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March 30, 2015
File: 122210500

Attention: Mr. Derek McQuade
Hydro One Networks Inc.
483 Bay Street, TCT7
Toronto, ON M5G 2P5

Dear Mr. McQuade,

Reference: Off-Property Remediation Report
Grand Valley Distribution Station
Adjacent South Property
Hydro One Networks Inc.

1.0 INTRODUCTION

Stantec Consulting ltd. (Stantec), on behalf of Hydro One Networks Inc. (Hydro One) has prepared this letter report documenting the remedial activities completed by Hydro One on the adjacent property to the south of the Grand Valley Distribution Station (Grand Valley DS). The Grand Valley DS is located at 34 Emma Street in Grand Valley, Ontario (Property or Site).

The remediation was supervised and monitored full-time by a Hydro One environmental technician who was supported on an as-needed basis by a Stantec environmental technician. Stantec's role was to observe that site activities followed the remedial work plan[1] approved by Hydro One.

This report also provides an evaluation of test results obtained by Hydro One and provided to Stantec pertaining to the chemical analyses of soil associated with the identified portion of the property.

The objective of the remedial activities was to remove soil containing arsenic associated with the historical application of arsenic trioxide at Grand Valley DS. The remediation included the excavation of identified soils containing arsenic and off-site disposal at a Ministry of the Environment and Climate Change (MOECC) approved facility. Excavation and restoration activities were conducted from July to September 2014. The locations of the previous analyzed soil samples and the extent of remedial excavation are presented on **Figure 1**, attached.

[1] *Off-Property Remedial Work Plan – Adjacent Property to the South of the Grand Valley Distribution Station*. Stantec Consulting Ltd. April 8, 2014

Reference: **Off-Property Remediation Report**
Grand Valley Distribution Station
Adjacent South Property

2.0 SCOPE OF WORK

The scope of work for the excavation, based on the remedial work plan, consisted of the following:

- Decommissioning of monitoring wells.
- Excavation and disposal of approximately 350.5 m^3 of soil containing arsenic at concentration levels above the applied criteria.
- Collection of soil samples by Hydro One's technician following standard procedures, for laboratory analysis to confirm the presence/absence of arsenic.
- Backfilling with approved material and compaction completed by Hydro One Construction.
- Site restoration.

3.0 ASSESSMENT CRITERIA

The confirmatory soil analytical results were compared to the Table 2 Site Condition Standards (SCS) for industrial/commercial/community land use with fine textured soils in a potable groundwater condition[2]. The applicable Table 2 SCS for arsenic in soil for commercial land use is 18 µg/g.

4.0 MONITORING WELL DECOMMISSIONING

On June 5, 2014, prior to initiation of the excavation activities, two existing groundwater monitoring wells were decommissioned in accordance with Ontario Regulation 903 by a licensed well driller (Landshark Drilling).

5.0 SOIL EXCAVATION ACTIVITIES

Soil excavation activities were conducted under Hydro One supervision between July and September 2014. Approximately 350.5 m^3 of soil was excavated from the adjacent property to the south of the Grand Valley DS. The soil containing arsenic above the applied criteria were excavated and then transported off-site by Newalta, an MOECC licensed carrier, to their Stoney Creek landfill, a licensed MOECC facility. The final limits of the excavation are presented on **Figure 2**.

The excavation was advanced to depths ranging from approximately 3.05 to 3.65 m below ground surface (BGS). Confirmatory soil samples were collected from the base and sidewalls of

[2] *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*. Ministry of the Environment. April 15, 2011.

Reference: Off-Property Remediation Report
Grand Valley Distribution Station
Adjacent South Property

the excavation by Hydro One's environmental technician as the targeted depths and extent of excavation were reached, as detailed in the remedial work plan. The collected soil samples were submitted to Maxxam Analytics Inc. (Maxxam) for analysis of arsenic. Maxxam is accredited by the Standards Council of Canada for chemical testing on soil. The soil sample locations are presented on **Figure 2** (Floor) and **Figure 3** (Sidewall). No samples were collected along the north and east limit of the excavation as this wall was removed during excavation at the Grand Valley DS property and municipal property, respectively.

The analytical results for the samples collected are presented in **Table 1**. Based on a review of the results, samples collected by Hydro One from the final limits of the excavation had concentrations below the applicable MOECC Standard.

Water was encountered in the excavation during the remediation activities as a result of groundwater infiltration or precipitation. To facilitate the excavation and sampling program, the water was collected in a portable tank. The water was subsequently removed from the site and disposed at MOECC licensed waste facilities (i.e., Panda Environmental Services in Ayr, Ontario, Quantex Technologies Inc. in Kitchener, Ontario and Detox Environmental Ltd. in Bowmanville, Ontario).

6.0 SITE RESTORATION

The excavation was backfilled with granular fill supplied by Walkers Aggregates in Duntroon, Ontario and covered with a layer of screened topsoil, supplied by Adams Landscaping in Kitchener, Ontario, to the original ground surface elevation. Compaction of the backfill material was completed with the use of a tamper plate on approximately 0.3 m thick lifts of the backfill material as supervised by Hydro One Construction. Once the weather improves, the site restoration will be completed with seeding of the topsoil. Representative samples of the imported backfill and topsoil had concentrations of analyzed parameters below the applicable MOECC Standards. The analytical results for the samples collected from the imported granular backfill and topsoil are presented in **Tables 2** and **3**, respectively.

The north property bars were resurveyed and reinstated by Stantec as shown on the **Figure 1**.

Reference: **Off-Property Remediation Report**
Grand Valley Distribution Station
Adjacent South Property

This report is subject to the limitations in **Appendix A**.

Regards,

STANTEC CONSULTING LTD.

