DNV Landslide Risk Assessment 2307 Berkley Avenue 11/09/05 Raining, heavy rain for several days prior to visit.





500 - 1045 Howe Street Vancouver, BC Canada V6Z 2A9

THICKNESS OF LOOSE MATERIALS	<1 m	1-2 m	2-3 m	>3 m
CREST LINE			N	
8.3 m DOWNSLOPE FROM FENCE		\checkmark		
8.3 m DOWNSLOPE FROM FENCE		$\overline{}$		

SLOPE BELOW FENCE/ RETAINING STRUCTURE

SLOPE = 36 CRACKS SLIDES EROSION

OBSERVATIONS: Slope thickly covered by brush, no cracks, slides, or erosion evident

TREES BELOW FENCE/ RETAINING STRUCTURE		STRAIGHT	PISTOL-BUTT	LEANING
PERCENT CONIFER:	<25%	$\mathbf{\nabla}$		
OBSERVATIONS: Few trees imme	ediately below crest, mostly shrubs an	nd brush		

RETAINING STRUCTURES		YES 🗹	NO	HEIGHT= 1.4m	
TYPE	BLOCKS		TIMBER CRIB	OTHER:	
			\square		
DEFORMATION	UNDEFORMED	CRACKED	SETTLED	BULGING	
OBSERVATIONS: No deform	nation observed				

DEFORMATION IN BACKYARD	YES	NO	2		AH02					
LOCATION:							CD	ACKED		
DESCRIPTION:					WALL	AH01				
POOLS	YES 🗹	NO		s 🗹 NO		CRE	EST SHED	HO		N
DESCRIPTION: Settlement around pool, cracked pool deck										
SEEPAGE/ SPRINGS IN OR BELOW FILL	YES	YES NO					BEF	RKLEY AVE.		
OBSERVATIONS: None observed	I			НО	USE DISTAN	CE TO C	CREST =	= 11.5 m		
RECEIVES SURFACE RUNOFF FR	BACK	YARD	½ R	OOF	FULL ROOF	ULL ROOF FRONT		STREET		
RECEIVES SURFACE RUNOFF FR		2	2	Δ	\checkmark					
OBSERVATIONS:										
CONNECTED TO STORM SEWER				Y	ES N	o⊻	10	ISURE		
OWNERS COMMENTS: DNV reports that this	s property is not c	onnected to	storm	n sewer						
GENERAL OBSERVATIONS										

Oversteepening of slope at west side of crest due to compost deposit

• Slope below property is not visible due to very dense shrubs



Figure 1. 2307 Berkley Avenue – Front of the house



Figure 2. 2307 Berkley Avenue – Settling around pool deck



Figure 3. 2307 Berkley Avenue – Backyard and settlement around pool

				110ject 110. 1 0404-002-	01
Drill Insp Logg	ation : 2307 Berkley Method : Dutch Hand Auger ection Date : 09 Nov 05 ged by : SF/JB fewed by : MJP				
Depth (m)	AUGERHOLE: BGC05-2307BER-AH01 on Slope Crest FINAL DEPTH OF AUGERHOLE: 3.15 m THICKNESS OF LOOSE MATERIALS: 2.60 m Lithologic Description	Depth To Water Table	Depth (m)	AUGERHOLE: BGC05-2307BER-AH02 8.3 m Downslope FINAL DEPTH OF AUGERHOLE: 1.15 m THICKNESS OF LOOSE MATERIALS: 1.15 m minimum Lithologic Description	Depth To Water Table
0.0 - -	ORGANIC COMPOST MATERIAL Silt sized material, trace fine to medium sand, non plastic, dark brown, moist, homogeneous [FILL]		0.0 - -	ORGANICS Silt, very loose, dark brown, leaves, roots, bark, greasy SILT (ML) Trace fine to coarse sand, trace fine gravel, low plastic, very	
0.5 	SILT (ML) Gravel sized clasts of silt, non plastic, soft, brown and dark brown, homogeneous, non dilatant [FILL]		- 0.5 - -	soft grades to soft, max particle size = 15 mm, brown, homogeneous, non dilatant [FILL]	
- 1.0 - -	SAND (SW) Fine to coarse sand, some silt, trace fine to coarse gravel, loose, max particle size = 25 mm, sub-rounded, brown, moist, homogeneous, charcoal present [FILL]		- 1.0 - -	1.15 m: EOH - Refusal on wood	
- 1.5 - -			- 1.5 - -		
- 2.0 - -	1.90 m - 2.05 m: Buried soil / charcoal layer		- 2.0 - - -		
2.5 - - -	2.50 m - 2.60 m: Soil gradually changes into unit at 2.60 m SILT (ML) Trace fine to medium sand, fine gravel sized silt clasts, non plastic, firm to stiff, light grey with some orange mottling, moist, homogeneous [COLLUVIUM]		2.5 - - - -		
-3.0			-3.0		
	(Continued on next	t page	e)		
BC	BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY Vancouver, BC Phone: (604) 684 5900			Client: District of North Vancouver	

