

Sheppard Pharmacy GP Inc. c/o

Cope Project Management Corporation

GEOTECHNICAL INVESTIGATION

2993-3011 Sheppard Avenue East and

1800-1814 Pharmacy Avenue, Toronto, Ontario

March 27, 2019

102934-000

GEOTECHNICAL INVESTIGATION 2993-3011 Sheppard Avenue East and 1800-1814 Pharmacy Avenue, Toronto, Ontario



GEOTECHNICAL INVESTIGATION

2993-3011 Sheppard Avenue East and 1800-1814 Pharmacy Avenue Toronto, Ontario

Prepared for:
Sheppard Pharmacy GP Inc.
150 Connie Crescent, Unit 4
Concord, Ontario L4K 1L9

c/o

Cope Project Management Corporation 457A Danforth Avenue Toronto, Ontario M4K 1P1

Prepared by:
Arcadis Canada Inc.
121 Granton Drive, Suite 12
Richmond Hill, Ontario L4B 3N4
Tel 905 764 9380

Our Ref.: 102934-000

Date:

March 27, 2019

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

GEOTECHNICAL INVESTIGATION 2993-3011 Sheppard Avenue East and 1800-1814 Pharmacy Avenue, Toronto, Ontario

CONTENTS

1	INTE	RODUCTION	1-1
	1.1	Previous Investigations	1-1
2	SITE	E CONDITIONS	2-1
3	FIEL	LD INVESTIGATION	3-1
	3.1	Preparatory Work	3-1
	3.2	Field Work	3-1
	3.3	Summarized Subsurface Conditions	3-1
		3.3.1 Fill Soils	3-2
		3.3.2 Native Soils	3-2
		3.3.3 Bedrock	3-3
		3.3.4 Groundwater Conditions	3-3
4	DISC	CUSSION AND RECOMMENDATIONS	4-1
	4.1	Foundation Design	4-1
	4.2	Frost Protection	4-1
	4.3	Earthquake Load and Effects (i.e. Seismic 'Site Classification')	4-1
	4.4	Basement Walls	4-1
	4.5	Utility Construction	4-3
	4.6	Slabs-on-Grade	4-3
	4.7	Temporary Excavations	4-3
	4.8	Pavements	4-3
	4.9	Groundwater Considerations	4-4
	4.10	Winter Construction	4-5
	4.11	Geotechnical Review	4-5
	4.12	Construction Supervision	4-5
5	USE	AND LIMITATIONS OF THIS GEOTECHNICAL INVESTIGATION REPORT	5-1

APPENDICES

Appendix A Figures

Appendix B Borehole Logs

1 INTRODUCTION

Arcadis Canada Inc. (Arcadis) was retained by Sheppard Pharmacy GP Inc. (the Client) to complete a geotechnical investigation for a mixed use building to be built at the southwest corner of Sheppard Avenue East and Pharmacy Avenue in Toronto, Ontario. The location and general layout of the site are shown on Figures 1 and 2 provided in Appendix A.

It is understood that the Client proposes to construct a mixed use building at the site. It is understood that the proposed building will be 18 storeys in height and will have up to three levels of underground parking and will cover most of the property.

The purpose of the geotechnical investigation was to determine subsurface conditions at the site and to provide comments and recommendations to guide the design and construction of foundations and subsurface elements of the proposed development, from a geotechnical perspective.

1.1 Previous Investigations

The following reports were made available to Arcadis to review:

- Draft Phase II Environmental Site Assessment, 2992-3011 Sheppard Avenue East, Toronto, ON, prepared by Pinchin Ltd., dated December 12, 2014;
- Draft Report, Supplementary Subsurface Investigation, 3005 Sheppard Avenue East, Toronto, Ontario, prepared by Hemmera Envirochem Inc., dated September 2015; and,
- Limited Phase II Environmental Site Assessment at Sheppard and Pharmacy, Toronto, Ontario, prepared by XCG Consulting Limited, dated November 8, 2017.

2 SITE CONDITIONS

The site is located at the southwest corner of Sheppard Avenue East and Pharmacy Avenue in Toronto, Ontario. The site covers approximately 0.7 ha. The general layout of the site is shown on Figure 2 in Appendix A.

The site consists of two parcels. The parcel on the northern portion of the site, with a municipal address of 2993-3011 Sheppard Avenue East, has been developed as a multi-tenant commercial building with a single basement. The eastern portion of the building is a two storey structure while the balance of the building is only a single storey. The parcel on the southern portion of the site, with a municipal address of 1800-1814 Pharmacy Avenue, has been developed as a one storey commercial building which is of slab-on-grade construction, and is occupied by various commercial tenants.

The site is relatively flat with a gentle slope down to the southwest, and outside of the buildings' footprints is mostly paved.

3 FIELD INVESTIGATION

3.1 Preparatory Work

The boreholes that were completed during the current investigation were laid out in the field with respect to existing features such as the existing on site buildings. Prior to drilling, Arcadis arranged for the locations of the boreholes to be cleared of interference with utilities and underground plant. A site specific Health and Safety Plan was prepared for the work and a copy of the HASP was kept on site during field activities.

3.2 Field Work

The boreholes were drilled between 6 and 8 and 12 and 15 March 2019 at the locations shown on Figure 2 in Appendix A. Fourteen boreholes in total were drilled (BH/MW19-1A/B to 12) with boreholes BH/MW19-1B to 4 drilled principally for geotechnical investigation purposes. The balance of the boreholes was drilled for either environmental or hydrogeological purposes.

Boreholes BH/MW 19-1B to 4 were drilled using an auger rig supplied and operated by GeoEnvironmental Drilling while boreholes BH/MW 19-1A and 19-5 to 12 were drilled by Strata Drilling group using a Geoprobe 7822DT rig. Ground surface elevations at monitoring well locations were determined relative to Geodetic datum. All boreholes were completed under the supervision of an Arcadis representative. Boreholes BH/MWs 19-1A/B to 8 were completed as groundwater monitoring wells.

Sampling in boreholes BH/MW 19-1B to 4 was carried out using a 50 mm diameter split-spoon sampler in conjunction with the Standard Penetration Test. Standard Penetration Tests (SPTs) were conducted in these boreholes in conjunction with split spoon sampling with the resulting 'N' values recorded on the borehole logs. The 'N' value refers to the number of blows required to drive a split-spoon sampler 300 mm into the soil after an initial 150 mm penetration using a 63.5 kg hammer free falling from a height of 760 mm.

Sampling in all other boreholes was completed using direct push methodologies, with samples recovered in clear plastic tubes.

The recovered samples were logged in the field for foreign matter, colour, texture and degree of saturation. Borehole logs are provided in Appendix B.

3.3 Summarized Subsurface Conditions

A summary of the subsurface conditions encountered in the boreholes is presented in the following paragraphs. The locations of the boreholes are shown on Figure 2 in Appendix A. The logs of the boreholes are provided in Appendix B. The reader is cautioned that conditions between and beyond boreholes may vary.

2993-3011 Sheppard Avenue East and 1800-1814 Pharmacy Avenue, Toronto, Ontario

Laboratory testing of recovered soil samples was completed (moisture contents), The results of this testing are provided on the borehole logs.

3.3.1 Fill Soils

Fill soils were encountered beneath an asphalt pavement in all boreholes. Generally, the fill material comprised sands and gravels. Fill soils extended to a depth below ground surface (bgs) ranging from 0.30 to 1.83 m bgs. A single 'N' value obtained during sampling in BH/MW 19-1B was 11.

3.3.2 Native Soils

The native soils at the site comprised multiple layers of silty sand to silt and clayey silts to the maximum investigated depth of 21.95 m.

3.3.2.1 Upper Clayey Silt to Silty Clay

The fill layer was underlain in boreholes BH/MW 19-1A/1B, 4 and 7 and beneath an upper silt layer in borehole BH/MW 5A/B at a depth of 0.76 m bgs by a layer of clayey silt to silty clay at depths ranging from 0.76 to 2.29 m bgs. This layer was observed to extend to depths ranging from 2.29 to 3.81 m bgs.

Standard Penetration Test 'N' values obtained during sampling ranged from 5 to 22, suggesting a firm to very stiff consistency.

3.3.2.2 Upper Silt

Beneath the fill layer in boreholes BH/MW 5A/B, 6 and 8 at a depth of 0.30 m bgs was a layer of silt that extended to depths ranging from 0.76 to 1.83 m bgs.

3.3.2.3 Silt to Silty Sand

All boreholes encountered a stratum of silt to silty sand beneath the upper silt and clayey silt layers. This is the principal soil unit at the site. This stratum was observed to extend to depths ranging from 15.24 to 21.34 m bgs.

Standard Penetration Test 'N' values obtained during sampling above a depth of about 12 m ranged from 7 to in excess of 50, indicating a loose to very dense state of relative density. Generally, the 'N' values exceeded 30, indicating an overall dense to very dense state of relative density. Below a depth of about 12 m the 'N' values ranged from 4 to 24 indicating a loose to compact state of relative density.

3.3.2.4 Lower Silty Clay to Clayey Silt

Boreholes BH/MW 19-1B, 3 and 4 encountered a lower layer of silty clay to clayey silt beneath the silt to silty sand stratum at depths ranging from 13.72 to 21.24 m bgs. This layer was observed to extend to a

GEOTECHNICAL INVESTIGATION

2993-3011 Sheppard Avenue East and 1800-1814 Pharmacy Avenue, Toronto, Ontario

depth of 15.24 m bgs in borehole BH/MW 19-3 and boreholes BH/MW 19-1B and 4 were terminated in this layer at depths of 18.90 and 21.95 m bgs, respectively.

Standard Penetration Test 'N' values obtained during sampling ranged from 5 to 16, suggesting a firm to very stiff consistency.

3.3.3 Bedrock

Bedrock was not encountered in any of the boreholes drilled on the site.

3.3.4 Groundwater Conditions

Groundwater monitoring wells were installed in boreholes BH/MW 19-1 to 8. Water levels were measured on March 21, 2019 and ranged from 1.09 to 13.03 m bgs. The deeper groundwater levels were measured in wells with screens sealed at depth, while the shallower water levels were measured in wells installed at shallower depths.

The hydrogeological conditions at the site are reported on in depth under separate cover.

4 DISCUSSION AND RECOMMENDATIONS

It is understood that it is proposed to redevelop the site with a mixed building 18 storeys in height. It is further understood that the proposed building may include up to three levels of underground parking, and that the building will cover most of the property.

On the basis of the subsurface conditions determined by the current investigation, our comments and recommendations from a geotechnical perspective are provided in the following sections.

4.1 Foundation Design

The mass excavation for three levels of underground parking will be approximately 9 to 10 m in depth, and is expected to expose a surface of the dense silt to silty sand stratum. The foundations of the proposed building may be designed as shallow foundations bearing on an undisturbed surface of the dense silt to silty sand stratum, at elevations between 166 and 168 m asl, with a bearing capacity at SLS of 300 kPa, and at ULS of 450 kPa. Total and differential settlements of properly constructed foundations are anticipated to be less than 25 mm and 20 mm, respectively.

It should be noted that the silt to silty sand stratum is susceptible to disturbance from construction activities, and it is important that the exposed foundation surfaces be protected against disturbance.

4.2 Frost Protection

Equivalent thermal insulation of 1.2 m of earth-cover is required for exterior foundations, or any part of the subgrade of the building exposed to freezing conditions, to protect against frost damage.

4.3 Earthquake Load and Effects (i.e. Seismic 'Site Classification')

In accordance with Table 4.1.8.4.A (i.e. 'Site Classification for Seismic Site Response') of the 2012 Ontario Building Code, the soil/ground conditions at this site, in our opinion, may be classified as 'Site Class D' [i.e. Stiff Soil].