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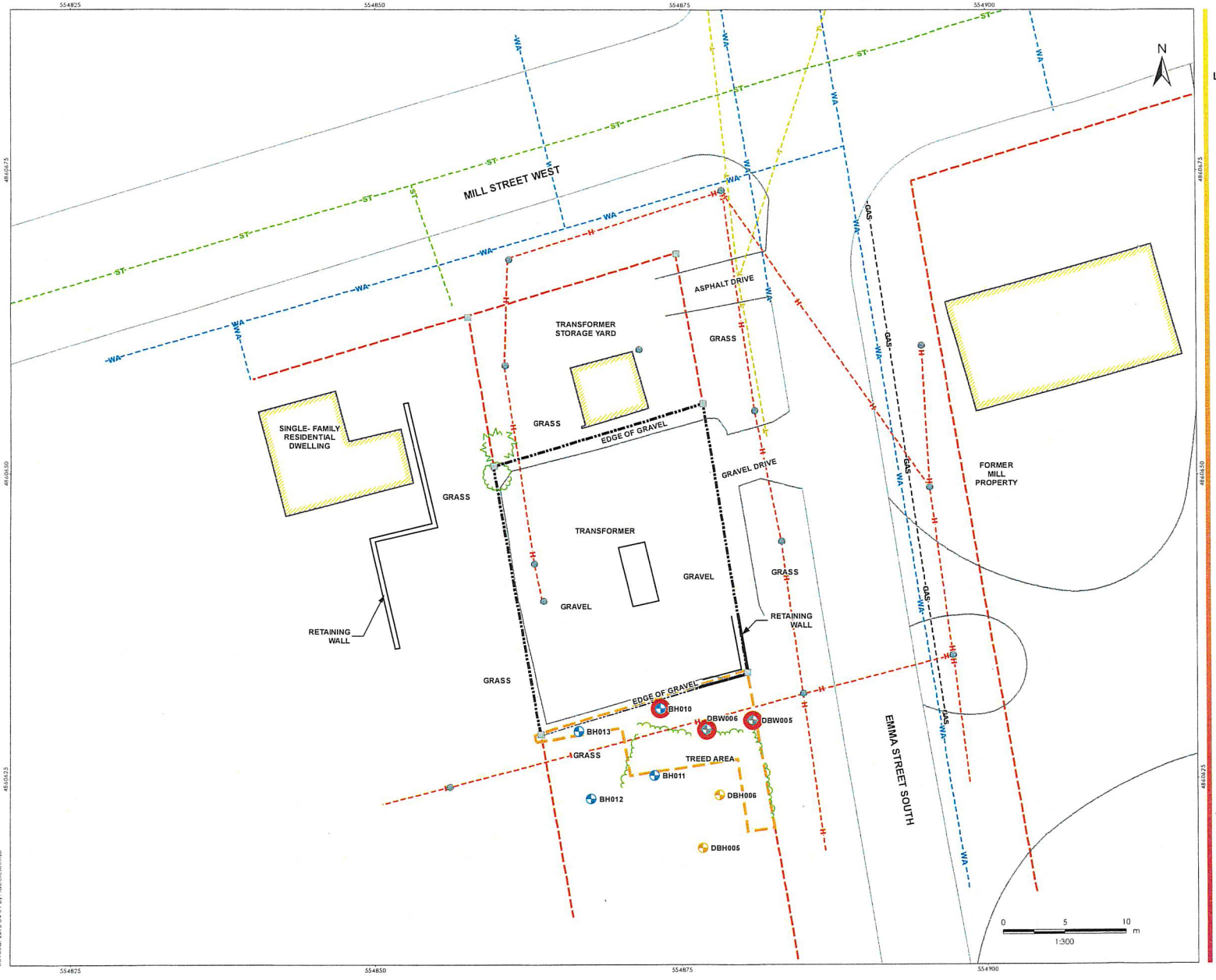

Stantec

Legend

- Site Boundary
- Borehole (June 2013)
- Borehole (April 2013)
- Borehole with Monitoring Well (Decommissioned)
- Hydro Pole
- Iron Bar
- Above-Ground Hydro Line
- Under-Ground Bell Line
- Water Line
- Sewer Line
- Gas Line
- Approximate Property Line (Based on Stantec Geomatics Ltd. Survey, September 2014)
- Soil Arsenic Concentration Exceeds MOE Standard
- Actual Extent of Excavation

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Site features based on plan of survey performed by Hydro One Networks Inc., January 5, 2007.
3. Locations of utility services are approximate and shall be confirmed prior to construction activities.
4. This figure is to be viewed in context of the report: "Off-Property Remediation Report, Grand Valley Distribution Station, Adjacent South Property", and is subject to the limitations specified in that report.

April 2015
122210500

Client/Project
Hydro One Networks Inc.
Grand Valley DS
Adjacent South Property
Grand Valley, Ontario

Figure No.
1

Title
Site Plan

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Revised: 2015-04-01 By: tdecrescenzo

Stantec

Legend

- Site Boundary
- Floor Sampling Location
- Iron Bar
- Approximate Property Line (Based on Stantec Geomatics Ltd. Survey, September 2014)
- Excavation Depth ≤1.25 m BGS
- Excavation Depth ≤3.35 m BGS
- Excavation Depth ≤4.00 m BGS
- C71 Sampling Grid Cell

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Site features based on plan of survey performed by Hydro One Networks Inc., January 5, 2007.
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April 2015
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Client/Project
Hydro One Networks Inc.
Grand Valley DS
Adjacent South Property
Grand Valley, Ontario

Figure No.
2

Title
Confirmatory Soil Sample Locations: Base

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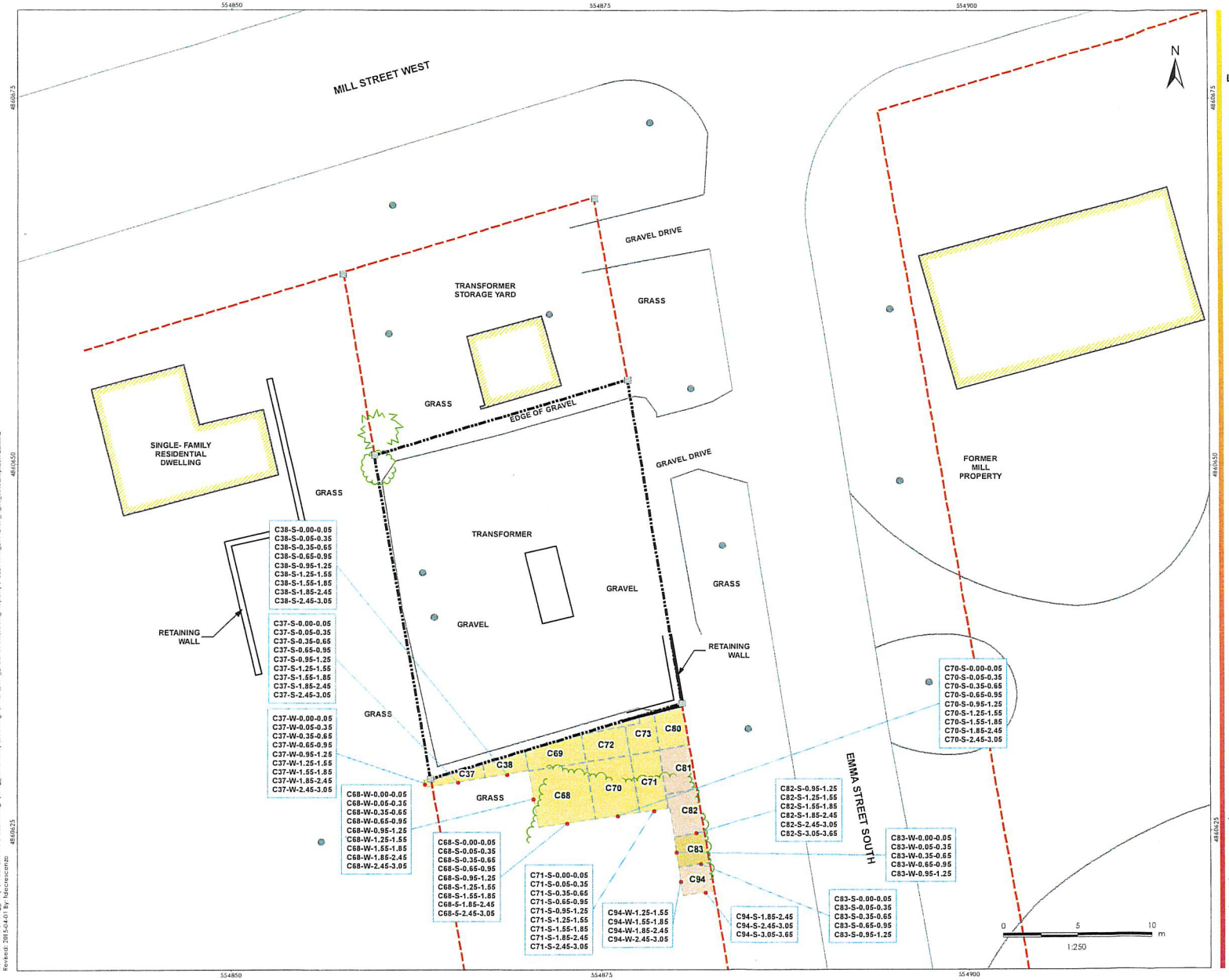

