	3.28
Chloride	mg/L	250[D]	1	<1	<1	1.2	<1.0	<1.0
Cyanide (Free)	µg/L	200[B]	<2	<2	<2	<2	<2	<1
Dissolved Organic Carbon (DOC)	mg/L	5[D]	1.1	0.67	0.57	0.55	0.66	0.69
Electrical Conductivity, Lab	µmhos/cm	n/v	290	310	310	300	300	310
Fluoride	mg/L	1.5$_b$[B]	0.25	0.24	0.28	0.26	0.26	0.28
Hardness (as CaCO3)	mg/L	80-100[E]	**130[E]**	**130[E]**	**130[E]**	**150[E]**	**130[E]**	**130[E]**
Ion Balance	%	n/v	5.51	1.16	0.0600	1.98	1.82	1.11
Langelier Index (at 20 C)	none	n/v	0.364	0.358	0.328	0.0840	0.112	0.368
Langelier Index (at 4 C)	none	n/v	0.113	0.107	0.0780	-0.166	-0.138	0.117
Nitrate (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate + Nitrite (as N)	mg/L	10.0$_d$[B]	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	mg/L	1.0$_d$[B]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Orthophosphate(as P)	mg/L	n/v	<0.010	<0.010	<0.010	<0.010	0.012	0.012
pH	S.U.	6.5-8.5[E]	8.10	8.06	8.06	7.77	7.79	8.08
Saturation pH (at 20 C)	none	n/v	7.73	7.71	7.74	7.69	7.68	7.71
Saturation pH (at 4 C)	none	n/v	7.98	7.96	7.99	7.94	7.93	7.96
Sulfate	mg/L	500$_n$[D]	6	9	8	9.8	9.6	9.0
Total Dissolved Solids	mg/L	500[D]	126	174	198	198	146	176
Total Dissolved Solids (Calculated)	mg/L	500[D]	-	-	180	190	190	180
Total Organic Carbon	mg/L	n/v	1.1	0.65	0.51	0.58	0.71	1.0
Total Suspended Solids	mg/L	n/v	27	<10	<10	<10	<10	<10
Turbidity, Lab	ntu	5$_i$[D,E]	**31[D]**	**7.6[D]**	2.9	<0.2	0.6	0.9
Microbiological Analysis								
Escherichia coli (E.Coli)	cfu/100mL	0[A]	0	0	0	0	0	0
Total Coliform Background	cfu/100mL	n/v	3	16	0	10	12	2
Total Coliforms	cfu/100mL	0[A]	0	0	0	**1[A]**	0	**1[A]**
Metals								
Aluminum	µg/L	100[E]	16	<5.0	<5	<5.0	<5.0	<5
Antimony	µg/L	6[C]	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Arsenic	µg/L	25[C]	1.5	1.5	1.8	1.6	1.6	1.4
Barium	µg/L	1000[B]	99	120	110	120	130	110
Beryllium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Boron	µg/L	5000[C]	38	43	42	37	44	39
Cadmium	µg/L	5[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Calcium	µg/L	n/v	28000	30000	29000	32000	31000	29000
Chromium	µg/L	50[B]	<5.0	<5.0	<5	<5.0	<5.0	<5
Chromium (Hexavalent)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Copper	µg/L	1000[D]	<1.0	<1.0	<1	<1	<1.0	<1
Iron	µg/L	300[D]	**7700[D]**	**880[D]**	**590[D]**	<100	160	**350[D]**
Lead	µg/L	10$_c$[B]	0.95	<0.50	<0.5	<0.5	<0.50	<0.5
Magnesium	µg/L	n/v	14000	15000	15000	16000	14000	15000
Manganese	µg/L	50[D]	**96[D]**	40	**55[D]**	29	36	29
Mercury	µg/L	1[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Molybdenum	µg/L	n/v	<0.50	1.1	1	1.6	1.4	1.1
Nickel	µg/L	n/v	1.2	<1.0	<1	<1	<1.0	<1
Phosphorus	µg/L	n/v	<100	<100	<100	<100	<100	<100
Potassium	µg/L	n/v	840	810	860	880	860	880
Selenium	µg/L	10[B]	<2.0	<2.0	<2	<2	<2.0	<2
Silicon	µg/L	n/v	9200	11000	9800	11000	11000	10000
Silver	µg/L	n/v	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Sodium	µg/L	0000$_g$[D] 20000	14000	13000	12000	14000	13000	13000
Strontium	µg/L	n/v	310	320	320	330	330	300
Thallium	µg/L	n/v	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05
Titanium	µg/L	n/v	<5.0	<5.0	<5	<5.0	<5.0	<5
Uranium	µg/L	20[B]	<0.10	<0.10	<0.1	<0.1	<0.10	<0.1
Vanadium	µg/L	n/v	<0.50	<0.50	<0.5	<0.5	<0.50	<0.5
Zinc	µg/L	5000[D]	<5.0	<5.0	<5	<5.0	<5.0	<5
Zirconium	µg/L	n/v	<1.0	<1.0	<1	<1	<1.0	<1
BTEX and Petroleum Hydrocarbons								
Benzene	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	2.4[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m & p-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20
Xylene, o-	µg/L	300$_{s1}$[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes, Total	µg/L	300[D]	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20
PHC F1 (C6-C10 range)	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F1 (C6-C10 range) minus BTEX	µg/L	n/v	<25	<25	<25	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	n/v	<100	<100	<100	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
PHC F4 (>C34-C50 range)	µg/L	n/v	<200	<200	<200	<200	<200	<200
Chromatogram to baseline at C50	none	n/v	YES	YES	YES	YES	YES	YES