4.4 Basement Walls

Basement walls should be designed to resist lateral earth pressures of retained soils. The parameters used in the determination of unbalanced earth pressures are defined as:

Parameter	Definition I	Units
φ	internal angle of friction	degrees
γ	bulk unit weight of soil	kN/ m³
Ka	active earth pressure coefficient (Rankin)	dimensionless
Ko	at-rest earth pressure coefficient (Rankin)	dimensionless
Kp	passive earth pressure coefficient (Rankin)	dimensionless

The appropriate values for use in the design of structures subject to unbalanced earth pressures at this site are tabulated as follows:

Soil	φ	γ (kN/m³)	Ka	Ko	Kp
Fill: Sand and Gravel/Silty Clay	30	20	0.33	0.50	3.00
Upper Clayey Silt to Silty Clay	30	20	0.33	0.50	3.00
Upper Silt	30	20	0.33	0.50	3.00
Dense Silt to Silty Sand	32	21	0.31	0.47	3.26
Lower Silty Clay to Clayey Silt	30	20	0.33	0.50	3.00

Walls subject to unbalanced earth pressures must be designed to resist a pressure that can be calculated based on the following equation:

$$P = K \left[\gamma \left(h - h_{w} \right) + \gamma' h_{w} + q \right] + \gamma_{w} h_{w}$$

where:

P = the horizontal pressure at depth, h (m)

K = the earth pressure coefficient,

 h_w = the depth below the groundwater level (m)

y = the bulk unit weight of soil, (kN/m^3)

 γ' = the submerged unit weight of the exterior soil, (γ - 9.8 kN/m³)

q = the surcharge loading (kPa)

Where the wall backfill can be drained effectively to eliminate hydrostatic pressures on the wall, acting in conjunction with the earth pressure, this equation can be simplified to:

$$P = K \left[\gamma h + q \right]$$

The building should therefore be provided with a perimeter drainage system. The water level at the site should be taken as 1.0 m bgs.

Resistance to sliding of earth retaining structures is developed by friction between the base of the footing and the silt to silty sand stratum. This friction, R, depends on the normal load on the supporting contact (N) and the frictional resistance of the silt to silty sand stratum (tan ϕ) expressed as: R = N tan ϕ . This is an ultimate resistance value. The factored resistance at ULS is expressed as: Rf = 0.8 N tan ϕ .

4.5 Utility Construction

Pipe bedding and backfill materials should be constructed with at least 150 mm thickness of OPSS Granular A beneath sewer and water pipes. The bedding should not extend above the spring line of the pipe. Cover material, from the spring line to at least 300 mm above the obvert of pipe should also consist of OPSS Granular A. Bedding and cover materials are to be placed in a maximum 225 mm lift thickness and compacted to a minimum of 95% of the material's Standard Proctor Maximum Dry Density (SPMDD).

4.6 Slabs-on-Grade

The excavation for three basement levels is expected to expose the silt to silty sand stratum which is suitable to support the basement slab on grade. The exposed surface should be inspected and proof rolled to identify soft spots, which should be repaired with well compacted granular soils. A minimum of 200 mm thick layer of Granular 'A' [or equivalent] aggregate should be placed below the underside of the concrete floor slab and compacted to 100% SPMDD.

4.7 Temporary Excavations

Foundation and basement excavations that are carried out in open cut must comply with O.Reg 213/91, as amended. Fill soils would be classified as a Type 3 soil. The native soil strata would be considered as Type 2 soils. If excavations are carried out in open cut without control of groundwater, seepage forces through saturated cohesionless soil layers would likely result in slumping of the exposed slopes to flat angles, perhaps 3H:1V, or even flatter.

Lateral earth pressures on temporary shoring may be calculated using the parameters provided in Section 4.4. Lateral earth pressures may be resisted using earth anchors, and the design of earth anchors should comply with Section 26.12.4.1 of the 4th edition of the Canadian Foundation Engineering Manual. It is recommended that at least 1% of the earth anchors to be installed be 'design' anchors and load tested to 200% of the design anchor load. All production anchors should be load tested to 133% of the design anchor load.

If earth anchors cannot be utilized, lateral earth pressures may be resisted using rakers, with the foundations of the rakers designed following the recommendations provided in Section 4.1.

4.8 Pavements

Most of the proposed building will extend to the property lines, except along the southern perimeter where access will be provided to the building's loading area and to the ramp leading down to the underground parking levels.

The access driveway may be constructed as per the following:

	Light Traffic (e.g. cars)	Heavier Traffic (e.g. trucks)
Asphalt HL3/8	75 mm	100 mm
Base (Gran A)	150 mm	150 mm
Subbase (Gran B, Type II)	300 mm	450 mm

Preparation of the access roadway surface will involve removal of existing topsoil and all foreign or deleterious materials. The exposed subgrade should be proof rolled with heavy compaction plant to identify soft spots which should be excavated and replaced with well compacted granular fill.

The wearing course should consist of 25 mm of HL3 while the binder course should consist of HL8. Asphalt courses should be compacted to at least 97% of their Marshall density. Base and subbase courses should be placed in loose lifts no thicker than 300 mm and compacted to not less than 100% of their Standard Proctor Dry Density Value.

4.9 Groundwater Considerations

Groundwater was measured at depths ranging from 1.09 to 13.03 m bgs. Groundwater infiltration to excavations should be anticipated below a depth of 1.0 m bgs. Installation of temporary shoring using soldier piles and timber lagging may require advance dewatering to allow installation of the lagging. Dewatering of the excavation may also be required to guard against basal heave so as to allow for construction of foundations and slabs on grade. Design of dewatering programs is outside of the scope of this geotechnical investigation, and the reader is referred to the report of the hydrogeological study for the site, which is provided under separate cover. Groundwater that reports to excavations discharging to the municipal sewer system will likely require a permit from the City, and a Permit to Take Water from the MECP if the quantity exceeds 400,000 L/day.

Groundwater is expected to impinge on the permanent basement walls of the proposed building, where up to 3 levels (~10 m bgs) of underground parking are anticipated. The exterior of basement walls should be provided with full face drainage panels, with the collected groundwater reporting to interior sumps. A system of perforated drainage pipes should be installed at maximum 6 m spacing in the crushed stone vapour barrier layer beneath the basement slab on grade, with collected groundwater also reporting to interior sumps, for discharge to the municipal sewer system. For the quantity of groundwater that will report to the permanent dewatering systems of the proposed building the reader is referred to the hydrogeological study for the site, provided under separate cover. Groundwater that reports to the interior sumps post construction that discharges to the municipal sewer system will likely require a permit from the City, and a Permit to Take Water from the MECP if the quantity exceeds 50,000 L/day.

4.10 Winter Construction

Precautions must be taken if winter construction is considered for this project. The subsoil conditions at this site consist of frost susceptible materials (sandy silts to silts to silty clay). In the presence of water and freezing conditions, ice lenses could form within the soil mass. Heaving and settlement upon thawing could occur.

In the event of construction during below zero temperatures, the founding stratum should be protected from freezing temperatures by the use of straw, propane heaters and tarpaulins or other suitable means. In this regard, the base of the excavations should be protected from sub-zero temperatures immediately upon exposure and until such time as heat is adequately supplied to the building and the foundation is protected with sufficient soil cover to prevent freezing at founding level.

Trench excavations and slab-on-grade construction are also difficult activities to complete during freezing conditions without introducing frost in the sub-grade or in the excavation walls and bottoms. Precautions should be taken if such activities are to be carried out during freezing conditions.

4.11 Geotechnical Review

The geotechnical recommendations provided herein to assist foundation and building design should be reviewed by Arcadis prior to construction to assess their applicability to the proposed structures and final construction design drawings. Site-specific foundation design recommendations may be required for components of the proposed structures. Construction design drawings should be reviewed by the geotechnical engineer to confirm that the guidelines presented in this geotechnical investigation report have been interpreted as intended.

4.12 Construction Supervision

Redevelopment of the subject property will require movement of a variety of soil types. It is recommended that a qualified geotechnical engineer be retained to inspect and approve the subgrade prior to placement of building foundations. Geotechnical supervision should also be provided to ensure that engineered fills placed beneath floor slab areas and pavements are properly compacted. The qualified geotechnical field engineer should also provide compaction control and field density testing as well as inspection of the condition of any unsupported excavation slopes, if required. Sampling and testing of concrete and fill materials is recommended.

5 USE AND LIMITATIONS OF THIS GEOTECHNICAL INVESTIGATION REPORT

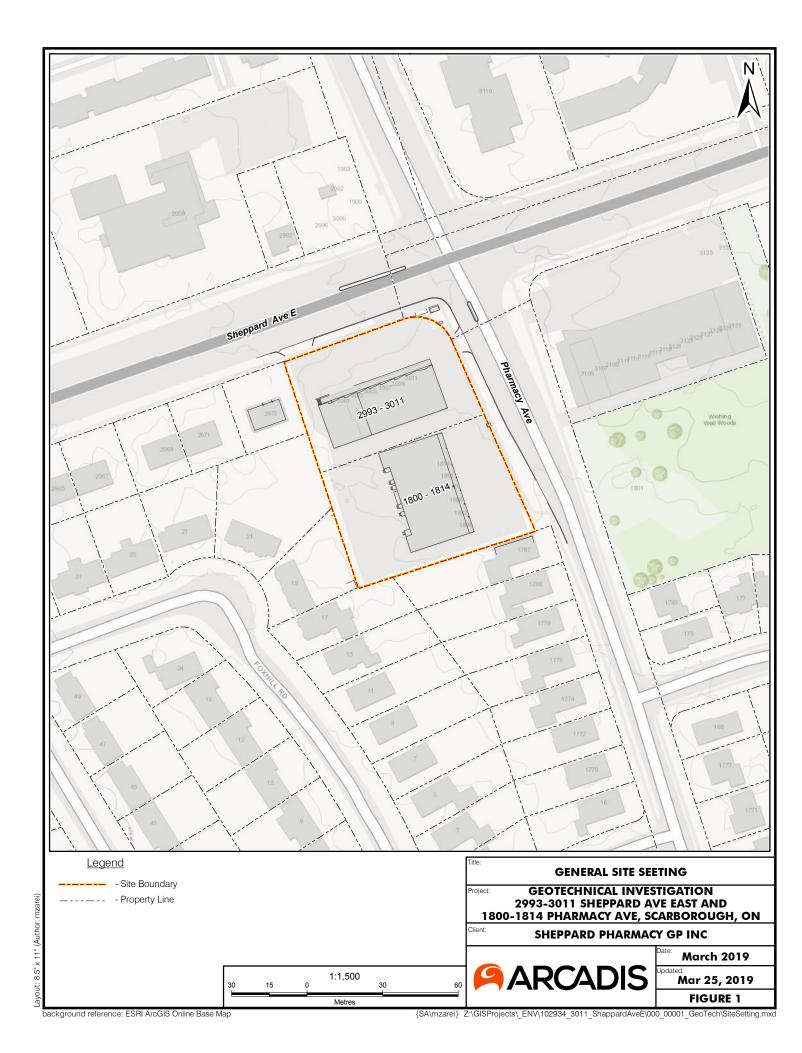
The conclusions and recommendations presented in this geotechnical investigation report are based on the information determined at the borehole locations. The information contained within this report in no way reflects the environmental aspect of the site or soil, unless specifically reported upon. Subsurface soil and groundwater conditions between and beyond the test locations may differ from those encountered at the specific locations tested, and conditions may be encountered during construction which were not detected and could not be anticipated at the time of the site investigation. It is recommended that Arcadis be retained during construction to confirm that the subsurface conditions throughout the site do not differ materially from those conditions encountered at the test locations. Any benchmark and ground surface elevations in this report were used to establish relative elevation differences between the test locations and should not be used for other purposes, such as grading, excavating, planning, development, etc.

The design recommendations provided in this report are applicable only to the project described in the text and then only if constructed substantially in accordance with the details stated in this report. Since all details of the design may not have been available at the time this report was prepared, it is recommended that Arcadis be retained during future stages of the design process to verify that the design is consistent with the recommendations of this report, and that the assumptions made in the analyses contained in this report are still valid.

The comments given in this report on potential construction problems and possible methods of construction are intended only for the guidance of the designer. The number of boreholes may not be sufficient to determine all of the factors that may affect construction methods and costs (e.g., the thickness of surficial topsoil and fill layers can vary markedly and unpredictably). Contractors bidding on the project or undertaking the construction should, therefore, make their own interpretations of the factual information in this report and draw their own conclusions as to how the subsurface conditions may affect their bid or work. Furthermore, this report was prepared by Arcadis for Sheppard Pharmacy GP Inc. Cope Project Management Corporation may rely on the contents of this geotechnical investigation report. Arcadis accepts no liability, whether in negligence, contract or arising on any other basis for damages or from indemnification arising from decisions or actions by other based on this report.

