

Appendix G

Soils, Terrain and Surficial Geology

Appendix G1

***Terrain and Soil Map Legends
– Terrestrial Local Study Area***

TERRAIN LEGEND FOR TLSA MAPPING

Table G1-1: Parent Materials of the Terrestrial Local Study Area

PARENT MATERIALS			
Holocene			
O	Organic Deposits		Undifferentiated fen and bog deposits; nutrient poor to rich and commonly strongly acidic to neutral acid conditions; areas with development of sphagnum in closed drainage systems; woody to fibrous to mucky peat underlain by mineral sediment at depth; includes decomposed peat derived from sedge and brown moss origin with a high water table.
C	Colluvial Deposits		Slope and slump deposits formed by gravity-induced movement; confined to valley slopes and floors.
E	Eolian Deposits		Wind deposited sediment; well sorted medium to fine grained sand and minor silt; includes both active and vegetated deposits.
L	Lacustrine Deposits		Sediments deposited in and adjacent to recent lakes; offshore sand, silt and clay with some organics; near shore sand and silt with some gravel.
A	Alluvial Deposits		Sand, silt, clay, gravel and organic sediments deposited by modern streams; commonly well sorted or stratified.
Pleistocene			
Fg	Glaciofluvial Deposits	Fg	<i>Distal</i> (proglacial) stratified gravel and sand, minor silt, clay, deposited by glacial meltwater subareally in front of the ice (outwash).
M	Glacial Deposits/Moraine	M	<i>Undetermined</i> - Unsorted to poorly sorted diamicton deposited as till (a mixture of clay, silt, sand, minor pebbles, cobbles and boulders) at the ice margin or beneath a glacier.

Table G1-2: Topographic Form of Parent Materials of the Terrestrial Local Study Area

Topographic Form		
b	Blanket	Deposit thickness ranging between approximately 1 to 2 m; commonly occurs as a drape either completely masking or partially revealing the geomorphic pattern of the underlying material.
c	Channeled	Erosional meltwater channels developed in a subglacial or proximal environment.
d	Drumlinoid	Glacially streamlined landform parallel to ice flow direction.
e	Eroded	Surface eroded by glacial meltwater; often capped by a boulder lag and/or a thin deposit of sand and gravel.
f	Fan	Gently sloping apron shaped mass of deposited material.
g	Gullied	Slopes dissected by modern ravines created by intermittent runoff.
h	Hummocky	Assemblage of approximately equi-dimensional hills and hollows; moderate to high relief (commonly greater than 2 m of relief).
k	Collapse	Depressional features in otherwise level topography; commonly occur as kettle development in outwash.
l	Linear Structure	Natural elongated linear features including meander channels, bedrock lineations and pattern fen in wetland settings.
r	Ridged	One or more parallel or sub-parallel lineations; convex in shape and generally greater than 2 m in relief; includes longitudinal and parabolic wind-blown dunes.
p	Plain	Deposit is greater than 2 m thick; commonly masks the underlying geomorphic pattern; flat to gently rolling topography (commonly less than 1 m of relief).
s	Slumped	Landslide blocks; slope failure debris; commonly undifferentiated as a result of gravitational processes.
t	Terrace	Terrace bench cut by either meltwater or wave action (erosion) or accumulated through modern river development (depositional).
u	Undulating	Low relief rolling terrain; swell and swale topography; commonly less than 2 m in relief.
v	Veneer	Thin deposit less than 1 m thick; may be discontinuous; commonly occurs as a drape revealing some geomorphic pattern of the underlying material.
w	Winnowed	Deflated or reworked surface as a result of wind processes; commonly occurs a wind blowouts.
x	Deltaic	Lake or ice-contact deposits; sub-aquatic environment; commonly stratified sand, silt and gravel.

Table G1-3: Terrain Drainage Classification of the Terrestrial Local Study Area

Drainage		
r	Rapid	Water moves through the soil profile very quickly with little to no storage capability.
w	Well	Water moves through the soil profile quickly with limited storage capability.
m	Moderately Well	Water moves through the soil profile slowly with water stored some of the year (<3 months).
i	Imperfect	Water moves very slowly through soil profile with water stored for half of the year (<6 months).
p	Poor	Standing water and saturated soils for most of the year (<10 months).
vp	Very Poor	Standing water and saturated soils for all of the year.

Complex

Where two classes of terrain are interspersed in a mosaic or repeating pattern on a scale too small to warrant meaningful differentiation, the proportion of each component in the combination is assigned a decile percentage based on its distribution in the polygon. For example:

6Ob 4Mp – means that the area is underlain by approximately 60% organic blanket and up to 40% planar Moraine

Stratigraphic Sequence

Where materials of different origin or texture are known to be superimposed or can be reasonably inferred, the sequence is indicated in conventional order using vertical spacers. For example:

Ov|Mp – indicates a thin veneer of organics (<1 m) deposited on a morainal plain

Table G1-4: Terrain Map Units Identified Within the Terrestrial Local Study Area Based on Air Photo Interpretation

Terrain Map Unit	Description	Dominant Parent Material	Significant Parent Material
Fg	Very coarse glaciofluvial.	Glaciofluvial	***
Fg/M	Very coarse glaciofluvial; significant moderately fine till.	Glaciofluvial	Till
Fg/Ob	Very coarse glaciofluvial; significant organic blanket.	Glaciofluvial	Organic Blanket
Fg/Ox Fg	Very coarse glaciofluvial; significant organic thin veneer overlying medium to very coarse glaciofluvial.	Glaciofluvial	Organic Thin Veneer/ Glaciofluvial
Fgv M	Very coarse glaciofluvial.	Glaciofluvial	-
Fgv M/Fg	Medium glaciofluvial; significant very coarse glaciofluvial.	Glaciofluvial Veneer/Till	Till
Fgv M/M	Very coarse glaciofluvial; significant moderately fine till.	Glaciofluvial Veneer/Till	Till
Fgv M/Ob	Medium glaciofluvial; significant organic blanket.	Glaciofluvial Veneer/Till	Organic Blanket
Fgv M/Ox Fg	Very coarse glaciofluvial; significant organic thin veneer overlying medium to very coarse glaciofluvial.	Glaciofluvial Veneer/Till	Organic Thin Veneer/ Glaciofluvial
M	Moderately fine.	Till	-
M/Fg	Moderately fine; significant very coarse glaciofluvial.	Till	Glaciofluvial
M/Ob	Moderately fine; significant organic blanket.	Till	Organic Blanket
M/Ox Fg	Moderately fine; significant organic thin veneer overlying medium to very coarse glaciofluvial.	Till	Organic Thin Veneer/ Glaciofluvial
Ob	Organic blanket.	Organic Blanket	-
Ob/Fg	Organic blanket; significant very coarse glaciofluvial.	Organic Blanket/ Glaciofluvial	-
Ob/M	Organic blanket; significant moderately fine till.	Organic Blanket	Till
Ob/Op	Organic blanket; significant organic plain.	Organic Blanket	Organic Plain
Ob/Ox F	Organic blanket; significant organic thin veneer overlying fluvial.	Organic Blanket	Organic Thin Veneer/ Fluvial
Ob/Ox Fg	Organic blanket; significant organic thin veneer overlying medium to very coarse glaciofluvial.	Organic Blanket	Organic Thin Veneer/ Glaciofluvial
Op	Organic plain.	Organic Plain	-
Op/Fg	Organic plain; significant very coarse glaciofluvial.	Organic Plain	Glaciofluvial
Op/M	Organic plain; significant moderately fine till.	Organic Plain	Till

Terrain Map Unit	Description	Dominant Parent Material	Significant Parent Material
Op/Ob	Organic plain; significant organic blanket.	Organic Plain	Organic Blanket
Op/Ox Fg	Organic plain; significant organic thin veneer overlying medium to very coarse glaciofluvial.	Organic Plain	Organic Thin Veneer/ Glaciofluvial
Ox Fg	Organic thin veneer overlying medium to very coarse glaciofluvial.	Organic Thin Veneer/ Glaciofluvial	-
Ox Fg/Fg	Organic thin veneer overlying medium to very coarse glaciofluvial; significant very coarse glaciofluvial.	Organic Thin Veneer/ Glaciofluvial	Glaciofluvial
Ox Fg/Fgv M	Organic thin veneer overlying medium to very coarse glaciofluvial; significant medium to moderately coarse glaciofluvial.	Organic Thin Veneer/ Glaciofluvial	Glaciofluvial Veneer/Till
Ox Fg/Ob	Organic thin veneer overlying medium to very coarse glaciofluvial; significant organic blanket.	Organic Thin Veneer/ Glaciofluvial	Organic Blanket
Ox M	Organic thin veneer overlying moderately fine.	Organic Thin Veneer/Till	-
Ox M/M	Organic thin veneer overlying moderately fine; significant moderately fine till.	Organic Thin Veneer/Till	Till
W	Water.	Water	-

Notes:

- Denotes no significant parent material identified.

**Table G1-5: Soil Series Identified in the Terrestrial
Local Study Area**

Soil Series or Variant	Series or Variant Code
Bitumount	BMT
Hartley	HLY
Horse River	HRR
Mariana	MRN
McLelland	MLD
Mildred	MIL
Muskeg	MUS
Steepbank	STP
Sutherland	SUT
Winefred	WNF

Table G1-6: Relationship Matrix Between Mapped Terrain Units and Soil Series of the Terrestrial Local Study Area

Parent Materials		Drainage	Dominant Soil Type	Significant Soil Type	Series Name	Soil Code
O	Organic Deposits	very poor	TY.F, TY.M	TY.M, TY.F	Muskeg, McClelland	MUS, MLD
		very poor	T. F, T.M	T.M, T.F	Mariana, Hartley	MRN, HLY
		very poor	T.F, T.M	O.G, pt	Mariana, Hartley	MRN,HLY
Fg	Glaciofluvial Deposits	rapid	E.DYB	—	Mildred	MIL
		well	E.DYB	—	Mildred	MIL
		moderate	E.DYB	GL.DYB	Mildred	MIL
		imperfect	GLE.DYB	O.G	Mildred	BMT
		poor	O.G	O.Gpt	Bitumount	BMT
		very poor	O.Gpt	T.F, T.M	Bitumount-PT	BMTpt
		well	O.GL	—	Winefred	WNF
Fgv/M	Medium Glaciofluvial Deposits deposited on Moraine	moderate	O.GL	GL.GL	Winefred	WNF
		imperfect	GL.GL	O.G	Winefred -GL	WNGgl
		poor	O.G	O.Gpt	Bitumount-XT	BMTxt
		very poor	O.Gpt	T.F, T.M	Bitumount-PTXT	BMTptxt
		rapid	E.DYB	—	Sutherland	SUT
Fgv/M	Coarse Glaciofluvial Deposits deposited on Moraine	well	E.DYB	—	Sutherland	SUT
		moderate	E.DYB	GLE.DYB	Sutherland	SUT
		imperfect	GLE.DYB	O.LG	Steepbank-GL	STPgl
		poor	O.G	O.Gpt	Bitumount-XT	BMTxt
		very poor	O.Gpt	T.F, T.M	Bitumount-PTXT	BMTptxt
		well	O.GL	—	Horse River	HRR
M	Moraine	moderate	O.GL	GL.GL	Horse River	HRR
		imperfect	GL.GL	O.G	Horse River-GL	HRRgl
		poor	O.G	O.Gpt	Steepbank	STP
		very poor	O.G,pt	T.F, T.M	Steepbank-PT	STPpt
		well	O.GL	—	Horse River	HRR

Notes:

— Denotes no significant soil type identified.

**Table G1-7: Soil Map Codes for the Terrestrial Local Study Area
Based on Series Combinations**

Map Code	Soil Combination	Dominant Soil	Significant Soil	Parent Materials
BMHR1	BMT HRR	O.G/O.GL	-	Glaciofluvial with Morainal
BMMI1	BMT MIL	O.G: O.Gpt; E.DYB	-	Glaciofluvial
BMT1	BMT	O.G: O.Gpt	-	Glaciofluvial
BMT20	BMT MIL	O.G: O.Gpt	E.DYB	Glaciofluvial
BMT21	BMT HLY	O.G: O.Gpt	T.F/T.M	Glaciofluvial Shallow Fen
BMWN1	BMT WNF	O.G: O.Gpt; O.GL	-	Glaciofluvial with Glaciofluvial overlying Morainal
HLBM1	HLY BMT	T.F/T.M; O.G	-	Shallow Fen with Glaciofluvial
HLMI1	HLY MIL	T.F/T.M; E.DYB	-	Shallow Fen with Glaciofluvial
HLMM1	HLY MMW	T.F, R.Gpt	-	Shallow Fen with Organic Blanket
HLY1	HLY	T.F/T.M	-	Shallow Fen
HLY11	HLY MIL	T.F/T.M	E.DYB	Shallow Fen with Glaciofluvial
HLY2	HLY BMT STP	T.F/T.M	O.G; R.G	Shallow Fen with Glaciofluvial and Morainal
HLY3	HLY MLD	T.F/T.M	TY.F/TY.M	Shallow Fen with Deep Fen
HLY4	HLY HRR WNF	T.F/T.M	O.GL	Shallow Fen with Morainal and Glaciofluvial overlying Morainal
HRHL1	HRR HLY	O.GL; T.F/T.M	-	Morainal with Shallow Fen
HRMI1	HRR MIL	O.GL/E.DYB		Morainal with Glaciofluvial
HRR1	HRR	O.GL	-	Morainal with Deep Fen
HRR2	HRR STP	O.GL	GL.GL; O.G; R.G	Morainal
HRR21	HRR HLY MRN	O.GL	T.F/T.M	Morainal with Shallow Fen and Shallow Bog
HRR6	HRR SUT WNF MIL	O.GL	E.DYB	Morainal with Glaciofluvial overlying Morainal and Glaciofluvial
MIHR1	MLD HRR	TY.F/O.GL		Deep Fen with Glaciofluvial
MIL1	MIL	E.DYB	-	Glaciofluvial
MIL2	MIL BMT	E.DYB	O.G	Glaciofluvial
MIL21	MIL HLY MLD MRN	E.DYB	T.F/T.M; TY.F/TY.M	Glaciofluvial with Shallow Fen, Deep Fen and Shallow Bog
MIL5	MIL HRR SUT WNF	E.DYB	O.GL	Glaciofluvial with Morainal and Glaciofluvial overlying Morainal
MLD1	MLD	TY.F/TY.M	-	Deep Fen
MLD11	MLD MIL SUT	TY.F/TY.M	E.DYB	Deep Fen with Glaciofluvial and Glaciofluvial overlying Morainal
MLD2	MLD BMT STP	TY.F/TY.M	O.G; R.G	Deep Fen with Glaciofluvial and Morainal
MLD4	MLD HRR WNF	TY.F/TY.M	O.GL	Deep Fen with Morainal and Glaciofluvial overlying Morainal
MLD8	MLD HLY	TY.F/TY.M	T.F/T.M	Deep Fen with Shallow Fen

Map Code	Soil Combination	Dominant Soil	Significant Soil	Parent Materials
MRMI1	MRN MIL		E.DYB	Shallow Bog with Glaciofluvial
MRN1	MRN	T.F/T.M	-	Shallow Bog
MRN11	MRN MIL	T.F/T.M	E.DYB	Shallow Bog with Glaciofluvial
MRN2	MRN BMT STP	T.F/T.M	O.G; R.G	Shallow Bog with Glaciofluvial and Morainal
MUS1	MUS	TY.F/TY.M	-	Deep Bog
MUS2	MUS BMT	TY.F/TY.M	O.G	Deep Bog with Glaciofluvial
MUS8	MUS MRN	TY.F/TY.M	T.F/T.M	Deep Bog with Shallow Bog
STP1	STP	O.G	-	Morainal
STP20	STP HRR	O.G	O.GL	Morainal
SUT1	SUT	E.DYB	-	Glaciofluvial overlying Morainal
SUT2	SUT BMT STP	E.DYB	O.G; R.G	Glaciofluvial overlying Morainal with Glaciofluvial and Morainal
SUT21	SUT HLY MLD MRN	E.DYB	T.F/T.M; TY.F/TY.M	Glaciofluvial overlying Morainal with Shallow Bog, Deep Fen and Shallow Fen
SUT5	SUT HRR WNF	E.DYB	O.GL	Glaciofluvial overlying Morainal with Morainal
WNF1	WNF	O.GL	-	Glaciofluvial overlying Morainal
WNF2	WNF STP	O.GL	STP	Glaciofluvial overlying Morainal
WNF21	WNF HLY MLD	O.GL	T.F/T.M; TY.F/TY.M	Glaciofluvial overlying Morainal with Shallow Fen and Deep Fen
WNF6	WNF MIL SUT	O.GL	E.DYB	Glaciofluvial overlying Morainal with Glaciofluvial
Water	N/R	N/R	N/R	N/R

Notes:

- Denotes no significant soil identified.
- N/R - non-soil.

Appendix G2

UTM Coordinates of Soil Inspection Sites

Table G2-1: Pike 1 2010 Field Inspection Locations

Plot Number	UTM Easting (m East)	UTM Northing (m North)
120	516629	6140425
121	516555	6140098
123	517199	6140872
127	511573	6137148
132	511852	6136994
133	512458	6137003
138	513545	6137311
139	513015	6136807
141	512661	6136633
BK102	519212	6141860
BK103	519710	6141728
BK104	519903	6141302
BK105	520068	6140987
BK106	520521	6141025
BK107	519218	6140726
BK108	518073	6140906
BK109	517493	6140469
BK136	510600	6135696
BK137	510083	6135698
BK138	509493	6135696
BK141	510779	6136631
BK144	509992	6136989
BK145	510551	6136975
BK83	517502	6141872
BK84	516847	6141593
BK85	516435	6141554
BK89	517481	6139938
BK90	518078	6140183
BK91	518780	6140474
BK92	518924	6139950
BK93	519738	6140140
BK94	518899	6141073
BK95	518900	6141609
BK96	518714	6142244
BK97	519521	6142063
BK98	520072	6142071
BK99	520539	6142077
CB056	517943	6142056
CB057	518366	6141856

Plot Number	UTM Easting (m East)	UTM Northing (m North)
CB059	513567	6137266
CB060	514062	6137055
CB063	513380	6136180
CB064	513854	6135893
CB065	512936	6135698
CB066	512196	6135737
CB067	511418	6135701
CB068	512347	6136910
CB069	511946	6137232
CB071	510861	6137015
SC3	516862	6140658

Table G2-2: Mineral Lands 2012 Field Inspection Locations

Plot Number	UTM Easting (m East)	UTM Northing (m North)
5	518904	6139050
1015A	521793	6134560
1016A	521901	6134742
1017A	521906	6134946
1018A	521819	6135236
1019A	521725	6135392
1020A	522104	6135391
1021A	522285	6135403
1022A	522561	6135389
1023A	522811	6135380
1025A	523440	6135373
1026A	523718	6135468
1027A	523994	6135336
1032A	522093	6134743
1034A	524147	6135581
1035A	523952	6133773
1036A	523886	6136067
1037A	523675	6136335
1038A	523577	6136656
1039A	523425	6136963
1040A	523237	6137243
1041A	523615	6137264
1042A	523882	6137339
1043A	520598	6137328
1044A	520835	6137352
1045A	521010	6137380
1046A	521219	6137410
1047A	521419	6137435
1048A	521666	6137575
1049A	522068	6137481
1050A	522479	6137484
1051A	522782	6137473
1052A	521806	6137814
1053A	521741	6137769
1054A	521830	6138096
1055A	521815	6138326
1056A	521656	6138407
1057A	521317	6138355
1058A	521318	6138652
1059A	521174	6138690
1060A	520831	6138632

Plot Number	UTM Easting (m East)	UTM Northing (m North)
1061A	521569	6138641
1062A	521809	6138653
1063A	522138	6138650
1064A	522370	6138646
1065A	523229	6139041
1066A	522435	6138453
1067A	522439	6138206
1068A	522439	6137760
1069A	522045	6140352
1070A	523265	6139131
1071A	523300	6139314
1072A	523432	6139560
1073A	523419	6139806
1075A	523527	6140236
1076A	523539	6140912
1077A	523636	6140715
1078A	523391	6140778
1079A	523628	6141253
1080A	523600	6141633
1081A	523258	6140800
1082A	522761	6140763
1083A	521645	6140346
1084A	521752	6140451
1085A	521791	6140751
1087A	521625	6141284
1088A	521349	6141214
1089A	521157	6141073
1090A	520965	6141027
1091A	523487	6142087
1092A	523074	6142087
1093A	522663	6142234
1101A	523161	6141565
1102A	522752	6141486
1103A	522138	6141374
1104A	521196	6140851
1230A	524172	6135246
1231A	524417	6135252
1232A	524646	6135493
1233A	524926	6135499
1234A	525240	6135676
1235A	525483	6135743
1236A	525743	6135706

Plot Number	UTM Easting (m East)	UTM Northing (m North)
1237A	525945	6135786
1238A	526032	6135917
1239A	526301	6136072
1240A	526578	6136495
1242A	526594	6137043
1243A	526417	6136051
1247A	526548	6137447
1248A	526682	6137420
1249A	526928	6137439
1250A	527107	6137458
1251A	527299	6137400
1252A	527569	6137405
1252A	527569	6137405
1253A	527702	6137283
1254A	527951	6137171
1256A	526387	6137445
1257A	526254	6137449
1258A	526093	6134768
1259A	525873	6137462
1260A	525564	6137419
1261A	525192	6137460
1262A	524996	6137446
1263A	524971	6137340
1264A	524955	6137244
1266A	524565	6137454
1267A	524448	6137452
1268A	524369	6137468
1269A	524283	6137421
1270A	526382	6137673
1271A	526361	6137810
1272A	526323	6138135
1273A	526221	6138334
1274A	525990	6138425
1275A	525774	6138497
1276A	525648	6138573
1277A	525303	6138641
1278A	524984	6138618
1279A	524912	6138649
1280A	524554	6138688
1282A	526325	6138557
1283A	526410	6138749
1284A	526585	6139041

Plot Number	UTM Easting (m East)	UTM Northing (m North)
1285A	526597	6139183
1286A	526451	6139369
1287A	526365	6139526
1288A	526232	6139771
1289A	527631	6139404
1289A	526063	6140007
1290A	525980	6140307
1291A	525707	6140314
1292A	525493	6140326
1293A	525285	6140248
1294A	526842	6139220
1295A	527028	6139210
1296A	527388	6139237
1297A	527634	6139186
1299A	527556	6139743
1300A	527557	6140081
1301A	527501	6140427
1302A1	527503	6140864
1302A2	527533	6140659
1304A	527517	6140221
1305A	527503	6140986
1306A	528043	6139073
1307A	528048	6138926
1308A	528039	6138549
1309A	528074	6138297
1310A	528036	6138005
1311A	528051	6137833
1312A	528073	6137585
1313A	528084	6137346
1314A	528015	6139661
1315A	528020	6139949
1317A	528011	6140297
1318A	527948	6140515
1335A	527947	6141551
1336A	527771	6141583
1337A	527552	6141636
1338A	527541	6141823
1339A	523811	6141716
1341A	524520	6141812
1342A	524956	6141971
1343A	525064	6142230
1367A	526050	6142225