INSPECTION LOCATION # 2307 Berkley

Project : DNV Landslide Risk Assessment

600, GDT

Project No. : 0404-002-01

Page 1 of 2

Drill Insp Log	ation : 2307 Berkley I Method : Dutch Hand Auger Dection Date : 09 Nov 05 ged by : SF/JB iewed by : MJP				
Depth (m)	AUGERHOLE: BGC05-2307BER-AH01 on Slope Crest FINAL DEPTH OF AUGERHOLE: 3.15 m THICKNESS OF LOOSE MATERIALS: 2.60 m Lithologic Description	Depth To Water Table	Depth (m)	AUGERHOLE: BGC05-2307BER-AH02 8.3 m Downslope FINAL DEPTH OF AUGERHOLE: 1.15 m THICKNESS OF LOOSE MATERIALS: 1.15 m minimum Lithologic Description	Depth To Water Table
-	3.15 m: EOH - Refusal on dense sediments	-	-		
- - 3.5 -			- - 3.5 -		
-			-		
- 4.0 -			- 4.0 - -		
- - - 4.5			- - - 4.5		
_			-		
- - 5.0			- - 5.0		
_			-		
- - 5.5 -			- - 5.5 -		
-			-		
- 6.0 -			- 6.0 -		
BC	GC BC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY Vancouver, BC Phone: (604) 684 5900			Client: District of North Vancouver	

INSPECTION LOCATION # 2307 Berkley

Project : DNV Landslide Risk Assessment

Project No. : 0404-002-01

Page 2 of 2

DNV Landslide Risk Assessment 2321 Berkley Avenue 11/09/05 Raining, heavy rain for several days prior to visit.



CRACKS



500 - 1045 Howe Street Vancouver, BC Canada V6Z 2A9

SLIDES

THICKNESS OF LOOSE MATERIALS	<1 m	1-2 m	2-3 m	>3 m				
CREST LINE		\square						
10 m DOWNSLOPE FROM FENCE		$\mathbf{\nabla}$						
			SI OPE = 37 [°]	1				

SLOPE BELOW FENCE/ RETAINING STRUCTURE

OBSERVATIONS: Minor slope erosion.

TREES BELOW FENCE/ RETAINING STRUCTURE		STRAIGHT	PISTOL-BUTT	LEANING
PERCENT CONIFER:	100%	$\mathbf{\nabla}$		
OBSERVATIONS: Few trees imm	nediately below crest, mostly shrubs an	id brush.		

RETAINING STRUCTURES		YES 🗹	NO	HEIGHT= 1.3 m
TYPE	BLOCKS	CONCRETE	TIMBER CRIB	OTHER:
			\checkmark	
DEFORMATION	UNDEFORMED	CRACKED	SETTLED	BULGING
			\checkmark	
OBSERVATIONS: Part of re	taining wall is slightly sagging	g. Possible older retaining	g wall down slope of existing	g wall (covered by brush)

DEFORMATION IN BACKYARD	YES 🗹	NO				AH02 🤦	-	HALLOW
LOCATION: North end of crest line.						10 m		LUMP
DESCRIPTION: Shallow slump in lawn slopin	g 12 [°] towards gard	den.						
				RF				
					ALL/FENCE	LAWN		
POOLS	YES	NO	ם	CRE	GARDEN			N
DESCRIPTION: None observed.	I				DECK	Но	JSE	
SEEPAGE/ SPRINGS IN OR BELOW FILL	YES 🗹	NO					BERKL	EY AVENUE
OBSERVATIONS: Evidence of minor seepag	e 10 m down slop	e.		но	USE DISTAN	СЕ ТО С	REST =	5.3 m
	•							
RECEIVES SURFACE RUNOFF FR	OM BACK	-	, =	OOF	FULL ROOF	FRONT	r yard	STREET
		1	Y	4	\checkmark			
OBSERVATIONS:								
CONNECTED TO STORM SEWER				YI	ES N	o⊻	U	ISURE
OWNERS COMMENTS: DNV reports that this	s property is not co	onnected to	storm	sewer				
GENERAL OBSERVATIONS								
 Crest of slope begins 5.3 m from house in 	middle of backya	rd						