Stantec

Legend

- Site Boundary
- Wall Sampling Location
- Iron Bar
- Approximate Property Line (Based on Stantec Geomatics Ltd. Survey, September 2014)
- Excavation Depth ≤1.25 m BGS
- Excavation Depth ≤3.35 m BGS
- Excavation Depth ≤4.00 m BGS
- C71 Sampling Grid Cell

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Site features based on plan of survey performed by Hydro One Networks Inc., January 5, 2007.
3. Locations of utility services are approximate and shall be confirmed prior to construction activities.
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April 2015
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Client/Project
Hydro One Networks Inc.
Grand Valley DS
Adjacent South Property
Grand Valley, Ontario

Figure No.
3

Title
Confirmatory Soil Sample Locations: Sidewalls

Table 1
Summary of Soil Arsenic Results
Adjacent Property to the South
Grand Valley DS
Hydro One Networks Inc

							Metals Units Ontario SCS	Arsenic µg/g 18[A]
Sample Location	Sample Date	Sample ID	Sample Depth	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	
C37-F	17-Jul-14	GRVS17714DC37-F-3.05	3.05 m	MAXX	B4C6419	WS9358		2
C37-S	17-Jul-14	GRVS17714DC37-S-0.00-0.05	0 - 0.05 m	MAXX	B4C6419	WS9380		6
	17-Jul-14	GRVS17714DC37-S-0.05-0.35	0.05 - 0.35 m	MAXX	B4C6419	WS9381		7
	17-Jul-14	GRVS17714DC37-S-0.35-0.65	0.35 - 0.65 m	MAXX	B4C6419	WS9382		6
	17-Jul-14	GRVS17714DC37-S-0.65-0.95	0.65 - 0.95 m	MAXX	B4C6419	WS9383		4
	17-Jul-14	GRVS17714DC37-S-0.95-1.25	0.95 - 1.25 m	MAXX	B4C6419	WS9384		2
	17-Jul-14	GRVS17714DC37-S-1.25-1.55	1.25 - 1.55 m	MAXX	B4C6419	WS9385		2
	17-Jul-14	GRVS17714DC37-S-1.55-1.85	1.55 - 1.85 m	MAXX	B4C6419	WS9386		2
	17-Jul-14	GRVS17714DC37-S-1.85-2.45	1.85 - 2.45 m	MAXX	B4C6419	WS9387		2
	17-Jul-14	GRVS17714DC37-S-1.85-2.45LR	1.85 - 2.45 m	MAXX	B4C6419	WS9387	Lab Replicate	2
	17-Jul-14	GRVS17714DC37-S-2.45-3.05	2.45 - 3.05 m	MAXX	B4C6419	WS9388		2
C37-W	17-Jul-14	GRVS17714DC37-W-0.00-0.05	0 - 0.05 m	MAXX	B4C6419	WS9370		7
	17-Jul-14	GRVS17714DC37-W-0.05-0.35	0.05 - 0.35 m	MAXX	B4C6419	WS9371		12
	17-Jul-14	GRVS17714DC37-W-0.35-0.65	0.35 - 0.65 m	MAXX	B4C6419	WS9372		5
	17-Jul-14	GRVS17714DC37-W-0.65-0.95	0.65 - 0.95 m	MAXX	B4C6419	WS9373		2
	17-Jul-14	GRVS17714DC37-W-0.95-1.25	0.95 - 1.25 m	MAXX	B4C6419	WS9374		2
	17-Jul-14	GRVS17714DC37-W-1.25-1.55	1.25 - 1.55 m	MAXX	B4C6419	WS9375		3
	17-Jul-14	GRVS17714DC37-W-1.55-1.85	1.55 - 1.85 m	MAXX	B4C6419	WS9376		3
	17-Jul-14	GRVS17714DC37-W-1.85-2.45	1.85 - 2.45 m	MAXX	B4C6419	WS9377		2
	17-Jul-14	GRVS17714DC37-W-2.45-3.05	2.45 - 3.05 m	MAXX	B4C6419	WS9378		2
C38-F	17-Jul-14	GRVS17714DC38-F-3.05	3.05 m	MAXX	B4C6419	WS9359		4
C38-S	17-Jul-14	GRVS17714DC38-S-0.00-0.05	0 - 0.05 m	MAXX	B4C6419	WS9360		6
	17-Jul-14	GRVS17714DDUP24	0 - 0.05 m	MAXX	B4C6419	WS9389	Field Duplicate	5
	17-Jul-14	GRVS17714DC38-S-0.05-0.35	0.05 - 0.35 m	MAXX	B4C6419	WS9361		8
	17-Jul-14	GRVS17714DC38-S-0.35-0.65	0.35 - 0.65 m	MAXX	B4C6419	WS9362		7
	17-Jul-14	GRVS17714DC38-S-0.65-0.95	0.65 - 0.95 m	MAXX	B4C6419	WS9363		4
	17-Jul-14	GRVS17714DDUP25	0.65 - 0.95 m	MAXX	B4C6419	WS9369	Field Duplicate	5