Plot Number	UTM Easting (m East)	UTM Northing (m North)
1368A	526316	6142151
1370A	526675	6142085
1371A	526817	6142073
1372A	527044	6142129
1373A	527187	6142119
220A	506837	6134040
270A	506794	6133905
279A	506888	6133680
280A	506898	6133545
281A	506891	6133212
282A	506887	6132865
292A	506916	6132630
293A	506897	6132482
294A	506925	6132376
295A	506888	6132129
296A	507094	6132706
297A	507316	6132775
298A	507310	6132700
299A	507582	6132750
300A	508215	6132807
301A	507919	6132773
302A	508005	6133098
303A	507937	6133136
304A	507713	6133224
305A	507615	6133354
306A	507393	6133618
307A	507222	6133812
308A	507040	6133828
309A	508275	6132701
310A	508518	6132613
310A	508729	6132316
311A	508519	6132507
312A	508983	6132294
313A	509105	6132194
314A	509025	6132023
315A	508929	6131915
316A	508791	6131894
317A	508581	6131852
318A	509201	6131781
319A	508729	6132316
320A	508546	6132327
321A	508547	6132815

Plot Number	UTM Easting (m East)	UTM Northing (m North)
322A	508716	6132812
323A	508904	6132817
324A	509029	6132833
325A	509152	6132866
326A	509308	6132850
327A	509147	6132791
328A	509153	6132674
329A	509290	6131992
330A	509358	6132122
330AA	509484	6132200
332A	509617	6132305
334A	509810	6132420
334AA	509850	6132618
335A	509976	6132731
336A	510038	6132875
337A	510149	6132935
337AA	510148	6132931
338A	510374	6132947
338AA	510345	6132925
339A	510556	6132975
339A	510539	6132955
340A	510881	6133003
340A	510765	6133003
341A	510644	6132836
341A	510649	6132905
342A	510423	6132883
342A	510420	6132840
343A	509965	6132952
344A	510017	6133059
345A	509767	6132931
346A	509614	6132848
347A	510052	6133217
348A	509998	6133306
349A	509929	6133368
350A	510622	6133526
351A	510098	6133765
351AA	510152	6133742
352A	510050	6133742
352A	509918	6133772
363A	508438	6135094
364A	508564	6135213
365A	508796	6135386

Plot Number	UTM Easting (m East)	UTM Northing (m North)
369A	508735	6135408
370A	509694	6135205
371A	509233	6135168
372A	509364	6135302
373A	509391	6135475
379A	508608	6135126
380A	508634	6135004
381A	508590	6134811
382A	508589	6134628
383A	508668	6134495
384A	508638	6134330
385A	508708	6134073
386A	507290	6134035
387A	507616	6134047
388A	507806	6133870
389A	508138	6134008
390A	508481	6134018
391A	508215	6133812
392A	508042	6133727
393A	508084	6133668
394A	507816	6133708
395A	507671	6133622
396A	508310	6134007
397A	508918	6134015
398A	509254	6134004
399A	509423	6133995
400A	509732	6134022
401A	509921	6134020
402A	510073	6134047
403A	510035	6134282
404A	510044	6134425
405A	510063	6134638
406A	509944	6134169
407A??	509980	6135015
408A	509904	6135201
409A	509927	6135298
410A	510221	6134138
410A	510200	6134140
411A	510411	6134191
411A	510350	6134167
412A	510456	6134387
413A	510559	6134356

Plot Number	UTM Easting (m East)	UTM Northing (m North)
414A	510658	6134556
415A	510738	6134659
416A	510873	6134757
417A	510992	6134745
420A	511239	6135155
421A	511349	6135237
422A	511378	6135345
423A	511521	6135142
424A	511678	6135143
425A	511664	6135399
426A	511757	6135536
427A	511587	6134911
428A	511728	6134863
429A	511778	6134681
430A	511835	6134612
431A	511990	6134459
432A	512163	6134287
433A	512243	6134101
434A	510576	6134018
435A	510867	6134002
436A	511063	6133967
437A	511454	6133974
438A	511847	6133965
439A	511993	6134137
441A	511281	6134286
442A	511571	6134200
443A	511805	6134344
444A	512213	6134486
445A	512348	6134486
446A	512471	6134476
447A	512584	6134642
451A	511737	6133560
455A	511725	6133275
457A	511174	6132919
458A	511353	6132893
459A	511460	6132882
460A	511677	6132863
461A	511749	6132867
462A	511911	6132858
463A	512080	6132821
464A	512341	6132816
465A	512505	6132829

Plot Number	UTM Easting (m East)	UTM Northing (m North)
466A	512607	6132828
467A	512817	6132817
468A	513084	6132799
469A	513210	6132789
470A	513409	6132805
471A	513358	6132639
472A	513409	6132471
473A	513441	6132336
474A	513436	6132143
475A	513406	6131937
476A	513504	6132944
477A	513471	6133027
478A	513441	6133341
479A	513394	6133551
480A	513448	6133740
481A	513405	6133880
482A	513487	6133884
483A	513218	6133915
484A	513040	6133913
485A	512731	6133914
486A	512620	6133909
487A	512336	6133876
488A	512129	6133917
489A	512037	6133895
490A	512653	6134745
491A	512562	6134830
492A	512560	6135040
493A	512585	6135269
495A	513402	6135444
496A	513406	6135255
497A	513405	6135062
498A	513406	6134779
499A	513408	6134505
500A	513405	6134267
501A	513401	6134106
502A	513795	6133844
503A	513958	6133905
504A	514354	6133798
506A	514485	6133851
507A	514952	6133899
508A	515169	6133858
509A	515332	6133956

Plot Number	UTM Easting (m East)	UTM Northing (m North)
510A	515534	6133900
511A	515763	6133944
512A	514877	6133941
515A	514186	6134002
516A	514184	6134157
517A	514178	6134328
518A	513788	6132764
519A	514002	6132769
520A	514168	6132742
522A	516053	6133955
523A	516351	6134100
524A	516400	6133885
525A	516208	6133547
526A	516150	6133492
527A	515993	6133343
528A	515743	6133137
529A	515632	6133039
529A	518561	6132550
530A	515494	6132893
531A	515301	6132808
532A	515209	6132690
533A	516392	6131961
533A	514981	6132833
534A	514910	6132333
535A	515419	6132685
536A	515756	6132669
537A	515872	6132664
538A	516074	6132867
539A	516187	6133049
540A	516262	6133185
541A	516254	6133236
542A	516313	6133524
543A	516564	6134059
544A	516196	6132645
545A	515993	6132529
546A	515911	6132421
547A	515868	6132310
548A	514547	6132147
549A	515792	6131953
551A	516123	6132076
552A	516365	6132759
554A	516571	6131981

Plot Number	UTM Easting (m East)	UTM Northing (m North)
555A	516676	6131935
556A	516753	6131821
557A	516575	6132065
558A	516675	6132622
559A	516911	6132611
560A	517052	6132614
561A	517123	6133645
562A	516913	6133864
563A	517120	6133912
564A	517485	6133996
565A	517853	6133960
566A	517973	6133964
567A	518086	6133922
568A	518376	6133899
569A	518529	6133942
570A	518662	6133899
571A	518701	6133788
572A	518716	6133738
574A	518747	6133914
575A	519077	6133870
576A	519079	6133776
577A	519371	6133878
578A	519411	6133973
584A	519791	6133973
585A	519900	6133869
586A	517477	6131976
587A	517666	6132146
588A	517855	6132249
589A	517938	6132444
590A	518104	6132538
591A	518403	6132604
593A	518787	6132621
594A	519033	6132627
595A	519226	6132571
596A	519515	6132564
597A	519603	6135268
598A	519931	6132893
599A	519886	6132994
600A	519886	6133192
601A	519888	6133434
602A	520051	6133635
603A	520075	6132638

Plot Number	UTM Easting (m East)	UTM Northing (m North)
604A	519915	6132451
605A	519927	6132216
606A	519968	6132001
608A	520331	6132186
609A	520443	6132196
610 A	520406	6132656
611A	520556	6132638
612A	520905	6132660
614A	521098	6132652
615A	521417	6132659
616A	521587	6132659
617A	521757	6132660
618A	520543	6133452
619A	520414	6133418
620A	520837	6133350
621A	520980	6133150
622A	520649	6133720
625A	520801	6134213
626A	520684	6134046
627A	521115	6134190
627A	521115	6134190
628A	520888	6133742
629A	521125	6133628
630A	521145	6133713
631A	521514	6133446
632A	521647	6133424
636A	516351	6134383
637A	516437	6134663
638A	516330	6134860
639A	516433	6134888
640A	516430	6135142
641A	516425	6135300
642A	516435	6135484
643A	516286	6135614
644A	516267	6135683
645A	515684	6134188
646A	515695	6134354
647A	515921	6134620
648A	516055	6134909
649A	516138	6135191
650A	516034	6135687
651A	515861	6135712

Plot Number	UTM Easting (m East)	UTM Northing (m North)
652A	515712	6135673
653A	515557	6135670
654A	515359	6135716
655A	515388	6135836
661A	516631	6135617
662A	516672	6135725
663A	516911	6135636
664A	517153	6135716
665A	517384	6135666
666A	517483	6135674
667A	517035	6135320
668A	517072	6135092
669A	517077	6134878
670A	517014	6134562
671A	517038	6134325
672A	516874	6134139
673A	516704	6134129
674A	517710	6135511
675A	517545	6135342
676A	517545	6135123
677A	517442	6134981
679A	517028	6135841
680A	517044	6136110
683A	516424	6135999
686A	516475	6136634
687A	516154	6137065
688A	515881	6137066
689A	515695	6137069
690A	515392	6137072
691A	515161	6137053
692A	514900	6137012
694A	516696	6136820
695A	516719	6136854
696A	516930	6136986
697A	517097	6136908
698A	517394	6136946
699A	517645	6136974
700A	518081	6137081
701A	516960	6137309
702A	516982	6137516
703A	516992	6137619
704A	516990	6137834

Plot Number	UTM Easting (m East)	UTM Northing (m North)
705A	517044	6138043
706A	517300	6138189
707A	517580	6138352
708A	517762	6138468
709A	518025	6138644
710A	516964	6138146
711A	516740	6138132
712A	516824	6138485
713A	516758	6138652
715A	516575	6139047
716A	516557	6139244
717A	516629	6139585
718A	516825	6139657
719A	516671	6138873
722A	520543	6135897
733A	518212	6137045
734A	518424	6137072
735A	518610	6136847
736A	518701	6137210
737A	518972	6137155
738A	519153	6137178
739A	519377	6137172
740A	519568	6137227
741A	519991	6137287
742A	520224	6137210
743A	518921	6137349
744A	518946	6137473
744A	520143	6136339
745A	518910	6137782
746A	520022	6139418
746A	518905	6138054
747A	518911	6138319
748A	518908	6138570
749A	518907	6138795
751A	518903	6139287
752A	519178	6139439
753A	518940	6139483
754A	519349	6139429
755A	519800	6139418
757A	520533	6139441
758A	520345	6139303
759A	520263	6139057

Plot Number	UTM Easting (m East)	UTM Northing (m North)
760A	520341	6138802
761A	520088	6138630
762A	519775	6138578
763A	517024	6139337
764A	517254	6139340
765A	517539	6139408
766A	517671	6139348
767A	518068	6139357
768A	518156	6139347
769A	521371	6134443
770A	521087	6134596
772A	520756	6134679
773A	520441	6134729
784A	518918	6136553
785A	518924	6136738
786A	518897	6136947
787A	520300	6134962
788A	520365	6135146
789A	520407	6135200
790A	520455	6135301
791A	520516	6135636
793A	520427	6136088
795A	520148	6136441
796A	519966	6136630
797A	520023	6136967
798A	520167	6137119
799A	520455	6137412
800A	521765	6134342
817A	524102	6132597
818A	524405	6132608
819A	524677	6132611
820A	524947	6132519
821A	524952	6132339
822A	524993	6132196
823A	525017	6131991
824A	525044	6132764
825A	525168	6132960
826A	525262	6133190
827A	525457	6133302
828A	524069	6133932
829A	524397	6133975
830A	524568	6133936

Plot Number	UTM Easting (m East)	UTM Northing (m North)
832A	524539	6133841
833A	525537	6133885
834A	525674	6133343
835A	525855	6133399
836A	526121	6133380
837A	526589	6133495
844A	526354	6133860
845A	525938	6133801
846A	525863	6133872
847A	525581	6133158
848A	525633	6133174
849A	525204	6132253
850A	525456	6132276
P01A	519778	6138261
P02A	519780	6137932

Table G2-3: Pike Mineral Lands 2014 Field Inspection Locations

Plot Number	UTM Easting (m East)	UTM Northing (m North)
KD001	521360	6131057
KD002	521191	6130952
KD003	521034	6130840
KD004	520898	6130780
KD005	520619	6130773
KD006	520426	6130797
KD007	520390	6131057
KD008	520287	6130786
KD009	519892	6131141
KD010	519419	6130795
KD011	519156	6130786
KD012	518897	6130796
KD014	518151	6131503
KD015	518411	6130827
KD016	518100	6131104
KD017	517761	6130790
KD018	517630	6130780
KD019	517492	6130845
KD020	517322	6130776
KD021	517132	6130764
KD022	516917	6130784
KD023	516777	6130760
KD024	516579	6130771
KD025	516429	6130772
KD026	516255	6130832
KD027	516085	6130773
KD028	515918	6130765
KD029	515724	6130777
KD030	515654	6130742
KD031	515430	6130768
KD032	515477	6130971
KD033	515426	6131206
KD034	515489	6131375
KD035	515222	6130750
KD036	515090	6130747
KD037	514803	6130809
KD038	514672	6130749
KD039	514223	6130749
KD040	514008	6130758

Plot Number	UTM Easting (m East)	UTM Northing (m North)
KD041	513688	6130773
KD042	513495	6130748
KD071	506915	6131099
KD072	506889	6131253
KD073	506903	6131469
KD081	507246	6131502
KD082	508011	6131525
KD083	508214	6131509
KD084	507295	6130712
KD085	507816	6130758
KD086	508083	6130735
KD087	508158	6130780
KD088	512374	6130745
KD089	512093	6130740
KD090	511756	6130854
KD091	511630	6130963
KD092	511603	6130738
KD093	511352	6130806
KD094	511121	6130740
KD095	510732	6130728
KD096	510333	6130729
KD097	509929	6130950
KD098	510064	6130838
KD099	509898	6130728
KD100	509658	6130717
KD101	509557	6131094
KD102	509516	6131342
KD103	509560	6130812

Appendix G3

Soil Inspection Plot Summary

Table G3-1: Soil Inspection Data – Pike 2010

120	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	516629	6140425	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-40							
	Om	40-90							
	Cg	90-100	SCL	5Y 5/1	MA	SL.ST	1-5	1-5	
121	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	516555	6140098	undulating	lower	Glaciofluvial, Morainal	well	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae1	0-16	LS	10YR 6/1	wfpl	FR	1-5		
	Ae2	16-37	LS	10YR 6/3	wmpl	FR	1-5		
	ABgj	37-45	LS	10YR 5/4	wmsab	FR	1-5	ccd	
	Bm	45-60	LS	10YR 5/6	SG	LO	1-5		
	C	60-90	LS	10YR 6/3	MA	FR	1-5		
	IIC	90-100	CL	10YR 4/4	MA	FI	1-5		
123	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Oct-10	517199	6140872	undulating	mid	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-14	fS	10YR 7/2	SG	LO	1-5		
	Bm	14-36	SL	10YR 5/4	wmsab	FR	1-5	mesic	
	IIBt	36-70	SCL	10YR 4/3	mmsab	FI	5-10		

127	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	511573	6137148	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-13	LS	10YR 6/2	wmpl	FR	15-20		
	Bm	13-55	LS	10YR 4/4	wmsab	FR	15-20		
	IIC	55-100	CL	2.5Y 5/3	MA	FI	1-5		
132	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	511852	6136994	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
133	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	512458	6137003	level	level	Fen	poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
138	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Oct-10	513545	6137311	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	3-0							
	Ae	0-19	S	7.5YR 7/1	SG	LO	1-5 SR GR		
	Bm	19-45	S	7.5YR 6/6	SG	LO	1-5 SR GR		
	BC	45-85	S	10YR 6/6	SG	LO	1-5 SR GR		
	C	85-100	S	10YR 5/6	SG	LO	1-5 SR GR		

Table G3-2: Soil Inspection Data – Mineral Lands 2012

5	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518904	6139050	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-11	S	10YR 6/1	SG	L	<2, SR, G		
	Bm	11-19	S	10YR 5/6	SG	L	<2, SR, G		
	BC	19-32	S	10YR 6/3	SG	L	<2, SR, G		
	C	32-65	S	10YR 5/2	SG	L	<2, SR, G		
1015A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521793	6134560	inclined	crest	Glaciofluvial	well	Orthic, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	IIC	65-100	SiCL	2.5Y 4/2	MA	FI	<2, SR, G		
	LFH	4-0							
	Ae	0-1	S	10YR 6/1	SG	L	0		
	Bm	1-40	S	10YR 6/4	SG	L	20-30, SR, G		
	BC	40-95	S	2.5Y 6/4	SG	L	10-20, SR < G		
	C	95-100	SL	2.5Y 6/4	MA	FR	5-10, SR, G		
1016A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521901	6134742	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-40							
	Om	40-110							
	Cg	110-120	SCL	2.5Y 4/1	MA	ST	<1, SR, G		

1017A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521906	6134946	hummocky	mid	Glaciofluvial, Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-13	LS	10YR 6/3	W,F,PL	VFR	1-5, SR< G		
	Bm1	13-39	S	7.5YR 6/6	SG	L	<1, SR, G		
	Bm2	39-85	S	7.5YR 5/4	SG	L	<1, SR, G		
	IIC	85-100	CL	2.5Y 6/3	MA	FI	<1, SR, G		
1018A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521819	6135236	undulating	depression	Fluvial	imperfectly	Gleyed Cumulic, Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Cg1	0-8	fSL	2.5Y 5/3	MA	SS	<1, SR, G		
	LFHb	8-21							
	Cg2	21-100	LS	2.5Y 7/3	MA	SS	1-5, SR, G		
1019A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	521725	6135392	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-70							
	Om	70-110							
	Cg	110-130+	SL	N 6/1	MA	SS	<1/SR/GR		
1020A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522104	6135391	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

1021A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522285	6135403	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-130 130-160+	S	10YR 4/2	MA	NS	1-5/SR/GR		
1022A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	1-Sep-12	522561	6135389	undulating	lower	Morainal	imperfectly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Bg Cg	35-0 0-10 10-45+	SCL SCL	10YR 5/2 2.5Y 6/2	MA MA	FI FI	5-10/SR/GR 5-10/SR/GR	m/c/p m/c/p	
1023A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522811	6135380	hummocky	upper	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH Ae BA Bt C	9-0 0-13 13-33 33-60 60-100+	LS LS CL S	10YR 7/2 10YR 6/3 2.5Y 5/3 2.5Y 4/4	w/c/pl w/c/sb m/m/sb SG	v.FR v.FR FI LO	1-5/SR/GR <1/SR/GR <1/SR/GR 5-10/SR/fGR		
1025A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523440	6135373	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om Cg	0-160 160-180+	LS	10YR 6/1	MA	SS	5-10/SR/GR		

1026A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523718	6135468	undulating	lower	Morainal	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	10-0							
	Aeg	0-17	SL	10YR 4/1	s/c/pl	FR	<1/SR/GR	f/f/f	
	Bg	17-40	SL	10YR 5/2	m/m/sb	FR	<1/SR/GR	m/m/p	
Ckg	40-100+	SCL	2.5Y 5/2	MA	FI	<1/SR/GR	m/m/p		
1027A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523994	6135336	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-22	LS	10YR 6/2	w/f/pl	v.FR	<1/SR/GR		
	Bt	22-50	CL	10YR 4/2	m/m/sb	FI	1-5/SR/GR		
BC	50-70	SCL	2.5Y 4/2	MA	FI	1-5/SR/GR			
Ckgj	70-100+	SCL	2.5Y 4/2	MA	FI	<1/SR/GR	m/f/d		
1032A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	522093	6134743	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-15	S	10YR 6/2	SG	L	5-10, SR, G		
	Bm	15-65	S	10YR 5/4	SG	L	15-20, SR, G-C		
C	65-100	LS	2.5Y 5/3	MA	VFR	<1, SR, G			
1034A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524147	6135581	level	level	Organic, Undifferentiated, Morainal	poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-200							
Cg	200-220	CL	5Y 5/1	MA	S	<2, SR, G			

1035A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523952	6133773	ridged	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-14	LS	10YR 7/1	w/m/pl	v.FR	<1/SR/GR		
	BA	14-25	SL	10YR 5/3	w/m/sb	FR	<1/SR/GR		
	Bt	25-60	CL	10YR 5/3	m/m/sb	FI	<1/SR/GR		
	BC	60-90	CL	2.5Y 4/2	MA	FI	<1/SR/GR		
Ck	90-100+	CL	2.5Y 5/2	MA	FI	<1/SR/GR			
1036A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523886	6136067	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-160							
Om	160-220+								
1037A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523675	6136335	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-140							
Cg	140-160+	SL	10YR 5/1	MA	SS	<1/SR/GR			
1038A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523577	6136656	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	S	7.5YR 7/2	SG	LO	<1/SR/GR		
	Bm	19-50	S	7.5YR 5/6	SG	LO	<1/SR/GR		
	BC	50-90	S	10YR 6/6	SG	LO	<1/SR/GR		
C	90-100+	S	10YR 7/6	SG	LO	<1/SR/GR			

1039A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523425	6136963	level	level	Glaciofluvial	moderately well	Gleyed Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	7-0							
	Ae	0-21	S	7/5YR 7/2	SG	LO	<1/SR/GR		
	BAgj	21-35	S	10YR 7/3	SG	LO	<1/SR/GR	m/c/d	
Bmgj	35-60	S	10YR 5/4	MA	NS	<1/SR/GR	m/c/d		
Cgj	60-100+	S	10YR 7/4	MA	NS	1-5/SR/GR	m/c/d		
1040A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523237	6137243	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-20							
	Om	20-90							
	Cg	90-110+	S	2.5Y 6/1	MA	NS	5-10/SR/GR		
1041A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523615	6137264	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-100							
	Cg1	100-105	SL	2.5Y 4/1	MA	SS	<1/SR/GR		
	Cg2	105-120+	SCL	10YR 6/1	MA	ST	<1/SR/GR		

1042A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	523882	6137339	ridged	crest	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	4-0							
	Ae	0-21	S	7.5YR 7/2	SG	v.FR	<1/SR/GR		
	Bm	21-44	SL	10YR 5/4	w/m/sb	FR	<1/SR/GR		
	IIBt	44-75	SCL	10YR 4/2	m/m/sb	FI	<1/SR/GR		
	C	75-100+	SCL	2.5Y 4/3	MA	FI			
1043A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	520598	6137328	level	level	Fluvial	poorly	Gleyed Cumulic, Humic Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Cg1	0-44	S	10YR 5/3	MA	NS	<2, SR, G	M,M,P	
	Ahgb	44-54	SL	10YR 2/1	MA	SS	<2, SR, G		
	Cg2	54-100	LS	10YR 5/3	MA	NS	<2, SR, G	M,M,P	
1044A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	520835	6137352	undulating	upper	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	S	7.5YR 7/2	SG	L	<2, SR, G		
	Bm	21-33	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	33-55	S	10YR 5/4	SG	L	2-5, SR, G		
	C	55-70	S	2.5Y 8/2	SG	L	<2, SR, G		
	IIC	70-100	SiCL	2.5Y 4/2	MA	FI	2-5, SR, G		

1045A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521010	6137380	hummocky	crest	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-9	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	9-27	S	10YR 5/6	SG	L	2-5, SR, G-C		
	BC	27-41	S	10YR 7/6	SG	L	<2, SR, G		
	C	41-65	S	10YR 8/3	SG	L	<2, SR, G		
	IIC	65-100	SiCL	10YR 6/3	MA	FI	<2, SR, G		
1046A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521219	6137410	level	level	Glaciofluvial	poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	25-0							
	Aegj	0-13	S	10YR 5/2	MA	NS	<2, SR, G	F,M,F	
	Bmg	13-45	S	10YR 4/6	MA	NS	2-5, SR, G	F,C,P	
	Cg	45-100	S	2.5Y 5/3	MA	NS	2-5, SR, G		
1047A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521419	6137435	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-45							
	Om	45-160							
	Cg	160-170	LS	2.5Y 4/1	MA	SS	<2, SR, G		