APPENDIX A

Figures





APPENDIX B

Borehole Logs

Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000 Boring date: 2019-3-6 Supervised by: H. Saeed												Bor	ehole:	BH/N	ИW	19-1A
	_	2019-3-6			-							Moi	nitoring W	ell:	Ins	stalled
Bor	ehole Loc	ation: 3005 S	Sheppard Ave East, 1800	Phar	mac	y A	ve						intering			,
Dri	ller:	Strata Drilling (Group										\$	Sheet	1 of	f 1
Dri	lling Meth	od: Geoprobe	e 7822DT - Direct Push													
		Str	atigraphy				S	am	ples				Headspac	e TOV (p	ppm)	
Scale (m)	Elev. (m) Depth	Γ	Description	lod		er Level	Sample Type and Number	dition	vs/ nm	% Recovery		ur	Headspac	e TOV(%	0	Remarks and Sample Analyses
	(m)	Ground Sur	face Elevation:179.25m	Symbol	Well	Water L	Sam Type Nun	Con	Blows/300mm	% R	RQD	Odour	△ Water C			
_	179.15 0.10	ASPHALT - 100 m -Borehole Augered t BH19-1B	m o 4 m - Lithology assumed as			Ç										
_			D (FILL), brown, dry to moist,													
- -1	178.49 0.76	SILTY CLAY (NA some grey mottling	TIVE), dark brown, moist, , soft													
-		-becomes clayey silt. @ 1.52 m	, moist to wet, trace gravel, firm													
-2 - - - -	176.96 2.29	dense	trace gravel, dense to very on from 2.29 to 3.81 m													
- - - - -	175.25	3.81 m	st, orange-brown oxidation @													Groundwater
-	4.00	End of Borehole @ Water Level @ 3.10 Mar. 2019	4.00 m 5 m bgs (el. 176.144) on 21													Analyzed for: Metals, PAHs, PHCs, PCBs, VOCs
- -5																
_																
-																
_																
ODO			Prepared by: J. Gri	it										- : - :		
	Trace		Checked by: B.H.C											• 🗚		10
S -	Moderate Strong		-				_		7		7	_	?()			DIS
VS-	Very Stror	ng	Date:19-3-2	6			_				7	1			L	

Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000												Bore	ehole: BH/MV	V19-1B
Bo	ring date:	2019-3-12		Supervise	ed by:	<u>H.</u>	Saeed	l					· · · · · · · · · · · · · · · · · · ·	4-III
Bo	rehole Loc	ation:3005 S	Sheppard Ave East, 18	800 Pha	rma	cy A	ve					Moi	nitoring Well:In	istaned
Dri	ller:	Geo-Environme	ntal Drillilng Inc.										Sheet 1 o	of 4
Dri	lling Meth	od: <u>CME 75</u>	Truckmount w/ HSA											
		Str	atigraphy				S	am	ples		'		Headspace TOV (ppm) 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)		Description	Symbol	Well	Details Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	☐ Headspace TOV(%LEL) 20 40 60 80 ☐ ☐ ☐ ☐ ☐ △ Water Content (%)	Remarks and Sample Analyses
	179.21	Ground Sur: ASPHALT - 100 m	face Elevation:179.31m	S	≥ A		SS-1	Ü	3 B	% 17	R	N	20 40 60 80	
	0.10		D (FILL), brown, dry to mois	st,		Y	33-1		6 5 3	17		14		
1	178.55 0.76	SILTY CLAY (NA some grey mottling	TIVE), dark brown, moist, , soft				SS-2		2 2 2 3	50		N	2 46	Analyses: Metals, PAHs, PHCs, PCBs, pH
		-becomes clayey silt. @ 1.52 m	moist to wet, trace gravel, fin	rm			SS-3		2 3 5 11	88		N	⊕∆ _{1,3}	
	177.02 2.29	dense	trace gravel, dense to very on from 2.29 to 3.81 m				SS-4		7 12 18 30	92		N	æ _{ð.9}	
-3							SS-5		16 12 24 50/ 75 mm	86		N	2 8.2	Analyses: Metals, PAHs, PCBs, pH
· 4		-gravel in mouth of s -becomes dry to moi -orange-brown oxida					SS-6		26 50/ 25 mn	100		N	Pa.8	Analyses: PHCs, VOCs
							SS-7		40 50/ 75 mm	67		N	Ð4 <u>.6</u>	
		-gravel @ 5.18 m -becomes grey, trace	sand @ 5.33 m				SS-8		26 50/ 100 mm	80		N e	₽4.9	
ODO	UR:	Continued	n *	. • 6.				-					L	1
N -	None Trace		Prepared by:				-			_				
	Moderate Strong		-	.Cooke			_		9		7		CAI	フロ
	Very Stror	ıg	Date:	3-26							1	1		ノ ロ

Proj	ject:	Sheppard Pharmacy GP Inc.		Con	tract	No: 1	0293	34-000			Bor	rehole: BH/MW19-1B
Bor	ing date:	2019-3-12	Supervised	by:	Н.	Saeed					Mo	nitoring Well: Installed
Bor	ehole Loc	ation: 3005 Sheppard Ave Ea	st, 1800 Phar	macy	A	ve					IVIO	intornig wen
Dril	ller:	Geo-Environmental Drillilng Inc	•									Sheet 2 of 4
Dril	lling Meth	od: CME 75 Truckmount w/ I	HSA									
		Stratigraphy				Sa	amı	oles				Headspace TOV (ppm) 100 200 300 400
Scale	Elev.				le/				, rz			
(m)	(m) Depth	Description	loc	ls	rLe	and ber	ition	/s	cove		Ļ	20 40 60 80 Sample Analyzees
	(m)		Symbol	Well Detai	Wate	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	△ Water Content (%) 20 40 60 80
												Φ Δ _{2.4}
-	173.06 6.25	SAND, grey, wet, dense				SS-9	\mathbb{N}/\mathbb{I}	12 20	75		IN	
-	172.76						X	29 40				
-	6.55	SILT, grey, moist, trace gravel, very dense					\square					
-						SS-10	\square	24	75		N.	⊕∕}.6:
-7						33-10	$ \cdot $	33 29	13		11	
-							M	47				
-							\square					
-					⊻	SS-11	\forall	20	75		N	₽ _{6.4}
-							V	28 38	, -			
-8							$ \Lambda $	40				
-							Щ					
-						SS-12	\forall	22	73		N	□
-							V	30 32				
-								50/ 00 mm				
-9							Щ	0011111				
-						SS-13	\forall	16	75		N	€.5
-							V	30 40				
-							/	45				
-							\vdash					
-10												
-												
-												
-												
-						SS-14	M	17 25	75		N	€∕2.8
-11							X	25 32 33				
-							$/\!\!/\!\!\!/$					
-												
_												
_												
		Continued										
ODOU N - 1		Prepared by:	J. Grift									
T - 7	Ггасе	Checked by:	B.H.Cooke									
S - S	Moderate Strong					_		2	/.	7	H	RCADIS
VS-	Very Stron	ng Date:	19-3-26					7			ı '	1010

_		Sheppard Pharn	nacy GP Inc.							34-000			Bore	ehole: BH/MW	<u>19-1B</u>
Boring						_		Saeed					Mor	nitoring Well:In	stalled
		ation: 3005 S			Phai	rma	cy A	ve							
		Geo-Environme												Sheet 3 o	f 4
Drilling	Metho	od: <u>CME 75</u>]	Truckmount w	/ HSA											
		Stra	atigraphy						T í	ples		·		Headspace TOV (ppm)	
(m) D_{ϵ}	lev. m) epth m)	D	escription		Symbol	Well	Details Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LEL) 20 40 60 80 1 1 1 1 Water Content (%) 20 40 60 80	Remarks and Sample Analyses
13		-becomes wet, compa	act, trace clay @ 12.	19 m				SS-15		7 8 9 10	75				
114								SS-16		3 6 5 8	83		N	⊅4 .3	
16	64.07 15.24	CLAYEY SILT, gre	ey, wet, trace gravel,	stiff				SS-17		4 7 7 7	75		N	₽'\α.4	
17		-becomes firm @ 16.	.76 m					SS-18		1 2 3 4	100		N	∌∆α₃	
ODOUR: N - None T - Trac M - Mod S - Stron VS- Very	e lerate ng	Continued	Prepared by: Checked by: Date:	J. Grift B.H.Co 19-3-26	oke		1.01	_		3	/-	1	R	RCAI	DIS

Pro	ject:	Sheppard Phari	macy GP Inc.			Cont	ract	No: <u>1</u>	0293	34-000			Bor	ehole: BH/M	W19-1B
	_	2019-3-12				-		Saeed					Moi	nitoring Well:]	nstalled
		ation: 3005 S			<u>Phar</u>	macy	Av	ve						Chaot 4	of 4
		od: <u>CME 75</u>	_											Sheet 4	01 4
		Str	atigraphy					Sa	am	ples				Headspace TOV (ppn 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)		Description		Symbol	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LE 20 40 60 80 Water Content (%) 20 40 60 80	Remarks and Sample Analyses
- - -	160.41	-trace sand @ 18.29	m					SS-19	\bigvee	1 3 5 7	83		N	∌4 _{0.3}	
-19	18.90	End of Borehole @	18.90 m												
_		Water Level @ 7.60 Mar. 2019	4 m bgs (el. 171.706) on 21											
_															
_															
-20															
_															
_															
_															
_															
-21															
_															
_															
-22															
_															
_															
_															
-23															
_															
_															
_															
_															
ODOI N -			Prepared by:	J. Grif											
T -	Trace Moderate		Checked by:	В.Н.С								\			
S -	Strong Very Stron	ng	Date:	19-3-26				_		3	/-	4			DIS

Proj	ject:	Sheppard Phari	macy GP Inc.		_ (Contrac	et No: 1	1029	34-000			Bore	ehole: BH/MW	19-2
Bor	ing date:	2019-3-14		Supervi	sed by	7: <u>H</u>	Saeed	<u> </u>				Mor	nitoring Well:In	stallad
Bor	ehole Loc	ation:3005 §	Sheppard Ave East, 18	<u>00 Ph</u>	arm	acy A	ve					IVIOI	morning wen	stancu
Dril	ller:	Geo-Environme	ental Drillilng Inc.										Sheet 1 of	f 4
Dril	lling Meth	od: <u>CME 75</u>	Truckmount w/ HSA											
		Str	atigraphy				S	am	ples				Headspace TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)	Γ	Description	Symbol		Details Water I evel	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	Q.	Odour	☐ Headspace TOV(%LEL) 20 40 60 80 ☐ ☐ Water Content (%)	Remarks and Sample Analyses
		Ground Sur	face Elevation:178.70m	2	Well			Co			RQD	_	20 40 60 80	
	178.60 0.10	ASPHALT - 100 m		- **		Ŷ	SS-1	\mathbb{N}	24 16	75		N'	1 3.9	
	178.40 0.30		VEL (FILL), brown, dry TIVE), brown, moist, trace		XX			\	24 24					
	0.30	gravel, dense	TIVE), blown, moist, trace					$\backslash \backslash$	24					
	177.94	CW TO 1 1 1							_	0.2		.,	⊕ Δ _{27.3}	
	0.76	loose	brown, moist, trace gravel,				SS-2	\mathbb{N}	7 3	83		N	27.5	
1		-trace fine sand from	n 0.76 to 2.29 m					X	4 6					
								//						
.														
.		-trace to some orang	e-brown oxidation from 1.52 t	o			SS-3		2 3	75		N	9 Δ _{2.2}	
.		0.10 III						IV.	4					
.2								$ \rangle$	7					
.								\vdash						
		-becomes compact (a	(i) 2.29 m				SS-4		7	100		N	₽ 4 _{0.5}	
								V	9 15					
.								$ \Lambda $	26					
.														
3		haaamaa yami danaa	2 05 m				00.5		10	79		\ \ \	□	
.		-becomes very dense	e @ 3.03 m				SS-5	\mathbb{N}	18 28	79		IN		
.								IX.	35 41					
.								//						
.												6		
.4							SS-6	\mathbb{N}	20 38	100		N'	9.9:	
4								ΙХ,	50/					
.									125 mn	1				
.														
.							SS-7		22	94		N E	₽4.3	
.								V	26 50/					
.5									25 mn	ı				
.								\vdash						
.		-becomes brown-gre	ev @ 5.33 m				SS-8		22	83		N E	26 .6	
		geomes erown gro	,					$\parallel \parallel$	30	02		'		
								ΙX	38 35					
.														
ODOU	 J R :	Continued							I		I .		L:	
N -1	None		Prepared by:	<u>rift</u>			_							
T - T M - N	Trace Moderate		Checked by: B.H	Cook	e				0		1			710
S - S	Strong		Date: 19-3	-26				D		/-	4	H	CA[ノ
v 2- '	Very Stror	ıg	Date						7					