	17-Jul-14	GRVS17714DC38-S-0.95-1.25	0.95 - 1.25 m	MAXX	B4C6419	WS9364		5
	17-Jul-14	GRVS17714DC38-S-1.25-1.55	1.25 - 1.55 m	MAXX	B4C6419	WS9365		4
	17-Jul-14	GRVS17714DC38-S-1.55-1.85	1.55 - 1.85 m	MAXX	B4C6419	WS9366		8
	26-Aug-14	GRVS26814DRC385-1.85-2.45	1.85 - 2.45 m	MAXX	B4F5197	XH3054		7
	26-Aug-14	GRVS26814DRC385-2.45-3.05	2.45 - 3.05 m	MAXX	B4F5197	XH3055		5
C68-F	27-Aug-14	GRVS27814DC68F-3.05	3.05 m	MAXX	B4F6967	XI0940		4
C68-S	26-Aug-14	GRVS26814DC685-1.85-2.45	1.85 - 2.45 m	MAXX	B4F5197	XH3056		5
	26-Aug-14	GRVS26814DC685-1.85-2.45LR	1.85 - 2.45 m	MAXX	B4F5197	XH3056	Lab Replicate	5
	26-Aug-14	GRVS26814DC685-2.45-3.05	2.45 - 3.05 m	MAXX	B4F5197	XH3057		3
C68-W	27-Aug-14	GRVS27814DC68W-1.85-2.45	1.85 - 2.45 m	MAXX	B4F6967	XI0943		2
	27-Aug-14	GRVS27814DC68W-2.45-3.05	2.45 - 3.05 m	MAXX	B4F6967	XI0942		9
	27-Aug-14	GRVS27814DDUP36	2.45 - 3.05 m	MAXX	B4F6967	XI0944	Field Duplicate	11
C69-F	26-Aug-14	GRVS26814DC69F-3.05	3.05 m	MAXX	B4F5197	XH3058		3
C70-F	27-Aug-14	GRVS27814DC70F-3.05	3.05 m	MAXX	B4F6967	XI0939		3
C70-S	27-Aug-14	GRVS27814DC70S-0.00-0.05	0 - 0.05 m	MAXX	B4F6967	XI0947		4
	27-Aug-14	GRVS27814DC70S-0.05-0.35	0.05 - 0.35 m	MAXX	B4F6967	XI0948		3
	27-Aug-14	GRVS27814DC70S-0.35-0.65	0.35 - 0.65 m	MAXX	B4F6967	XI0949		6
	27-Aug-14	GRVS27814DC70S-0.65-0.95	0.65 - 0.95 m	MAXX	B4F6967	XI0950		6
	27-Aug-14	GRVS27814DC70S-0.95-1.25	0.95 - 1.25 m	MAXX	B4F6967	XI0951		6
	27-Aug-14	GRVS27814DC70S-1.25-1.55	1.25 - 1.55 m	MAXX	B4F6967	XI0952		5
	27-Aug-14	GRVS27814DC70S-1.55-1.85	1.55 - 1.85 m	MAXX	B4F6967	XI0953		6
	27-Aug-14	GRVS27814DDUP38	1.55 - 1.85 m	MAXX	B4F6967	XI0935	Field Duplicate	5
	27-Aug-14	GRVS27814DC70S-1.85-2.45	1.85 - 2.45 m	MAXX	B4F6967	XI0954		3
	27-Aug-14	GRVS27814DC70S-2.45-3.05	2.45 - 3.05 m	MAXX	B4F6967	XI0955		3
C71-F	27-Aug-14	GRVS27814DC71F-3.05	3.05 m	MAXX	B4F6967	XI0938		3
	27-Aug-14	GRVS27814DDUP37	3.05 m	MAXX	B4F6967	XI0945	Field Duplicate	3
C71-S	27-Aug-14	GRVS27814DC71S-0.00-0.05	0 - 0.05 m	MAXX	B4F6967	XI0926		7
	27-Aug-14	GRVS27814DC71S-0.05-0.35	0.05 - 0.35 m	MAXX	B4F6967	XI0927		7
	27-Aug-14	GRVS27814DC71S-0.35-0.65	0.35 - 0.65 m	MAXX	B4F6967	XI0928		5
	27-Aug-14	GRVS27814DC71S-0.65-0.95	0.65 - 0.95 m	MAXX	B4F6967	XI0929		5
	27-Aug-14	GRVS27814DDUP39	0.65 - 0.95 m	MAXX	B4F6967	XI0946	Field Duplicate	5
	27-Aug-14	GRVS27814DC71S-0.95-1.25	0.95 - 1.25 m	MAXX	B4F6967	XI0930		5
	27-Aug-14	GRVS27814DC71S-1.25-1.55	1.25 - 1.55 m	MAXX	B4F6967	XI0931		5
	2-Sep-14	GRVS2914DRC71S-1.55-1.85	1.55 - 1.85 m	MAXX	B4G0704	XK1225		4
	2-Sep-14	GRVS2914DRC71S-1.85-2.45	1.85 - 2.45 m	MAXX	B4G0704	XK1224		6
	27-Aug-14	GRVS27814DC71S-2.45-3.05	2.45 - 3.05 m	MAXX	B4F6967	XI0934		2
C72-F	27-Aug-14	GRVS27814DC72F-3.05	3.05 m	MAXX	B4F6967	XI0936		4
	27-Aug-14	GRVS27814DC72F-3.05LR	3.05 m	MAXX	B4F6967	XI0936	Lab Replicate	4
C73-F	27-Aug-14	GRVS27814DC73F-3.05	3.05 m	MAXX	B4F6967	XI0937		3
C80-F	27-Aug-14	GRVS27814DC80F-3.05	3.05 m	MAXX	B4F6967	XI0941		4
C81-F	2-Sep-14	GRVS2914DC81F-3.65	3.65 m	MAXX	B4G0704	XK1230		3
C82-F	2-Sep-14	GRVS2914DC82F-3.65	3.65 m	MAXX	B4G0704	XK1231		3

Table 1
Summary of Soil Arsenic Results
Adjacent Property to the South
Grand Valley DS
Hydro One Networks Inc