Figure 1. 2321 Berkley Avenue – View of front of the house



Figure 2. 2321 Berkley Avenue – View looking north along crest



Figure 3. 2321 Berkley Avenue – Settled retaining wall

INSPECTION LOCATION # 2321 Berkley

Project : DNV Landslide Risk Assessment

Page 1 of 1 Project No. : 0404-002-01

Location : 2321 Berkley

Drill Method : Dutch Hand Auger Inspection Date : 09 Nov 05

Logged by : MB/ES

Reviewed by : MJP

600, GDT

		,			·
	AUGERHOLE: BGC05-2349BER-AH01 on Slope Crest FINAL DEPTH OF AUGERHOLE: 1.47 m THICKNESS OF LOOSE MATERIALS: 1.47 m	able		AUGERHOLE: BGC05-2349BER-AH02 10 m Downslope FINAL DEPTH OF AUGERHOLE: 1.50 m THICKNESS OF LOOSE MATERIALS: 1.30 m	able
Depth (m)	Lithologic Description	Depth To Water Table	Depth (m)	Lithologic Description	Depth To Water Table
-0.0-		_	-0.0		
- - - 0.5 -	SILT (ML) Sandy, fine to medium, non plastic, soft, dark brown, moist, organic odour and organics [TOPSOIL] SAND (SP) Fine to medium sand, trace silt, trace fine to medium gravels, poorly graded, loose, max particle size = 20 mm, sub rounded, brown, moist, homogeneous, [FILL]		- - - 0.5 -	SAND (SM) Fine sand, silty, poorly graded, loose, dark brown, no odour, moist, homogeneous, no cementation, trace rootlets [TOPSOIL] SAND (SM) Fine to coarse sand, silty, trace fine to medium gravel sized silt clasts, max particle size = 10 mm, poorly graded, loose, brown, no odour, moist, homogeneous, no cementation, trace rootlets [FILL] SILT (ML) and SAND (SP) Fine sand, gravel sized clasts of silt, low plastic, soft, grey brown with some orange motified to the three methods.	
- 1.0 	SILT (ML) Some fine sand, trace fine to medium gravel, non plastic, soft, brown, moist, charcoal and bark, gravel max particle size = 20 mm, sub rounded [FILL] GRAVEL (GP) and SAND (SP) Medium gravel, fine to medium sand, poorly graded, loose, maximum particle size = 20 mm, sub angular to sub rounded, orange brown, moist, homogeneous		- - 1.0 -	homogeneous, no cementation, slow dilatency, trace rootlets [FILL/ COLLUVIUM]	Y
- 1.5 - -	[FILL] SILT (ML) Non plastic, firm, light grey, gravel sized silt clasts with orange staining, dry, homogeneous, orange mottling decreases with depth [Weathered GLACIOMARINE] 1.47 m - EOH Refusal on stiff material No groundwater encountered		- 1.5 - -	SAND (SP) Fine sand, some silt, stiff, light brown to grey with orange mottling, no odour, wet, homogeneous, no cementation [Weathered GLACIOMARINE] 1.5 m - EOH Refusal on stiff material Groundwater encountered at 1.3 m	
- - 2.0 -			- - 2.0 -		
- - - 2.5 - -			- - - 2.5 - -		
- - 3.0			- - 3.0		
BC	AN APPLIED EARTH SCIENCES COMPANY Vancouver, BC Phone: (604) 684 5900			Client: District of North Vancouver	

DNV Landslide Risk Assessment 2335 Berkley Avenue 11/10/05 Raining, heavy rain for several days prior to visit.





500 - 1045 Howe Street Vancouver, BC Canada V6Z 2A9

THICKNESS OF LOOSE MATERIALS	<1 m	1-2 m	2-3 m	>3 m
CREST LINE			\checkmark	
10 m DOWNSLOPE FROM SLOPE CREST		\square		
			SLOPE = 36 [°]	
SLOPE BELOW FENCE/ RETAINING STRUCT	TURE	CRACKS	SLIDES	EROSION

OBSERVATIONS: None observed; slope is heavily vegetated.