•		Sheppard Pharmac	•						4-000			Bor	ehole: BH/MW	19-2
	ring date:				-							Mo	nitoring Well:In	stalled
		ation: 3005 She	-		mac	y A	ve							
		Geo-Environmenta	_										Sheet 2 o	f 4
Dri	lling Meth	od: <u>CME 75 Tru</u>	ickmount w/	HSA										
		Stratig	graphy				Sa	mp	les				Headspace TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)	Desc	cription	Symbol	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LEL) 20 40 60 80	Remarks and Sample Analyses
_		-becomes grey, compact	@ 6.10 m				SS-9		9 12 15 22	92		N	€,8	
_ _7 _		-becomes very dense @ 0	5.86 m				SS-10		15 27 35 32	75		N	Đ _{ề.4}	
- - -8							SS-11	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	22 32 36 50/ 00 mm	75		N	3 2 _{7.1}	
- - -							SS-12		26 50/ 00 mm	100		N	27, 1	
-9 - -						Ā	SS-13		21 35 40 50/ 25 mm	61		N	₽ γ	
- -10 -														
- - -11							SS-14		16 29 38 42	67		N	₽4,9:	
- - -							•	/\						
ODO	U R :	Continued											<u> </u>	
N - 1			Prepared by:	J. Grift			_				_			
M - 1	Moderate		Checked by:	B.H.Cooke			_ /		2		\		POST	710
S - S VS-	Strong Very Stro	ng	Date:	19-3-26			_			/-	1			<u> </u>

D	. ,	Shannand Dhannaar, CD Inc			7 .	, .	NT 1/)20°	24.000			D	1 1 DH/MXX/10 2
	ing date:	Sheppard Pharmacy GP Inc. 2019-3-14 Sup					No: <u>10</u> Saeed		34-000			Bor	rehole: BH/MW19-2
	_	ation: 3005 Sheppard Ave East, 1800										Mo	nitoring Well:Installed
		Geo-Environmental Drillilng Inc.	7 1111		uc,		<u> </u>						Sheet 3 of 4
	lling Meth												Sheet 5 of 4
							C		1				Headspace TOV (ppm)
	Elev.	Stratigraphy				-		_	oles	<u></u>			100 200 300 400
Scale (m)	(m) Depth	Description	0		so.	Feve	Sample Type and Number	tion	, E	% Recovery		L	Headspace TOV(%LEL) 20 40 60 80 Sample Analyses
,	(m)		Symbol	Well	Oetail	Water	samp Fype Vumb	Condi	Blows/ 300mm	% Re	RQD	Odour	△ Water Content (%)
									Э Е	•`	—		20 40 60 80
_		-becomes moist to wet, trace sand, dense to compact					SS-15	\forall	11	75		N	⊕A _{8.1}
-		@ 12.19 m						\mathbb{V}	15 19				
_								$/\!\!\setminus\!\!\!\mid$	19				
-								$^{\prime}$					
-13													
-													
_													
-												١,	
-							SS-16	$\setminus / \! /$	6 11	75		N	⊕ 4 ₃
-14								X	18 18				
-								\square					
-				• • •	• •								
-				• • • •	· · ·								
-				• • • •	• • • • • • • • • • • • • • • • • • • •								
-15													
-	163.46 15.24	SANDY SILT, grey, moist to wet, trace gravel,			∄∷		SS-17		8	50		N	♦
-		compact			∄			\bigvee	8 15				
-					░			M	20				
-					≕			-					
-16													
-													
-													
_	161.94											ا	
_	16.76	SILT, grey, moist to wet, trace gravel, trace sand, compact					SS-18	$\backslash / \!\! /$	9 11	63		N'	⊕ 4 _{9.7}
-17		•						X	11 14				
_								/					
_													
-					∄∷								
				• • •									
ODO		Continued Prepared by: J. Grif	 it			_		_					
	Trace						-			_			
	Moderate Strong	Checked by: B.H.C					-		2		7	Ļ	RCADIS
	Very Stron	ng Date: <u>19-3-2</u>	b				_		y			'	NO NO IO

Pro	ject:	Sheppard Phari	macy GP Inc.			Cont	ract	No: <u>1</u>)293	34-000			Bore	ehole: BH/MV	V19-2
Boı	ring date:	2019-3-14		Sup	ervised	by:]	Н.	Saeed					Mor	nitoring Well:Ir	ıstalled
	ehole Loc		Sheppard Ave E		Phar	macy	Av	ve					14101	intoring wen	
		Geo-Environme	_											Sheet 4 o	of 4
Dri	lling Meth	od: <u>CME 75</u>	Truckmount w/	HSA											
		Str	ratigraphy							ples				Headspace TOV (ppm) 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)	Г	Description		Symbol	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LEL) 20 40 60 80 A Water Content (%) 20 40 60 80	Remarks and Sample Analyses
- - -	160.41 18.29	SANDY SILT, grey to loose	/, wet, trace gravel, vo	ery loose				SS-19	M	1 2 2 2	67		N	∌ Δ _{1.5}	
-19	18.90	End of Borehole @	18.90 m		.1.1.1.										
		Water Level @ 9.63' Mar. 2019	7 m bgs (el. 169.067)) on 21											
								T							
ODO	None		Prepared by:	J. Grift	t			_							
M -	Trace Moderate		Checked by:	B.H.Co	oke			_		9		\			JIC
	Strong Very Stror	ng	Date:	19-3-26	5						/-	1	7	RCAI	ノ

Pro	ject:	Sheppard Phari	nacy GP Inc.		C	ontract	No: <u>1</u>	029	34-000			Bore	ehole:	BH/MW	/19-3
Bor	ring date:	2019-3-15	S	upervised	d by:	<u>H.</u>	Saeed					Mor	nitoring We	ell: <u>In</u>	stalled
Boı	ehole Loc	ation: 3005 S	Sheppard Ave East, 180	0 Phar	ma	cy Av	/e					IVIOI	mornig we	<u>111</u>	stancu
Dri	ller:	Geo-Environme	ntal Drillilng Inc.										S	heet 1 o	f 4
Dri	lling Meth	od: <u>CME 75</u>	Truckmount w/ HSA												
		Str	atigraphy				S	am	ples				Headspace	TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)		Description	Symbol	Well	Details Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace 20 40 Water Co		Remarks and Sample Analyses
	177.50		face Elevation:177.68m	Sy	 }			ŭ			R(_	20 40	60 80	
	177.58 0.10 177.38	ASPHALT - 100 m SAND AND GRAV wet	m/EL (FILL), brown, moist to			Image: Control of the	SS-1	M	10 10 8	75		N`			Analyses: Metals
	0.30	SILTY SAND (NA	TIVE), brown, some dark t, trace gravel, loose					\mathbb{N}	4						
												N			
							SS-2	\mathbb{N}	2 3 5	50		N			Analyses: PAHs
· 1								X	5 5						
								\square							
	176.16 1.52	SANDY CLAVEV	SILT, brown, moist to wet,				SS-3	\square	2	50		N	→ △ _{9.3}		
	1.32	trace gravel, firm	SIL1, brown, moist to wet,				33-3	\mathbb{N}	3 3 2	30		11			
								M	3						
-2								\square							
•	175.39 2.29	SILT brown moist	, trace gravel, trace gravel,		1		SS-4	\forall	6	100		N	₽ _{40.3}	: :	
	2.2)	oxidation, compact	to dense				55 1	V	11 15	100		11			
								$ \lambda $	17						
								Щ							
-3							SS-5	\forall	8	75		N	4 ⊕	- : - : - : - : - : - : - : - : - : - :	Analyses:
								W	16						Metals, PAHs, PHCs, VOCs
								$ \Lambda $	22 35						,
								Н							
		-becomes very dense	e @ 3.81 m				SS-6	\square	12	100		N	Ø _{8.6}		
4								IVI	18 35						
									33						
								Н							
		-becomes dense @ 4	.57 m				SS-7	М	12	67		N	₽Д.4		Analyses:
								IXI	20 26						PHCs, VOCs
.5								/	42						
•															
		-becomes brown-gre	y @ 5.33 m				SS-8	\bigcup	23 31	92		N	→ 4 _{.1}		
								IXI	16 20						
								\mathbb{N}	20						
ODO	ΠD •	Continued											L :	: :	
N -			Prepared by: J. Gr				_			<u></u>	_		_	_	
M - 2	Moderate		Checked by: B.H.C	Cooke			-				\				DIS
	Strong Very Stror	ng	Date: <u>19-3-</u>	26			_			/-	1				<u> </u>

	. ,	Chammand Dhann	no av CD Inc		- C		NT 1/	0202	24.000			D.	1 1 DII/M XX/1	10.2
	ring date:		nacy GP Inc.						94-000			Bor	ehole: BH/MW	19-3
	_		Sheppard Ave Ea		-							Moı	nitoring Well:Ins	talled
		-	ntal Drillilng In										Sheet 2 of	4
Dri	lling Meth	od: <u>CME 75</u>	Truckmount w/	HSA									W	
		Str	atigraphy				Sa	amj	oles				Headspace TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)	Γ	Description	Symbol	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LEL) 20 40 60 80 1 1 1 Water Content (%) 20 40 60 80	Remarks and Sample Analyses
-	171.58 6.10	CLAYEY SILT, gr mouth of spoon -boulder from 6.25 to	ey, moist, crushed roc	k in			SS-9		6 50/ 50 mm	100		_	⊅ ∆ _{9.8}	
-7 - -	170.67 7.01	SILT, grey, moist to -trace sand from 7.0	wet, trace gravel, den 1 to 7.62 m	ise	1		SS-10	M	12 15 20 28	58			82	
-8							SS-11	\bigvee	7 15 18 22	83		N	₽},9	
-	169.30 8.38	SANDY SILT, grey very dense	, moist to wet, trace g	ravel,			SS-12		10 25 38 48	75		N	⊅ ∆ _{0.2}	
-9 - -		-becomes compact @) 9.14 m				SS-13		12 15 11 9	83		N	₽40.3	
-10 - - - - -11 -	167.01 10.67	very dense to dense	race gravel, trace fine	sand,			SS-14		16 22 38 35	75		N	₽4.8	
ODOI N - 1		Continued	Prepared by: _	J. Grift										
T - 7			Checked by:	B.H.Cooke							\		^ ^ ^ F	
S - 5	Strong Very Stron	nσ	Date: _	19-3-26					3	/-	4	H	(CAE	712
v D-	vay suoi	15							,		_	•		