							Metals Units Ontario SCS	Arsenic µg/g 18[A]
Sample Location	Sample Date	Sample ID	Sample Depth	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	
See notes on last page								
C83-F	3-Sep-14	GRVS3914DC83F-0.95	0.95 m	MAXX	B4G0704	XK1238		15
	3-Sep-14	GRVS2914DUP40	0.95 m	MAXX	B4G0704	XK1233	Field Duplicate	12
	4-Sep-14	GRVS4914DC83F-1.25	1.25 m	MAXX	B4G1740	XK5759		3
C83-S	3-Sep-14	GRVS2914DC83S-0.00-0.05	0 - 0.05 m	MAXX	B4G0704	XK1226		8
	3-Sep-14	GRVS2914DC83S-0.05-0.35	0.05 - 0.35 m	MAXX	B4G0704	XK1227		6
	3-Sep-14	GRVS3914DDUP44	0.05 - 0.35 m	MAXX	B4G0704	XK1239	Field Duplicate	5
	3-Sep-14	GRVS2914DC83S-0.35-0.65	0.35 - 0.65 m	MAXX	B4G0704	XK1228		6
	3-Sep-14	GRVS2914DC83S-0.65-0.95	0.65 - 0.95 m	MAXX	B4G0704	XK1229		15
	4-Sep-14	GRVS4914DC83S-0.95-1.25	0.95 - 1.25 m	MAXX	B4G1740	XK5760		7
	4-Sep-14	GRVS4914DDUP47	0.95 - 1.25 m	MAXX	B4G1740	XK5762	Field Duplicate	5
C83-W	3-Sep-14	GRVS3914DC83W-0.00-0.05	0 - 0.05 m	MAXX	B4G0704	XK1234		7
	3-Sep-14	GRVS3914DC83W-0.05-0.35	0.05 - 0.35 m	MAXX	B4G0704	XK1235		6
	3-Sep-14	GRVS3914DC83W-0.35-0.65	0.35 - 0.65 m	MAXX	B4G0704	XK1236		6
	3-Sep-14	GRVS3914DC83W-0.65-0.95	0.65 - 0.95 m	MAXX	B4G0704	XK1237		5
	4-Sep-14	GRVS4914DC83W-0.95-1.25	0.95 - 1.25 m	MAXX	B4G1740	XK5761		2
C86-S	25-Aug-14	GRVS25814DC68S-0.00-0.05	0 - 0.05 m	MAXX	B4F4340	XG9195		14
	25-Aug-14	GRVS25814DC68S-0.05-0.35	0.05 - 0.35 m	MAXX	B4F4340	XG9196		8
	25-Aug-14	GRVS25814DC68S-0.35-0.65	0.35 - 0.65 m	MAXX	B4F4340	XG9197		5
	25-Aug-14	GRVS25814DC68S-0.65-0.95	0.65 - 0.95 m	MAXX	B4F4340	XG9198		6
	25-Aug-14	GRVS25814DC68S-0.95-1.25	0.95 - 1.25 m	MAXX	B4F4340	XG9199		6
	25-Aug-14	GRVS25814DC68S-1.25-1.55	1.25 - 1.55 m	MAXX	B4F4340	XG9200		5
	25-Aug-14	GRVS25814DC68S-1.55-1.85	1.55 - 1.85 m	MAXX	B4F4340	XG9201		5
C86-W	25-Aug-14	GRVS25814DC68W-0.00-0.05	0 - 0.05 m	MAXX	B4F4340	XG9187		13
	25-Aug-14	GRVS25814DC68W-0.05-0.35	0.05 - 0.35 m	MAXX	B4F4340	XG9188		7
	25-Aug-14	GRVS25814DDUP33	0.05 - 0.35 m	MAXX	B4F4340	XG9194	Field Duplicate	15
	25-Aug-14	GRVS25814DC68W-0.35-0.65	0.35 - 0.65 m	MAXX	B4F4340	XG9189		18
	25-Aug-14	GRVS25814DC68W-0.65-0.95	0.65 - 0.95 m	MAXX	B4F4340	XG9190		7
	25-Aug-14	GRVS25814DC68W-0.95-1.25	0.95 - 1.25 m	MAXX	B4F4340	XG9191		5
	25-Aug-14	GRVS25814DC68W-1.25-1.55	1.25 - 1.55 m	MAXX	B4F4340	XG9192		6
	25-Aug-14	GRVS25814DC68W-1.55-1.85	1.55 - 1.85 m	MAXX	B4F4340	XG9193		4
	25-Aug-14	GRVS25814DC68W-1.55-1.85LR	1.55 - 1.85 m	MAXX	B4F4340	XG9193	Lab Replicate	4
C94-F	8-Sep-14	GRVS8914DC94F-3.65	3.65 m	MAXX	B4G4124	XL7652		4
	8-Sep-14	GRVS8914DDUP48	3.65 m	MAXX	B4G4124	XL7653	Field Duplicate	4
C94-S	8-Sep-14	GRVS8914DC94S-1.85-2.45	1.85 - 2.45 m	MAXX	B4G4124	XL7649		9
	8-Sep-14	GRVS8914DC94S-2.45-3.05	2.45 - 3.05 m	MAXX	B4G4124	XL7650		3
	16-Sep-14	GRVS16914DRC94S-3.05-3.65	3.05 - 3.65 m	MAXX	B4H0459	XO7926		2
C94-W	8-Sep-14	GRVS8914DC94W-1.25-1.55	1.25 - 1.55 m	MAXX	B4G4124	XL7644		2
	8-Sep-14	GRVS8914DC94W-1.25-1.55LR	1.25 - 1.55 m	MAXX	B4G4124	XL7644	Lab Replicate	3
	8-Sep-14	GRVS8914DC94W-1.55-1.85	1.55 - 1.85 m	MAXX	B4G4124	XL7645		2
	8-Sep-14	GRVS8914DC94W-1.85-2.45	1.85 - 2.45 m	MAXX	B4G4124	XL7646		3
	8-Sep-14	GRVS8914DC94W-2.45-3.05	2.45 - 3.05 m	MAXX	B4G4124	XL7647		14
	8-Sep-14	GRVS8914DC94W-3.05-3.65	3.05 - 3.65 m	MAXX	B4G4124	XL7648		4

Notes:

Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011)
[A]	Table 2 - Industrial / Commercial / Community Property Use - Medium Fine Textured Soils
19[A]	Concentration exceeds the indicated standard.
15	Measured concentration was less than the applicable standard.
<0.50	Laboratory reportable detection limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reportable detection limit.

This table is to be viewed in context of the report: " Off-property Remediation Report, Grand Valley Distribtution Station, Adjacent South Property" and is subject to the limitations specified in that report.

Table 2
Summary of Imported Granular Fill Analytical Results
Adjacent Property to the South
Grand Valley DS
Hydro One Networks Inc.