1048A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521666	6137575	level	level	Glaciofluvial	poorly	Rego, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	35-20							
	Om	20-0							
Ahg	0-10	SL	10YR 3/1	MA	SS	<2, SR, G			
Cg	10-50	S	2.5Y 5/2	MA	NS	2-5, SR, G			
1049A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522068	6137481	level	level	Glaciofluvial, Morainal	very poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-45							
	Cg	45-85	LS	2.5Y 5/2	MA	NS	<1/SR/GR		
IICg	85-100+	CL	2.5Y 2/1	MA	ST	<1/SR/GR			
1050A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522479	6137484	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-30							
	Om	30-80							
Cg	80-100+	SL	2.5Y 6/2	MA	SS	<1/SR/GR	m/m/d		
1051A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	522782	6137473	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-20							
	Om	20-60							
Cg	60-100+	SCL	2.5Y 6/3	MA	ST	1-5/SR/GR	m/c/p		

1052A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521806	6137814	level	level	Glaciofluvial	poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	45-0							
	Cg	0-40	S	2.5Y 4/2	MA	NS	<2, SR, G		
1053A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521741	6137769	undulating	crest	Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-7	LS	10YR 7/1	W,F,PL	FR	2-5, SR, G		
	Btj	7-65	LS	10YR 5/4	W,F,SB	FR	10-15, SR, G-C		
	BC	65-90	S	10YR 6/6	SG	L	<2, SR, G		
C	90-100	SL	10YR 7/2	MA	FR	<2, SR, G			
1054A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521830	6138096	undulating	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-18	S	10YR 7/1	SG	L	2-5, SR, G		
	Bm	18-43	S	10YR 6/6	SG	L	2-5, SR, G-C		
	BC	43-70	S	10YR 5/4	SG	L	<2, SR, G-C		
C	70-100	S	10YR 5/3	SG	L	2-5, SR, G			
1055A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521815	6138326	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-27	S	10YR 8/2	SG	L	<2, SR, G		
	Bm	27-55	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	55-95	S	10YR 6/6	SG	L	<2, SR, G		
C	95-100	S	10YR 8/3	SG	L	<2, SR, G			

1056A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521656	6138407	level	level	Glaciofluvial	very poorly	Rego, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	20-0							
	Ahg	0-20	SL	10YR 2/1	MA	NS	<2, SR, G		
	Cg	20-40	LS	2.5Y 5/2	MA	NS	2-5, SR, G		
1057A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521317	6138355	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	S	10YR 8/1	SG	L	<2, SR, G		
	Bm1	21-35	S	10YR 5/8	SG	L	<2, SR, G		
	Bm2	35-55	S	10YR 6/6	SG	L	<2, SR, G		
	BC	55-105	cS	10YR 7/3	SG	L	2-5, SR, G		
	C	105-110	cS	10YR 8/2	SG	L	2-5, SR, G		
1058A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521318	6138652	level	lower	Morainial	well	Gleyed Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-7	LS	10YR 6/2	W,F,PL		<2, SR, G		
	Bmgj	7-26	S	10YR 7/4	SG	L	2-5, SR, C	F,M,D	
	Bt	26-60	SiCL	10YR 5/3	M,M,SB	FI	<2, SR, G		
	C	60-100	SiCL	2.5Y 5/2	MA	FI	<2, SR, G		

1059A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521174	6138690	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-17	S	10YR 7/1	SG	L	<2, SR, G		
	Bm	17-37	S	10YR 5/6	SG	L	2-5, SR, G-C		
	C	37-47	S	2.5Y 7/3	SG	L	2-5, SR, G		
	IIC	47-100	SiCL	10YR 5/3	MA	FI	<2, SR, G		
1060A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	520831	6138632	level	level	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-16	S	10YR 8/2	SG	L	<2, SR, G		
	Bm	16-37	S	10YR 6/6	SG	L	2-5, SR, G-C	M,M,D	
	BC	37-60	S	10YR 5/4	SG	L	2-5, SR, G		
	C	60-100	S	10YR 5/3	SG	L	<2, SR, G		
1061A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521569	6138641	undulating	lower	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-5	LS	10YR 8/1	SG	L	2-5, SR, G-C		
	Bt1	5-18	SiL	10YR 5/4	W,F,SB	FR	2-5, SR, G-C		
	Bt2	18-70	SiCL	10YR 5/3	W,M,SB	sFI	<2, SR, G		
	C	70-100	SiCL	2.5Y 5/2	MA	sFI	<2, SR, G		

1062A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	521809	6138653	undulating	lower	Glaciofluvial, Morainal	poorly	Orthic, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	35-0							
	Ahg	0-10	LS	10YR 3/1	MA	SS	<2, SR, G		
	Bg	10-45	S	10YR 4/6	MA	NS	<2, SR, G		
IICg	45-60	SCL	2.5Y 5/2	MA	SS	<2, SR, G			
1063A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	522138	6138650	undulating	upper	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-21	S	10YR 8/1	SG	L	<2, SR, G		
	Bm	21-42	S	10YR 5/6	SG	L	2-5, SR, G		
BC	42-70	S	10YR 6/4	SG	L	2-5, SR, G			
IIC	70-100	SiCL	2.5Y 5/2	MA	FI	<2, SR, G			
1064A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	522370	6138646	hummocky	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-19	S	10YR 7/1	SG	L	2-5, SR, G		
	Bm	19-60	S	10YR 5/4	SG	L	2-5, SR, G		
BC	60-100	S	10YR 6/4	SG	L	2-5, SR, G			
1065A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523229	6139041	level	level	Fluvial	well	Rego, Humic Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH								
Ah	0-40	LcS	10YR 2/2	SG	L	30-40, Sr, GR-CB			
C	40-100	L	10YR 4/2	MA	R	10-20, SR, GR, CB			

1066A	Date 26-Aug-12	Easting 522435	Northing 6138453	Surface Expression undulating	Slope Position lower	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of	Depth 0-220	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
1067A	Date 26-Aug-12	Easting 522439	Northing 6138206	Surface Expression undulating	Slope Position lower	Parent Material Glaciofluvial	Drainage poorly	Soil Classification Orthic, Gleysol	Phase Peaty
	Horizon Of	Depth 20-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-14	S	10YR 7/1	SG	L			
	Bg	14-65	S	10YR 6/2	MA	NS		M,M,P	
	BCg	65-75	LS	10YR 4/3	MA	NS			
	Cg	75-100	SL	10YR 4/2	MA	SS			
1068A	Date 26-Aug-12	Easting 522439	Northing 6137760	Surface Expression level	Slope Position level	Parent Material Glaciofluvial, Morainal	Drainage very poorly	Soil Classification Orthic, Gleysol	Phase Peaty
	Horizon Of	Depth 17-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-19	S	7.5YR 8/2	MA	NS	<2, SR, G		
	Bg	19-27	LS	7.5YR 4/3	MA	NS	<2, SR, G	F,M,P	
	BCg	27-65	S	7.5YR 6/6	MA	NS	<2, SR, G	F,M,P	
	IICg	65-100	SiCL	2.5Y 5/2	MA	SS	<2, SR, G	F,F,P	
1069A	Date 25-Aug-12	Easting 522045	Northing 6140352	Surface Expression level	Slope Position level	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Terric Mesic, Fibrisol	Phase
	Horizon Of	Depth 0-50	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	50-90							
	Cg	90-100	SCL	2.5Y 5/2	MA	SS	1-5, SR, GR		

1070A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523265	6139131	undulating	upper	Glaciofluvial	rapidly	Orthic, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Bm	0-35	LS	7.5YR 4/6	SG	L	40-50, SR, GR		
	C	35-60	LS	7.5YR 5/4	SG	L	40-50, SR, GR		
1071A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523300	6139314	undulating	lower	Morainal	imperfectly	Gleyed, Gray Luvisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		Of	40-0						
		Ae	0-9	LS	10YR 6/3	W,C,PL	FR	1-5, SR, GR	
	Btgj	9-65	SCL	10YR 5/4	M,F,SB	FI	1-5, SR, GR	c, m, d	
	Cg	65-100	CL	10YR 5/2	MA	FI	1-5, SR, GR	c, m, p	
1072A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523432	6139560	undulating	mid	Glaciofluvial	poorly	Gleyed Cumulic, Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	13-0						
		C1	0-3	S	10YR 6/1	SG	L	0	
		Ahb	3-16	L	10YR 3/2	MA	FR	0	
		Aeb	16-47	LS	10YR 6/2	w, c, pl	FR	1-5, SR, GR	
		Cg1	47-55	LS	10YR 5/2	MA	L	1-5, SR, GR	
	Cg2	55-100	S	10YR 6/3	SG	L	1-5, SR, GR		

1073A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523419	6139806	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-25	LS	10YR 6/2	SG	L	1-5, SR, GR		
Bm	25-80	LS	10YR 4/6	SG	L	1-5, SR, GR			
C	80-100	LS	10YR 5/4	SG	L	1-5, SR, GR			
1075A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523527	6140236	undulating	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-55							
	Om	55-70							
Cg	70-100	LS	2.5Y 5/2	MA	NS				
1076A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523539	6140912	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-33	S	10YR 6/2	SG	L	30-40, SR, GR-ST		
Bm	33-60	S	10YR 4/6	SG	L	30-40, SR, GR-CB			
C	60-100	LS	10YR 6/3	SG	L	30-40, SR, GR			

1077A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523636	6140715	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-22	S	10YR 6/1	W,M,PL	FR	1-2, SR, GR		
	Bm	22-63	LfS	10YR 5/6	SG	L	1-2, SR, GR		
	C	63-88	LfS	10YR 6/4	SG	L	1-2, SR, GR		
IIC	88-100	CL	10YR 4/4	MA	FI	1-5, SR, GR			
1078A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523391	6140778	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-140								
Om	140-220								
1079A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523628	6141253	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-16	SL	10YR 6/2	M,M,PL	FR	1-5, SR, GR		
	BA	16-28	SL	10YR 5/3	M,M,SB	FR	1-5, SR, GR		
	Bt	28-60	CL	10YR 4/4	M,M,SB	FI	1-5, SR, GR		
C	60-100	CL	10YR 4/3	MA	FI	1-5, SR, GR			
1080A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523600	6141633	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ahe	0-8	LS	10YR 3/2	W,C,PL	FR	1-5, SR, GR		
	Ae	8-20	LS	10YR 6/2	W,C,PL	FR	1-5, SR, GR		
	Bm	20-42	SL	10YR 4/5	W,M,SB	FR	1-5, SR, GR		
C	42-100	SL	10YR 4/3	MA	FR	1-5, SR, GR			

1081A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	26-Aug-12	523258	6140800	level	level	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	20-0							
	Ae	0-17	LS	10YR 6/2	SG	L	1-5, SR, GR		
	Bm	17-60	LS	10YR 5/5	SG	L	1-5, SR, GR		
	C	60-100	LS	10YR 5/6	SG	L	1-5, SR, GR		
IICgj	100-110	SCL	10YR 4/4	MA	FI	1-5, SR, GR	f, f, f		
1082A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	522761	6140763	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	FH	4-0							
	Ae	0-13	LS	10YR 6/2	M,M,PL	FR	5-10, SR, GR-CB		
	BA	13-41	SL	10YR 6/3	W,M,SB	FR	5-10, SR, GR-CB		
	IIBt	41-70	CL	10YR 4/4	M,F,SB	FR	1-5, SR, GR		
	BC	70-100	CL	10YR 4/4	MA	FI	1-5, SR, GR		
	Ck	100-110	CL	10YR 6/3	MA	FI	1-5, SR, GR		
1083A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521645	6140346	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-17	SL	10YR 6/2	M,M,PL	FR	1-5, SR, GR		
	Bt	17-58	CL	10YR 4/4	M,M,SB	FI	1-5, SR, GR		
BC	58-100	CL	10YR 4/4	MA	FI	1-5, SR, GR			

1084A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521752	6140451	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
	Om	80-140							
	Cg	140-160	SCL	2.5Y 5/2	MA	ST	1-5, SR, GR		
1085A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521791	6140751	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-23	LS	10YR 6/1	W,M,PL	FR	1-5, SR, GR		
	AB	23-38	SL	10YR 6/2	M,M,PL	FR	1-5, SR, GR		
	Bm	38-74	LS	10YR 5/4	W,M,SB	FR	1-5, SR GR		
	C	74-100	LS	10YR 5/4	SG	L	1-5, SR, GR		
1087A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521625	6141284	level	level	Organic, Undifferentiated, Morainal	very poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	55-35							
	Om	35-0							
	Cg	0-45	SCL	2.5Y 5/1	MA	SS	1-5, SR, GR		

1088A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521349	6141214	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-160							
	Cg	160-170	SCL	2.5Y 4/1	MA	SS	5-10, SR, GR-CB		
1089A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521157	6141073	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	FH	3-0							
	Ahe	0-6	LS	10YR 3/2	SG	L	1-5, SR, GR		
	Ae	6-27	LS	10YR 6/2	SG	L	1-5, SR, GR		
	Bm	27-58	LS	10YR 4/6	SG	L	1-5, SR, GR		
	IIC	58-100	CL	10YR 5/3	MA	FI	1-5, SR, GR		
1090A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	520965	6141027	undulating	lower	Fluvial, Morainal	poorly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-12	LS	10YR 6/2	MA	NS	1-5, SR, GR		
	Bmg	12-63	SL	10YR 6/3	MA	NS	1-5, SR, GR		
	IICg	63-100	SCL	10YR 5/3	MA	S	1-5, SR, GR	c, f, p	
1091A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	523487	6142087	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-100							
	Cg	100-120	SCL	2.5Y 5/1	MA	SS	1-5, SR, G	-	

1092A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	523074	6142087	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-40							
	Om	40-95							
	Cg	95-100	SCL	2.5Y 5/1	MA	SS	1-5, SR, G	-	
1093A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	522663	6142234	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-61							
	Cg	61-100	SCL	2.5Y 5/1	MA	SS	1-5, SR, G		
1101A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	523161	6141565	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-7	LS	10YR 6/2	W,C,PL	FR	1-5, SR, G-C		
	Bm	7-70	LS	10YR 4/6	W,M,SB	FR	1-5, SR, G-C		
	C	70-100	Lfs	10YR 6/4	MA	FR	1-5, SR, G-C		
1102A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	522752	6141486	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-20	SL	10YR 6/2	W,M,PL	FR	1-5, SR, GR-CB		
	Bt	20-65	CL	10YR 4/4	S,M,SB	FI	1-5, SR, GR-CB		
	BC	65-87	CL	10YR 4/4	M,M,SB	vFI	1-5, SR, GR-CB		
Ck	87-100	CL	10YR 5/3	MA	vFI	1-5, SR, GR-CB			

1103A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	522138	6141374	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-18	LS	10YR 6/1	W,M,PL	FR	1-5, SR, GR		
Bm	18-58	LS	10YR 4/6	W,M,SB	FR	1-5, SR, GR			
C	58-100	LS	10YR 5/5	MA	FR	1-5, SR, GR			
1104A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	521196	6140851	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	FH	4-0							
	Ae	0-17	LS	10YR 6/1	SG	L	1-5, SR, GR		
Bm	17-45	LS	10YR 4/6	SG	L	1-5, SR, GR			
IIC	45-100	CL	10YR 5/3	MA	Fi	1-5, SR, GR			
1230A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524172	6135246	undulating	lower	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-14	fSL	10YR 6/2	W,F,PL	FR	<2, SR, G		
	Bt	14-60	SCL	10YR 3/4	M,M,SB	FI	5-10, SR, G-C		
Bm	60-75	SL	10YR 5/8	W,M,SB	FR	5-10, SR, G-C			
Ck	75-100	CL	2.5Y 4/4	MA	FI	<2, SR, G			
1231A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524417	6135252	level	level	Morainal	imperfectly	Rego, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	55-30							
	Om	30-5							
Oh	5-0								
Cg	0-50	CL	10YR 4/4	MA	S			C,M,D	

1232A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524646	6135493	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-13	SL	10YR 6/2	W,F,PL	FR	10-20, SR, G-C		
Bt	13-55	SCL	2.5Y 5/4	W,M,SB	FR	30-40, SR, G-C			
1233A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524926	6135499	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-20							
	Om	20-0							
	Aeg	0-10	SL	10YR 4/1	MA	SS	<2, SR, G		
	Btg	10-30	CL	10YR 4/4	MA	S	<2, SR, G	C,M,D	
Cg	30-50	CL	10YR 5/2	MA	S	<2, SR, G	C,M,D		
1234A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	525240	6135676	level	level	Organic, Undifferentiated, Morainal	imperfectly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-90							
Cg	90-120	CL	2.5Y 4/1	MA	S	<2, SR, G	C,M,P		
1235A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	525483	6135743	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-29	S	10YR 7/1	SG	L	<2, SR, G		
	Bm	29-80	S	10YR 5/8	SG	L	5-10, SR, G		
C	80-100	S	10YR 6/8	MA	FR	<2, SR, G			

1236A	Date 8-Sep-12	Easting 525743	Northing 6135706	Surface Expression level	Slope Position depression	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of	Depth 0-220	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
1237A	Date 8-Sep-12	Easting 525945	Northing 6135786	Surface Expression level	Slope Position level	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of	Depth 0-220	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
1238A	Date 8-Sep-12	Easting 526032	Northing 6135917	Surface Expression undulating	Slope Position mid	Parent Material Glaciofluvial	Drainage rapidly	Soil Classification Eluviated, Dystric Brunisol	Phase
	Horizon LFH	Depth 2-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-20	S	10YR 8/2	SG	L	<2, SR, G		
	Bm	20-60	S	10YR 5/8	SG	L	<2, SR, G		
	C	60-100	S	10YR 6/6	MA	FR	<2, SR, G		
1239A	Date 8-Sep-12	Easting 526301	Northing 6136072	Surface Expression undulating	Slope Position upper	Parent Material Glaciofluvial	Drainage rapidly	Soil Classification Eluviated, Dystric Brunisol	Phase
	Horizon LFH	Depth 2-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-20	S	10YR 7/1	SG	L	<2, SR, G		
	Bm	20-70	S	10YR 6/8	SG	L	<2, SR, G		
	C	70-100	S	10YR 6/6	MA	FR	<2, SR, G		

1240A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526578	6136495	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-19	S	10YR 7/1	SG	LO	<2/SR/GR		
	Bm	19-60	S	10YR 5/8	SG	LO	<2/SR/GR		
1242A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526594	6137043	level	level	Morainial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-10							
	Om	10-0							
	Bg	0-30	LS	10YR 5/4	MA	NS	<2/SR/GR	C/M/D	
1243A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	526417	6136051	level	level	Glaciolacustrine	poorly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	20-0							
	Aheg	0-13	LS	10YR 4/2	W,F,GR	NS	<2, SR, G		
	Btg	13-65	SCL	2.5Y 4/4	M,M,SB	SS	<2, SR, G	C,M,P	
1247A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526548	6137447	level	level	Organic, Undifferentiated, Glaciolacustrine	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-166							
	Cg	166	fSCL	5Y 5/1	MA				

1248A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526682	6137420	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
1249A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526928	6137439	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-15	S	10YR 7/2	SG	LO	<2/SR/GR		
	Bm	15-44	fS	10YR 6/8	SG	LO	<2/SR/GR		
	BC	44-60	S	10YR 5/8	SG	LO	<2/SR/GR		
	C	60-100	S	10YR 6/6	MA	FR	<2/SR/GR		
1250A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	527107	6137458	undulating	mid	Glaciofluvial	imperfectly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-10							
	Om	10-0							
	Ae	0-10	S	10YR 5/2	SG	NS	<2, SR, G		
	Bmgj	10-30	S	10YR 4/3	SG	NS	<2, SR, G		
	Cgj	30-100	S	10YR 5/4	MA	NS	<2, SR, G		
1251A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527299	6137400	ridged	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-20	S	10YR 7/1	W F PL	FR	<2 SR GR		
	BA	20-58	fSCL	10YR 6/3	M M SB	FI	2-5 SR GR		
	Bt	58-100	CL	2.5Y 5/4	MA	FI	2-5 SR GR		

1252A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527569	6137405	undulating	upper	Glaciofluvial		Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	S	10YR 7/1	SG	LO	2-5 SR GR		
	Bm	19-75	S	7.5Y 5/6	SG	LO	30-40 SR GR		
	C	75-100	cS	10YR 5/6	MA	FR	10-20 SR GR		
1252A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527569	6137405	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	S	10YR 7/1	SG	LO	2-5 SR GR		
	Bm	19-75	S	7.5Y 5/6	SG	LO	30-40 SR GR		
	C	75-100	cS	10YR 5/6	MA	FR	10-20 SR GR		
1253A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527702	6137283	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
1254A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527951	6137171	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

1256A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526387	6137445	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	28-0							
	Ae	0-8	S	10YR 5/3	SG	NS	<2, SR, G		
1257A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526254	6137449		depression	Morainal	very poorly	Rego, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	5-0							
	Cg	0-100	SCL	5Y 2.5/1	MA	S	2-5, SR,G		
1258A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526093	6134768	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Om	100-120							
1259A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525873	6137462	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-120							
	Cg	120-130	CL	5Y 4/1	MA	S	<2, SR, G		

1260A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525564	6137419	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-19	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	19-40	S	10YR 6/8	SG	L	<2, SR, G		
	C	40-55	S	10YR 5/6	MA	FR	<2, SR, G		
	IIC	55-100	SCL	10YR 4/4	MA	FI	<2, SR, G		
1261A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525192	6137460	undulating	lower	Glaciofluvial	moderately well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	21-0							
	Ae	0-22	S	10YR 3/2	SG	NS	<2, SR, G		
	Bm	22-60	S	10YR 3/4	SG	NS	<2, SR, G		
	C	60-100	S	10YR 5/4	MA	NS	<2, SR, G		
1262A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524996	6137446	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-13	S	10YR 6/2	SG	L	<2, SR, G		
	Bm	13-70	S	10YR 5/8	SG	L	2-5, SR, G		
	C	70-100	fs	10YR 5/6	MA	FR	5-10, SR, G		

1263A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524971	6137340	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-16	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	16-70	S	10YR 6/8	SG	L	<2, SR, G		
C	70-100	S	10YR 5/6	MA	FR	<2, SR, G			
1264A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524955	6137244	undulating	lower	Glaciofluvial	imperfectly	Orthic, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	18-0							
	Bm1	0-42	S	10YR 5/2	SG	L	<2, SR, G		
	Bm2	42-60	S	10YR 5/4	SG	L	<2, SR, G		
C	60-100	LS	10YR 4/3	MA	FR	<2, SR, G			
1266A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524565	6137454	undulating	lower	Organic, Undifferentiated, Glaciolacustrine	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-40							
	Om	40-100							
	Cg	100-120	CL	5Y 4/1	MA	S	<2, SR, G		
1267A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524448	6137452	undulating	upper	Morainial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-17	LS	10YR 6/2	W,F,PL	FR			
	BA	17-38	SL	10YR 5/4	W,M,SB	FR			
Bt	38-90	SCL	10YR 4/3	M,M,SB	FI				
C	90-100	SL	2.5Y 5/3	MA	FI				