Pro	ject:	Sheppard Pharmacy GP Inc.		Coı	ntrac	t No: 1	029	34-000			Bor	ehole: BH/M	W19-3
Bor	ring date:	2019-3-15 S	upervised	l by:	<u>H.</u>	Saeed					Mo	nitoring Well: I	nstalled
Bor	ehole Loc	ation: 3005 Sheppard Ave East, 180	00 Phar	mac	y A	ve					IVIO	intorning wen	nstancu
Dri	ller:	Geo-Environmental Drillilng Inc.										Sheet 3	of 4
Dri	lling Meth	nod: CME 75 Truckmount w/ HSA											
		Stratigraphy				S	am	ples				Headspace TOV (ppm	
G1-	Elev.	a tanagan panjar			el				<u>5</u>			100 200 300 400	
Scale (m)	(m) Depth	Description	lo 10	_	r Level	le and	ition	s/ m	cove		L	Headspace TOV(%LEI	Remarks and Sample Analyses
	(m)		Symbol	Well	Water L	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	△ Water Content (%)	
				> L		SHZ		3 3				20 40 60 80	
_						SS-15		12	75		N	₽49.1	
-							IV	20 20					
_								26					
_							\triangle						
-13					Ā								_
_					ľ								
L													
	163.96 13.72	SANDY CLAYEY SILT, grey, wet, trace gravel,				SS-16		4	100		N	₽4 _{9.7}	
-14	13.72	firm				55 10	\mathbb{W}	4 4	100		11		
14							ľ	6					
							\angle						
				•••	·								
-													
_													
-15													-
-	162.44 15.24	SANDY SILT, grey, wet, trace gravel, loose				SS-17		3	75		N,	₩.4	
_	13.21	SALUE SIELI, giey, wei, dace glavel, loose				55 17	\mathbb{W}	4 5	73		11		
-							ľ	5					
-							$/ \setminus$						
-16													_
-													
_													
_													
_						SS-18		6	75		N,	Α α _{.6}	
-17						25 10	\mathbb{V}	4 5	, 0		1		
_								7					
_					•		$^{\prime}$						
					:								
ODO		Continued Prepared by: J. Gr	rift										
	Trace					_			_				
	Moderate Strong		<u>Cooke</u>			-		9		7			DIS
	Very Stroi	ng Date: <u>19-3-</u>	26			_				1		、して	

													\top			
			nacy GP Inc.						No: <u>1</u>		34-000			Bor	rehole: BH/MV	V19-3
	ring date:	2019-3-15					-		<u>Saeed</u>					Moi	nitoring Well: I	nstalled
		·	Sheppard Ave Ea		Pha	ırr	nacy	A	ve							
			ntal Drillilng Inc												Sheet 4	of 4
Dri	lling Meth	od: <u>CME 75</u>	Fruckmount w/ I	HSA												
		Stra	atigraphy								ples				Headspace TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)	D	escription		Symbol	;	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	Headspace TOV(%LEL 20 40 60 80 1 1 1 Water Content (%) 20 40 60 80	Remarks and Sample Analyses
- - -	159.39 18.29	SILT, grey, wet, ver	y loose to loose						SS-19		2 2 2 3	42		N	⊕ ∆21.2	
-19	18.90	End of Borehole @	18.90 m			П										
-		Water Level @ 13.03 Mar. 2019	32 m bgs (el. 164.648)	on 21												
- - -20																
_																
-																
-																
- -21																
_																
_																
_																
-																
-22																
_																
_																
_																
-23																
-																
-																
_																
ODOI N - I			Prepared by:	J. Grift					_							
T -	Trace Moderate		Checked by:	В.Н.Со	oke	•			_				\			
S - S	Strong Very Stror	ng	Date:	19-3-26	:				_			/-	4		SCA	DIO

			nacy GP Inc.				t No: <u>1</u>		34-000			Bor	ehole: B	H/MV	V19-4
	ring date:	2019-3-13			-		Saeed					Moı	nitoring Well:	In	ıstalled
	ehole Loc	-	heppard Ave East, 1800) Phar	mac	y A	ve								
			ntal Drillilng Inc.										Sho	eet 1 o	of 4
Drı	lling Meth	lod: CIVIE 75	Truckmount w/ HSA												
		Stra	atigraphy					-	ples				Headspace TC		
Scale	Elev. (m)	Г	escription			evel	<u>ب</u>	luo		very			Headspace TO		Remarks and
(m)	Depth (m)		escription	Symbol	11:	Details Water L	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	20 40 60		Sample Analyses
			ace Elevation:178.28m	Sy	Well .		Sa Ny Nu	ပိ	Blo 30	%	RC	õ	20 40 60	80	
_		-hole daylighted from	1 0 to 2.13 m		Ų.	Image: Control of the									
_															
_													;;		
_															
-1															
-															
-															
-															
_															
-2															
-	175.99														
-	2.29	CLAYEY SILT (Na	ATIVE), brown, wet to moist, oxidation staining, stiff to very				SS-4		3 6	83		N	⊕A ₃ : :		
-		stiff	Addation stanning, still to very					IX.	7 11						
-								//	11						
-3													A .7:		
-							SS-5	\mathbb{N}	6 8	100		N	8.7:		
-								IX.	14 22						
-															
-	174.47 3.81	SILT brown moist	trace gravel, very dense				SS-6		11	75		N	4.0		Analyses:
-4	5.01	-orange-brown oxida	tion staining from 3.81 to 6.10				33-0	\mathbb{N}	20 33	13		11		· · · · · ·	PHCs, VOCs
-		111							43						
-								\vdash							
-							SS-7		17	100		N	₽ _{8.2}	:	
-								V	30 35						
-5									45						
-															
-							SS-8	7	12 33	71		N	€40.4		Analyses: PHCs, VOCs
-						⊻		$ \chi $	50/ 25 mn					:	Thes, voes
-								//	23 11111	1					
ODO	∏ R ·	Continued											<u> </u>	:	
N - 1	None		Prepared by:	<u>it</u>			_								
M - 1	Trace Moderate		Checked by: B.H.C	ooke			_		0		1			A I	JIC
	Strong Very Stror	ng	Date:	6						/-	1			<u> </u>	DIS

											<u> </u>			
Pro	ject:	Sheppard Phari	macy GP Inc.		Con	tract	No: <u>1</u>	029	34-000			Bor	ehole: BH/MW19-4	
	ring date:				-		<u>Saeed</u>					Moi	nitoring Well: Installed	l
			Sheppard Ave East, 1800	Phar	rmacy	A	ve						S	
			ental Drillilng Inc.										Sheet 2 of 4	
Dri	lling Meth	nod: <u>CME 75</u>	Truckmount w/ HSA											
		Str	atigraphy				Sa	am	ples		•		Headspace TOV (ppm) 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)	Γ	Description	Symbol	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour		narks and le Analyses
		-becomes grey, dry t	o moist, dense @ 6.10 m				SS-9	V	15 23 20 27	100		N	→ 4 _{0.6}	
. 7		-becomes moist to w	vet, very dense @ 6.86 m				SS-10		14 24 34 40	75		N	₱₳3	
							SS-11		18 32 36 40	75		N	DA _{8.5}	
							SS-12		10 25 27 32	75		N	DA _{8.2}	
		-fine sand layer from	n 8.92 to 9.00 m				SS-13		19 30 39 40	75		N	₽ ∕ ĝ.1	
10		-becomes moist, den	ise, trace gravel ends @ 10.67 m				SS-14	\/	10 16	100		N .	₽∕8.3	
·11									18 23					
ODO		Continued	, I C	<u> </u>									Li	
N - 7	None Trace		Prepared by: J. Grif							_				
M -	Moderate Strong		Checked by: B.H.Co				-		9		7		CAD	5
	Very Stroi	ng	Date: 19-3-20	6			_				7	<u> </u>	ヘフフ)

Pro	ject:	Sheppard Pharmacy GP Inc.		_ (Contr	act	No: <u>1</u>	0293	34-000			Bor	ehole: BH/MW19-4
Bor	ring date:	2019-3-13 S	upervise	d by	/: <u>I</u>	I. S	Saeed					M	nitoring Well:Installed
Bor	ehole Loc	ation: 3005 Sheppard Ave East, 180	0 Pha	rm	acy	A۱	'e					IVIO	intoring well:
Dri	ller:	Geo-Environmental Drillilng Inc.											Sheet 3 of 4
Dri	lling Meth	od: CME 75 Truckmount w/ HSA											
		Stratigraphy		T			S	amı	ples				Headspace TOV (ppm)
a 1	Elev.	Suangraphy				el				5			100 200 300 400
Scale (m)	(m) Depth	Description	lo		S	·Lev	le and er	tion	-≽ ¤	cove		٠	Headspace TOV(%LEL) 20 40 60 80 Sample Analyses
	(m)		Symbol	Well	etail	Vater	Sample Type and Number	ondi	Blows/ 300mm	% Recovery	RQD	Odour	△ Water Content (%)
			$\frac{1}{1}$			>	S H Z		ЭВ	0			20 40 60 80
-		-becomes moist to wet, compact, trace gravel, trace					SS-15	\forall	6	100		N	41.6
-		fine sand begin @ 12.19 m						V	11 10				
_								$ \Lambda $	9				
_								\square					
-13													
_													
_													
_													
	164.56 13.72	SANDY SILT, grey, moist to wet, loose, trace	7.17(1				SS-16	\square	2	92		\ _N_(₽ 4 _{0:1}
-	13.72	gravel					33-10	\mathbb{N}	2 4	92		IN	
-14								X	4 7				
-								\square					
-													
-													
-													
-15													
-							aa 1 5	Щ		100			-
-							SS-17	\mathbb{N}/\mathbb{I}	3 3 5	100		N	100
-								X	5 5				
_								\mathbb{N}					
-16													
_													
_													
_													
_							~~	Щ					₽ ∆ _{0:}
-17							SS-18	\mathbb{N}/\mathbb{I}	2 3	92		N	10.
-1/								X	4 8				
_								\mathbb{N}					
-													
-													
-													
ODOU	JR:	Continued	11.1.1					Ш					Li
N - 1	None	Prepared by:	<u>ift</u>				-						
	Moderate	Checked by: B.H.	Cooke				_		0		\		
S - S	Strong Very Stror	Date:	26							/-	4		RCADIS
		·											

			CP Y														10.1
		Sheppard Phari	nacy GP Inc.						2934	4-000			Bore	ehole: _	BH/	<u>MW</u>	19-4
	ring date:		Shammand Assa D			l by: <u>I</u>		<u>eea</u>					Mor	nitoring V	Well:	Ins	stalled
		ation: 3005 S Geo-Environme			rnar	шасу	Ave								~-		
			Truckmount w/												Sheet	4 of	í 4
DΠ	lling Meth			IISA										T-0			
	_	Str	atigraphy					Sa	-î	les				Headspa 100 20	ace TOV () 00 300 4	ppm) 00 L	
Scale (m)	Elev. (m) Depth (m)	Γ	Description		Symbol	Well Details	Water Level Sample	Number	Condition	300mm	% Recovery	RQD	Odour	☐ Headspa 20 4 ☐ Water 20 4	0 60 8 Content (30	Remarks and Sample Analyses
- - - -							SS	-19		2 4 5 7	100		N e	∌ ∆ ₁			
- - - - -20	158.47 19.81	SILT, grey, wet, trad	ce gravel, trace sand,	compact			SS	-20		4 6 8	92		N E	₽49.6			
- - - - -21								/		10							
- - -	156.94 21.34	CLAYEY SILT, grvery stiff	ey, moist to wet, trac	e gravel,			SS	-21		4 6 10 15	100		N	∂ Δ _{7.2}			
-22 - - - -23 -	21.95	End of Borehole @ Water Level @ 5.60 Mar. 2019) on 21												:	Groundwater Analyzed for: PHCs, VOCs
ODOI N -			Prepared by:	J. Grift	t												
T -	Trace		Checked by:	B.H.Co											A		
S -	Moderate Strong								4	1		7	-	?(DIS
VS-	Very Stroi	ng	Date:	19-3-26)					7			_ `				