Material Type			2" Crusher Run													
Sample Source			Walkers Aggregates													
Sample Date			01-May-2014	01-May-2014	22-May-2014	22-May-2014	22-May-2014	22-May-2014	30-July-2014	30-July-2014	30-July-2014	12-August-2014	12-August-2014	12-August-2014	12-August-2014	27-August-2014
Sample ID			GRVS1514D2"CRUSHERRUNSOURCE-1	GRVS1514DTRIP BLANK	GRVS22514D-2" CRUSHER RUN-W	GRVS22514D-2" CRUSHER RUN-W DUP 1	GRVS22514D-TRIP BLANK	GRVS22514D-2" CRUSHER RUN-E	GRNS3071402'CRUSHERRUN	GRNS30714D2'CRUSHERRUN DUP 1	GRNS30714DTRIPBLANK	GRVS12814DNORTH	GRVS12814DSOUTH	GRVS12814DTRIPBLANK	GRVS12814DWEST	GRVS27814DNORTH
Laboratory			Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam
Laboratory Work Order			B470845	B470845	B484540	B484540	B484540	B484540	B4D6649	B4D6649	B4D6649	B4E4686	B4E4686	B4E4686	B4E4686	B4F6979
Laboratory Sample ID			VT0913	VT0914	VZ5933	VZ5933 DUP 1	VZ5934	VZ5935	WY0547	WY0547 DUP 1	WY0548	XC0548	XC0549	XC0550	XC0551	X10984
Sample Type	Units	O.Reg 153/04		Trip Blank		Lab Duplicate	Trip Blank			Lab Duplicate	Trip Blank			Trip Blank		
BTEX and Petroleum Hydrocarbons																
Benzene	µg/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Toluene	µg/g	6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	µg/g	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylenes, Total	µg/g	25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
PHC F1 (C6-C10 range) minus BTEX (calc)	µg/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16 range)	µg/g	150	<10	-	<10	<10	-	<10	<10	-	-	<10	<10	-	<10	<10
PHC F3 (>C16-C34 range)	µg/g	1300	<50	-	<50	<50	-	<50	<50	-	-	<50	<50	-	<50	<50
PHC F4 (>C34-C50 range)	µg/g	5600	<50	-	<50	<50	-	<50	<50	-	-	<50	<50	-	<50	<50
Chromatogram to baseline at nC50	µg/g	NV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																
Antimony	µg/g	7.5	<0.20	-	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.20	<0.20
Arsenic	µg/g	18	<1.0	-	<1.0	-	-	<1.0	<1.0	-	-	<1.0	<1.0	-	<1.0	<1.0
Barium	µg/g	390	3.3	-	1.7	-	-	2.2	2.8	-	-	2	1.6	-	2.4	3.8
Beryllium	µg/g	5	<0.20	-	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.20	<0.20
Boron (Hot Water Soluble)	µg/g	1.5	0.078	-	0.063	-	-	<0.050	0.094	-	-	0.067	0.1	-	<0.050	0.13
Cadmium	µg/g	1.2	<0.10	-	<0.10	-	-	<0.10	<0.10	-	-	<0.10	<0.10	-	<0.10	<0.10
Chromium	µg/g	160	1.6	-	1.2	-	-	1.1	1.5	-	-	1.6	1.4	-	1.5	2.2
Chromium VI	µg/g	10	<0.2	-	<0.2	-	-	<0.2	<0.2	-	-	<0.2	<0.2	-	<0.2	<0.2
Cobalt	µg/g	22	0.66	-	0.32	-	-	0.31	0.43	-	-	0.37	0.27	-	0.47	0.59
Copper	µg/g	180	2	-	1.1	-	-	1.2	1.6	-	-	2.4	1.3	-	1.5	1.5
Lead	µg/g	120	3.2	-	2.1	-	-	1.9	2.7	-	-	3.8	2.7	-	3.4	2.9
Mercury	µg/g	1.8	<0.050	-	<0.050	-	-	<0.050	<0.050	-	-	<0.050	<0.050	-	<0.050	<0.050
Molybdenum	µg/g	6.9	<0.50	-	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.50	<0.50
Nickel	µg/g	130	1.6	-	0.76	-	-	0.73	1.2	-	-	1.2	1.1	-	1.3	1.6
Selenium	µg/g	2.4	<0.50	-	<0.50	-	-	<0.50	<0.50	-	-	<0.50	<0.50	-	<0.50	<0.50
Silver	µg/g	25	<0.20	-	<0.20	-	-	<0.20	<0.20	-	-	<0.20	<0.20	-	<0.20	<0.20
Thallium	µg/g	1	<0.050	-	<0.050	-	-	<0.050	<0.050	-	-	<0.050	<0.050	-	<0.050	<0.050
Vanadium	µg/g	86	<5.0	-	<5.0	-	-	<5.0	<5.0	-	-	<5.0	<5.0	-	<5.0	<5.0
Zinc	µg/g	340	<5.0	-	<5.0	-	-	<5.0	<5.0	-	-	<5.0	<5.0	-	<5.0	<5.0
pH (pH Units)	pH	NV	8.39	-	8.38	8.32	-	8.41	8.35	-	-	8.46	8.55	-	8.44	8.48
Conductivity (ms/cm)	mS/cm	0.7	0.21	-	0.16	-	-	0.093	0.2	-	-	0.11	0.39	-	0.13	0.33
Sodium Adsorption Ratio	N/A	5	0.3	-	0.28	-	-	0.33	0.31	-	-	0.31	0.52	-	0.3	0.51
Cyanide, Free	µg/g	0.051	<0.01	-	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	<0.01	<0.01
Chloride	-	NV	-	-	-	-	-	-	-	-	-		-	-	-	
Boron (Total)	µg/g	120	<5.0	-	<5.0	-	-	<5.0	<5.0	-	-	5.5	5.9	-	6.1	5.8
Uranium	µg/g	23	0.061	-	<0.050	-	-	<0.050	0.067	-	-	0.064	0.06	-	0.091	0.082

Notes on last page

Table 2
Summary of Imported Granular Fill Analytical Results
Adjacent Property to the South
Grand Valley DS
Hydro One Networks Inc.