TREES BELOW FENCE/ RETAINING STRUCTURE		STRAIGHT	PISTOL-BUTT	LEANING
PERCENT CONIFER:	95%	$\mathbf{\nabla}$		
OBSERVATIONS: Many very old a	and large conifers.			

RETAINING STRUCTURES		YES	№ 🗹	HEIGHT= n/a			
ТҮРЕ	BLOCKS	CONCRETE	TIMBER CRIB	OTHER:			
DEFORMATION	UNDEFORMED	CRACKED	SETTLED	BULGING			
OBSERVATIONS: None observed.							

DEFORMATION IN BACKYARD	YES	№ 🗹					AH02	10 m	
LOCATION: DESCRIPTION: Minor localized settlement ne	ar house (<10 cm).					TTT T		
POOLS	YES	№ 🗹		CR	EST	TILED	X	HOUSE	
DESCRIPTION: None observed.						GROUN MINOR SETTLI	/		
SEEPAGE/ SPRINGS IN OR BELOW FILL	YES	№ 🗹					/	BERKLE	EY AVENUE
OBSERVATIONS: None observed.				НО	USE D	ISTAN	CE TO C	CREST =	• 16 m
RECEIVES SURFACE RUNOFF FR			⁄₂ R(√	00F		ROOF	FRON	r yard	STREET
OBSERVATIONS:									
CONNECTED TO STORM SEWER					ES	N	οV	U	ISURE
OWNERS COMMENTS: DNV reports that this	s property is not co	onnected to sto	orm	sewer					
GENERAL OBSERVATIONS									

- Water dripping from deck causes lawn to be saturated near house.
- Minor settlement in tiles by garden and lawn by house.
- Compost and garden waste deposited on crest and behind fence.



Figure 1. 2335 Berkley Avenue – Front of the house



Figure 2. 2335 Berkley Avenue – View looking north along fenceline

INSPECTION LOCATION # 2335 Berkley

Project : DNV Landslide Risk Assessment

Page 1 of 1 Project No. : 0404-002-01

Location : 2335 Berkley

Drill Method : Dutch Hand Auger Inspection Date : 10 Nov 05 Logged by : SF/JB

Reviewed by : MJP

	AUGERHOLE: BGC05-2335BER-AH01 on Slope Crest FINAL DEPTH OF AUGERHOLE: 2.35 m	ole		AUGERHOLE: BGC05-2335BER-AH02 10 m Downslope FINAL DEPTH OF AUGERHOLE: 0.90 m	ole
<u> </u>	THICKNESS OF LOOSE MATERIALS: 2.30	Tat	<u> </u>	THICKNESS OF LOOSE MATERIALS: 0.90 m minimum	Tat
Depth (m)	Lithologic Description	Depth To Water Table	Depth (m)	Lithologic Description	Depth To Water Table
-0.0			-0.0-		
-	SILT (ML) Some fine to coarse sand, trace fine gravel, very soft, dark brown, homogeneous, moist, non plastic, roots, organics [TOPSOIL]		-	ORGANICS Silty, trace fine sand, very loose, dark brown, moist, homogeneous, roots, bark [TOPSOIL]	
- 0.5	SAND (SW) Fine to coarse sand, silty, some fin to coarse grained gravel, well graded, very loose, max particle size = 40 mm, angular to sub rounded, brown, moist, homogeneous, trace charcoal, roots		- 0.5	SILT (ML) Trace fine sand, gravel sized silt clasts, non plastic, very soft, light grey and brown, homogeneous, non dilatant [FILL]	
-	[FILL]		-	SILT (ML) Some fine to coarse sand, trace fine gravel, non plastic, very soft, light to dark orange brown, homogeneous, charcoal present, some roots [FILL]	
1.0	ORGANICS Partially decomposed wood, dark brown, moist, very loose [FILL]	[—1.0	SILT (ML) Trace fine to medium sand, gravel sized silt clasts, non plastic, soft, homogeneous, trace roots	
-	SAND (SW) Fine to coarse sand, silty, some fine to coarse grained gravel, well graded, very loose, max particle size = 40 mm, angular to sub rounded, brown, moist, homogeneous, trace charcoal, roots [FILL]	1	-	[COLLUVIUM] SAND (SW) Fine to coarse sand, gravelly, fine gravel, trace silt, well graded, loose to compact, max particle size = 5 mm, sub angular, moist, homogeneous [COLLUVIUM]	
	SILT (ML) Fine gravel sized silt clasts, non plastic, soft, moist, homogeneous, light yellow to grey [FILL] SILT (ML) Some fine to coarse sand, some fine to coarse gravel, non		—1.5 - -	0.90 m: EOH - Refusal on root. Three attempts made, all refused on roots.	
_	plastic, soft, brown, organics, roots, max particle size = 25 mm, angular to sub-rounded, homogeneous [FILL]		-		
2.0 -			2.0 -		
_	SILT (ML) Trace fine sand, low plastic, firm to stiff, light grey with trace mottling, moist, homogeneous [FILL or COLLUVIUM]		-		
- 2.5	2.30 m - Material becomes compact 2.35 m: EOH - Refusal as material is too compact to auger through.		- 2.5 -		
-			-		
- - 3.0			- - 3.0		
1	1	<u> </u>		1	
	BGC ENGINEERING INC.				
BC	AN APPLIED EARTH SCIENCES COMPANY			Client: District of North Vancouver	
	Vancouver, BC Phone: (604) 684 5900				