											$\overline{}$					
Pro	ject:	Sheppard Phari	macy GP Inc.		Cont	ract 1	No: 10)293	4-000			Bore	ehole: _	BH	/MW	19-5A
Bor	ring date:	2019-3-6	Su	pervise	d by: <u>l</u>	H. S	aeed						.,	37 11	T.,	a4allad
Bor	ehole Loc	ation: 3005 S	Sheppard Ave East, 180) Phai	rmacy	Av	e					Mot	iitoring '	well: _	<u> 1n</u>	stalled
Dri	ller:	Strata Drilling (Group											Shee	t 1 o	f 1
Dri	lling Meth	od: Geoprob	e 7822DT - Direct Push											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		- C+	ati amamlari				C.		oles				⊕ Headsp	ace TOV	(ppm)	
	Elev.	Su	atigraphy					-	nes				100 2	00 300	400	
Scale (m)	(m) Depth	Γ	Description			Leve	Sample Type and Number	ion	u /	% Recovery			☐ Headsp 20 4	ace TOV(i0 60	%LEL) 80	Remarks and Sample Analyses
(111)	(m)	G 16	C F1 / 170.20	Symbol	Well Details	/ater	ype g	ondi	Blows/ 300mm	Rec	RQD	Odour	△ Water	:	(%)	1 3
	178.10	ASPHALT - 100 m	face Elevation:178.20m	S		≯ 0	ğΗZ		B 3(<u> </u>	<u> </u>	20 4	0 60	80	
-	0.10 177.90		o 4 m - Lithology assumed as													
-	0.30	\ 	VEL (FILL), brown, dry										:			
_		SILT (NATIVE), b	rown, moist, trace clay										;	; ; :		
_	177.44 0.76	CLAVEV SILT da	rk brown to brown, moist													
-1	0.70	-trace orange-brown	oxidation from 0.76 to 1.52 m													
													:			
_			1.52 4- 2.20			⊽										
-		-grey mottling from -trace gravel begins	@ 1.52 m													
-																
-2													:		:	
-																
-		-oxidation from 2.29	to 3.05 m													
-																
-																
-3														<u> </u>		
-		-becomes wet @ 3.0	5 m										:		:	
_																
_																
_	174.39															
-4	3.81 174.20	SILT, brown, moist	, trace gravel, oxidation										:		:	
-4	4.00	End of Borehole @	4.00 m													Groundwater analyzed for:
_		Water Level @ 1.56 Mar. 2019	5 m bgs (el. 176.634) on 21													Metals, PAHs, PHCs, VOCs
-		With: 2019											:			THES, VOES
-																
-																
-5																
-																
-																
-																
-																
ODOU N - I			Prepared by:	ft			_									
T -	Trace Moderate		Checked by: B.H.C	ooke							\			>		
S - S	Strong		-				-		1	/.	7	-	/ (11	DIS
VS-	Very Stror	ng	Date:19-3-2	U			- 1		y			1	_		1	

											_			
Project:		Sheppard Pharn	macy GP Inc.		_ C	ontrac	t No: 1	029	34-000			Bore	ehole: BH/MW	/19-5B
Boring da	ate:	2019-3-6		Supervise	d by:	: <u>H.</u>	Saeed					Mor	nitoring Well:In	istalled
Borehole	: Loca	tion: 3005 S	Sheppard Ave East, 18	300 Pha	rma	icy A	ve					14101	ittoring wen.	suiicu
Driller:		Strata Drilling (Group										Sheet 1 o	f 2
Drilling l	Metho	od: Geoprobe	e 7822DT - Direct Pus	h										
		Stra	ratigraphy		\mathbf{L}		S	am	ples				Headspace TOV (ppm) 100 200 300 400	
Scale (m) Ele (m) Dep (m)	n) pth		Description	Symbol	Well	Details Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	☐ Headspace TOV(%LEL) 20 40 60 80 ☐ ☐ Headspace TOV(%LEL) 20 400 60 80 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Remarks and Sample Analyses
			face Elevation:178.10m	Sy	Š	Ď Š		S	Bl 30		R		20 40 60 80	
	P	ASPHALT - 100 mi	m /EL (FILL), brown, dry	-		Q	SS-1	\mathbb{N}		100		N		Analyzed for: Metals
177	7.80 L		rown, moist, trace clay		8			V						
. 177	7.34 0.76	CLAYEY SILT, da	rown, moist, trace clay ark brown to brown, moist oxidation from 0.76 to 1.52 r	n			SS-2			100		N	Ф	Analyzed for: PAHs
		-grey mottling from 1 -trace gravel begins (1.52 to 2.29 m @ 1.52 m			Ā	SS-3			100		N	Φ	
		-oxidation from 2.29	to 3.05 m				SS-4			100		N	Ф	
		-becomes wet @ 3.0	5 m				SS-5			100		N	Ф	Analyzed for: Metals, PAHs, PHCs, VOCs
	4.29 3.81	SILT, brown, moist, -oxidation from 3.81	, trace gravel to 4.57 m			· ·	SS-6			100		N	Φ	Analyzed for: PHCs, VOCs
							SS-7			100		N	Ф	
	2.77 _ 5.33	SANDY SILT, brown-becomes grey @ 5.7					SS-8			100		N	Φ	
ODOUR:		Continued	Prepared by: J. G	'rift										
N - None T - Trace							-			_				
M - Mode	erate		Checked by: B.H	I.Cooke			_				\		$\mathcal{C} \mathcal{N} \mathcal{I}$	\mathcal{I}
S - Strong VS- Very		g	Date: 19-3	3-26			_			/-	1		CAI	ノロン

Pro	oject:	Sheppard Phari	macy GP Inc.			Cont	ract	: No: <u>1</u>	0293	34-000			Bor	rehole: B	H/MV	/19-5B
Во	ring date:	2019-3-6	Su	upervi	sed	by:	Н.	Saeed					Mo	nitoring Well:	In	etallad
Во			Sheppard Ave East, 180	0 Ph	arı	macy	A	ve					IVIO	intornig wen.		stancu
		Strata Drilling (Sho	eet 2 o	f 2
Dr	illing Meth		e 7822DT - Direct Push											la-		
		Str	ratigraphy				1_		- î	oles				Headspace TC	V (ppm) 0 400	
Scale (m)	Elev. (m) Depth (m)	Γ	Description	Symbol	23111001	Well Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	☐ Headspace TC 20 40 60) 80 nt (%)	Remarks and Sample Analyses
	172.00 6.10	End of Borehole @		^A		W CHILLIAN CONTROL OF THE PROPERTY OF THE PROP	M	8S-10	90	BI ₁ 30	100	RC RC	N N	⊕	80	Groundwater analyzed for: PHCs, VOCs
10 																
ODO N -	UR: None		Prepared by: J. Gr	ift			•						•			

T - Trace

M - Moderate

S - Strong VS- Very Strong

Checked by: _

B.H.Cooke

19-3-26 Date:



Pro	ject:	Sheppard Pharn	nacy GP Inc.						4-000			Bore	ehole:	BH/N	<u>IW19</u>	9-6
	ring date:	2019-3-7					I. Saeed	1				Mor	itoring W	/ell:	Inst	alled
		ation: 3005 S		East, 1800	Phar	macy	Ave									
		Strata Drilling (-											Sheet 1	1 of 1	
Dri	lling Meth	od: Geoprobe	<u> 7822DT - Dire</u>	ect Push												
		Stra	atigraphy				S	Samp	les				Headspa	ce TOV (pr		
Scale (m)	Elev. (m) Depth	D	escription		lool	l uils	Water Level Sample Type and	Condition	ws/ nm	% Recovery	0	ur	Headspace 20 40	60 80	S	Remarks and Sample Analyses
	(m)	Ground Surf	face Elevation:178.9	90m	Symbol	Well Details	Sam Typ	Con	300mm	% R	RQD	Odour	△ Water C		- 1	
	178.83 0.08	ASPHALT - 75 mm				\Diamond	SS-1	M		80		N				nalyzed for: etals
_	178.60 0.30	SAND AND GRAV brick present	EL (FILL), dry, cru	ished red				V							IVI	ctais
_	0.30	SILT (NATIVE), but-trace gravel from 0.3	rown to grey, moist 3 to 0.76 m			· . · . · .		\bigvee								
-		-becomes dark brown	n, trace grey mottling	g @ 0.76 m			SS-2	\square		80		N)			nalyzed for:
-1								V							PA	AHs
_								$ \Lambda $								
_	177.38											_				
-	1.52	SILTY CLAY, dark	brown, moist to we	t			SS-3	\mathbb{N}		90		N				nalyzed for: ICs, VOCs
_								V								
-2								$ \Lambda $: :	<u> </u>		
-								\square				(÷			
_		-becomes brown, trac 2.29 m	ce gravel, some grey	mottling @			☑ SS-4	\mathbb{N}		90		N				nalyzed for: etals, PAHs
-								V								
-								$ \rangle $								
-3	175.85	CANDY OF There		-1 4			CC 5	\square		100		, E	- 			11 f
-	3.05	SANDY SILT, brow oxidation	vn, moist, trace grave	ei, trace			SS-5	\mathbb{N}		100		N'				nalyzed for: ICs, VOCs
-																
-								/\								
-							SS-6	\mapsto		100		N	€ :			
-4						•: ·: •		$ \cdot $:			
-																
-	154.22							$/\!\!/$;;		
_	174.33 4.57	End of Borehole @	4.57 m													oundwater
-		Water Level @ 2.459	9 m bgs (el. 176.441)) on 21												nalyzed for: łCs, VOCs
-5		Mar. 2019														
-																
-																
-																
-													:			
ODO	IR·												:	: :		
N -	None		Prepared by:	J. Grif	<u>t</u>											
M -	Trace Moderate		Checked by:	B.H.Co	oke						\			\		NC
	Strong Very Stror	าฐ	Date:	19-3-26	6					/-	1	7		八	L) S

			macy GP Inc.						34-00	0		Bore	ehole: BH/MW	/ 19-7
	ing date:			upervise	-			<u>l</u>				Mor	nitoring Well:In	stalled
			Sheppard Ave East, 180			-								
		Strata Drilling (-										Sheet 1 o	f 2
Dril	ling Meth	od: Geoprobe	e 7822DT - Direct Push											
		Str	atigraphy				S	Sam	ples				Headspace TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)		Description	Symbol	Well	Details Water Level	Sample Type and	Condition	Blows/	% Recovery	RQD	Odour	☐ Headspace TOV(%LEL) 20 40 60 80 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Remarks and Sample Analyses
	170.70		face Elevation:178.80m	Sy	\ \ \			ŭ	Bl			-	20 40 60 80	. 1 16
	178.70 0.10	ASPHALT - 100 m SANDY GRAVELI	M LY SILT (FILL), brown, dry		Q	Þ	SS-1			90		N`		Analyzed for: Metals
1	178.04 0.76	CLAYEY SILT (FI moist, trace gravel	ILL), dark brown to brown,			 	SS-2			90		N e	Đ	Analyzed for: PAHs
	176.97	-crushed red brick fr					SS-3			100		N)	
2	1.83	CLAYEY SILT (N. moist, trace gravel	ATIVE), dark brown to brown,					\bigwedge				_	Ð	
		-orange-brown oxida	tion from 2.29 to 3.05 m				SS-4			100		N		Analyzed for: Metals, PAHs
							SS-5			100		N	Đ	
4	174.99 3.81	SILT, brown, moist, -oxidation from 3.81	, trace gravel to 5.49 m				SS-6					N G	Ð	
							SS-7			100		N (Đ	Analyzed for: PHCs, VOCs
		-becomes light grey	to grey @ 5.49 m				SS-8					N	Ð	
ODOU		Continued	p #	• 64				•		•				
N - 1 T - 7			Prepared by: J. Gr							_				
M - 1	Moderate Strong		-	<u>Cooke</u>			_				1		CAI	715
	Very Stron	ng	Date:	26							1			ノロ

Pro	ject:	Sheppard Pharn	nacy GP Inc.		_ '	Contr	ract	No: <u>1</u>	0293	4-000			Bor	rehole: BH/M	W19-7
	ring date:					_							Moi	nitoring Well:]	nstalled
		ation: 3005 S		East, 1800 Pha	ırm	acy	Av	<u>'e</u>						<i>5</i>	
		Strata Drilling (_											Sheet 2	of 2
Dri	lling Meth	od: Geoprobe	<u> 27822DT - Dire</u>	ect Push											
		Stra	atigraphy						- î	oles				Headspace TOV (ppm 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)	D	Description	Symbol	Well	Details	Water Level	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	☐ Headspace TOV(%LE 20 40 60 80 ☐ ☐ ☐ ☐ ☐ Water Content (%) 20 40 60 80	Remarks and Sample Analyses
- - - - - - - - - - - - - - - - - - -	169.66	-wet from 6.1 to 6.25	5 m					SS-9 SS-10 SS-11			100		N ^e	O	Analyzed for: PHCs, VOCs
- 10 	9.14	End of Borehole @ Water Level @ 1.092 Mar. 2019) on 21											Groundwater Analyzed for: Metals, PAHs, PHCs, VOCs
M - S -		ng	Prepared by: Checked by: Date:	J. Grift B.H.Cooke	,			- - -			/-	7	Ę	RCA	DIS