1268A	Date 7-Sep-12	Easting 524369	Northing 6137468	Surface Expression undulating	Slope Position depression	Parent Material Organic, Undifferentiated, Morainal	Drainage very poorly	Soil Classification Terric Mesic, Fibrisol	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Om	100-140							
	Oh	140-150							
	Cg	150-160	LS	10YR 3/3	MA	NS	<2, SR, G		
1269A	Date 7-Sep-12	Easting 524283	Northing 6137421	Surface Expression undulating	Slope Position upper	Parent Material Morainal	Drainage well	Soil Classification Orthic, Gray Luvisol	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-14	S	10YR 6/2	SG	L	<2, SR, G		
	BA	14-24	SL	10YR 5/3	W,M,SB	FR	<2, SR, G		
	Bt	24-60	SCL	10YR 5/4	M,M,SB	FR	<2, SR, G		
	C	60-100	CL	10YR 4/3	MA	FI	<2, SR, G		
1270A	Date 7-Sep-12	Easting 526382	Northing 6137673	Surface Expression undulating	Slope Position upper	Parent Material Glaciofluvial, Morainal	Drainage rapidly	Soil Classification Eluviated, Dystric Brunisol	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-17	S	10YR 7/1	SG	LO	<2/SR/GR		
	Bm	17-40	fS	10YR 6/8	SG	LO	2-5/SR/GR		
	BC	40-70	S	10YR 5/8	SG	LO	2-5/SR/GR		
	C	70-80	S	10YR 7/4	MA	FR	<2/SR/GR		
	IIC	80-100	SCL	2.5Y 4/4	MA	FI	<2/SR/GR		

1271A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	526361	6137810	undulating	mid	Fluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-29	S	10YR 7/2	SG	LO	2-5/SR/GR		
Bm	29-62	S	10YR 6/8	SG	LO	2-5/SR/GR			
C	62-100	S	10YR 6/6	MA	FR	<2/SR/GR			
1272A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526323	6138135	level	level	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-20	S	10YR 5/2	SG	L	<2, SR, G		
BA	20-50	S	10YR 4/4	SG	L	<2, SR, G			
Bm	50-100	S	10YR 4/6	SG	L	<2, SR, G			
IIC	100-120	CL	2.5Y 4/4	MA	FI	<2, SR, G			
1273A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526221	6138334	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-20	S	10YR 7/2	W,F, PL	FR	2-5, SR, G		
Bm	20-63	fS	10YR 6/8	SG	L	5-10, SR, G			
C	63-100	S	10YR 6/3	MA	FR	5-10, SR, G			

1274A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525990	6138425	level	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-14	S	10YR 6/1	W/M/PL	FR	<2/SR/GR		
	BA	14-30	SL	10YR 5/6	W/M/SB	FR	<2/SR/GR		
	Bt	30-65	SCL	2.5Y 5/4	M/M/SB	FI	<2/SR/GR		
C	65-100	CL	2.5Y 4/4	MA	FI	<2/SR/GR			
1275A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525774	6138497	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-18	S	10YR 7/1	SG	LO	<2/SR/GR		
	Bm	18-80	S	10YR 6/8	SG	LO	<2/SR/GR		
	C	80-100	S	10YR 7/4	MA	FR	<2/SR/GR		
IIC	100-110	SCL	2.5Y 4/4	MA	FI	<2/SR/GR			
1276A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525648	6138573	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-15	S	10YR 7/1	SG	LO	<2/SR/GR		
	Bm	15-40	S	10YR 6/8	SG	LO	<2/SR/GR		
	BC	40-70	S	10YR 5/8	SG	LO	<2/SR/GR		
C	70-100	S	10YR 6/4	MA	FR	<2/SR/GR			

1277A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	525303	6138641	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-20	S	10YR 6/2	SG	LO	<2/SR/GR		
	Bm	20-32	S	10YR 5/6	SG	LO	<2/SR/GR		
	C	32-95	S	10YR 7/4	MA	FR	<2/SR/GR		
	IIC	95-120	SCL	2.5Y 4/4	MA	FI	<2/SR/GR		
1278A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524984	6138618	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-120							
	Cg	120-130	CL	5Y 4/1	MA	S			
1279A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524912	6138649	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-120							
	Cg	120-130	CL	5Y 4/1	MA	ST			

1280A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	524554	6138688	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-10							
	Om	10-0							
	Ae	0-10	LS	10YR 5/2	MA	NS	<2/SR/GR		
	BA	10-30	LS	10YR 4/6	MA	NS	<2/SR/GR	C/M/D	
	Btg	30-60	fSCL	2.5Y 3/4	MA	S	<2/SR/GR	M/M/P	
	Cg	60-100	CL	5Y 5/1	MA	S	<2/SR/GR	M/M/P	
1282A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526325	6138557	level	level	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	15-0							
	Ae	0-27	S	10YR 5/3	SG	L	<2, SR, G		
	Bm	27-65	S	10YR 4/4	SG	L	<2, SR, G		
	C	65-80	S	2.5Y 5/3	MA	FR	<2, SR, G		
	IIC	80-100	SCL	2.5Y 4/4	MA	FI	<2, SR, G		
1283A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526410	6138749	level	level	Morainal	well	Gleyed, Gray Luvisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	22-3							
	Om	3-0							
	Ae	0-24	LS	10YR 5/3	W,F,PL	FR	<2, SR, G		
	Btgj	24-65	SL	2.5Y 5/4	M,M,SB	FI	<2, SR, G	F,F,D	
	Cg	65-100	CL	2.5Y 4/4	MA	FI	<2, SR, G	C,M,D	

1284A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	526585	6139041	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-10	SL	10YR 8/1	W F PL	FR	<2 SR GR		
	BA	10-22	fSL	2.5Y 6/4	W F SB	FR	<2 SR GR		
	Bm	22-37	fS	10YR 5/6	W F SB	FR	<2 SR GR		
	C	37-100	fS	2.5Y 7/3	MA	FR	<2 SR GR		
1285A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	526597	6139183	undulating	mid	Morainal	well	Gleyed Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	20-0							
	Ah	0-17	L	10YR 4/1	GR	FR	<2 SR GR		
	Aegj	17-33	LS	10YR 6/1	W F PL	FR	<2 SR GR		
	Bmgj	33-77	S	10YR 5/3	W M SB	FR	<2 SR GR		
	Cg	77-100	CL	2.5Y 6/2	MA	FI	<2 SR GR	fmd	
1286A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526451	6139369	level	level	Organic, Undifferentiated	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-50							
	Om	50-110							
	Cg	110-120	LS	10YR 3/2	MA	NS	<2, SR, GR		
1287A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526365	6139526	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-120							
1288A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase

6-Sep-12	526232	6139771	undulating	level	Glaciofluvial, Morainal	moderately well	Eluviated, Dystric Brunisol		
Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
LFH	6-0								
Ae	0-8	LS	10YR 5/3	w, f, pl	FR	<2, SR, GR			
Bm	8-50	S	10YR 4/6	SG	LO	2-5, SR, GR			
C	50-85	S	10YR 6/6	MA	FR	<2, SR, GR			
II Cg	85-100	SCL	2.5Y 6/1	MA	NS	<2, SR, GR			
1289A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527631	6139404	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Cg1	60-75	S	10YR 3/3	MA	NS	<2, SR, GR	f, f, f	
	Oh	75-90							
	Cg2	90-100	SC	2.5Y 4/3	MA	S	<2, SR, GR	c, m, d	
1289A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	526063	6140007	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-12	LS	10YR 7/1	W F PL	FR	<2 SR GR		
	BA	12-28	fSL	10YR 7/3	W M SB	FR	2-5 SR GR		
	Bt	28-73	CL	10YR 5/3	M M SB	FI	<2 SR GR		
	C	73-100	CL	2.5Y 5/3	MA	FI	<2 SR GR		

1290A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	525980	6140307	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-0							
	Aegj	0-15	LS	10YR 6/3	w, f, pl	NS	<2, SR, GR	f, f, f	
Btg	15-45	SL	10YR 3/3	m, m, sb	SS	<2, SR, GR	c, f, p		
Cg	45-100	SCL	10YR 4/3	MA	S	<2, SR, GR	m, m, d		
1291A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	525707	6140314	undulating	mid	Glaciofluvial, Morainal	moderately well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-11	LS	10YR 6/1	w, f, pl	FR	<2, SR, GR		
Bm	11-30	S	10YR 5/6	SG	LO	<2, SR, GR			
C	30-65	S	2.5Y 6/3	MA	FR	<2, SR, GR			
II C	65-100	CL	2.5Y 4/4	MA	FI	<2, SR, GR			
1292A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	525493	6140326	level	level	Glaciofluvial, Morainal	moderately well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-12	S	10YR 6/3	SG	LO	2-5, SR, GR		
Bm	12-30	S	10YR 5/8	SG	LO	2-5, SR, GR			
BC	30-75	S	2.5Y 6/3	SG	LO	<2, SR, GR			
C	75-90	SiL	2.5Y 5/4	MA	FI	<2, SR, GR			
II C	90-100	C	2.5Y 4/3	MA	vFI	<2, SR, GR			
1293A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	525285	6140248	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-130							

1294A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	526842	6139220	undulating	mid	Glaciofluvial, Morainal	well	Gleyed Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-14	S	10YR 7/2	SG	LO	<2 SR GR		
	Bm	14-40	S	10YR 6/4	SG	LO	2-5 SR GR		
	IIBtgj	40-57	CL	10YR 5/3	M M SB	FI	2-5 SR GR	mcd	
	Cgj	57-100	CL	2.5Y 5/3	MA	FI	<2 SR GR	mcd	
1295A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	527028	6139210	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-19	S	10YR 8/1	SG	LO	<2 SR GR		
	Bm	19-57	S	10YR 6/8	SG	LO	<2 SR GR		
	C	57-100	S	10YR 7/4	SG	LO	<2 SR GR		
1296A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	527388	6139237	level	level	Organic, Undifferentiated, Glaciofluvial	poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-30							
	Om	30-65							
	Aeg	65-75	S	10YR 7/2	MA	FR	<2 SR GR		
	Bg	75-90	S	10YR 6/4	MA	FR	<2 SR GR		
	Cg	90-100	S	10YR 7/3	MA	FR	<2 SR GR		

1297A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527634	6139186	undulating	toe	Morainal	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	35-0							
	Bg	0-33	CL	2.5Y 5/4	M M SB	FI	<2 SR GR	m m d	
Cg	33-100	SCL	2.5Y 6/2	MA	FI	<2 SR GR	c m p		
1299A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527556	6139743	undulating	upper	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-13	S	10YR 7/1	SG	LO	<2 SR GR		
BA	13-45	fSL	10YR 6/3	W F SB	FR	2-5 SR GR			
Bm	45-100	vfS	7.5YR 5/4	W F SB	FR	<2 SR GR			
1300A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	527557	6140081	undulating	mid	Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	14-0							
	Ae	0-10	S	10YR 7/1	SG	LO	5-10 SR GR		
Bm1	10-30	fS	10YR 6/8	SG	LO	10-20 SR GR			
Bm2	30-75	S	10YR 5/6	SG	LO	20-30 SR GR-CO			
1301A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527501	6140427	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

1302A1	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527503	6140864	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae1	0-8	SL	10YR 6/2	W F PL	FR	2-5 SR GR		
	Ae2	8-26	fSL	10YR 7/2	M M PL	FR	2-5 SR GR		
Bt	26-65	fSCL	10YR 6/3	M M SB	V.FI	<2 SR GR			
1302A2	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527533	6140659	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
1304A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527517	6140221	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-100 100-200	SL	10YR 6/2	MA	<2 SR GR			
1305A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527503	6140986	ridged	crest	Glaciofluvial	rapidly	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-15	S	10YR 7/1	SG	LO	2-5 SR GR		
	Bm	15-57	S	10YR 6/8	SG	LO	2-5 SR GR		
C	57-100	LS	2.5Y 6/4	MA	LO	<2 SR GR			

1306A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528043	6139073	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-14	S	10YR 8/1	SG	LO	<2 SR GR		
Bm	14-66	fS	10YR 6/6	SG	LO	2-5 SR GR			
C	66-100	fS	10YR 7/3	MA	FR	<2 SR GR			
1307A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528048	6138926	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-85							
	Cg	85-100	cS	2.5Y 5/2	MA	NS	<2 SR GR		
1308A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528039	6138549	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-170							
	Cg	170-200	fSL	5Y 5/1	MA	SS	<2 SR GR		
1309A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528074	6138297	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	S	10YR 7/1	SG	LO	2-5 SR GR		
	BA	19-43	SL	10YR 6/3	W M SB	FR	5-10 SR GR		
	Bm	43-61	fSL	2.5Y 7/3	W M SB	FR	<2 SR GR		
IIC	61-100	CL	2.5Y 5/4	MA	FI	<2 SR GR			

1310A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528036	6138005	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-28	S	10YR 8/1	SG	LO	<2 SR GR		
Bm	28-73	S	10YR 5/8	SG	LO	2-5 SR GR			
C	73-100	S	10YR 7/4	MA	FR	<2 SR GR			
1311A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528051	6137833	ridged	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-16	S	10YR 7/1	SG	LO	5-10 SR GR		
Bm1	16-57	S	10YR 6/8	SG	LO	20-30 SR GR			
Bm2	57-100	S	10YR 5/6	MA	LO	5-10 SR GR			
1312A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528073	6137585	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
1313A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528084	6137346	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
1314A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528015	6139661	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-7	LfS	10YR 7/1	W F PL	FR	10-20 SR GR-CO		
Bt	7-48	CL	10YR 5/3	M M SB	FI	10-20 SR GR-CO			

1315A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528020	6139949	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-11	LfS	10YR 7/1	W F PL	FR	<2 SR GR		
	Bt	11-65	CL	10YR 5/3	M M SB	FR	2-5 SR GR		
C	65-100	CL	2.5Y 5/3	MA	FI	<2 SR GR			
1317A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	28-Aug-12	528011	6140297	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-15	SL	10YR 7/2	W F PL	FR	<2 SR GR		
	BA	15-38	S	10YR 6/3	W F SB	FR	2-5 SR GR		
Bt	38-63	SCL	10YR 5/3	W M SB	FR	2-5 SR GR			
C	63-100	SCL	10YR 5/4	MA	FI	<2 SR GR			
1318A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	527948	6140515	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-33	S	10YR 8/1	SG	LO	<2 SR GR		
	Bm	33-71	S	10YR 6/4	SG	LO	<2 SR GR		
C	71-100	fS	2.5Y 6/3	MA	FR	<2 SR GR			
1335A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	527947	6141551	undulating	mid	Glaciofluvial, Glaciolacustrine	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	S	-	SG	LO	5-10/SR/GR		
	Bm	19-54	Si	-	M/S/SB	FR	<2/SR/GR		
BC	54-72	C	-	MA	FI	<2/SR/GR			
IIC	72-100	CL	-	MA	FI	2-5/SR/GR			

1336A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	24-Aug-12	527771	6141583	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae1	0-3	S	-	SG	LO	2-5/SR/GR		
	Bm1	3-19	S	-	SG	LO	2-5/SR/GR		
	Ae2	19-35	fS	-	W/F/PL	FR	2-5/SR/GR		
	Bm2	35-57	fS	-	W/M/SB	FR	<2/SR/GR		
	IIC	57-100	SCL	-	MA	FI	<2/SR/GR		
1337A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	527552	6141636	undulating	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-50							
	Om	50-160							
	Cg	160-200	S		MA	NS	<2 SR GR		
1338A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	527541	6141823	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-6	S		SG	LO	<2 SR GR		
	Bm	6-40	S		SG	LO	<2 SR GR		
	BC	40-80	S		SG	LO	<2 SR GR		
	IIC	80-100	CL		MA	FI	<2 SR GR		

1339A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	523811	6141716	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-38	S	7.5YR 6/2	SG	L	1-5, SR, G-S		
	Bm	38-69	S	7.5YR 5/6	SG	L	1-5, SR, G-S		
	C	69-100	S	7.5YR 6/6	SG	L	1-5, SR, G-S	-	
1341A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	524520	6141812	undulating	mid	Morainial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-12	vfSL		W F PL	FR	<2 SR GR		
	BA	12-46	vfSL		M M SB	FR	<2 SR GR		
	Bt	46-58	CL		M M SB	FR	<2 SR GR		
	BC	58-73	LS		MA	FR	<2 SR GR		
	C	73-100	LS		MA	FR	<2 SR GR		
1342A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Feb-12	524956	6141971	undulating	mid	Morainial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-12	fS		W F PL	FR	<2 SR GR		
	Bm	12-26	fS		W M SB	FR	<2 SR GR		
	BC	26-67	fS		W M SB	FR	<2 SR GR		
	C	67-100	fS		MA	FI	<2 SR GR		

1343A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	525064	6142230	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	30-0							
	Aegj	0-5	LS		W F PL	FR	<2 SR GR	fff	
1367A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	526050	6142225	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-14	sL		GR	FR	<2 SR GR		
1368A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	526316	6142151	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-10	S		SG	LO	<2 SR GR		
1370A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	526675	6142085	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-10	SL		W F PL	FR	<2 SR GR		

1371A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	526817	6142073	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	17-0							
	Ae	0-11	LS		W F PL	FR	5-10 SR GR		
	BA	11-37	SL		M M SB	FR	2-5 SR GR		
	Bt	37-68	CL		M M SB	FI	<2 SR GR		
Ck	68-100	CL		MA	FI	<2 SR GR	M		
1372A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	527044	6142129	undulating	lower	Organic, Undifferentiated, Morainal	imperfectly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-75							
Cg	75-100	CL	5Y 5/1	MA	FI	2-5/SR/GR	M/M/D		
1373A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	527187	6142119	undulating	mid	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-7	LS		W F PL	FR	5-10 SR GR		
	Bm	7-68	SiL		S M SB	FR	5-10 SR GR		
BC	68-100	CL		MA	FI	5-10 SR GR			
220A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	506837	6134040	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-10	SL	10YR 7/2	w/m/pl	FR	5-10/SR/GR		
	Btj	10-24	SL	10YR 5/3	w/f/sb	FR	5-10/SR/GR		
Bt	24-69	SCL	10YR 5/3	MA	FI	1-5/SR/GR			
C	69-100+	SCL	2.5Y 5/3	MA	FI	1-5/SR/GR			

270A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	506794	6133905	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-140 140-160	LS	2.5Y 6/3	MA	NS	1-5/SR/GR		
279A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	506888	6133680	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
280A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	506898	6133545	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-135 135-160	fSL	5Y 5/1	MA	NS	1-5/SR/GR		
281A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	506891	6133212	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-60 60-100+	SCL	2.5Y 6/1	MA	SS	1-5/SR/GR		

282A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	506887	6132865	level	level	Morainal	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	14-0							
	Aeg	0-17	LS	10YR 6/2	W,M,PL	NS	1-5, SR, G		
	Bg	17-60	SL	2.5Y 7/3	MA	SS	5-10, SR, G		
Cg	60-100	SCL	2.5Y 5/2	MA	-	1-5, SR, G	F,M,P		
292A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	506916	6132630	undulating	upper	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-15	LS	10YR 7/2	W,M,PL	FR	1-5, SR, G		
	Bm	15-25	LS	10YR 6/6	W,M,SB	FR	1-5, SR, G		
Bt	25-65	SCL	10YR 5/3	M,M,SB	FI	1-5, SR, G			
C	65-100	SCL	2.5Y 5/2	MA	FI	1-5, SR, G			
293A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	506897	6132482	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
Cg	80-100	SCL	5Y 5/1	MA	SS	5-10, SR, G-C			
294A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	506925	6132376	level	level	Organic, Undifferentiated, Glaciofluvial	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-95							
Cg	95-110	SL	2.5Y 5/2	MA	SS	1-5, SR, G			

295A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	506888	6132129	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-3	SL	10YR 6/2	W,F,PL	FR	1-5, SR, G		
	AB	3-10	fSCL	10YR 5/3	M,M,PL	FR	1-5, SR, G		
	Bt1	10-37	SCL	10YR 5/2	M,M,SB	FI	1-5, SR, G		
	Bt2	37-80	SCL	10YR 5/2	M,F,SB	FI	1-5, SR, G		
Cgj	80-100	SCL	2.5Y 5/3	MA	S	1-5, SR, G	M,M,F		
296A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	507094	6132706	undulating	level	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-9	SL	10YR 6/2	W,M,PL	FR	10-20, SR, G-C		
	Bt	9-57	SCL	10YR 5/4	M,M,SB	FI	10-20, SR, G-C		
Ck	57-100	CL	2.5Y 5/3	MA	FI	10-20, SR, G-C			
297A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	507316	6132775	undulating	mid	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-50							
	Om	50-70							
Cg	70-120	SCL	2.5Y 5/4	MA	SS	10-20, SR, G	M,M,P		

298A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	507310	6132700	undulating	mid	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Aeg	60-70	LS	2.5Y 6/2	MA	SS	1-5, SR, G		
	Btg	78-80	SL	2.5Y 5/2	MA	FR	1-5, SR, G		
	Cg	80-100	SCL	2.5Y 6/3	MA	SS	1-5, SR, G		
299A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	507582	6132750	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-7	LS	10YR 6/2	W,M,PL	FR	1-5, SR, G-C		
	Bt1	7-16	SL	10YR 5/4	W,F,SB	FR	1-5, SR, G-C		
	Bt2	16-55	SCL	2.5Y 6/3	M,M,SB	FI	1-5, SR, G-C		
	C	55-100	fSCL	2.5Y 5/3	MA	FI	1-5, SR, G-C		
300A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508215	6132807	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-7	LS	10YR 6/2	M/M/PL	vFR	<1/SR/GR		
	Bm	7-55	S	10YR 5/4	SG	LO	1-5/SR/GR		
	BC	55-85	LS	2.5Y 6/3	MA	vFR	<1/SR/GR		
	C	85-100	LS	2.5Y 6/4	MA	vFR	<1/SR/GR		

301A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	507919	6132773	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-22	S	10YR 6/2	SG	LO	<1/SR/GR		
	Bm	22-45	S	10YR 4/4	SG	LO	<1/SR/GR		
	BC	45-80	S	10YR 5/4	SG	LO	<1/SR/GR		
	C	80-100	S	2.5Y 5/4	SG	LO	1-5/SR/GR		
302A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508005	6133098	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-100							
	Cg	100-120	SCL	10Y 5/1	MA	S	1-5, SR, G		
303A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507937	6133136	hummocky	upper	Morainal	very poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-10							
	Om	10-0							
	Ahg	0-3	SL	10YR 3/1	MA	SS	<1, SR, G	F,F,P	
	Bg	3-15	SL	2.5Y 5/2	MA	SS	<1, SR, G	F,F,P	
	Cg	15-50	SCL	2.5Y 5/2	MA	S	<1, SR, G	M,C,P	

304A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507713	6133224	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-13	LS	10YR 6/2	SG	L	<1, SR, G		
	BA	13-28	SL	2.5Y 6/3	W,M,SB	FR	<1, SR, G		
	Bt	28-60	CL	2.5Y 5/3	M,M,SB	FI	<1, SR, G		
Ck	60-100	CL	2.5Y 5/2	MA	FI	<1, SR, G			
305A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507615	6133354	undulating	level	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-9	SL	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	Bt	9-56	SCL	10YR 5/3	m/m/sb	FI	1-5/SR/GR		
Ck	56-100+	CL	2.5Y 5/3	MA	FI	5-10/SR/GR			
306A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507393	6133618	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-170 170-200+							
		SCL	10Y 6/1	MA	SS	1-5/SR/GR			
307A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507222	6133812	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
308A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507040	6133828	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220+								