DNV Landslide Risk Assessment 2349 Berkley Avenue 11/10/05 Raining, heavy rain for several days prior to visit.





500 - 1045 Howe Street Vancouver, BC Canada V6Z 2A9

THICKNESS OF LOOSE MATERIALS	<1 m	1-2 m	2-3 m	>3 m
CREST LINE		\checkmark		
10 m DOWNSLOPE FROM SLOPE CREST		\square		
			SLOPE = 35 [°]	

SLOPE BELOW FENCE/ RETAINING STRUCTURE CRACKS SLIDES EROSION OBSERVATIONS: Evidence of erosion below trees Image: Creation of the state of t

TREES BELOW FENCE/ RETAINING STRUCTURE		STRAIGHT	PISTOL-BUTT	LEANING
PERCENT CONIFER:	90%	V	$\mathbf{\nabla}$	
OBSERVATIONS: Some pistol but	tted trees in upper 10m of slope, gene	erally straight below 10m	1	

RETAINING ST	RUCTURES	YES 🗹	NO	HEIGHT= 0.45 m			
TYPE	BLOCKS	CONCRETE	TIMBER CRIB	OTHER: Wooden beams behind vertical metal spikes			
				\square			
DEFORMATION	UNDEFORMED	CRACKED	SETTLED	BULGING			
				\square			
OBSERVATIONS: Fence above the retaining structure is tilted downslope.							

DEFORMATION IN BACKYARD	YES 🗹	NO				AH02		
LOCATION: Backyard	1					e e e e e e e e e e e e e e e e e e e	-	
DESCRIPTION: Settlement: yard dips downslo	ope within 1.5m of	^r retaining v	vall.			10 m \		
Shed settling on west side							AH01	N
						ΓL	AWN	۱ <i>۱</i>
POOLS	YES	NO 🗹	3	CR	EST	F	HOUSE	
DESCRIPTION: None observed								
SEEPAGE/ SPRINGS IN OR							BER	KLEY ROAD
BELOW FILL	YES	YES NO						
OBSERVATIONS: None observed				HOUSE DISTANCE TO CREST = 14.2m				: 14 2m
RECEIVES SURFACE RUNOFF FR	OM BACKY	(ARD	½ R	OOF	FULL ROOF	FRON	T YARD	STREET
	<u>√</u>		2	Δ	Z			
OBSERVATIONS: Front yard dips towards roa	ad							
CONNECTED TO STORM SEWER				Y	ES N	o⊻	U	ISURE
OWNERS COMMENTS: DNV reports that this	s property is not co	onnected to	storm	n sewer				
GENERAL OBSERVATIONS								
 Large amount of compost/debris pushed or 	over edge of crest							