Material Type			2" Crusher Run						Walkers Aggregates						
Sample Source															
Sample Date			27-August-2014	27-August-2014	27-August-2014	27-August-2014	27-August-2014	16-September-2014	16-September-2014	16-September-2014	16-September-2014	16-September-2014	16-September-2014	16-September-2014	16-September-2014
Sample ID			GRVS27814DNORTH DUP 1	GRVS27814DSOUTH	GRVS27814DSOUTH DUP 1	GRVS27814DTRIPBLANK	GRVS27814DWEST	GRVS16914DNORTH	GRVS16914DNORTH DUP 1	GRVS16914DSOUTH	GRVS16914DSOUTH DUP 1	GRVS16914DTRIPBLANK	GRVS16914DEAST	GRVS16914DEAST DUP 1	GRVS16914DWEST
Laboratory			Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam	Maxxam
Laboratory Work Order			B4F6979	B4F6979	B4F6979	B4F6979	B4F6979	B4H0431	B4H0431	B4H0431	B4H0431	B4H0431	B4H0431	B4H0431	B4H0431
Laboratory Sample ID			XI0984 DUP 1	XI0985	XI0985 DUP 1	XI0986	XI0987	XO7764	XO7764 DUP 1	XO7765	XO7765 DUP 1	XO7766	XO7767	XO7767 DUP 1	XO7768
Sample Type	Units	O.Reg 153/04	Lab Duplicate		Lab Duplicate	Trip Blank			Lab Duplicate		Lab Duplicate	Trip Blank		Lab Duplicate	
BTEX and Petroleum Hydrocarbons															
Benzene	µg/g	0.17	<0.020	<0.020	<0.020	<0.020	-	<0.020	-	<0.020	-	<0.020	<0.020	-	<0.020
Toluene	µg/g	6	<0.020	<0.020	<0.020	<0.020	-	<0.020	-	<0.020	-	<0.020	<0.020	-	<0.020
Ethylbenzene	µg/g	1.6	<0.020	<0.020	<0.020	<0.020	-	<0.020	-	<0.020	-	<0.020	<0.020	-	<0.020
Xylenes, Total	µg/g	25	<0.040	<0.040	<0.040	<0.040	-	<0.040	-	<0.040	-	<0.040	<0.040	-	<0.040
PHC F1 (C6-C10 range) minus BTEX (calc)	µg/g	65	-	<10	-	<10	<10	<10	-	<10	-	<10	<10	-	<10
PHC F2 (>C10-C16 range)	µg/g	150	-	<10	-	-	<10	<10	-	<10	-	-	<10	-	<10
PHC F3 (>C16-C34 range)	µg/g	1300	-	<50	-	-	<50	<50	-	<50	-	-	<50	-	<50
PHC F4 (>C34-C50 range)	µg/g	5600	-	<50	-	-	<50	<50	-	<50	-	-	<50	-	<50
Chromatogram to baseline at nC50	µg/g	NV	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals															
Antimony	µg/g	7.5	-	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	-	-	<0.20	-	<0.20
Arsenic	µg/g	18	-	<1.0	<1.0	-	<1.0	<1.0	-	2.3	-	-	1.1	-	1.8
Barium	µg/g	390	-	3.7	3	-	4.8	5.2	-	7.5	-	-	6	-	8.1
Beryllium	µg/g	5	-	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	-	-	<0.20	-	<0.20
Boron (Hot Water Soluble)	µg/g	1.5	-	0.12	-	-	0.15	0.13	-	0.11	0.11	-	0.16	-	0.1
Cadmium	µg/g	1.2	-	<0.10	<0.10	-	<0.10	<0.10	-	<0.10	-	-	<0.10	-	<0.10
Chromium	µg/g	160	-	1.7	1.8	-	2.1	2.5	-	3.7	-	-	2.8	-	3.1
Chromium VI	µg/g	10	-	<0.2	-	-	<0.2	<0.2	-	<0.2	-	-	<0.2	-	<0.2
Cobalt	µg/g	22	-	0.44	0.47	-	0.8	0.63	-	1.6	-	-	1	-	1.2
Copper	µg/g	180	-	1.2	1.7	-	1.8	1.8	-	3.8	-	-	2.3	-	3
Lead	µg/g	120	-	2.4	2.4	-	3.4	3.5	-	7	-	-	3.9	-	5.3
Mercury	µg/g	1.8	-	<0.050	<0.050	-	<0.050	<0.050	-	<0.050	-	-	<0.050	-	<0.050
Molybdenum	µg/g	6.9	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	-	-	<0.50	-	<0.50
Nickel	µg/g	130	-	1.3	1.3	-	1.9	1.6	-	4	-	-	2.4	-	2.8
Selenium	µg/g	2.4	-	<0.50	<0.50	-	<0.50	<0.50	-	<0.50	-	-	<0.50	-	<0.50
Silver	µg/g	25	-	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	-	-	<0.20	-	<0.20
Thallium	µg/g	1	-	0.17	<0.050	-	<0.050	<0.050	-	0.058	-	-	<0.050	-	<0.050
Vanadium	µg/g	86	-	<5.0	<5.0	-	<5.0	<5.0	-	<5.0	-	-	<5.0	-	<5.0
Zinc	µg/g	340	-	<5.0	<5.0	-	6.1	6.1	-	12	-	-	7.4	-	11
pH (pH Units)	pH	NV	8.54	8.53	-	-	8.53	8.27	-	8.41	-	-	8.4	-	8.46
Conductivity (ms/cm)	mS/cm	0.7	-	0.27	0.28	-	0.33	0.35	-	0.17	-	-	0.51	0.53	0.13
Sodium Adsorption Ratio	N/A	5	-	0.44	-	-	0.55	0.41	-	0.27	-	-	0.61	-	0.3
Cyanide, Free	µg/g	0.051	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	-	-	<0.01	-	<0.01
Chloride	-	NV	-	-	-	-	-		-	-	-	-	-	-	-
Boron (Total)	µg/g	120	-	6	5.8	-	6.1	<5.0	-	6.5	-	-	6.7	-	5.9
Uranium	µg/g	23	-	0.077	0.079	-	0.09	0.088	-	0.096	-	-	0.081	-	0.11

Notes:

O.Reg 153/04	*Soil, Ground Water and Sediment Standards for use under Part XV.I of the Environmental Protection Act* (MOE, 2011) MOE Table 2 Site Condition Standards - Residential/Parkland/Institutional Property Use - Medium to Fine Textured Soils
6.5	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standard.
< 0.50	Laboratory reportable detection limit exceeded standard.
< 0.03	The analyte was not detected at a concentration greater than the laboratory reportable detection limit.
NV	No standard/guideline value.
-	Parameter not analyzed / not available.

This table is to be viewed in context of the report: " Off-property Remediation Report, Grand Valley Distribution Station, Adjacent South Property" and is subject to the limitations specified in that report.

Table 3
Summary of Imported Topsoil Results
Adjacent Property To The South
Grand Valley DS
Hydro One Networks Inc.