309A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508275	6132701	undulating	lower	Glaciofluvial	imperfectly	Gleyed, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-19	S	10YR 6/2	MA	NS	<1/SR/GR		
Bm	19-45	S	10YR 5/4	MA	NS	<1/SR/GR			
Cgj	45-100	Lfs	2.5Y 6/3	MA	SS	<1/SR/GR		M/C/D	
310A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508518	6132613	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
310A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508729	6132316	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-105							
	Cg	105-120	CL	N 5/1	MA	S	<1/SR/GR		
311A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508519	6132507	hummocky	upper	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-15	S	10YR 7/2	SG	LO	<1/SR/GR		
	Bm	15-28	LS	10YR 5/6	W/M/SB	vFR	<1/SR/GR		
Bt	28-60	CL	10YR 5/3	M/M/SB	FI	<1/SR/GR			
Ck	60-100	CL	2..5Y	MA	FI	<1/SR/GR			

312A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508983	6132294	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-13	LS	10YR 6/2	W/M/PL	vFR	<1/SR/GR		
	Bm	13-55	LS	10YR 5/4	W/M/SB	vFR	<1/SR/GR		
	BC	55-85	S	2.5Y 5/4	SG	LO	<1/SR/GR		
C	85-100	S	2.5Y 6/4	SG	LO	<1/SR/GR			
313A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509105	6132194	hummocky	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-22	S	10YR 6/2	SG	LO	<1/SR/GR		
	Bm	22-45	LS	10YR 5/4	W/M/SB	vFR	5-10/SR/GR-CO		
	IIC	45-100	CL	2.5Y 4/2	MA	FI	<1/SR/GR		
314A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509025	6132023	hummocky	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-24	LS	10YR 6/2	M/F/PL	vFR	<1/SR/GR		
	Bt	24-65	CL	10YR 5/2	M/M/SB	FI	<1/SR/GR		
	C	65-100	CL	2.5Y 5/2	MA	FI	<1/SR/GR		
315A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	508929	6131915	level	level	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-14	fSL	10YR 6/1	w/f/pl	FR	<2/SR/GR		
	BA	14-25	fSL	10YR 5/4	w/m/sb	FR	2-5/SR/GR		
	Bt	25-60	SCL	10YR 4/4	m/m/sb	FI	2-5/SR/GR		
C	60-100+	CL	10YR 3/4	MA	FI	<2/SR/GR			

316A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	508791	6131894	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-13	fSL	10YR 6/2	w/f/pl	FR	2-5/SR/GR		
	BA	13-35	SL	10YR 5/6	w/m/sb	FR	5-10/SR/G-S		
Bt	35-70	SCL	10YR 4/3	w/w/sb	FI	<2/SR/GR			
C	70-100+	MA	2.5Y 3/4	MA	FI	<2/SR/GR			
317A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	508581	6131852	level	level	Morainal	very poorly	Rego, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	4-0							
Cg	0-100+	L	10YR 3/1	MA	SS	<2/SR/GR			
318A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509201	6131781	undulating	upper	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-20	LS	10YR 7/2	SG	LO	<2/SR/GR		
Bm	20-60	LS	10YR 6/8	SG	LO	<2/SR/GR			
C	60-100+	fLS	10YR 5/4	MA	FR	<2/SR/GR			
319A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508729	6132316	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Om	0-105								
Cg	105-120+	CL	N 5/1	MA	S	<1/SR/GR			

320A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508546	6132327	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-90							
	Oh	90-100							
	Cg1	100-110	SiCL	2.5Y 3/1	MA	S	0	F/F/P	
	Cg2	110-120	fSL	N 5/1	MA	SS	<1/SR/GR		
321A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508547	6132815	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-19	LS	10YR 7/1	W/C/PL	vFR	<1/SR/GR		
	Bm	19-60	S	10YR 5/6	SG	LO	<1/SR/GR		
	C	60-100	LS	2.5Y 6/4	MA	FI	<1/SR/GR		
322A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508716	6132812	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-20	fSL	10YR 7/1	M/F/PL	SH	<1/SR/GR		
	Bt	20-60	SiCL	10YR 4/2	M/M/SB	H	<1/SR/GR		
	C	60-100	SC	10YR 4/2	MA	H	<1/SR/GR		

323A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	508904	6132817	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-65							
	Om	65-115							
	Cg	115-120	SL	2.5Y 4/1	MA	SS	1-5/SR/GR		
324A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509029	6132833	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-70							
	Om	70-110							
	Cg	110-120	SL	10Y 5/1	MA	SS	1-5/SR/GR		
325A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509152	6132866	undulating	lower	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	15-0							
	Aegj	0-28	LS	10YR 6/2	M/C/P	FR			
	Btg	28-70	SL	10YR 5/2	MA	SS			
	Cg	70-100	CL	2.5Y 4/2	MA	S			

326A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509308	6132850	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-15	LS	10YR 7/1	W/C/P	vFR	<1/SR/GR		
	BA	15-37	SL	2.5Y 6/3	W/M/SB	FR	<1/SR/GR		
	Bt	37-65	CL	2.5Y 5/3	M/M/SB	FI	<1/SR/GR		
	BC	65-80	CL	2.5Y 5/2	MA	FI	<1/SR/GR		
Ck	80-100	CL	2.5Y 4/2	MA	FI	1-5/SR/GR			
327A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509147	6132791	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-12	S	10YR 6/2	SG	LO	1-5/SR/GR		
	BA	12-34	LS	10YR 5/4	W/M/SB	vFR	1-5/SR/GR		
	Bt	34-60	CL	10YR 5/2	M/M/SB	FI	1-5/SR/GR		
	BC	60-80	CL	2.5Y 5/2	MA	FI	1-5/SR/GR		
C	80-100	CL	2.5Y 4/2	MA	FI	1-5/SR/GR			
328A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509153	6132674	level	level	Organic, Undifferentiated	very poorly	Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
Om	100-190								
Cg	190-220	CL	5GY 5/1	MA	S	<1/SR/GR			

329A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509290	6131992	undulating	upper	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-20	fSL	10YR 7/1	w/f/pl	FR	<2/SR/GR		
Bm	20-58	fSL	10YR 6/8	w/m/sb	FR	<2/SR/GR			
C	58-100+	S	10YR 6/6	MA	FR	<2/SR/GR			
330A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509358	6132122	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-12	fSL	10YR 6/2	w/f/pl	FR	<2/SR/GR		
AB	12-22	fSL	10YR 5/4	m/m/pl	FR	<2/SR/GR			
Bt	22-60	SCL	10YR 4/6	m/m/sb	FI	<2/SR/GR			
C	60-100+	SCL	10YR 3/4	MA	FI	<2/SR/GR			
330AA	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509484	6132200	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-20							
	Om	20-68							
Cg	68-100	CL	2.5Y 3/1	MA	S	<2/SR/GR	C/C/D		
332A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509617	6132305	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-70							
	Om	70-90							
Cg	90-110	SL	2.5Y 3/2	MA	NS	<2/SR/GR			

334A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509810	6132420	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-12	fSL	10YR 7/1	w, f, pl	FR	<2, SR, GR		
	Bt	12-65	SCL	10YR 5/6	m, m, sb	FI	<2, SR, GR		
C	65-100	CL	2.5Y 4/4	MA	FI	<2, SR, GR			
334AA	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509850	6132618	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-12	SL	10YR 6/1	w, f, pl	FR	<2, SR, GR		
	BA	12-25	SL	10YR 5/6	w, f, sb	FR	2-5, SR, GR		
Bt	25-62	SCL	10YR 5/4	m, m, sb	FI	<2, SR, GR			
C	62-100	CL	10YR 4/4	MA	FI	<2, SR, GR			
335A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509976	6132731	undulating	mid	Morainal	imperfectly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-19	LS	10YR 6/2	w, f pl	FR	<2, SR, GR		
	Btj	19-40	SL	10YR 4/6	w, m, sb	FR	<2, SR, GR		
Bm	40-100	LS	10YR 6/4	w, m, sb	FR	<2, SR, GR			
II C	100-120	CL	2.5Y 5/3	MA	S	<2, SR, GR	m, m, d		
336A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510038	6132875	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
OF	0-220								

337A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510149	6132935	undulating	crest	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-19	LS	10YR 6/1	sg	L	1-5, SR, GR		
	Bm	19-44	LS	10YR 4/6	SG	L	1-5, SR, GR		
	BC	44-72	LS	10YR 5/4	SG	L	1-5, SR, GR		
C	72-100	LS	10YR 6/3	SG	L	1-5, SR, GR			
337AA	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510148	6132931	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-12	LS	10YR 7/2	w, f, pl	FR	<2, SR, GR		
	Bm	12-75	S	10YR 6/8	w, m, sb	FR	<2, SR, GR		
	C	75-100	LS	10YR 5/6	MS	FR	<2, SR, GR		
338A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510374	6132947	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-12	Lfs	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	12-55	SCL	10YR 4/4	m, m, sb	FI	1-5, SR, GR		
	C	55-100	CL	10YR 5/3	MA	FI	1-5, SR, GR		
338AA	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510345	6132925	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-17	LS	10YR 6/2	w/f/pl	FR	<2/SR/GR		
	BA	17-34	SL	10YR 4/6	w/m/sb	FR	<2/SR/GR		
	Bt	34-70	SCL	10YR 4/4	m/m/sb	FI	<2/SR/GR		
C	70-100+	CL	10YR 3.4	MA	SS	<2/SR/GR	c/f/f		

339A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510556	6132975	undulating	lower	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-16	SL	10YR 6/3	w, f, pl	FR	<2, SR, GR		
	Btgj	16-50	SCL	10YR 4/4	m, m, sb	S	<2, SR, GR	c, f, f	
Cg	50-100	CL	2.5Y 5/3	MA	S	<2, SR, GR			
339A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510539	6132955	undulating	lower	Morainal	poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-0							
Cg	0-50	SCL	10YR 5/2	MA	S	1-5, SR, G			
340A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510881	6133003	undulating	upper	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-9	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	9-55	SCL	10YR 4/3	m, m, sb	FI	<2, SR, GR		
C	55-100	CL	2.5Y 4/4	MA	FI	<2, SR, GR			
340A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510765	6133003	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-11	SL	10YR 5/2	w, f, pl	FR	<2, SR, GR		
	Bm	11-31	LS	10YR 4/5	w, f, SB	FR	1-5, SR, GR		
	IIBt	31-60	SCL	10YR 4/4	m, m, sb	FI	1-5, SR, GR		
C	60-100	CL	2.5Y 5/3	MA	FI	1-5, SR, GR			

341A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	510644	6132836	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-120								
	Cg	120-130	SCL	2.5Y 4/1	MA	S	1-5, SR, GR			
341A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	10-Sep-12	510649	6132905	level	level	Organic, Undifferentiated	poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
342A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	10-Sep-12	510423	6132883	level	upper	Morainal	well	Orthic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	13-0							
		Ae	0-15	LS	10YR 6/2	w/f/pl	FR	<2/SR/GR		
		BA	15-27	SL	10YR 5/6	w/m/sb	FR	<2/SR/GR		
		Bt	27-60	SCL	10YR 4/4	m/m/sb	FI	<2/SR/GR		
	C	60-100+	CL	10YR 3/4	MA	MA	<2/SR/GR	c/f/f		
342A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	510420	6132840	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-150								
	Cg	150-160	SCL	2.5Y 4/1	MA	S	1-5, SR, G			

343A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509965	6132952	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-15							
	Om	15-0							
	Aeg	0-10	LS	10YR 6/3	MA	SS	<2/SR/GR		
	Btg	10-45	SCL	10YR 4/4	MA	ST	<2/SR/GR	c/c/p	
Cg	45-100+	CL	10YR 3/3	MA	ST	<2/SR/GR	m/m/d		
344A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510017	6133059	undulating	mid	Morainal	poorly	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	25-0							
	Ae	0-12	S	10YR 6/3	MA	NS	<2/SR/GR		
	Btj1	12-30	SiL	10YR 5/4	MA	SS	<2/SR/GR	c/c/d	
	Btj2	30-60	SCL	10YR 4/4	MA	SS	<2/SR/GR	c/m/d	
Cgj	60-100+	CL	2.5Y 4/3	MA	ST	<2/SR/GR	c/m/d		
345A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509767	6132931	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-12	LS	10YR 6/2	w/f/pl	FR	<2/SR/GR		
	AB	12-22	SL	10YR 6/3	w/m/pl	FR	<2/SR/GR		
	Bt	22-65	SCL	10YR 5/6	m/m/sb	FI	2-5/SR/GR		
C	65-100+	CL	10YR 3/4	MA	FI	<2/SR/GR			

346A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509614	6132848	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-20	LS	10YR 6/2	w/f/pl	FR	2-5/SR/G-C		
	BA	20-60	SL	10YR 5/6	w/m/sb	FR	5-10/SR/G-C		
Bt	60-80	SCL	2.5Y 4/4	m/m/sb	FI	<2/SR/GR			
C	80-100+	CL	2.5Y 3/2	MA	FI	<2/SR/GR			
347A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510052	6133217	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-150							
	Om	150-170							
	Cg	170-200	SiCL	2.5Y 4/2	MA	ST	<2/SR/GR	c/m/d	
348A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509998	6133306	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-10							
	Om	10-0							
	Ae	0-10	LS	10YR 5/2	SG	NS	<2/SR/GR		
Btg	10-35	SiL	10YR 4/3	MA	SS	<2/SR/GR	c/m/d		
Cg	35-100+	CL	2.5Y 4/4	MA	ST	<2/SR/GR	c/c/d		
349A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	509929	6133368	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-10	SL	10YR 6/2	w/f/pl	FR	<2/SR/GR		
	Bt	10-50	SCL	2.5Y 5/4	m/m/sb	FR	<2/SR/GR		
C	50-100+	CL	10YR 4/4	MA	S	<2/SR/GR	f/m/f		

350A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510622	6133526	undulating	mid	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-15	SL	10YR 5/2	w/f/pl	FR	<2/SR/GR		
	Bm	15-40	SL	10YR 5/6	w/m/sb	FR	<2/SR/GR		
	Bt	40-60	SCL	10YR 4/4	m/m/sb	FI	<2/SR/GR		
C	60-100+	CL	10YR 3/4	MA	FI	<2/SR/GR			
351A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510098	6133765	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-18	LS	10YR 7/2	w/f/pl	FR	<2/SR/GR		
	Bm	18-39	LS	10YR 6/8	m/m/sb	FR	<2/SR/GR		
	C	39-45	SL	2.5Y 6/4	MA	FR	<2/SR/GR		
IIC	45-100	CL	2.5Y 4/4	MA	FI	<2/SR/GR			
351AA	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	510152	6133742	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-100							
Cg	100-120	S	2.5Y 5/2	MA	NS		M/M/D		

352A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	510050	6133742	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-16	S	7.5YR 6/2	SG	LO	10-15/SR/GR		
	Bm	16-65	S	7.5YR 5/6	SG	LO	20-30/SR/GR		
IIC	65-100	CL	2.5Y 5/2	MA	FI	1-5/SR/GR			
352A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509918	6133772	undulating	mid	Morainal		Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	30-10							
	Om	10-0							
	Bgj	0-30	SL	2.5Y 5/3	MA	SS	<2/SR/GR	f/m/d	
Cg	30-60+	SCL	2.5Y 4/4	MA	ST	<2/SR/GR	c/m/d		
363A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508438	6135094	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
364A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508564	6135213	undulating	upper	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-15	LS	7.5YR 7/2	W,M,PL	VFR	1-5, SR, G		
	Bm	15-35	LS	10YR 5/4	W,M,SB	VFR	1-5, SR, G		
	Bt	35-60	SCL	10YR 5/3	M,M,SB	FI	1-5, SR, G		
	BC	60-80	SCL	10YR 4/2	MA	FI	1-5, SR, G		
	C	80-100	CL	2.5Y 4/2	MA	FI	1-5, SR, G		

365A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	508796	6135386	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Cg	140-160	SL	10Y 6/1	MA	SS	<1, SR, G		
369A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	508735	6135408	undulating	lower	Glaciofluvial	imperfectly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	16-0							
	Ahg	0-8	SL	10YR 2/1	M,M,PL	FR	<1, SR, G	F,F,F	
	Bg	8-25	SL	10YR 5/2	M,F,SB	FR	<1, SR, G	M,C,D	
	Cg	25-100	LS	2.5Y 5/3	MA	NS	<1, SR, G	M,C,D	
370A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509694	6135205	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
371A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509233	6135168	undulating	lower	Morainal	imperfectly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	30-20							
	Om	20-0							
	Aeg	0-20	LS	10YR 5/2	MA	NS	<1, SR, G	M,C,P	
	Bg	20-40	SL	2.5Y 5/3	MA	SS	<1, SR, G	M,C,P	
	Cg	40-70	SCL	2.5Y 5/2	MA	ST	<1, SR, G	M,C,P	

372A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	509364	6135302	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
373A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	509391	6135475	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
379A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	508608	6135126	undulating	mid	Morainal	moderately well	Gleyed, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	17-0							
		Ae	0-26	SL	10YR 5/2	W,C,PL	FR	10-15, SR, G-C		
		Btgj	26-62	CL	10YR 5/2	M,M,SB	FI	1-5, SR, G	F,F,D	
		BCgj	62-85	CL	2.5Y 5/2	MA	FI	1-5, SR, G	F,F,F	
	C	85-100	CL	2.5Y 4/2	MA	FI	1-5, SR, G			
380A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	508634	6135004	undulating	lower	Morainal	imperfectly	Rego, Gleysol	Peaty	
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	29-0								
	Cg	0-100	CL	2.5Y 5/2	MA	S	<1, SR, G	M,C,D		
381A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	508590	6134811	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								

382A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508589	6134628	level	level	Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
383A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508668	6134495	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-160							
	Cg	160-180	CL	N 5/1	MA	S	1-5, SR, G		
384A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508638	6134330	level	depression	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-10							
	Om	10-90							
	Cg	90-120	S	2.5Y 6/2	MA	NS	1-5, SR, G		
385A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508708	6134073	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-15							
	Om	15-60							
	Cg	60-100	CL	2.5Y 5/2	MA	S	<1, SR, G		

386A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507290	6134035	undulating	lower	Morainal	imperfectly	Gleyed, Gray Luvisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	20-0							
	Aegj	0-7	SCL	2.5Y 7/3	m/m/pl	FR	1-5/SR/GR		
Btgj	7-50	SCL	2.5Y 6/3	m/f/sb	FI	1-5/SR/GR			
Cg	50-100+	SCL	2.5Y 7/3	MA	SS	1-5/SR/GR			
387A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507616	6134047	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
388A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507806	6133870	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
389A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508138	6134008	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
	Om	80-110							
Cg	110-120	CL	10Y 5/1	MA	S	1-5, SR, G			
390A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508481	6134018	undulating	lower	Morainal	very poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-0							
	Bg	0-15	LS	10YR 5/2	MA	NS	1-5, SR, G		
Cg	15-50	CL	2.5Y 5/2	MA	S	1-5, SR, G			

391A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508215	6133812	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om Cg	0-90 90-105 105-120	CL	10Y 5/1	MA	S	<1, SR, G		
392A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508042	6133727	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-145 145-160	SL	5 GY 6/1	MA	SS	<1, SR, G		
393A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	508084	6133668	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-110 110-120	CL	10Y 5/1	MA	S	<1, SR, G		
394A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	507816	6133708	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om Cg	0-100 100-115 115-120	CL	10Y 5/1	MA	S	1-5, SR, G		

395A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	507671	6133622	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of Cg	0-200 200-220+	SCL	2.5Y 6/1	MA	SS	1-5/SR/GR			
396A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	508310	6134007	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of Cg	0-140 140-160	CL	N 5/1	MA	S	<1, SR, G			
397A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	508918	6134015	undulating	mid	Morainal	well	Orthic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	7-0							
		Ae	0-9	SL	10Y 6/2	M,C,PL	FR	1-5, SR, G		
		BA	9-20	SL	2.5Y 5/3	W,M,SB	FR	5-10, SR, G-C		
	Bt	20-60	CL	2.5Y 5/2	M,M,SB	FI	<1, SR, G			
	C	60-100	CL	2.5Y 4/2	MA	FI	<1, SR, G			
398A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	509254	6134004	undulating	mid	Morainal	well	Orthic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	12-0							
		Ae	0-9	LS	10YR 6/2	W,C,PL	VFR	<2, SR, G		
		BA	9-28	LS	10YR 5/3	W,C,SB	VFR	5-10, SR, G-C		
	Bt	28-60	SCL	10YR 5/3	M,M,SB	FI	<1, SR, G			
	Cgj	60-100	CL	2.5Y 5/2	MA	S	<1, SR, G	F,F,F		

399A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509423	6133995	level	level	Fluvial	poorly	Rego, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Cg1	0-35	SL	2.5Y 4/1	MA	SS	0	m/m/p	
	Cg2	35-60	SiCL	2.5Y 4/1	MA	ST	0	m/m/p	
Cg3	60-95	LS	2.5Y 5/2	MA	SS	0	m/m/p		
Cg4	95-100+	Lfs	10YR 5/1	MA	SS	0			
400A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509732	6134022	hummocky	lower	Morainal	very poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-35							
	Om	35-0							
	Bg	0-40	SL	10YR 5/2	MA	SS	<1/SR/GR	m/c/d	
Cg	40-60+	SL	2.5Y 5/3	MA	SS	1-5/SR/GR	m/c/d		
401A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	509921	6134020	undulating	lower	Glaciofluvial, Morainal	very poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	45-15							
	Om	15-0							
	Bg	0-20	LS	10YR 5/2	MA	NS	1-5/SR/GR		
Cg	20-45	LS	2.5Y 6/4	MA	NS	1-5/SR/GR			
IICg	45-60	SCL	2.5Y 5/3	MA	S	<1/SR/GR			
402A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510073	6134047	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-90								
Cg	90-110+	LS	10YR 4/4	MA	NS	-			

403A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510035	6134282	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-180							
	Cg	180-190+	SCL	5Y 5/1	MA	ST	0		
404A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510044	6134425	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-165							
	Cg	165-200+	CL	5Y 5/1	MA	ST	<2/SR/GR		
405A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510063	6134638	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		Of	0-70						
		Om	70-110						
	Oh	110-120							
	Cg	120-150+	CL	5Y 5/1	MA	ST	<2/SR/GR		
406A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509944	6134169	undulating	mid	Morainal	moderately well	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	4-0						
		Ae	0-20	SL	10YR 6/2	w/f/pl	FR	<2/SR/GR	
	Btgj	20-50	SCL	2.5Y 5/4	MA	SS	<2/SR/GR	f/m/d	
	Cgj	50-100+	CL	2.5Y 4/4	MA	ST	<2/SR/GR	c/m/d	

407A??	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509980	6135015	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-110							
	Om	110-120							
	Cg	120-150	CL	5Y 5/1	MA	ST	<2/SR/GR		
408A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509904	6135201	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Om	100-120							
	Cg	120-150+	CL	5Y 5/1	MA	ST	<2/SR/GR		
409A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	509927	6135298	level	level	Fluvial	very poorly	Rego, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Cg	0-20	SCL	5Y 5/2	MA	ST	<2/SR/GR	c/c/p	
	Ohb	20-35							
	Cg	35-50	SCL	5Y 5/2	MA	ST	<2/SR/GR	c/c/p	
410A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510221	6134138	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

410A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	510200	6134140	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
411A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	510411	6134191	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-130 130-150+	LS	10YR 5/1	MA	SS	<1/SR/GR		
411A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510350	6134167	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om Cg	0-50 50-70 70-140+	SCL	2.5Y 5/2	MA	SS	<2/SR/GR		
412A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510456	6134387	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om	0-150 150-170+							
413A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510559	6134356	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-120 120-130+	L	10YR 3/1	MA	SS	<2/SR/GR		