Pro	ect:	Sheppard Pharr	nacy GP Inc.		. Co	ontract	No: <u>1</u>	0293	34-000			Bor	ehole: BH/MW	/19-8
Bor	ing date:	2019-3-7	S	upervise	d by:	<u>H.</u>	<u>Saeed</u>					Moi	nitoring Well:In	stalled
Bor	ehole Loc	ation: 3005 S	Sheppard Ave East, 180	0 Phai	rma	cy Av	ve					1,101		
Dril	ler:	Strata Drilling (Group										Sheet 1 o	f 2
Dril	ling Meth	od: Geoprobe	e 7822DT - Direct Push											
		Str	atigraphy				S	am	oles				Headspace TOV (ppm) 100 200 300 400	
Scale (m)	Elev. (m) Depth		Description	lool		Details Water Level	Sample Type and Number			% Recovery	0	ır	Headspace TOV(%LEL)	Remarks and Sample Analyses
	(m)	Ground Sur	face Elevation:178.73m	Symbol	Well	Details Water L	Sam Typ Nur	Con	Blows/ 300mm	% R	RQD	opo_	20 40 60 80 Water Content (%) 20 40 60 80	
	178.66 0.08	ASPHALT - 75 mm		-	Ø	\Diamond	SS-1	1		80		N		Analyzed for: Metals
-	178.43 0.30	SAND AND GRAV	ark brown, moist, trace gravel,					W						Wictais
	0.50	trace black staining						$ \Lambda $						
	177.97							igwedge						
	0.76	SANDY SILT, brov	vn, moist, trace oxidation				SS-2	M				N'		Analyzed for: PAHs
1								IVI						
								$ \Lambda $						
	177.21					⊻		\square				N e	<u> </u>	
•	1.52	SILT , brown, moist -grey mottling from	1.52 to 3.05 m				SS-3	M				N		
		-some orange-brown	oxidation from 1.52 to 5.33 m					IXI						
2								/						
•							SS-4	(-)				N		Analyzed for:
							33-4	\mathbb{N}				IN		Metals, PAHs
.								IX I						
								$ / \langle $						
-3							SS-5	(-)				N e		Analyzed for:
								\mathbb{N}						PHCs, VOCs
•								X						
							SS-6	\square				N		
4								V						
					•••	••		IĂI						
•								$/ \setminus$						
							SS-7					N,		Analyzed for: PHCs, VOCs
								W						Tites, voes
.5								$ \Lambda $						
						• • • • • • • • • • • • • • • • • • • •		\square				_ ا		
		-becomes grey @ 5.3	33 m				SS-8	M				N`		
								IXI						
-		-gravel layer from 5.	79 to 5.94 m											
ODOU	 JR:	Continued			}_	1.•]		<i>y</i> 1					<u> </u>	<u> </u>
N - I T - 7	None		Prepared by:	ift			-						_	
M - I	Moderate		Checked by: B.H.C	Cooke			_				\		CAI	JIC
	Strong Very Stror	ng	Date:	26						/-	1			ノロ
	_			_										

	Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000 Boring date: 2019-3-7 Supervised by: H. Saeed													ole:	BH/M\	V19-8
	-	ation: 3005 Sh				-]	Monit	oring W	ell: I	nstalled
Dri	ller:	Strata Drilling Gi	roup											S	Sheet 2	of 2
Dri	lling Meth	od: Geoprobe	7822DT - Direc	et Push												
		Strat	igraphy					Sa	mpl	es			0	Headspace	e TOV (ppm)	
Scale (m)	Elev. (m) Depth (m)	De	scription		Symbol	Well Details	Water Level	Sample Type and Number	Condition Blows/	300mm	% Recovery	RQD	닖	20 40	ontent (%)	Remarks and Sample Analyses
_ _ _ _ _7 _	171.11							SS-9 SS-10					N			
_	7.62	Ŭ														Groundwater analyzed for:
-8 - - - - - - - - - - - - - - - - - -		Water Level @ 1.555 r Mar. 2019		OII 21												Metals, PAHs, PHCs, VOCs
ODO N -	None		Prepared by: _	J. Grift				-								
M -	Trace Moderate		Checked by: _	B.H.Cool	ke			-				1			ΛΙ	DIS
	Strong Very Stror	ng	Date: _	19-3-26						7	/-	1	7			<u> </u>

Pro	iect:	Sheppard Phari	macy GP Inc.		Contra	act No	102	934	-000			Boro	ehole: BH19-9	
	ing date:		-		l by: H									
	_		Sheppard Ave East, 1800									Mor	nitoring Well:n/	a
				1 1141	macy I	AVC								
		Strata Drilling (<u>-</u>										Sheet 1 o	f 2
Dri	lling Meth	od: <u>Geoprob</u>	e 7822DT - Direct Push											
		Str	ratigraphy				San	npl	es				Headspace TOV (ppm) 100 200 300 400	
Scale (m)	Elev. (m) Depth (m)		Description	Symbol	Well Details	Water Level Sample		Î		% Recovery	Q	ını	Headspace TOV(%LEL) 20 40 60 80	Remarks and Sample Analyses
	(111)	Ground	Surface Elevation:	Syn	Well	San Tyr		Blo	300	% F	RQD	Odour	20 40 60 80	
	0.08	ASPHALT - 75 mm		××××		SS				70		N	Ψ: : : : : :	
		SAND AND GRAV staining	VEL (FILL), brown, with black				- \							
	0.30		lack to dark brown, moist, trace				/	\setminus						
		-trace oxidation fron	n 0.76 to 2.29 m			SS	-2	1				N E	9	
1							$ \rangle$	/						
.							/							
							/	\setminus						
.						SS	-3	1		70		N	Ф	
							\	/						
)							
·2							- 1/	$\setminus $						
.							\perp	1				,		
						SS	-4	1				N		
							$ \rangle$	/						
.		-becomes light brow -wet from 2.67 to 3.0	m @ 2.67 m				/	Λ						
.3		-wet from 2.07 to 3.0	03 m				/	\setminus						
3		-some to trace oxida	tion staining from 3.05 to 6.86			SS	-5	7		90		N	♥	
		m					\							
)							
							/	\setminus						
.						SS	,)				, (→	
4						55	-6	/				N`		
.							\	/						
							- 1/	\setminus						
							1	\						
		-wet from 4.57 to 5.	11 m			SS	-7	7		100		N	□	Analyses: PHCs, VOCs
							$ \rangle$	/						riics, voes
.5							/							
.							/	\setminus						
.						SS	-8	1				N	Φ:	
												-		
		-wet from 5.56 to 6.	l m)							
.							/	\setminus						
ODOU	∏R∙	Continued						1_					 	
N -1	None		Prepared by:	it										
	Trace Moderate		Checked by: B.H.C	<u>oo</u> ke										
S - S	Strong		-								7	-	RCAI	
VS-	Very Stror	ng	Date: <u>19-3-2</u>	0					7			`		

Pro	ject:	Sheppard Phari	macy GP Inc.			Conti	act	: No: 10)293	34-000			Bor	ehole:	BH1	19-9	
		2019-3-8						Saeed									
Bo	rehole Loc	ation:3005 S	Sheppard Ave	East, 1800 I	Phar	macy	A۱	ve					Moı	nitoring '	Well: _	n/	a
Dri	ller:	Strata Drilling (Group												Sheet	t 2 o	f 2
Dri	lling Meth	od: <u>Geoprob</u>	e 7822DT - Dir	ect Push													
		Str	atigraphy					Sa	ımp	oles				Headsp	ace TOV	(ppm) 400	
Scale	Elev.	Г	Description				evel	pi	ou		very			☐ Headsp	ace TOV(%LEL)	Remarks and
(m)	Depth (m)	L	escription		Symbol	Well Details	Vater L	Sample Type and Number	Condition	Blows/ 300mm	% Recovery	RQD	Odour	20 4 △ Water 20 4	Content		Sample Analyses
						<i>N</i> 1	-	SS-9	Ă	3 H	100	H		20 4	10 60 : : : :	80	Analyses:
_								55)	\bigvee		100		11	:			PHCs, VOCs
_									\mathbb{N}					;			
_		-becomes grey @ 6.8	86 m					SS-10					N	# ₩ :			
-7		-becomes grey (a) 0.0	50 III					35-10	\setminus / \mid				11			:	
- -																	
_									/ \								
_	7.62	End of Borehole @	7.62 m														
-8																	
_																	
_																	
_																	
-9														:			
_																	
_																	
_																	
-10																	
_														:			
_														:			
_														:			
- -11														:			
-																	
_																	
_																	
_																	
ODO N -	UR: None		Prepared by:	J. Grift				_									
T - M -	Trace Moderate		Checked by:	B.H.Coo	ke			_		2		\ [^ /		710
S - VS-	Strong Very Stror	ng	Date:	19-3-26				_			/-	<u> </u>	7		<u> </u>	1	<u>DIS</u>

Proj	ect:	Sheppard Pharmacy GP Inc.			Bore	ehole: BH19-10						
	ing date:		pervised	-							Mor	nitoring Well: n/a
	ehole Loc			-								
		Strata Drilling Group od:Geoprobe 7822DT - Direct Push										Sheet 1 of 2
		Stratigraphy				Se	ımr	les				Headspace TOV (ppm)
Saala	Elev.	Stratigraphy			[e]		-	103	5			100 200 300 400
Scale (m)	(m) Depth	Description	lod	sli	r Lev	and ber	Condition	/s/	% Recovery	_	ır	Headspace TOV(%LEL) 20 40 60 80 Sample Analyses
	(m)	Ground Surface Elevation:	Symbol	Well Details	Wate	Sample Type and Number	Conc	Blows/ 300mm	% R	RQD	Odour	△ Water:Content (%) 20 40 60 80
	0.10	ASPHALT - 100 mm SAND AND GRAVEL (FILL), dry, some black				SS-1	$\setminus \bigwedge$		90		N	
_	0.30	staining SILT (NATIVE), brown, moist, trace gravel					\mathbb{I}					
_		SILI (NATIVE), brown, moist, trace graver					$/ \setminus$					
-		-becomes grey, loose @ 0.76 m				SS-2					N	
-1							$\setminus \mid$					
-												
-											-	
-		-wet from 1.52 to 2.29 m				SS-3	$\backslash \Lambda$		90		N	
-							\mathbb{I}					
-2							$/ \setminus$					
		-becomes brown, some light orange-brown oxidation				SS-4					N	
_		@ 2.29 m					\bigvee					
_							\mathbb{N}					
-3											6	
-		-becomes wet @ 3.05 m				SS-5	$\backslash \Lambda$		100		N	
-							\mathbb{X}					
-							$/ \parallel$					
-						SS-6					N	
-4							\bigvee					
-							M					
	4.55	CV AVENUAL TO A STATE OF THE ST		ī		aa =	/		100			3250
_	4.57	CLAYEY SILT, brown, wet, trace oxidation				SS-7	$\backslash / \! /$		100		N	Analyses: PHCs, VOCs
-5							X					
-							$/ \parallel$					
-	5.33	SILT, brown, moist to wet, trace sand				SS-8					N	⊕ : : : : :
-							\bigvee					
-							$/ \setminus$					
ODOU	 JR:	Continued	 P4									L:
N - N T - T		Prepared by:				-			_			
M - N S - S	Moderate Strong	Checked by: B.H.C				- /		2		7		RCADIS
	Very Stror	g Date: 19-3-2	6			_				1	1	CIUC