Figure 1. 2349 Berkley Avenue – Front of the house



Figure 2. 2349 Berkley Avenue – View down-slope from crest



Figure 3. 2349 Berkley Avenue – Retaining wall/fence near crest

INSPECTION LOCATION # 2349 Berkley

Project : DNV Landslide Risk Assessment

Page 1 of 1 Project No. : 0404-002-01

Location : 2349 Berkley

Drill Method : Dutch Hand Auger Inspection Date : 10 Nov 05 Logged by : MB/ES

Reviewed by : MJP

	AUGERHOLE: BGC05-2349BER-AH01 on Slope Crest FINAL DEPTH OF AUGERHOLE: 2.20 m THICKNESS OF LOOSE MATERIALS: 1.75 m	Table		AUGERHOLE: BGC05-2349BER-AH02 10 m Downslope FINAL DEPTH OF AUGERHOLE: 1.70 m THICKNESS OF LOOSE MATERIALS: 1.40 m	Table
Depth (m)	Lithologic Description	Depth To Water Table	Depth (m)	Lithologic Description	Depth To Water Table
-0.0-	SAND (SM)		-0.0	SAND (SM)	
- - 0.5 - - -	Fine to medium sand, silty, poorly graded, loose, dark brown, no odour, moist, homogeneous, no cementation [TOPSOIL] SAND (SM) Fine to medium sand, silty, trace fine to coarse gravel, poorly graded, loose, brown, no odour, moist, homogeneous, no cementation, trace rootlets, trace garbage and charcoal, trace fine gravel sized clasts of silt [FILL]		- - 0.5 - -	Fine sand, silty, trace fine gravel, poorly graded, loose, dark brown, no odour, moist, homogeneous, no cementation, trace rootlets [TOPSOIL] SAND (SM) Fine sand, silty, trace fine to medium gravel, max particle size = 10 mm, poorly graded, loose, dark brown, no odour, moist, homogeneous, no cementation, trace rootlets [FILL] SILT (ML) and SAND (SP) Fine sand, trace fine to medium gravel, poorly graded, max particle size = 10 mm, low plastic, loose to compact, light brown with some orange mottling, no odour, moist, homogeneous, no cementation, slow dilatency, trace rootlets	
-			-	[COLLUVIUM]	
—1.0 - -			1.0 -		
- 1.5 - - -	1.60 - 1.75 m - Organic layer <u>1.75 m - Charcoal rich</u> SILT (ML) Sandy, fine, low plastic, stiff, grey and brown with trace orange mottling, no odour, dry to moist, homogeneous, no		- 1.5 - -	SILT (ML) Sandy, fine sand, trace fine gravel, low plastic, stiff, light brown to grey with some orange mottling, no odour, moist, homogeneous, no cementation [Weathered GLACIOMARINE] 1.7 m - EOH Refusal on stiff material No groundwater encountered	-
2.0 	cementation, non dilatent [Weathered GLACIOMARINE] 2.2 m - EOH Refusal on stiff material No groundwater encountered		2.0 - -		
- - 2.5 - -			- - 2.5 -		
- - - 3.0			- - - 3.0		
BC	BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY Vancouver, BC Phone: (604) 684 5900			Client: District of North Vancouver	

DNV Landslide Risk Assessment 2363 Berkley Avenue 11/10/05 Raining, heavy rain for several days prior to visit.





500 - 1045 Howe Street Vancouver, BC Canada V6Z 2A9

<1 m	1-2 m	2-3 m	>3 m
	Ы		
	K		
	<1 m	<1 m 1-2 m	<1 m 1-2 m 2-3 m

SLOPE BELOW FENCE/ RETAINING STRUCTURE

SLOPE = 38 CRACKS SLIDES EROSION

OBSERVATIONS: Site of previous landslide. Considerable surficial erosion.

TREES BELOW FENCE/ RETAINING STRUCTURE		STRAIGHT	PISTOL-BUTT	LEANING
PERCENT CONIFER:	40%	\square	K	
OBSERVATIONS: Slight pistol but	tt in some trees; most trees are straigh	nt.		

RETAINING STRUCTURES		YES	№ 🗹	HEIGHT= n/a			
TYPE	BLOCKS	CONCRETE	TIMBER CRIB	OTHER:			
DEFORMATION	UNDEFORMED	CRACKED	SETTLED	BULGING			
OBSERVATIONS: None observed.							