414A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510658	6134556	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-12	LS	10YR 7/2	w/f/pl	FR	<2/SR/GR		
	Bm	12-35	LS	10YR 6/8	m/m/sb	FR	<2/SR/GR		
	BC	35-65	LS	2.5Y 6/4	MA	FR	<2/SR/GR		
C	65-100+	SL	2.5Y 4/4	MA	FR	<2/SR/GR			
415A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510738	6134659	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
416A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	510873	6134757	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-20							
	Om	20-65							
	Cg	65-100+	SCL	2.5Y 4/2	MA	SS	<2/SR/GR		
417A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	510992	6134745	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

420A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511239	6135155	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-90							
	Oh	90-100							
	Cg	100-120+	SCL	2.5Y 3/1	MA	ST	1-5/SR/GR		
421A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511349	6135237	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Mesic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-70							
	Om	70-95							
	Cg	95-100+	SL	2.5Y 5/2	MA	NS	1-5/SR/GR		
422A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511378	6135345	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-7	SL	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	AB	7-20	SCL	10YR 6/2	m/m/pl	FR	1-5/SR/GR		
	Bt	20-60	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
C	60-100+	CL	10YR 5/3	MA	FI	1-5/SR/GR			
423A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511521	6135142	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-55							
	Oh	55-90							
	Cg	90-100+	SCL	2.5Y 3/1	MA	SS	1-5/SR/GR		

424A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511678	6135143	undulating	upper	Glaciofluvial	imperfectly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-16	S	10YR 6/1	SG	LO	1-5/SR/GR		
	Bm	16-60	S	10YR 4/6	SG	LO	1-5/SR/GR		
	C1	60-80	S	10YR 6/3	SG	LO	1-5/SR/GR		
C2	80-100+	fSL	2.5Y 3/3	MA	NA	1-5/SR/GR			
425A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511664	6135399	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
426A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511757	6135536	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	LS	10YR 6/2	SG	LO	1-5/SR/GR		
	Bm	21-46	LS	10YR 4/6	SG	LO	1-5/SR/GR		
	C	46-100+	LS	10YR 6/3	SG	LO	1-5/SR/GR		
427A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511587	6134911	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-11	LS	10YR 6/1	w/f/pl	FR	1-5/SR/GR		
	Bt	11-56	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
	C	56-100+	CL	2.5Y 5/3	MA	FI	1-5/SR/GR		

428A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511728	6134863	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
429A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511778	6134681	level	level	Morainal	well	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	35-0							
	Aeg	0-12	LS	10YR 6/2	SG	LO	1-5/SR/GR		
	Btg	12-40	fSCL	10YR 6/4	m/m/sb	FI	1-5/SR/GR		
	Cg	40-65+	CL	10YR 5/3	MA	FI	1-5/SR/GR		
430A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511835	6134612	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
	Cg	220+	SCL	2.5Y 4/1	MA	SS	1-5/SR/GR		
431A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511990	6134459	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-65							
	Aeg	65-73	LS	10YR 5/2	MA	FR	1-5/SR/GR		
	Btg	73-100	CL	10YR 5/3	MA	SS	1-5/SR/GR	c/m/p	

432A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	512163	6134287	undulating	lower	Morainal	moderately well	Brunisolic, Gray Luvisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	9-0								
	Ae	0-9	LS	10YR 6/2	w/f/pl	FR	1-5/SR/GR			
	Bm	9-15	LS	10YR 4/5	m/m/sb	FR	1-5/SR/GR			
	Bt	15-60	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR			
BC	60-75	CL	10YR 4/4	MA	FI	1-5/SR/GR				
Cgj	75-100	CL	10YR 5/3	MA	FI	1-5/SR/GR	f/f/f			
433A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	512243	6134101	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220+								
	434A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
		20-Sep-12	510576	6134018	inclined	level	Organic, Undifferentiated	very poorly	Terric Fibric, Mesisol	
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of		0-40								
Om		40-90								
Cg		90-120+	LS	10YR 5/1	MA	SS	<1/SR/GR			
435A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	20-Sep-12	510867	6134002	hummocky	upper	Morainal	well	Orthic, Gray Luvisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	5-0								
	Ae	0-10	S	10YR 6/2	SG	LO	<1/SR/GR			
	BA	10-28	LS	2.5Y 6/3	w/m/sb	v.FR	1-5/SR/GR			
	Bt	28-45	CL	2.5Y 5/3	m/m/sb	FI	<1/SR/GR			
Bm	45-80	S	10YR 5/6	SG	LO	<1/SR/GR				
C	80-100+	S	2.5Y 6/6	SG	LO	<1/SR/GR				

436A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	511063	6133967	undulating	upper	Morainal	well	Orthic, Gray Luvisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	4-0								
	Ae	0-18	LS	10YR 6/2	w/m/pl	FR	1-5/SR/GR			
	BA	18-28	SL	10YR 6/3	w/m/sb	FR	1-5/SR/GR			
437A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	511454	6133974	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220+								
	438A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
		21-Sep-12	511847	6133965	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
Horizon		Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
LFH		10-0								
Ae		0-23	LS	10YR 6/2	w/f/pl	FR	1-5/SR/GR			
BA		23-30	SCL	10YR 5/3	w/m/sb	FR	1-5/SR/GR			
439A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	21-Sep-12	511993	6134137	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-140								
	Cg	140-160+	SCL	2.5Y 3/1	MA	SS	1-5/SR/GR			

441A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511281	6134286	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-75 75-100+	SCL	2.5Y 5/2	MA	SS	1-5/SR/GR		
442A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511571	6134200	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-180 180-200+	SCL	2.5Y 4/1	MA	SS	1-5/SR/GR		
443A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511805	6134344	level	level	Morainal	imperfectly	Orthic, Luvic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ahe	0-11	SL	10YR 4/2	w/m/pl	FR	1-5/SR/GR		
	Btg	11-43	SiCL	10YR 4/4	m/m/sb	ST	1-5/SR/GR		
	BCg	43-65	SiCL	10YR 4/4	w/f/sb	ST	1-5/SR/GR		
	Cg	65-100+	SiCL	10YR 5/2	MA	ST	1-5/SR/GR		
444A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512213	6134486	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-8	LS	10YR 6/2	SG	LO	1-5/SR/GR		
	Bt	8-65	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
	C	65-100+	CL	10YR 5/3	MA	FI	1-5/SR/GR		

445A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512348	6134486	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-85							
	Oh	85-95							
	Cg	95-100+	SCL	2.5Y 4/1	MA	SS	1-5/SR/GR		
446A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512471	6134476	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	24-0							
	Ae	0-19	LS	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	Bt	19-53	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
	BC	53-74	CL	10YR 4/4	MA	FI	1-5/SR/GR		
C	74-100+	CL	10YR 5/2	MA	FI	1-5/SR/GR			
447A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512584	6134642	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	20-0							
	Ae	0-10	LS	10YR 6/2	w/f/pl	FR	1-5/SR/GR		
	BA	10-32	SCL	10YR 5/3	w/m/sb	FR	1-5/SR/GR		
	Bt	32-65	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
Cgj	65-100+	CL	10YR 5/2	MA	FI	1-5/SR/GR	f/f/f		
451A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511737	6133560	hummocky	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-30	LS	10YR 6/2	SG	LO	20-30/SR/G-C		
	Bm	30-65	LS	10YR 4/6	SG	LO	20-30/SR/G-C		
C	65-100+	S	10YR 6/3	SG	LO	20-30/SR/G-C			

455A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	511725	6133275	hummocky	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-20	LS	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	Bm	20-55	LS	10YR 4/6	w/m/sb	FR	1-5/SR/GR		
C	55-100+	LS	10YR 6/3	MA	FR	1-5/SR/GR			
457A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511174	6132919	undulating	upper	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-20	Lfs	10YR 6/1	w, m, pl	FR	5-10, R, G-C		
	Bt	20-45	SCL	10YR 5/4	m, m, sb	FR	5-10, R, G-C		
BC	45-90	LS	10YR 5/4	MA	FR	1-5, SR, GR			
IIC	90-100	SCL	10YR 5/3	MA	FI	1-5, SR, GR			
458A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511353	6132893	undulating	upper	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-19	LS	10YR 6/2	w, c, pl	FR	5-10, SR, G-C		
	Bm	19-36	LS	10YR 5/4	w, m, sbk	FR	5-10, SR, G-C		
IIBt	36-65	SCL	10YR 4/4	m, m, sbk	FI	5-10, SR, G-C			
IIC	65-100	SCL	10YR 5/2	MA	FI	5-10, SR, G-C			

459A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511460	6132882	undulating	lower	Morainal	imperfectly	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-7	SL	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Btgj	7-48	SCL	10YR 4/4	m, m, sb	FR	1-5, SR, GR	f, m, d	
	BCgj	48-76	SCL	10YR 4/4	MA	FI	1-5, SR, GR	f, m, p	
	Cgj	76-100	SCL	10YR 5/2	MA	SS	1-5, SR, GR	f, m, p	
460A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511677	6132863	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-110							
	Cg	110-120	LS	2.5Y 5/1	MA	NS	1-5, SR, GR		
461A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511749	6132867	undulating	mid	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-11	SL	10YR 6/2	w, c, pl	FR	1-5, SR, GR		
	Bm	11-29	LS	10YR 5/4	w, m, sb	FR	1-5, SR, GR		
	Bt	29-60	SCL	10YR 4/4	m, m, sb	FI	1-5, SR, GR		
	C	60-100	CL	10YR 4/3	MA	FI	1-5, SR, GR		
462A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	511911	6132858	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-160							
	Cg	160-180	cS	2.5Y 5/1	MA	NS	1-5, SR, GR		

463A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	512080	6132821	level	level	Morainal	well	Brunisolic, Gray Luvisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	10-0								
	Ae	0-15	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR			
	Bm	15-25	LS	10YR 5/4	w, m, sbk	FR	1-5, SR, GR			
	Bt	25-60	SCL	10YR 4/4	m, m, sbk	FI	1-5, SR, GR			
C	60-100	CL	10YR 4/3	MA	Fi	1-5, SR, GR				
464A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	11-Sep-12	512341	6132816	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-210								
	Cg	210-220	SL	10 GY 5/1	MA	SS	1-5, SR, GR			
	465A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
		11-Sep-12	512505	6132829	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
Horizon		Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
Of		0-80								
Cg		80-100	SCL	2.5Y 5/1	MA	S	1-5, SR, GR			
466A		Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
		11-Sep-12	512607	6132828	undulating	mid	Glaciofluvial	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	3-0								
	Ae	0-14	LS	10YR 6/2	SG	FR	1-5, SR, GR			
	Bm	14-28	LS	10YR 4/6	SG	FR	1-5, SR, GR			
	Bt	28-60	cSCL	10YR 4/4	m, m, sb	FR	1-5, SR, GR			
C	60-100	LS	10YR 4/3	MA	FR	1-5, SR, GR				

467A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	512817	6132817	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-7	SL	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	7-50	SCL	10YR 5/4	m, m, sbk	FI	1-5, SR, GR		
C	50-100	CL	10YR 5/3	MA	FI	1-5, SR, GR			
468A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	513084	6132799	undulating	mid	Morainal	imperfectly	Gleyed, Gray Luvisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-0							
	Ae	0-32	LfS	10YR 6/1	m, m, pl	FR	1-5, SR, GR		
	Btgj	32-60	SCL	10YR 6/3	m, m, sbk	FI	1-5, SR, GR	c, m, d	
469A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	513210	6132789	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-15	SL	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	AB	15-27	SL	10YR 6/3	m, m, pl	FR	1-5, SR, GR		
Bt	27-60	CL	10YR 4/4	m, m, sb	FI	1-5, SR, GR			
C	60-100	CL	10YR 4/3	MA	FI	1-5, SR, GR			
470A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513409	6132805	undulating	crest	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-9	fSL	10YR 6/2	W/M/PL	FR	1-5/SR/GR		
	Bm	9-20	fSL	10YR 4/6	W/M/SB	FR	1-5/SR/GR		
Bt	20-70	CL	10YR 4/4	M/M/SB	FI	1-5/SR/GR			
C	70-100	CL	2.5Y 5/2	MA	FI	1-5/SR/GR			

471A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	20-Sep-12	513358	6132639	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-100								
	Cg	100-120	SCL	2.5Y 5/2	MA	S	1-5/SR/GR			
472A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	20-Sep-12	513409	6132471	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-80								
	Cg	80-100	SCL	2.5Y 5/1	MA	FI	1-5/SR/GR			
473A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	20-Sep-12	513441	6132336	undulating	upper	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	9-0							
		Ae	0-5	LS	10YR 6/2	W/C/PL	FR	1-5/SR/GR		
		AB	5-33	LS	10YR 6/3	W/M/PL	FR	1-5/SR/GR		
		IIBt	33-65	SCL	10YR 4/4	M/M/SB	FI	1-5/SR/GR		
	BC	65-100	CL	10YR 5/3	MA	FI	1-5/SR/GR			
474A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	20-Sep-12	513436	6132143	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-80								
	Cg	80-100	SCL	2.5Y 5/1	MA	S	1-5/SR/GR			

475A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513406	6131937	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-7	SL	10YR 5/2	M/M/PL	FR	1-5/SR/GR		
	AB	7-23	SL	10YR 5/4	M/M/PL	FR	1-5/SR/GR		
476A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513504	6132944	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
477A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513471	6133027	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-18	S	10YR 7/1	W/M/PL	FR	1-5/SR/GR		
	Btj	18-38	fSL	10YR 4/5	W/M/SB	FR	5-10/SR/GR		
478A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513441	6133341	undulating	toe	Morainal	imperfectly	Gleyed, Gray Luvisol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	28-0							
	Ah	0-8	L	10YR 2/2	W/M/GR	FR	1-5/SR/GR		
	Aegj	8-28	SL	10YR 5/2	M/F/PL	FR	1-5/SR/GR	C/M/D	
Btgj	8-28	CL	10YR 5/3	M/M/SB	FI	1-5/SR/GR	C/M/D		
Cgj	60-100	CL	10YR 5/2	MA	FI	1-5/SR/GR	C/M/D		

479A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513394	6133551	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-12	LS	10YR 6/2	W/M/PL	FR	1-5/SR/GR		
	AB	12-26	LS	10YR 5/3	M/F/PL	FR	1-5/SR/GR		
480A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513448	6133740	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Om	100-180					1-5/SR/GR		
	Cg	180-200	SCL	10BG 5/1	MA	SS			
481A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513405	6133880	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-14	LS	10YR 6/2	W/F/PL	FR	1-5/SR/GR-C		
	AB	14-40	LS	10YR 6/3	M/F/PL	FR	1-5/SR/GR-C		
482A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513487	6133884	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-175							
	Cg	175-200	SCL	2.5Y 6/1	MA	S	1-5/SR/GR		

483A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513218	6133915	undulating	upper	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-22	LS	7.5YR 6/2	SG	LO	1-5/SR/GR		
	Bm	22-37	LS	10YR 4/6	W/M/SB	FR	1-5/SR/GR		
	IIBt	37-65	CL	10YR 4/4	M/M/SB	FI	1-5/SR/GR		
	C	65-100	CL	10YR 5/3	MA	FI	1-5/SR/GR		
484A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513040	6133913	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
485A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	512731	6133914	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
486A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	512620	6133909	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-14	LS	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	Bt	14-55	CL	10YR 4/4	m/m/sb	FI	1-5/SR/GR		
	BC	55-90	CL	10YR 4/4	MA	FI	1-5/SR/GR		
	Cg	90-100+	CL	10YR 5/3	MA	FI	1-5/SR/GR	c/f/p	
487A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	512336	6133876	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

488A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512129	6133917	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric Humic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Oh	100-120							
	Cg	120-130+	CL	2.5Y 3/1	MA	SS	1-5/SR/GR		
489A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512037	6133895	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
490A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512653	6134745	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
491A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512562	6134830	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
492A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	21-Sep-12	512560	6135040	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

493A	Date 2-Sep-12	Easting 512585	Northing 6135269	Surface Expression level	Slope Position level	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of	Depth 0-220+	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
495A	Date 20-Sep-12	Easting 513402	Northing 6135444	Surface Expression undulating	Slope Position crest	Parent Material Glaciofluvial	Drainage well	Soil Classification Eluviated, Dystric Brunisol	Phase
	Horizon LFH	Depth 4-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-23	S	10YR 6/2	SG	LO	1-5/SR/GR		
	Bm	23-60	S	10YR 4/6	SG	LO	1-5/SR/GR		
	C	60-100	S	10YR 6/3	SG	LO	1-5/SR/GR		
496A	Date 20-Sep-12	Easting 513406	Northing 6135255	Surface Expression level	Slope Position level	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of Om	Depth 0-140 140-220+	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
497A	Date 20-Sep-12	Easting 513405	Northing 6135062	Surface Expression level	Slope Position level	Parent Material Glaciofluvial	Drainage poorly	Soil Classification Orthic, Gleysol	Phase Peaty
	Horizon Of	Depth 40-0	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Bg	0-27	LS	10YR 4/4	MA	NS	1-5/SR/GR		
	Cg	27-60+	LS	10YR 5/3	MA	NS	1-5/SR/GR		
498A	Date 20-Sep-12	Easting 513406	Northing 6134779	Surface Expression level	Slope Position level	Parent Material Organic, Undifferentiated	Drainage very poorly	Soil Classification Typic, Fibrisol	Phase
	Horizon Of	Depth 0-220	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes

499A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513408	6134505	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
500A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513405	6134267	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
501A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513401	6134106	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	LS	10YR 6/2	SG	LO	30-40/SR/GR-B		
Bt	21-60+	SCL	10YR 4/4	m/m/sb	FI	30-40/SR/GR-B			
502A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513795	6133844	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
503A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	513958	6133905	level	level	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-2	S	7.5YR 6/2	SG	LO	10-15/SR/GR		
Bm	2-57	S	7.5YR 4/5	SG	LO	10-15/SR/GR			
C	57-100	S	10YR 6/3	SG	LO	10-15/SR/GR			

504A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	514354	6133798	level	level	Organic, Undifferentiated, Glaciofluvial	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Bg	60-71	LS	2.5Y 5/3	SG	LO	10-15/SR/GR-C		
	Cg	71-100	LS	2.5Y 5/2	SG	LO	10-15/SR/GR-C		
506A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	514485	6133851	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	3-0						
		Ae	0-10	SL	10YR 6/2	W/M/PL	FR	5-10/SR/GR-C	
		BA	10-21	SL	10YR 6/3	W/M/SB	FR	5-10/SR/GR-C	
		Bt	21-56	CL	10YR 4/4	M/M/SB	FI	5-10/SR/GR-C	
	C	56-100	CL	10YR 5/2	MA	FI	5-10/SR/GR-C		
507A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	514952	6133899	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	7-0						
		Ae	0-15	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR	
		Bm	15-32	LS	10YR 4/6	m, m, sbk	FR	1-5, SR, GR	
		BC	32-60	SL	10YR 5/4	w, m, sbk	FR	1-5, SR, GR	
	C	60-100	SCL	10YR 6/3	MA	FI	1-5, SR, GR		

508A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515169	6133858	undulating	lower	Glaciofluvial	moderately well	Gleyed Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-19	LS	10YR 7/2	w, m, pl	FR	1-5, SR, GR		
	Bmgj	19-53	LS	2.5Y 5/4	w, m, sb	FR	1-5, Sr, GR	c, c, d	
509A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515332	6133956	undulating	lower	Morainal	poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-0							
	Bg	0-17	SCL	10YR 5/4	MA	ST	1-5, SR, GR	c, m, p	
	Cg	17-50	SCL	2.5Y 5/2	MA	ST	1-5, SR, GR	c, m, p	
510A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515534	6133900	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-130							
	Cg	130-150	LS	2.5Y 5/1	MA	NA	1-5, SR, GR		
	511A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification
9-Sep-12		515763	6133944	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
Horizon		Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
LFH		3-0							
Ae		0-16	LS	10YR 6/2	W/M/PL	FR	5-10/SR/GR		
Bm		16-40	LS	10YR 4/6	W/M/SB	FR	5-10/SR/GR		
511A	IIBC	40-60	SCL	10YR 5/4	MA	FR	5-10/SR/GR		
	C	60-100	SCL	10YR 6/3	MA	FR	5-10/SR/GR		

512A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	514877	6133941	undulating	upper	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-12	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	12-32	SL	10YR 4/4	w, m, sb	FR	1-5, SR, GR		
	BC	32-75	SL	10YR 5/4	MA	FR	1-5, SR, GR		
	C	75-100	SL	10YR 5/3	MA	FR	1-5, SR, GR		
515A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	514186	6134002	undulating	mid	Glaciofluvial	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-10	LS	10YR 6/1	W/M/PL	FR	1-5/SR/GR-C		
	Bm	10-35	LS	10YR 5/4	W/F/SB	FR	1-5/SR/GR-C		
	Bt	35-60	SCL	10YR 4/4	M/M/SB	FR	1-5/SR/GR-C		
	C	60-100	S	10YR 7/2	MA	LO	1-5/SR/GR-C		
516A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	514184	6134157	undulating	upper	Morainial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-15	SiL	10YR 7/1	W/F/PL	FR	1-5/SR/GR		
	AB	15-24	SL	10YR 6/2	W/M/PL	FR	1-5/SR/GR		
	Bt	24-65	CL	10YR 4/4	M/M/SB	FI	1-5/SR/GR		
	C	65-100	CL	10YR 5/2	MA	FI	1-5/SR/GR		
517A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	20-Sep-12	514178	6134328	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

518A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	513788	6132764	level	level	Organic, Undifferentiated, Morainal	imperfectly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-65							
	Cg	65-100	SCL	2.5Y 5/2	MA	S	1-5, SR, GR		
519A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	514002	6132769	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	6-0						
		Ae	0-12	SL	10YR 6/2	w, m, pl	FR	1-5, SR, GR	
		BA	12-28	SCL	10YR 5/4	m, f, sbk	FR	1-5, SR, GR	
	Bt	28-68	CL	10YR 4/4	m, m, sbk	FI	1-5, SR, GR		
	C	68-100	CL	10YR 4/3	MA	FI	1-5, SR, GR		
520A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Sep-12	514168	6132742	level	level	Organic, Undifferentiated, Morainal	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Cg	100-120	SCL	2.5Y 3/1	MA	S	1-5, SR, GR		
522A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516053	6133955	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	12-0						
		Ae	0-10	LS	10YR 6/2	W/M/PL	FR	1-5/SR/GR	
		Bm	10-38	LS	10YR 4/5	W/M/SB	FR	1-5/SR/GR	
	BC	38-100	LS	10YR 6/4	MA	FR	1-5/SR/GR		

523A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516351	6134100	undulating	mid	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-9	LS	10YR 7/1	w, f, pl	FR	1-5, SR, G-C		
	Bt1	9-25	SCL	10YR 5/4	w, f, sbk	FR	1-5, SR, G-C		
	Bt2	25-47	SCL	10YR 5/3	m, m, sbk	FR	1-5, SR, G-C		
	BC	47-65	SL	10YR 6/4	MA	FR	1-5, SR, G-C		
	C	65-100	LS	10YR 6/3	MA	FR	1-5, SR, G-C		
524A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516400	6133885	undulating	lower	Organic, Undifferentiated, Glaciofluvial	poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-0							
	Ae	0-19	S	10YR 6/1	SG	NS	1-5, SR, G		
	Cg	19-60	SL	10YR 4/2	MA	NS	1-5, SR, G	f, m, p	
525A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516208	6133547	undulating	crest	Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-10	LS	10YR 6/2	SG	L	1-5, SR, GR		
	Bm	10-43	SCL	10YR 4/4	w, f, sb	FI	1-5, SR, GR		
	BC	43-70	SCL	10YR 4/4	MA	FI	1-5, SR, GR		
	C	70-100	SCL	10YR 5/3	MA	FI	1-5, SR, GR		