Material Type			TOPSOIL	
Sample Location			ADAMS LANDSCAPING	
Sample Date			21-May-2014	21-May-2014
Sample ID			GRVS21514DTOPSOIL	GRVS21514DTRIPBLANK
Laboratory			Maxxam	Maxxam
Laboratory Work Order			B483663	B483663
Laboratory Sample ID			VZ1935	VZ1936
Sample Type	Units	O.Reg 153/04		
Metals				
Antimony	µg/g	7.5	<0.20	-
Arsenic	µg/g	18	2.6	-
Barium	µg/g	390	36	-
Beryllium	µg/g	5	0.32	-
Boron (Hot Water Soluble)	µg/g	1.5	0.15	-
Cadmium	µg/g	1.2	0.29	-
Chromium	µg/g	160	9.8	-
Chromium VI	µg/g	10	<0.2	-
Cobalt	µg/g	22	3.5	-
Copper	µg/g	180	10	-
Lead	µg/g	120	15	-
Mercury	µg/g	1.8	<0.050	-
Molybdenum	µg/g	6.9	<0.50	-
Nickel	µg/g	130	6.6	-
Selenium	µg/g	2.4	<0.50	-
Silver	µg/g	25	<0.20	-
Thallium	µg/g	1	0.069	-
Vanadium	µg/g	86	16	-
Zinc	µg/g	340	55	-
pH (pH Units)	pH	NV	7.2	-
Conductivity (ms/cm)	mS/cm	0.7	0.16	-
Sodium Adsorption Ratio	N/A	5	0.27	-
Cyanide, Free	µg/g	0.051	0.01	-
Chloride	-	NV	-	-
Boron (Total)	µg/g	120	<5.0	-
Uranium	µg/g	23	0.29	-
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	µg/g	29	<0.0050	-
Acenaphthylene	µg/g	0.17	<0.0050	-
Anthracene	µg/g	0.74	<0.0050	-
Benzo(a)anthracene	µg/g	0.63	<0.0050	-
Benzo(a)pyrene	µg/g	0.3	<0.0050	-
Benzo(b/j)fluoranthene	µg/g	0.78	<0.0050	-
Benzo(ghi)perylene	µg/g	7.8	<0.0050	-
Benzo(k)fluoranthene	µg/g	0.78	<0.0050	-
Chrysene	µg/g	7.8	<0.0050	-
Dibenzo(a,h)anthracene	µg/g	0.1	<0.0050	-
Fluoranthene	µg/g	0.69	<0.0050	-
Fluorene	µg/g	69	<0.0050	-
Indeno(1,2,3-cd)pyrene	µg/g	0.48	<0.0050	-
1-Methylnaphthalene (SEE FOOTNO	µg/g	3.4	<0.0050	-
2-Methylnaphthalene (SEE FOOTNO	µg/g	3.4	<0.0050	-
Naphthalene	µg/g	0.75	<0.0050	-
Phenanthrene	µg/g	7.8	<0.0050	-
Pyrene	µg/g	78	<0.0050	-
Volatile Organic Compounds				
Acetone	µg/g	28	<0.50	<0.50
Benzene	µg/g	0.17	<0.020	<0.020
Bromodichloromethane	µg/g	1.9	<0.050	<0.050
Bromoform	µg/g	0.26	<0.050	<0.050
Bromomethane	µg/g	0.05	<0.050	<0.050
Carbon Tetrachloride	µg/g	0.12	<0.050	<0.050
Chlorobenzene	µg/g	2.7	<0.050	<0.050
Chloroform	µg/g	0.17	<0.050	<0.050
Dibromochloromethane	µg/g	2.9	<0.050	<0.050
1,2-Dichlorobenzene	µg/g	1.7	<0.050	<0.050
1,3-Dichlorobenzene	µg/g	6	<0.050	<0.050
1,4-Dichlorobenzene	µg/g	0.097	<0.050	<0.050
1,1-Dichloroethane	µg/g	0.6	<0.050	<0.050
1,2-Dichloroethane	µg/g	0.05	<0.050	<0.050
1,1-Dichloroethylene	µg/g	0.05	<0.050	<0.050
Cis-1,2-Dichloroethylene	µg/g	2.5	<0.050	<0.050
Trans-1,2-Dichloroethylene	µg/g	0.75	<0.050	<0.050
1,2-Dichloropropane	µg/g	0.085	<0.050	<0.050
Cis-1,3-Dichloropropylene	µg/g	0.081	<0.030	<0.030
Trans-1,3-Dichloropropylene	µg/g	0.081	<0.040	<0.040
Ethylbenzene	µg/g	1.6	<0.020	<0.020
Ethylene Dibromide	µg/g	0.05	<0.050	<0.050
Methyl Ethyl Ketone	µg/g	44	<0.50	<0.50
Methylene Chloride	µg/g	0.96	<0.050	<0.050
Methyl Isobutyl Ketone	µg/g	4.3	<0.50	<0.50
Methyl-t-Butyl Ether	µg/g	1.4	<0.050	<0.050
Styrene	µg/g	2.2	<0.050	<0.050
1,1,1,2-Tetrachloroethane	µg/g	0.05	<0.050	<0.050
1,1,2,2-Tetrachloroethane	µg/g	0.05	<0.050	<0.050
Toluene	µg/g	6	<0.020	<0.020
Tetrachloroethylene	µg/g	2.3	<0.050	<0.050
1,1,1-Trichloroethane	µg/g	3.4	<0.050	<0.050
1,1,2-Trichloroethane	µg/g	0.05	<0.050	<0.050
Trichloroethylene	µg/g	0.52	<0.050	<0.050
Vinyl Chloride	µg/g	0.022	<0.020	<0.020
Total Xylenes	µg/g	25	<0.020	<0.020
Dichlorodifluoromethane	µg/g	25	<0.050	<0.050
Dioxane, 1,4-	µg/g	1.8	-	-
Hexane(n)	µg/g	34	<0.050	<0.050
Trichlorofluoromethane	µg/g	5.8	<0.050	<0.050

Notes:

O.Reg 153/04 *Soil, Ground Water and Sediment Standards for use under Part XV.I of the Environmental Protection Act* (MOE, 2011) MOE Table 2 Site Condition Standards - Residential/Parkland/Institutional Property Use - medium Fine Textured Soils

6.5	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standard.
< 0.50	Laboratory reportable detection limit exceeded standard.
< 0.03	The analyte was not detected at a concentration greater than the laboratory reportable detection limit.
NV	No standard/guideline value.
-	Parameter not analyzed / not available.

This table is to be viewed in context of the report: " Off-property Remediation Report, Grand Valley Distribtution Station, Adjacent South Property" and is subject to the limitations specified in that report.

APPENDIX A

Limitations

Stantec

Limitations

This report documents the remedial activities conducted by Hydro One on the identified portion of the property. This report also provides an evaluation of the test results obtained by Hydro One and provided to Stantec pertaining to the chemical analyses of soil associated with said property.

All information received from Hydro One or third parties in the preparation of this report has been assumed by Stantec to be correct, and Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the identified portion of the property that was assessed at the time the work was conducted. Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report, and are based solely on the scope of work described in the report, the data available and the results of the work. They are not a certification of the entire property's environmental condition.

This report has been prepared for the exclusive use of the client identified herein. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.