		Sheppard Pharn											Bore	ehole:		BH1	9-1	0
	ring date:					-		<u>Saeed</u>					Mor	nitorii	ng We	11:	n/	a
		ation: 3005 S		East, 1800 I	Phari	macy	A	/e										
		Strata Drilling (\mathbf{S}	heet	2 o	f 2
Dri	lling Meth	od: Geoprobe	<u> </u>	ect Push														
		Stra	atigraphy						amp	oles				⊕ Hea	dspace 200	TOV (ppm) 100	
Scale	Elev. (m)	D	escription				evel	Sample Type and Number	l li		very			☐ Hea	dspace			Remarks and
(m)	Depth (m)	D	escription		Symbol	Well Details	ter L	nple se an mber	Condition	Blows/ 300mm	% Recovery	Q.	Odour	20 \(\) W	40 ater Cor		80 (%)	Sample Analyses
					Syı	Well Detai	Wa	S T N	°C	300 300	%	RQD	рО	20	:		80	
_	6.02	-sand layers from 5.9 SANDY SILT, brow						SS-9					N	Φ :	:	:		Analyses:
_		·	,						V									PHCs, VOCs
_				į.					$ \lambda $;		 !	
_				: -:					$/ \setminus$									
-7		-becomes grey @ 6.8	36 m					SS-10	\prod				N			<u>.</u>		
_				:					V							:		
_									$ \Lambda $									
_									$/ \setminus$									
_	7.62	End of Borehole @	7.62 m												:			
-8															:			
_																		
_																		
_																:		
_															:	:		
-9															:			
_															:			
_															:	:		
_															:	:		
_															:			
-10																:		
_																:		
_																		
_																:		
_																		
-11																:		
_																		
_																		
_															:			
_																		
ODO	UR:															:	:	
N -			Prepared by:	J. Grift				-										
M -	Moderate		Checked by:	B.H.Coo	oke			-				1				Λ		DIS
S - VS-	Strong Very Stror	ng	Date:	19-3-26				_			/-	1		1			1	ノ

Bornelode Location: 3005 Sheppard Ave East, 1800 Pharmacy Ave Drillier: Strata Drilling Group Drilling Method: Geoprobe 7822DT - Direct Push Stratigraphy Supervised by: 11. Saced Sheet 1 of 2	Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000												ehole: BH19-11
Strata Drilling Method: Geoprobe 7822DT - Direct Push		_	•		•							Mor	nitoring Well: n/a
Drilling Method: Geoprobe 7822DT - Direct Push					_								
Scale (m) Description													Sheet 1 of 2
Scale Elev (m) Description Ground Surface Elevation: ASPIIALT - 100 mm SAND AND GRAVEL (FILL), black SILT (FILL), brown, moist, trace gravel - 1 - 1 - 2 - 3.30 SILT (FILL), brown, moist, trace gravel - 3.30 SILT (NATIVE), brown, moist, trace gravel - 4 - 3.30 SILT (NATIVE), brown, moist strace gravel - 5.33 m - 5.50 - 5.50 N Amalyses: Firece gravel @ 4.57 m Analyses: Firece gravel @ 4.57 m Analyses: Firece gravel @ 4.57 m	וווע	illig Meui			1								(Diladana TOV (npm)
ASPIALT - 100 mm		T.I	Stratigraphy					mp	les				100 200 300 400
ASPIALT - 100 mm		(m)	Description			Leve	, _H .	01 101	-	overy			Headspace TOV(%LEL) Remarks and Sample Analyses
ASPIALT - 100 mm	(m)			/mbo	'ell etails	ater	ype a	ondit	lows/	Reco	ď	dour	
SAND AND GRAVEL (FILL), black SILT (FILL), brown, moist, trace gravel				S.	≱ Q				3 E		N N	_	20 40 60 80
SS-2	-	0.10						/					
-1	-	0.30	SILT (FILL), brown, moist, trace gravel					$X \mid$					
-1	-						/	\ \ \					
-1	-						SS-2	\rightarrow				N	
SILT (NATIVE), brown, moist -trace gravel and grey mottling from 1.68 to 2.29 m -some to trace orange-brown oxidation from 2.29 to 5.33 m -becomes wet @ 3.05 m SS-6 N Analyses: PHCs, VOCs	-1						\	/					
SILT (NATIVE), brown, moist -trace gravel and grey mottling from 1.68 to 2.29 m -some to trace orange-brown oxidation from 2.29 to 5.33 m -becomes wet @ 3.05 m SS-6 N Analyses: PHCs, VOCs	-							\mathbb{X}					
SILT (NATIVE), brown, moist -trace gravel and grey mottling from 1.68 to 2.29 m -some to trace orange-brown oxidation from 2.29 to 5.33 m -becomes wet @ 3.05 m SS-6 N Analyses: PHCs, VOCs	-						/						
-trace gravel and grey mottling from 1.68 to 2.29 m -some to trace orange-brown oxidation from 2.29 to 5.33 m -becomes wet @ 3.05 m -trace gravel @ 4.57 m -trace gravel @ 4.57 m -Analyses: PHCs, VOCs	-		-white ash layer @ 1.52 m				SS-3	7		90		N	
-2	-	1.68	SILT (NATIVE), brown, moist -trace gravel and grey mottling from 1.68 to 2.29 m					$\sqrt{ }$					
	-2							\mathbb{A}					
	-						/	\setminus					
-3 -becomes wet @ 3.05 m SS-5 N N SS-6 N Analyses: PHCs, VOCs	-		-some to trace orange-brown oxidation from 2.29 to 5.33 m				SS-4					N	
	-		0.00				\	\bigvee					
	-							Λ					
SS-6 N -4 -trace gravel @ 4.57 m SS-7 N Analyses: PHCs, VOCs	-3						/	_\				6	<u> </u>
-4trace gravel @ 4.57 m - N Analyses: PHCs, VOCs	-		-becomes wet @ 3.05 m				SS-5	Λ				N	
-4trace gravel @ 4.57 m - N Analyses: PHCs, VOCs	-						'	XI.					
-4trace gravel @ 4.57 m - N Analyses: PHCs, VOCs	-						/	/\					
-4trace gravel @ 4.57 m - N Analyses: PHCs, VOCs	-						SS-6 \	-				N	
-trace gravel @ 4.57 m SS-7 N Analyses: PHCs, VOCs	-4												
-trace gravel @ 4.57 m SS-7 N Analyses: PHCs, VOCs	-							$X \mid$					
-trace gravel @ 4.57 m SS-7 N Analyses: PHCs, VOCs	-						/						
	-		-trace gravel @ 4.57 m				SS-7	7				N	Analyses:
	-						/	/					PHCs, VOCs
	-5							\mathbb{A}					
	-						/	\setminus					
- -becomes grey @ 5.33 m SS-8 N ⊕	-		-becomes grey @ 5.33 m				SS-8	7				N	$egin{array}{cccccccccccccccccccccccccccccccccccc$
	-						\	V					
	-						/	$^{\prime} \setminus$					
ODOUR:	ODOI	ī R ·					/	_\					
N - None Prepared by: J. Grift	N -1	None	Prepared by:	t									
T - Trace M - Moderate Checked by: B.H.Cooke	M - I	Moderate	Checked by: B.H.C	ooke					2		\ I		
M - Moderate S - Strong VS- Very Strong Checked by: B.H.Cooke Date: 19-3-26 ARCADIS			Date: 19-3-2	6				-	7	/-	1	7	ベレイレン

Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000								Borehole: BH19-11					
Boring date: 2019-3-8 Supervised by: H. Saeed								Moni	toring Well:n	'a			
Borehole Location: 3005 Sheppard Ave East, 1800 Pharmacy Ave													
Driller: Strata Drilling Group Sheet 2 of 2 Drilling Method: Geoprobe 7822DT - Direct Push													
Dri	Stratigraphy Samples De Headspace TOV (ppm)												
	T.I	Stratigraphy			_		mples				Headspace TOV (ppm) 100 200 300 400		
Scale (m)	Elev. (m) Depth (m)	Description	Symbol	Well Details	Water Leve	Sample Type and Number	Condition Blows/ 300mm	% Recovery	RQD		Headspace TOV(%LEL) 20 40 60 80 1 1 1 1 Water Content (%) 20 40 60 80	Remarks and Sample Analyses	
_						SS-9				N		Analyses: PHCs, VOCs	
-7 -						SS-10				N			
_	7.62	End of Borehole @ 7.62 m											
-8 - -													
_ _9 _													
_													
-10 -													
_													
-11 - -													
- - 													
ODO		Prepared by: J. G	rift										
M - 1 S -	Trace Moderate Strong	Checked by: B.H.	Cooke			_	9	/_	1	\mathbb{R}	CAI	DIS	
VS-	Very Stror	Date: 19-3	-20				,		~ 1	1			

Project: Sheppard Pharmacy GP Inc. Contract No: 102934-000 Borehole: BH19-12											2				
Boring date: 2019-3-8 Supervised by: H. Saeed															
Borehole Location: 3005 Sheppard Ave East, 1800 Pharmacy Ave Monitoring Well: n/a												<u>a</u>			
Driller: Strata Drilling Group Sheet 1 of 2													of 2		
Drilling Method: Geoprobe 7822DT - Direct Push															
		Str	atigraphy	Samples								Headspace TOV (ppm) 100 200 300 400			
Scale	Elev. (m) Depth				-	Ne.			ery				TOV(%LEL)	Remarks and	
(m)		Description			lils ,	er Le ple s and	dition	vs/ nm	% Recovery	_	l II	20 40	60 80 	Sample Analyses	
	(m)	Ground	Surface Elevation:	Symbol	Well Details	Water Level Sample Type and Number	Con	Blows/ 300mm	% R	RQD	Odour	△ Water Co	ntent (%) 60 80		
	0.08	ASPHALT - 75 mm SAND AND GRAVEL (FILL)				SS-1	M		80		N				
	0.30		rown with some orange, moist	_ XXX			V								
_		, ,	0 /				$ \Lambda $								
_		L				SS-2	\square				N	 →			
-1		-becomes dark brown			55-2	\mathbb{N}				N					
_											N				
_			ark brown to brown, moist to												
_	1.52					SS-3	H		60			• • • • • • • • • • • • • • • • • • • •			
-		wet, trace gravel					$ \rangle / $								
-2							$ \lambda $								
-							VV								
-						SS-4	\square				N			Analyses: PHCs, VOCs	
-							V								
-							$ \Lambda $								
-3	2.05	CHUTC			00.5	Ш		100		N		- 			
-	3.03	SILT, brown, wet, to trace to some orange 5.33 m	tace graver te-brown oxidation from 3.05 to			SS-5	\mathbb{N}		100		IN				
-		3.33 III													
-															
-						SS-6	H				N			Analyses:	
-4							V							PHCs, VOCs	
-							$ \Lambda $								
_							\square								
_						SS-7	M		100		N				
- -5							IXI								
_						/									
_		-becomes grey @ 5.3	33 m			SS-8	H				N				
_		2,0					V								
-							$ \Lambda $								
		Continued					/ \					<u> </u>	: :		
ODOU N - N		Continued	Prepared by:	it											
T - Trace M - Moderate Checked by: B.H.Co										\			ΛΙ		
S - S	Strong Very Stror	ησ	Date: 19-3-2						/-	4	H		Al	DIS	
۰ - د. ۷	, cry Suoi	1 5					*	,	_	_					

									Borehole: BH19-12						
Boring date: 2019-3-8 Supervised by: H. Saeed											Monitoring Well: <u>n/a</u>				
Borehole Location: 3005 Sheppard Ave East, 1800 Pharmacy Ave Driller: Strata Drilling Group													Cl. 4.2	6.0	
Driller: Strata Drilling Group Sheet 2 of 2 Drilling Method: Geoprobe 7822DT - Direct Push															
								C		1				Headspace TOV (ppm)	
	Elev.	Sur	atigraphy				<u></u>			oles	>			Headspace TOV (ppm) 100 200 300 400	
Scale (m)	(m) Depth	Γ	Description		loc	ls	r Leve	Sample Type and Number	lition	.s/	% Recovery		ır	Headspace TOV(%LEL) 20 40 60 80	Remarks and Sample Analyses
	(m)				Symbol	Well Details	Wate	Samp Type Numl	Condition	Blows/ 300mm	% Re	RQD	Odour	△ Water Content (%) 20 40 60 80	
								SS-9	X				N		
_									$\setminus \mid$						
_															
_									$/ \setminus$						
-7								SS-10	\				N		
_															
_									$/ \parallel$						
_	7.62	End of Borehole @	7.62 m												
_															
-8															
_															
_															
_															
-9															
_															
_															
_															
_															
-10															
_															
_															
-11															
_															
_															
_															
_															
ODO		l	Dranged by	J. Grift										1 : : :	
The Tropic															
S - Strong									JIS						
VS- Very Strong Date: 19-3-26															



Arcadis Canada Inc.

121 Granton Drive, Suite 12, Richmond Hill, Ontario L4B 3N4

Tel 905 764 9380

www.arcadis.com