526A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	516150	6133492	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-100								
	Cg	100-120	LS	2.5Y 4/1	MA	NS	5-10, SR, GR			
527A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	515993	6133343	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
528A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	515743	6133137	undulating	upper	Glaciofluvial	well	Brunisolic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	3-0							
		Ae	0-14	LS	7.5Y 6/2	SG	L	1-5, SR, GR		
		Bm	14-27	LS	7.5Y 4/6	SG	L	1-5, SR, GR		
		Bt	27-39	SiCL	10YR 4/5	m, f, sbk	L	1-5, SR, GR		
	C	39-100	S	10YR 6/3	SG	L	1-5, SR, GR			
529A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	515632	6133039	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220+								

529A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518561	6132550	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-7	LS	10YR 6/1	SG	L	1-5, SR, G-C		
Bm	7-50	LS	10YR 4/6	SG	L	1-5, SR, G-C			
IIC	50-100	SCL	10YR 5/2	MA	FI	1-5, SR, G-C			
530A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515494	6132893	undulating	mid	Fluvial	well	Cumulic, Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	C1	0-10	cS	10YR 6/3	SG	L	15-20, SR, GR		
	C2	10-23	fSL	10YR 5/3	SG	L	1-5, SR, GR		
	LFb	23-25							
Aeb	25-29	LS	10YR 6/2	SG	L	1-5, SR, GR			
C3	29-50	LS	10YR 6/3	SG	L	30-40, SR, GR			
531A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515301	6132808	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-32	S	10YR 6/2	SG	L	1-5, SR, GR		
	Bm	32-57	S	10YR 4/6	SG	L	1-5, SR, GR		
BC	57-80	S	10YR 5/4	SG	L	1-5, SR, GR			
C	80-100	S	10YR 6/3	SG	L	1-5, SR, GR			

532A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515209	6132690	undulating	level	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	2-0							
	Ae	0-18	S	10YR 6/1	SG	L	1-5, SR, G		
	Bm	18-47	S	10YR 4/6	SG	L	1-5, SR, G		
	C	65-100	S	10YR 6/3	SG	L	1-5, SR, G		
533A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516392	6131961	undulating	mid	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-15	LS	10YR 6/2	SG	L	5-10, SR, G-C		
	Bm	15-22	LS	10YR 5/4	SG	L	5-10, SR, G-C		
	C	55-100	SCI	10YR 5/2	MA	FI	5-10, SR, G-C		
533A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	514981	6132833	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-11	LS	10YR 6/2	W/C/PL	FR	1-5/SR/GR		
	Btj	11-45	SL	10YR 4/4	W/M/SB	FR	1-5/SR/GR		
	IIC	45-100	SiCL	10YR 5/2	MA	FI	1-5/SR/GR		

534A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	514910	6132333	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	15-0							
	Ae	0-10	S	10YR 6/2	SG	LO	1-5/SR/GR-S		
Bm	10-36	S	10YR 4/6	SG	LO	1-5/SR/GR-S			
C	36-100	S	10YR 6/3	SG	LO	1-5/SR/GR-S			
535A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515419	6132685	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-5	fSL	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
Bt	5-58	fSCL	10YR 4/4	m, m, sb	FI	1-5, SR, GR			
BC	58-80	SL	10YR 4/4	MA	FI	1-5, SR, GR			
C	80-100	SCL	10YR 5/3	MA	Fi	1-5, SR, GR			
536A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515756	6132669	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
537A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515872	6132664	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-13	LS	10YR 6/2	SG	LO	5-10/SR/GR		
Bm	13-38	LS	10YR 4/6	SG	LO	5-10/SR/GR			
C	38-100	SCL	10YR 5/2	MA	MA	1-5/SR/GR			

538A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516074	6132867	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-19	LS	10YR 6/2	w, m, pl	FR	5-10, SR, GR		
	Bt	19-60	SCL	10YR 4/4	w, m, sb	FR	5-10, SR, GR		
BC	60-80	SCL	10YR 4/4	MA	FR	20-30, SR, GR			
539A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516187	6133049	undulating	lower	Morainal	moderately well	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	17-0							
	Ae	0-12	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	12-32	SCL	10YR 4/4	m, f, sb	FI	1-5, SR, GR		
	BCgj	32-55	fSCL	10YR 5/3	MA	FI	1-5, SR, GR	f, f, d	
Cgj	55-70	SCL	10YR 5/3	MA	FI	1-5, SR, GR	f, f, f		
II Cgj	70-100	LcS	10YR 6/3	SG	L	1-5, SR, GR	f, f, f		
540A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516262	6133185	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
541A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516254	6133236	hummocky	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-14	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bt	14-35	SCL	10YR 4/4	w, f, sb	FR	1-5, SR, GR		
BC	35-65	SCL	10YR 4/4	MA	FI	1-5, SR, GR			
C	65-100	SCL	10YR 5/2	MA	FI	1-5, SR, GR			

542A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516313	6133524	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
543A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516564	6134059	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-17	Lfs	10YR 6/2	W,C,PL	FR	1-5, SR, G		
	Bm	17-40	Lfs	10YR 4/6	W,M,SB	FR	1-5, SR, G		
	C	40-100	Lfs	10YR 6/3	MA	FR	1-5, SR, G	-	
544A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516196	6132645	undulating	upper	Morainial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	14-0							
	Ae	0-3	SiL	10YR 6/2	W/M/SB		1/SR/GR		
	Bt	3-52	SiCL	10YR 4/4	W/M/SB		1/SR/GR		
	IIC	52-100	LS	10YR 6/3	SG	LO	1/SR/GR		
545A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515993	6132529	level	lower	Morainial	poorly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-0							
	Ae	0-10	SL		MA	NS	1-5/SR/GR	M/C/P	
	Btg	10-45	SCL		MA	S	1-5/SR/GR	M/M/P	
	Cg	45-60	SCL		MA	S	1-5/SR/GR	M/MP	

546A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515911	6132421	undulating	crest	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-11	LS	10YR 6/2	W/M/PL	FR	1-5/SR/GR		
	Bm	11-26	LS	10YR 4/6	W/M/SB	FR	1-5/SR/GR		
	Bt	26-60	CL	10YR 4/4	M/M/SB	FI	1-5/SR/GR		
C	60-100	CL	10YR 5/3	MA	FI	1-5/SR/GR			
547A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515868	6132310	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
548A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	514547	6132147	hummocky	upper	Glaciofluvial	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-9	LS	10YR 7/1	W/M/PL	FR	1-5/SR/GR		
	Bm	9-15	LS	10YR 5/4	W/M/SB	FR	1-5/SR/GR		
	Bt	15-53	SCL	10YR 4/4	M/M/SB	FI	1-5/SR/GR		
BC	53-90	SL	10YR 5/4	MA	FR	1-5/SR/GR			
C	90-100	SL	2.5Y 5/3	MA	FR	1-5/SR/GR			

549A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	515792	6131953	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-26	S	10YR 6/2	SG	LO	1-5/SR/GR		
	Bm	26-41	S	10YR 4/6	SG	LO	1-5/SR/GR		
551A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516123	6132076	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-12	LS	10YR 6/1	SG	L	1-5, SR, GR		
	Bm	12-47	LS	10YR 4/6	SG	L	1-5, SR, GR		
552A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516365	6132759	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
554A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516571	6131981	hummocky	crest	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-20	S	10YR 6/1	SG	L	1-5, SR, G-C		
	Bm	20-67	S	10YR 4/6	SG	L	10-15, SR, G-C		
C	67-100	S	10YR 6/4	SG	L	10-15, SR, G-C			

555A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516676	6131935	undulating	upper	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	1-0							
	Ae	0-15	S	10YR 7/1	SG	L	1-5, SR, GR-CB		
	Bm	15-32	S	7.5YR 4/6	SG	L	1-5, SR, GR-C		
	C	32-58	S	7.5YR 5/3	SG	L	1-5, SR, G-C		
	IIC	58-100	CL	10YR 5/2	MA	FI	1-5, SR, G-C		
556A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516753	6131821	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-200							
	Cg	200-220	cS	2.5Y 4/1	MA	NS	1-5, SR, G		
557A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516575	6132065	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
558A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516675	6132622	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

559A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	516911	6132611	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
	Cg	220	cS	2.5Y 6/1	MA	NS			
560A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	517052	6132614	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	2-0							
	Ahe	0-13	L	10YR 2/2	w, m, pl		1-5, SR, GR		
	Bm	13-48	LS	10YR 5/4	SG	L	1-5, SR, GR		
	C	48-100	LS	10YR 6/3	SG	L	1-5, SR, GR		
561A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517123	6133645	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-10	LfS	10YR 6/2	W,M,PL	FR	5-10, SR, G-S		
	AB	10-22	LfS	10YR 5/3	M,M,PL	FR	1-5, SR, G		
	Bt	22-50	SCL	10YR 4/4	M,M,SB	FI	1-5, SR, G		
	BC	50-70	CL	10YR 4/4	MA	FI	1-5, SR, G		
	C	70-100	CL	10YR 4/3	MA	FI	1-5, SR, G		
562A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516913	6133864	level	level	Organic, Undifferentiated, Glaciofluvial	poorly	Rego, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	50-0							
	Ah	0-10	L	2.5Y 2/1	MA	NS	1-5, SR, G		
	Cg	10-50	LS	2.5Y 4/1	MA	NS	1-5, SR, G		

563A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517120	6133912	undulating	crest	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-7	LS	10YR 6/2	W,F,PL	FR	1-5, SR, G		
	BA	7-18	LS	10YR 4/5	W,F,SB	FR	1-5, SR, G		
	Bt	18-55	SCL	10YR 4/4	W,F,SB	FI	1-5, SR, G		
	C1	55-75	SL	10YR 6/3	MA	L	1-5, SR, G		
C2	75-100	SCL	10YR 4/3	MA	FI	1-5, SR, G			
564A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517485	6133996	level	level	Fen	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
565A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517853	6133960	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
566A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517973	6133964	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-14	SL	10YR 6/2	W,M,PL	FR	1-5, SR, G-C		
	AB	14-29	SL	10YR 4/5	M,C,PL	FR	1-5, SR, G-C		
	Bt	29-65	SCL	10YR 4/4	M,M,SB	FR	1-5, SR, G-C		
C	65-100	SCL	10YR 4/3	MA	FI	1-5, SR, G-C			

567A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518086	6133922	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-16	S	10YR 6/2	SG	L	1-5, SR, G		
	BA	16-33	SL	10YR 4/5	W,M,SB	FR	1-5, SR, G		
	Bt	33-60	SCL	10YR 4/4	M,M,SB	FI	1-5, SR, G		
	BC	60-80	SCL	10YR 4/4	MA	FI	1-5, SR, G		
Ck	80-100	SCL	10YR 4/3	MA	FI	1-5, SR, G			
568A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518376	6133899	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
569A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518529	6133942	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	4-0							
	Ae	0-14	LS	10YR 6/2	W,M,PL	FR	5-10, SR, G-C		
	Bt	14-42	SL	10YR 4/4	S,M,SB	FR	5-10, SR, G-C		
	BC	42-75	CL	10YR 4/4	MA	FI	5-10, SR, G-C		
C	75-100	CL	10YR 5/3	MA	FI	5-10, SR, G-C			
570A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518662	6133899	undulating	crest	Morainal	rapidly	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	L	2-0							
	Ae	0-14	LS	10YR 6/2	W,M,PL	FR	1-5, SR, G		
	BA	14-25	SL	10YR 4/5	M,M,SB	FR	1-5, SR, G		
Bt	25-55	CL	10YR 4/4	M,M,SB	FI	1-5, SR, G			
BC	55-100	CL	10YR 4/4	MA	FI	1-5, SR, G			

571A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518701	6133788	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-95							
	Cg	95-100	CL	2.5Y 3/1	MA	S	-	-	
572A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518716	6133738	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		L	1-0						
		Ae	0-14	LfS	10YR 6/1	M,M,PL	FR	1, SR, G	
		Bm	14-26	LfS	10YR 4/6	M,M,SB	FR	1, SR, G	
		BC	26-48	LfS	10YR 5/4	M,M,SB	FR	1, SR, G	
	C	48-100	LfS	10YR 5/3	MA	FR	1, SR, G		
574A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	518747	6133914	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-200							
	Cg	200-220	SiCL	10 BG 5/1	MA	SS	-	-	
575A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519077	6133870	level	level	Organic, Undifferentiated	very poorly	Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		Of1	0-30						
	Om	30-100							
	Of2	100-220							

576A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519079	6133776	hummocky	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	12-0							
	Ae	0-14	S	10YR 6/2	SG	L	1-5, SR, G		
Bm	14-45	S	10YR 5/6	SG	L	15-20, SR, G-C			
BC	45-80	LS	10YR 5/4	MA	VFR	5-10, SR, G			
577A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519371	6133878	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
578A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519411	6133973	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
584A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519791	6133973	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
585A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	519900	6133869	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							

586A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517477	6131976	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220+							
587A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517666	6132146	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	3-0							
	Ae	0-11	LS	10YR 7/2	w/c/pl	v.FR	<1/SR/GR		
	Bm	11-55	S	10YR 5/6	SG	LO	1-5/SR/GR		
	BC	55-80	S	2.5Y 6/6	SG	LO	<1/SR/GR		
	C	80-100+	S	2.5Y 6/4	SG	LO	<1/SR/GR		
588A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517855	6132249	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-190							
	Cg	190-220+	S	2.5Y 5/1	MA	NS	1-5/SR/GR		
589A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517938	6132444	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-135							
	Cg	135-160+	S	2.5Y 5/1	MA	NS	<1/SR/GR		

590A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	10-Sep-12	518104	6132538	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of Cg	0-170 170-190+	SL	10YR 6/1	MA	SS	<1/SR/GR			
591A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	10-Sep-12	518403	6132604	hummocky	upper	Glaciofluvial	well	Brunisolic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	3-0							
		Ae	0-15	S	10YR 6/2	SG	LO	<1/SR/GR		
		Bm1	15-24	LS	10YR 6/4	w/c/pl	v.FR	1-5/SR/GR		
		Bt	24-40	CL	10YR 5/3	m/m/sb	FI	<1/SR/GR		
	Bm2	40-75	S	10YR 5/6	SG	LO	<1/SR/GR			
	BC	75-100+	S	10YR 6/6	SG	LO	1-5/SR/GR			
593A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	10-Sep-12	518787	6132621	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		Of Cg1 Cg2	0-85 85-95 95-110+	 cS fSL	 10YR 6/2 10YR 7/1	 MA MA	 NS SS	 1-5/SR/GR 1-5/SR/GR		

594A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519033	6132627	hummocky	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-10	LS	10YR 6/2	W,M, PL	VFR	1-5, SR, G		
	BA	10-23	LS	10YR 5/4	W,M,SB	VFR	1-5, SR, G		
	Bt	23-55	CL	10YR 5/3	M,M,SB	FR	1-5, SR, G		
	BC	55-70	SCL	10YR 5/3	MA	FI	1-5, SR, G		
C	70-100	LS	10YR 6/4	MA	VFR	1-5, SR, G			
595A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519226	6132571	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om	0-170 170-220							
596A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	519515	6132564	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
597A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519603	6135268	hummocky	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-9	LS	10YR 7/2	w/f/pl	v.FR	1-5/SR/GR		
	Bm1	9-22	LS	10YR 6/6	SG	LO	<1/SR/GR		
	Btj	22-38	SL	10YR 6/4	w/m/sb	FR	<1/SR/GR		
	Bm2	38-60	LS	10YR 6/6	SG	LO	<1/SR/GR		
BC	60-100+	LS	10YR 7/6	SG	LO	1-5/SR/GR			

598A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519931	6132893	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-11	LS	10YR 7/1	w/m/pl	v.FR	1-5/SR/GR		
	BA	11-30	LS	10YR 6/4	w/m/sb	v.FR	1-5/SR/GR		
	Bt	30-75	SCL	10YR 5/4	s/m/sb	FI	1-5/SR/GR		
C	75-100+	CL	10YR 4/3	MA	FI	1-5/SR/GR			
599A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519886	6132994	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-12	LS	10YR 7/2	w/c/pl	v.FR	1-5/SR/GR		
	BA	12-33	LS	10YR 5/4	w/m/s	v.FR	1-5/SR/GR		
	Bt	33-70	SCL	2.5Y 5/3	m/m/sb	FI	1-5/SR/GR		
C	70-100+	CL	2.5Y 4/2	MA	FI	1-5/SR/GR			
600A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519886	6133192	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-26	S	10YR 7/3	SG	LO	1-5/SR/GR		
	Bm	26-42	LS	10YR 6/8	w/m/sb	v.FR	<1/SR/GR		
BC	42-100+	S	10YR 7/8	SG	LO	1-5/SR/GR			

601A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519888	6133434	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-22	S	10YR 5/2	SG	LO	15-20/SR/G-C		
	BA	22-35	SL	10YR 6/2	n/m/sb	FR	25-30/SR/GR-C		
	Bt	35-70	CL	10YR 4/2	MA	v.FI	1-5/SR/GR		
C	70-100+	CL	2.5Y 4/2	MA	v.FI	1-5/SR/GR			
602A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520051	6133635	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-10	S	10YR 6/2	SG	LO	<1/SR/GR		
Bt	10-50	SCL	10YR 5/4	m/m/sb	FI	1-5/SR/GR			
603A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520075	6132638	undulating	upper	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-9	SL	10YR 6/2	w/f/pl	FR	<1/SR/GR		
	Bm	9-39	LS	10YR 5/4	w/m/sb	FR	1-5/SR/GR		
	Bt	39-70	SCL	10YR 5/2	m/m/sb	FI	1-5/SR/GR		
C	70-100+	CL	2.5Y 4/2	MA	FI	1-5/SR/GR			

604A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519915	6132451	undulating	upper	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-10	LS	10YR 6/2	m/m/pl	v.FR	<1/SR/GR		
	BA	10-32	LS	2.5Y 6/3	w/m/sb	v.FR	<1/SR/GR		
	Bt	32-70	CL	10YR 5/2	m/m/sb	FI	<1/SR/GR		
C	70-100+	CL	2.5Y 4/2	MA	FI	<1/SR/GR			
605A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519927	6132216	undulating	mid	Glaciofluvial	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	6-0							
	Ae	0-15	LS	10YR 7/2	w/m/pl	v.FR	<1/SR/GR		
	Bm	15-54	LS	10YR 6/6	SG	LO	<1/SR/GR		
	Bt	54-70	SCL	10YR 6/4	MA	FI	<1/SR/GR		
C	70-100+	S	10YR 8/6	SG	LO	1-5/SR/GR			
606A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	519968	6132001	undulating	lower	Fluvial	poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	25-0							
	Cg	0-50	LS	2.5Y 6/1	MA	SS	<1/SR/GR	m/c/p	
	Omb	50-75							
Cg2	75-100+	SL	2.5Y 5/1	MA	SS	<1/SR/GR			

608A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520331	6132186	hummocky	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-16	S	10YR 6/2	SG	LO	10-15/SR/G-C-S		
	Bm	16-65	S	10YR 5/6	SG	LO	<1/SR/GR		
BC	65-100+	S	10YR 6/6	SG	LO	<1/SR/GR			
609A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520443	6132196	level	level	Organic, Undifferentiated, Fluvial	very poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	30-0							
	Cg	0-74	SL	2.5Y 5/1	MA	SS	0		
610 A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520406	6132656	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	2-0							
	TS	0-8	SCL	10YR 6/3	-	FR	<1/SR/GR		
	Ae	8-23	LS	10YR 7/2	w/m/pl	V.FR	<1/SR/GR		
	Bm	23-54	LS	10YR 6/6	m/m/sb	V.FR	<1/SR/GR		
	BC	54-70	SCL	2.5Y 6/4	MA	FR	<1/SR/GR		
	IIC	70-100+	CL	2.5Y 5/2	MA	FI	<1/SR/GR		

611A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520556	6132638	undulating	upper	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-6	LS	10YR 6/1	m/f/pl	v.FR	<1/SR/GR		
	BA	6-37	LS	10YR 5/4	w/m/sb	v.FR	<1/SR/GR		
	Bt	37-55	CL	10YR 5/3	w/m/sb	FI	<1/SR/GR		
	BC	55-90	SCL	2.5Y 4/3	MA	FI	<1/SR/GR		
C	90-100+	CL	2.5Y 4/2	MA	FI	<1/SR/GR			
612A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520905	6132660	hummocky	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-12	LS	10YR 7/2	W,F,PL	VFR	1-5, SR, G		
	Bm	12-42	S	7.5YR 7/8	SG	L	<1, SR, G		
	BC	42-100	S	10YR 7/6	SG	L	<1, SR, G		
614A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	521098	6132652	undulating	lower	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-15	S	10YR 7/2	SG	LO	5-10/SR/GR		
	Btj	15-65	SL	10YR 6/4	w/f/sb	FR	<1/SR/GR		
C	65-100+	SL	2.5Y 7/3	MA	FR	<1/SR/GR			

615A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	521417	6132659	undulating	toe	Glaciofluvial	imperfectly	Gleyed Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	8-0							
	Ae	0-13	S	7.5YR 7/2	SG	LO	1-5/SR/GR		
Bm	13-43	S	7.5YR 5/6	SG	LO	1-5/SR/GR			
Cgj	43-100+	LS	2.5Y 6/4	MA	NS	1-5/SR/GR	m/c/f		
616A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	521587	6132659	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-21	S	10YR 7/2	SG	LO	<1/SR/GR		
Bm	21-65	S	7.5YR 7/6	SG	LO	<1/SR/GR			
BC	65-100+	S	10YR 7/6	SG	LO	1-5/SR/GR			
617A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	521757	6132660	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220+								
618A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520543	6133452	level	depression	Glaciofluvial	very poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	35-0							
	Aeg	0-25	S	10YR 7/3	MA	NS	<1, SR, G		
Cg	25-65	S	2.5Y 5/3	MA	NS	<1, SR, G			

619A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520414	6133418	undulating	upper	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	15-0							
	Ae	0-11	S	7.5YR 6/2	SG	L	<1, SR, G		
	Bm1	11-40	S	7.5YR 4/4	SG	L	<1, SR, G		
	Bm2	40-65	S	10YR 5/6	SG	L	<1, SR, G		
	BC	65-95	S	10YR 6/6	SG	L	<1, SR, G		
C	95-100	S	2.5Y 6/4	SG	L	<1, SR, G			
620A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520837	6133350	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-190							
Cg	190-200	LS	2.5Y 5/2	MA	NS	1-5, SR, G			
621A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520980	6133150	undulating	crest	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-19	LS	10YR 7/1	W,C,PL	VFR	<1, SR, G		
	AB	19-36	LS	10YR 5/4	M,M,PL	VFR	<1, SR, G		
	Bt	36-60	CL	10YR 5/2	M,M,SB	FI	<1, SR, G		
	BC	60-80	CL	2.5Y 5/3	MA	FI	<1, SR, G		
Ck	80-100	CL	10YR 5/2	MA	FI	<1, SR, G			

622A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	7-Sep-12	520649	6133720	undulating	lower	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	17-0							
	Ae	0-13	S	10YR 6/1	SG	L	30-40, SR, G-C-S		
	Bm	13-25	S	10YR 5/4	SG	L	30-40, SR, G-C-S		
625A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	520801	6134213	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-45							
	Cg	45-100+	LS	2.5Y 6/3	MA	SS	1-5/SR/GR		
626A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	520684	6134046	level	level	Organic, Undifferentiated, Fluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	W	0-15							
	Of	15-85							
	Cg	85-100+	S	2.5Y 6/1	MA	NS	0		
627A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521115	6134190	hummocky	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
		Ae1	0-13	LS	10YR 7/2	W,M,PL	VFR	1-5, SR, G	
		Ae2	13-26	LS	10YR 8/1	S,M,PL	VFR	1-5, SR, G	
		Bm	26-60	S	10YR 6/6	SG	L	1-5, SR, G	
	BC	60-100	LS	10YR 7/4	MA	VFR	5-10, SR, G		