DEFORMATION IN BACKYARD	YES	NO	⊿			H02	
LOCATION:					SLIDE	10 m	
DESCRIPTION: Garden on west side of backyard dips towards slope						LAWN	N N
POOLS	YES	NO	⊿	CRE	GARDEN	HOUSE	
DESCRIPTION : Evidence of a removable aboveground pool. Currently not setup.							
SEEPAGE/ SPRINGS IN OR BELOW FILL	YES 🗹	NO				BERK	LEY AVENUE
OBSERVATIONS: Buried pipe empties a considerable amount of water onto slope					HOUSE DISTANCE TO CREST = 12.8 m		
RECEIVES SURFACE RUNOFF FR		BACKYARD		DOF	FULL ROOF	FRONT YARD	STREET
				1			

OBSERVATIONS: Water collected from roof possibly drains into buried pipe mentioned above. Driveway slopes towards backyard, although a drain is present.

CONNECTED TO STORM SEWER	YES	NO 🗹	UNSURE		
OWNERS COMMENTS: DNV reports that this property is not connected to storm sewer.					

GENERAL OBSERVATIONS

- A high-flow drainage pipe empties on to top of slope at south end of yard.
- Site of a recent landslide between 2363 and 2349 Berkley Road.
- Balcony to crest distance is 9.8 m



Figure 1. 2363 Berkley Avenue – Front of the house



Figure 2. 2363 Berkley Avenue – View looking north along crest



Figure 3. 2363 Berkley Avenue – View looking south along crest

INSPECTION LOCATION # 2363 Berkley

Project : DNV Landslide Risk Assessment

Page 1 of 1 Project No. : 0404-002-01

Location : 2363 Berkley

Drill Method : Dutch Hand Auger Inspection Date : 10 Nov 05 Logged by : MB/ES

Reviewed by : MJP

01.GPJ 800.GDT

	AUGERHOLE: BGC05-2363BER-AH01 2 m back from Slope Crest FINAL DEPTH OF AUGERHOLE: 2.00 m	e		AUGERHOLE: BGC05-2363BER-AH02 10 m Downslope FINAL DEPTH OF AUGERHOLE: 1.40 m	e
	THICKNESS OF LOOSE MATERIALS: 1.30 m	Tab		THICKNESS OF LOOSE MATERIALS: 1.40 m minimum	Tab
Depth (m)	Lithologic Description	Depth To Water Table	Depth (m)	Lithologic Description	Depth To Water Table
-0.0-			-0.0-		
- - - - 0.5	SAND (SM) Fine sand, silty, poorly graded, loose, dark brown, no odour, moist, homogeneous, no cementation, trace rootlets [TOPSOIL] SILT (ML) and SAND (SP) Fine sand, poorly graded, some gravel sized silt clasts, low plastic, soft, grey and brown with some orange mottling, no odour, moist, homogeneous, no cementation, [FILL] SAND (SM) Fine to coarse sand, silty, trace fine gravel, poorly graded, loose, maximum particle size = 3 mm, sub-rounded, brown, no odour, moist, homogeneous, no cementation, trace	/	- - - - 0.5 -	SILT (ML) and SAND (SP) Fine sand, trace fine to medium gravel, trace cobbles, some gravel sized silt clasts, low plastic, soft, brown with trace orange brown mottling, no odour, moist, homogeneous, no cementation, trace rootlets, trace charcoal [FILL/ COLLUVIUM] 0.60 m: Material density grades to 'loose to compact'	
-	rootlets and wood [FILL]		-		
-	[,]		-		
- 1.0			- 1.0		
-			-		
-	1.15 - 1.30 m: Organic rich layer		-		
-		Ţ	-		
- - 1.5 -	SILT (ML) Sandy, fine, some fine to coarse gravel sized silt clasts, low plastic, firm, grey with orange mottling, no odour, moist, homogeneous, no cementation, slow dilatent, trace rootlets [COLLUVIUM]		- - 1.5 -	1.40 m: EOH - Refusal on cobbles	
- - - 2.0	SAND (SP) Fine sand, trace silt, poorly graded, compact, grey to light brown with orange mottling, no odour, moist, homogeneous, no cementation [Weathered GLACIOMARINE]	_	- - - 2.0		
-	2.00 m: EOH - Refusal on compact material Groundwater encountered at 1.70 m		-		
- 2.5			- 2.5		
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- 3.0			- 3.0		
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	BGC ENGINEERING INC.				
	AN APPLIED EARTH SCIENCES COMPANY			Client: District of North Vancouver	
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	Vancouver, BC Phone: (604) 684 5900				