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Aquifer Unit			Thorncliffe Formation					
Sample Date			22-Sep-14	8-Oct-14	8-Apr-15	5-Oct-15	11-Apr-16	2-Nov-16
Sample ID			WG-160900764-20140922-JK02	WG-160900764-20141008-AD21	WG-160900764-20150408-AD02	WG-160900764-20151005-JK4	WG-160900764-20160411-JK3	WG-160900764-20161102-JK15
Water Type			Treated	Treated	Raw	Raw	Raw	Raw
Sample Tap			Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)	Inside (Kitchen)
Treatment Type			Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter	Charcoal Filter
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			MAXX	MAXX	MAXX	MAXX	MAXX	MAXX
Laboratory Work Order			B4H5247	B4I8196	B561586	B5K2703	B671945	B6N8820
Laboratory Sample ID			XR1307	XX8292	ABP509	BCM869	CEE708	DJO305
Filtered	Units	ODWS	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
Acenaphthylene	µg/L	n/v	<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
Benzo(a)anthracene	µg/L	n/v	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/L	0.01[B]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	µg/L	n/v	<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
Benzo(k)fluoranthene	µg/L	n/v	<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
Bis(2-Chloroethyl)ether	µg/L	n/v	<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
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	n/v	4	<1	<1	<1	<1	<1
Chloroaniline, 4-	µg/L	n/v	<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
Chrysene	µg/L	n/v	<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
Dichlorobenzidine, 3,3'-	µg/L	n/v	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorophenol, 2,4-	µg/L	900[B] 0.3_f[D]	<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
Dimethyl Phthalate	µg/L	n/v	<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
Dinitrophenol, 2,4-	µg/L	n/v	<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
Dinitrotoluene, 2,6-	µg/L	n/v	<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
Fluorene	µg/L	n/v	<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
Methylnaphthalene (Total)	µg/L	n/v	<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
Methylnaphthalene, 2-	µg/L	n/v	<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
Pentachlorophenol	µg/L	60[B] 30_f[D]	<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
Phenol	µg/L	n/v	<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
Trichlorobenzene, 1,2,4-	µg/L	n/v	<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
Trichlorophenol, 2,4,6-	µg/L	5[B] 2_f[D]	<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
Bromodichloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform (Tribromomethane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride (Tetrachloromethane)	µg/L	2[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene (Monochlorobenzene)	µg/L	80[B] 30_f[D]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform (Trichloromethane)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	µg/L	200[B] 3_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	5[B] 1_f[D]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane (Freon 12)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	5[C]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	14[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethene, cis-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropene, cis-1,3-	µg/L	n/v	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropene, trans-1,3-	µg/L	n/v	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n-Hexane)	µg/L	n/v	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	n/v	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride (Dichloromethane)	µg/L	50[B]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene (PCE)	µg/L	30[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	n/v	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	µg/L	5[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	n/v	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes	µg/L	100_e[B]	<0.20	<0.20	<1	<0.20	<0.20	<1.0
Vinyl chloride	µg/L	1[B]	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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Table 8
Summary of Groundwater Analytical Results - Private Wells
Clarington Tranformer Station
Hydro One Networks Inc.

Notes:

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