627A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521115	6134190	hummocky	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae1	0-13	LS	10YR 7/2	W,M,PL	VFR	1-5, SR, G		
	Ae2	13-26	LS	10YR 5/1	S,M,PL	VFR	1-5, SR< G		
	Bm	26-60	S	10YR 6/6	SG	L	1-5, SR, G		
BC	60-100	LS	10YR 7/4	MA	VFR	5-10, SR, G			
628A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	520888	6133742	hummocky	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-14	S	10YR 7/4	SG	L	1-5, SR, G		
	Bm1	14-40	S	10YR 6/6	SG	L	1-5, SR, G		
	Bm2	40-70	S	10YR 6/6	SG	L	5-10, SR, G-C		
629A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521125	6133628	level	level	Glaciofluvial, Morainal	poorly	Orthic, Regosol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	25-0							
	C	0-45	S				>80,SR,S		
	Cg	45-100	cSL	2.5Y 6/4	MA	SS	<1, SR, G	F,C,D	
630A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521145	6133713	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-21	S	7.5YR 7/2	SG	L	1-5, SR, G-C		
	Bm	21-41	S	7.5YR 5/6	SG	L	1-5, SR, G-C		
	BC	41-100	S	10YR 6/6	SG	L	1-5, SR, G-C		

631A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521514	6133446	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-10	S	10YR 7/2	SG	L	1-5, SR, G		
	Bm1	10-30	S	10YR 5/4	SG	L	1-5, SR, G		
	Bm2	30-70	S	10YR 6/6	SG	L	<1, SR, G		
	BC	70-100	S	2.5Y 6/6	SG	L	1-5, SR, G		
632A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	6-Sep-12	521647	6133424	undulating	mid	Fluvial, Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-19	LS	10YR 6/2	W,C,PL	VFR	5-10, SR, G-C		
	Btj	19-50	SL	10YR 5/4	W,C,SB	FR	1-5, SR, G		
	IIC	50-100	SCL	2.5Y 5/3	MA	FI	1-5, SR, G		
636A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516351	6134383	undulating	mid	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-190							
	Cg	190-220	SCL	10 BG 5/1	MA	SS	5-10, SR, G-C		
637A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516437	6134663	level	level	Organic, Undifferentiated, Morainal		Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-105							
	Cg	105-120	SCL	10 BG 5/1	MA	SS	1-5, SR, GR		

638A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516330	6134860	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-210							
	Cg	210	cS	2.5Y 3/1	MA	NS	1-5/SR/GR		
639A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516433	6134888	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-22	S	10YR 6/2	SG	LO	5-10/SR/GR		
	Bm	22-60	S	10YR 4/6	SG	LO	5-10/SR/GR		
	BC	60-80	S	10YR 5/4	SG	LO	1-5/SR/GR		
	C	80-100	S	10YR 6/3	SG	LO	1-5/SR/GR		
640A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516430	6135142	undulating	lower	Glaciofluvial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-13	LS	10YR 5/2	W/C/PL	NS	1/SR/GR		
	Bg	13-27	SL	2.5Y 5/3	MA	NS	1/SR/GR		
	Cg	27-100	SL	2.5Y 5/2	MA	NS	1/SR/GR		
641A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516425	6135300	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Om	140-210							
	Cg	210-220	S	2.5Y 5/1	MA	NS	1-5/SR/GR		

642A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516435	6135484	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
643A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516286	6135614	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-15	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bm	15-43	LS	10YR 4/6	SG	L	1-5, SR, GR		
	BC	43-75	LS	10YR 5/4	SG	L	1-5, SR, GR		
	C	75-100	LS	10YR 6/3	SG	L	1-5, SR, GR		
644A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516267	6135683	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-17	SL	10YR 6/2	w, m, pl	FR	1, SR, GR		
	AB	17-41	SiL	10YR 7/3	m, f, pl	Hard	1, SR, GR		
	Btj	41-65	L	10YR 6/3	w, m, sbk	FR	1, SR, GR		
	C	65-100	L	10YR 6/3	MA	FR	1, SR, GR		
645A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515684	6134188	undulating	mid	Morainal	poorly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Ae	0-10	LS	10YR 5/1	m, m, pl	FR	1-5, SR, GR		
	Btg	10-34	SCL	10YR 4/4	m, m, sbk	FR	1-5, SR, GR	c, m, p	
	Cg	34-100	SCL	2.5Y 5/2	MA	FI	1-5, SR, GR	f, m, p	

646A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515695	6134354	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
647A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515921	6134620	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
648A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516055	6134909	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-9	LfS	10YR 6/2	w, m, pl	FR	10-15, SR, GR		
	BA	9-23	SL	10YR 4/4	w, m, sb	FR	1-5, SR, GR		
	Bt	23-55	SCL	10YR 4/4	m, m, sb	FI	1-5, SR, GR		
C	55-100	SCL	10YR 5/2	mA	FI	1-5, SR, GR			
649A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516138	6135191	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Humic, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Om	60-140							
	Oh	140-165							
Cg	165-200	LS	2.5Y 5/1	MA	NS	1, SR, GR			

650A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516034	6135687	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
	Cg	220	SL	2.5Y 4/1	MA	NA	1-5, SR, GR		
651A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515861	6135712	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-10	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bm	10-34	LS	10YR 4/6	w, m, sbk	FR	1-5, SR, GR		
BC	34-65	LS	10YR 5/4	MA	FR	1-5, SR, GR			
C	65-100	LS	10YR 6/3	MA	FR	1-5, SR, GR			
652A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515712	6135673	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-10	LS	10YR 6/2	w, m, pl	FR	1-5, SR, G		
	Btj	10-44	LS	10YR 5/4	w, m, sb	FR	1-5, SR, GR		
IIBC	44-60	SCL	10YR 4/4	MA	FI	1-5, SR, GR			
C	60-100	SCI	10YR 4/3	MA	FI	1-5, SR, GR			

653A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515557	6135670	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-7	SL	10YR 6/2	m,m,pl	FR	1-5, SR, GR		
	AB	7-21	SL	10YR 5/3	m, m, pl	FR	1-5, SR, GR		
	Bt	21-65	CL	10YR 4/4	m,m,sbk	FI	1-5, SR, GR		
	BC	65-84	CL	10YR 4/4	MA	FI	1-5, SR, GR		
C	84-100	CL	10YR 4/3	MA	FI	1-5, SR, GR			
654A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515359	6135716	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-5	LS	10YR 6/2	SG	L	1-5, SR, G-C		
	Btj	5-23	SL	10YR 4/4	m, f, sbk	FR	1-5, SR, G-C		
	C1	23-41	LS	10YR 6/3	MA	FR	1-5, SR, G-C		
	C2	41-87	SCL	10YR 4/4	MA	FR	1-5, Sr, G-C		
IIC	87-100	CL	10YR 4/3	MA	FI	1-5, Sr, G-C			
655A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	515388	6135836	level	level	Organic, Undifferentiated, Morainal	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-160								
Cg	160 +	SiCL	2.5Y 5/1	MA	FI				
661A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516631	6135617	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

662A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516672	6135725	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae1	0-19	LfS	10YR 6/2	m, m, pl	FR	1-5, SR, GR		
	Ae2	19-42	vfSL	10YR 6/1	m, f, pl	Hard	1-5, SR, GR		
	IIBt	42-65	CL	10YR 4/4	m, m, sb	FI	1-5, SR, GR		
IIC	65-100	CL	10YR 4/3	MA	Fi	1-5, SR, GR			
663A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516911	6135636	undulating	lower	Glaciofluvial		Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	20-0							
	Ae	0-40	LS	10YR 6/2	w, m, pl	FR	1-5, SR, GR		
	Bg	40-80	SL	2.5Y 3/2	MA	NS	1-5, SR, GR		
Cg	80-100	SL	2.5Y 4/2	MA	SS	1-5, SR, GR			
664A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517153	6135716	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-22	S	7.5YR 7/1	SG	L	1, SR, G		
	Bm	22-46	S	7.5YR 4/6	SG	L	1, SR, G		
C	46-100	S	7.5YR 6/3	SG	L	1, SR, G			
665A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517384	6135666	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
	Ah	100-117	L	10YR 2/1	MA	SS	1-5, SR, G		
Cg	117-120	SCL	10YR 5/1	MA	S	1-5, SR,G			

666A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517483	6135674	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	13-0							
	Ae	0-22	LS	7.5YR 6/2	W,M,PL	FR	1-5, SR, G		
	Bm	22-50	LS	10YR 4/6	W,M,SB	FR	1-5, SR, G		
IIC	50-100	SCL	2.5Y 5/3	MA	FI	1-5, SR, G			
667A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517035	6135320	terrace	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-9	LS	10YR 6/2	M,M,PL	FR	1-5, SR, G		
	Bt	9-40	SCL	10YR 4/4	M,M,SB	FI	1-5, SR, G		
BC	40-65	CL	10YR 4/4	MA	FI	1-5, SR, G			
C	65-100	CL	10YR 4/3	MA	FI	1-5, SR, G			
668A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517072	6135092	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
669A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517077	6134878	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								

670A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517014	6134562	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-13	LS	10YR 6/2	W,M,PL	FR	1-5, SR, G		
	AB	13-28	SL	10YR 5/4	M,M,PL	H	1-5, SR, G		
	Bt	28-65	CL	10YR 4/4	M,M,SB	FR	1-5, SR, G		
C	65-100	CL	10YR 4/3	MA	VFI	1-5, SR, G			
671A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517038	6134325	undulating	upper	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-17	LS	10YR 6/2	W,M,PL	FR	5-10, SR, G-C		
	AB	17-35	LS	10YR 6/3	W,M,SB	FR	10-15, SR, G		
	Bt	35-65	SL	10YR 5/4	M,M,SB	FR	1-5, SR, G		
C	65-100	LS	2.5Y 6/2	SG	L	1-5, SR, G			
672A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516874	6134139	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
673A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	516704	6134129	level	level	Organic, Undifferentiated	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-100								
Cg	100-120	SiCL	2.5Y 3/1	MA	S	1-5, SR, G			

674A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517710	6135511	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-8	S	7.5YR 8/1	SG	L			
	Bm	8-36	S	10YR 6/8	SG	L			
	BC	36-95	S	10YR 7/6	SG	L			
	C	95-100	S	2.5Y 7/3	SG	L	-	-	
675A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517545	6135342	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-170							
	Cg	170-220	LS	2.5Y 5/1	MA	NS	1-5, SR, G		
676A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517545	6135123	undulating	mid	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-19	S	10YR 6/2	SG	L	1-5, SR, G		
	Bm	19-36	S	10YR 4/5	SG	L	1-5, SR, G		
	IIBt	36-65	SCL	10YR 4/4	M,M,SB	FI	1-5, SR, G		
	C	65-100	SCL	10YR 5/2	MA	FI	1-5, SR, G		

677A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517442	6134981	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-10	Lfs	10YR 6/2	W,M,PL	FR	1-5, SR, G		
	Bt	10-27	fSCL	10YR 4/4	M,F,SB	FR	1-5, SR, G		
	C	27-65	SiCL	10YR 4/4	MA	FR	<1, SR, G		
IIC	65-100	fs	10YR 6/3	MA	FR	<1, SR, G			
679A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517028	6135841	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
680A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	10-Sep-12	517044	6136110	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-14	LS	10YR 6/2	W,F,PL	FR	1-5, SR, G		
	AB	14-30	LS	10YR 6/3	W,M,PL	FR	1-5, SR, G		
	Bm	30-60	Lfs	10YR 6/4	SG	L	1-5, SR, G		
C	60-100	SL	10YR 5/2	MA	FR	1-5, SR, G			
683A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	516424	6135999	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-12	Lfs	10YR 6/2	SG	LO	1-5/SR/GR		
	Bm	12-49	Lfs	10YR 4/6	SG	LO	1-5/SR/GR		
	C	49-100	Lfs	10YR 6/3	SG	LO	1-5/SR/GR		

686A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516475	6136634	undulating	crest	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-14	S	10YR 8/2	SG	L			
	Bm1	14-23	LS	7.5YR 4/6	SG	L			
	Bm2	23-35	LS	7.5YR 7/3	SG	L			
	IIBt	35-70	SCL	10YR 6/3	W,M,SB				
IIC	70-100	SCL	2.5Y 6/2	MA					
687A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516154	6137065	level	level	Glaciofluvial	imperfectly	Gleyed Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	8-0							
	Ae	0-7	S	10YR 7/1	SG	L			
	Bmgj	7-16	S	10YR 5/6	SG	L	5-10, SR, G	F,C,D	
	BCgj	16-80	S	10YR 6/4	SG	L	2-5, SR, G-C	F,F,F	
	Cg	80-100	SL	10YR 6/3	MA		2-5, SR, G	F,C,P	
688A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	515881	6137066	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
Cg	80-100	cS	2.5Y 5/1	MA	NS	<2, SR, G			

689A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	515695	6137069	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-13	S	10YR 7/1	SG	L	2-5, SR, G		
	Bm	13-53	S	10YR 6/6	SG	L	2-5, SR, G		
	BC	53-59	S	10YR 7/4	SG	L	<2, SR, G		
	C	59-100	SL	10YR 6/3	SG	L	2-5, SR, G		
690A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	515392	6137072	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-13	S	7.5YR 7/2	SG	L	2-5, SR, G		
	Bm	13-42	S	10YR 5/6	SG	L	15-20, SR, G		
	BC	42-70	S	10YR 6/4	SG	L	15-20, SR, G		
	C	70-100	S	2.5Y 8/2	SG	L	5-10, SR, G		
691A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	515161	6137053	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-150							
	Cg	150-170	LS	2.5Y 4/1	MA	NS	<2, SR, G		

692A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	514900	6137012	undulating	upper	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-27	S	7.5YR 7/2	SG	L	<2, SR, G		
	Bm	27-45	S	7.5YR 5/6	SG	L	2-5, SR, G		
	BC	45-75	S	10YR 7/6	SG	L	<2, SR, G		
	C	75-100	S	10YR 7/3	SG	L	<2, SR, G		
694A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516696	6136820	undulating	mid	Glaciofluvial, Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	24-0							
	Ae	0-21	S	10YR 7/2	SG	L	<2, SR, G		
	Bt	21-28	SL	10YR 5/4	W,F,SB	FR	<2, SR, G		
	IIBt	28-65	SCL	10YR 4/3	M,M,SB	FI	2-5, SR, G		
	IICk	65-100	SiCL	2.5Y 4/2	MA	FI	2-5, SR, G		
695A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516719	6136854	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-50							
	Om	50-115							
	Cg	115-120	LS	2.5Y 5/2	MA	NS	2-5, SR, G		

696A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516930	6136986	undulating	level	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-8	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	8-33	S	10YR 5/6	SG	L	<2, SR, G		
	BC	33-56	S	10YR 5/4	SG	L	<2, SR, G		
	C	56-100	S	2.5Y 5/3	SG	L	<2, SR, G		
697A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517097	6136908	hummocky	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-19	S	10YR 7/2	SG	L	<2, SR, G-C		
	Bm	19-80	S	10YR 6/5	SG	L	2-5, SR, G-C		
	BC	80-100	S	10YR 5/4	SG	L	<2, SR, G-C		
698A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517394	6136946	undulating	level	Glaciofluvial	imperfectly	Gleyed, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	25-0							
	Bm	0-30	cS	10YR 4/6	SG	L			
	Cgj	30-60	cS	2.5Y 5/2	SG	NS			

699A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517645	6136974	undulating	lower	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-25	LS	7.5YR 7/2	SG	L	2-5, SR, G-C		
	Bm	25-55	S	7.5YR 5/6	SG	L	<2, SR, G		
	BC	55-90	S	10YR 6/6	SG	L	<2, SR, G		
	C	90-100	S	10YR 6/3	SG	L	2-5, SR, G		
700A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518081	6137081	undulating	depression	Organic, Undifferentiated, Fluvial	very poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	45-25							
	Om	25-0							
	Cg	0-60	cS	10YR 6/1	SG	NS	2-5, SR, G		
701A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516960	6137309	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-6	S	7.5YR 7/2	SG	L	<2, SR, G-C		
	Bm	6-30	S	7.5YR 5/6	SG	L	5-10, SR, G-C		
	BC	30-75	S	7.5YR 7/6	SG	L	2-5, SR, G-C		
	C	75-100	S	7.5YR 7/3	SG	L	2-5, SR, G-C		

702A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516982	6137516	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-105							
	Cg	105-120	cS	2.5Y 4/1	MA	NS	2-5, SR, G		
703A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516992	6137619	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-95							
	Cg	95-120	cS	2.5Y 5/1	MA	NS	2-5, SR, G		
704A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516990	6137834	undulating	level	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-17	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	17-39	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	39-65	S	10YR 5/4	SG	L	10-15, SR, G		
	C	65-100	S	2.5Y 5/2	SG	L	2-5, SR, G		
705A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517044	6138043	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Orthic, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	40-0							
	Ahg	0-10	SL	10YR 2/1	MA	SS	<2, SR, G		
	Aeg	10-15	LS	10YR 6/1	MA	NS	<2, SR, G		
	Bg	15-50	LS	10YR 6/3	MA	NS	<2, SR, G		
	Cg	50-100	SL	2.5Y 6/3	MA	SS	<2, SR, G		

706A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517300	6138189	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-13	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	13-39	S	10YR 5/6	SG	L	5-10, SR, G		
C	39-45	S	2.5Y 5/1	SG	L	2-5, SR, G			
IIC	45-100	SiCL	2.5Y 4/2	MA	FI	2-5, SR, G			
707A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517580	6138352	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-210							
	Cg	210-220	S	2.5Y 5/1	MA	NS	<2, SR, G		
708A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	517762	6138468	undulating	mid	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-6	S	10YR 7/2	SG	L	<2, SR, G		
	Bt	6-55	LfS	10YR 5/4	W,M,SB	FR	<2, SR, G		
C	55-100	S	10YR 8/2	MA	FR	<2, SR, G			
709A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518025	6138644	level	level	Glaciofluvial	imperfectly	Orthic, Humic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	20-0							
	Ah1	0-10	SiL	10YR 4/1	MA	SS			
	Ah2	10-20	SL	10YR 5/1	MA	SS			
Bg	20-55	S	10YR 4/3	MA	NS	2-5, SR, G			
Cg	55-100	SL	2.5Y 5/1	MA	SS	2-5, SR, G			

710A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516964	6138146	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Cg	140-200	S	2.5Y 5/2	MA	NS	<2, SR, G		
711A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	516740	6138132	hummocky	mid	Glaciofluvial	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-12	S	7.5YR 7/2					
	Bm	12-31	S	7.5YR 5/6			<2, SR, G		
	Bt	31-46	SL	10YR 6/3			<2, SR, G		
	BC	46-70	S	10YR 6/4			2-5, SR, G-C		
	C	70-100	LS	10YR 6/3			2-5, SR, G-C		
712A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516824	6138485	level	level	Fluvial	imperfectly	Gleyed Cumulic, Regosol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Cgj	0-32	SL	10YR 6/4	SG	L	<2, SR, G	F,M,D	
	Ofb	32-46							
	Cg	46-100	SL	10YR 5/1	MA	SS	<2, SR, G	C,M,P	

713A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516758	6138652	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-7	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	7-45	S	10YR 5/6	SG	L	<2, SR, G		
	BC	45-90	S	10YR 7/6	SG	L	<2, SR, G		
C	90-100	S	10YR 7/3	SG	L	<2, SR, G			
715A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516575	6139047	level	level	Fluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	18-0							
	Ae	0-14	S	10YR 7/1	SG	L	<2, SR, G		
	Bm	14-34	S	10YR 5/6	SG	L	<2, SR, G		
	BC	34-60	S	10YR 6/4	SG	L	<2, SR, G		
C	60-100	S	2.5Y 6/3	SG	L	<2, SR, G			
716A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516557	6139244	level	level	Organic, Undifferentiated	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
Cg	60-80	S	10YR 8/2	MA	NS	<2, SR, G			
717A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516629	6139585	undulating	lower	Glaciofluvial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	12-0							
	Ae	0-9	S	10YR 6/1	MA	NS	<2, SR, G		
	Bmgj	9-35	S	10YR 4/6	MA	NS	<2, SR, G	F,C,F	
	BCg	35-55	S	10YR 6/2	MA	NS	<2, SR, G	C,C,P	
Cg	55-100	LS	2.5Y 6/2	MA	NS	<2, SR, G	C,F,P		

718A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516825	6139657	level	level	Glaciofluvial	imperfectly	Gleyed Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	11-0							
	Ae	0-20	S	10YR 7/2	SG	L	<2, SR, G		
	Bmj	20-37	S	10YR 5/3	SG	L	<2, SR, G		
BCg	37-75	S	10YR 5/4	SG	L	<2, SR, G			
Cg	75-100	S	2.5Y 5/3	SG	L	<2, SR, G			
719A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	516671	6138873	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-190							
	Cg	190-220	LS	2.5Y 6/1	MA	NS	<2, SR, G		
722A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520543	6135897	hummocky	depression	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-135							
	Cg	135-160+	LS	2.5Y 5/1	MA	SS	1-5/SR/GR		

733A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518212	6137045	undulating	mid	Glaciofluvial, Morainal	moderately well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-10	LS	7.5YR 8/2	W,F,PL	FR	2-5, SR, G		
	Bm1	10-18	cS	7.5YR 4/4	SG	L	5-10, SR, G		
	Bmgj	18-50	fS	10YR 6/4	SG	L	10-15, SR, G	M,C,F	
	IIBt	50-65	SiCL	10YR 7/3	M,M,SB	FI	2-5, SR, G		
	Bm2	65-80	LS	10YR 6/6	SG	L	<2, SR, G		
	IIC	80-100	SCL	10YR 6/3	MA	FI	<2, SR, G		
734A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518424	6137072	undulating	crest	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-15	cS	10YR 8/2	SG	L	5-10, SR, G		
	Bm1	15-29	cS	7.5YR 4/4	SG	L	10-15, SR, G		
	Bm2	29-75	cS	10YR 5/8	SG	L	10-20, SR, G		
	BC	75-100	S	10YR 6/6	SG	L	2-5, SR, G		
735A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518610	6136847	undulating	mid	Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-12	LS	10YR 6/1	SG	L	<2, SR, G		
	Bm	12-28	LS	10YR 5/4	W,F,SB	FR	2-5, SR, G		
	Bt	28-65	SiCL	10YR 4/3	M,M,SB	FI	2-5, SR, G		
	C	65-100	CL	2.5Y 4/2	MA	FI	2-5, SR, G		

736A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518701	6137210	undulating	lower	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-9	LS	10YR 6/1	W,F,PL	FR	<2,SR, G		
	BA	9-27	SL	10YR 5/2	W,F,SB	FR	2-5, SR, G		
	Bt	27-58	SL	10YR 5/3	W,F,SB	FR	5-10, SR, G		
	IIBm	58-70	S	10YR 5/6	SG	L	<2, SR, G		
	IIC	70-100	S	2.5Y 6/1	SG	L	<2, SR, G		
737A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518972	6137155	undulating	depression	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-18	LS	10YR 7/1	SG	L	2-5, SR, G-C		
	Bm	18-32	S	10YR 8/4	SG	L	2-5, SR, G-C		
	IIBt	32-80	SiL	10YR 5/3	M,F,SB	sFI	2-5, SR, G		
	IIC	80-100	SiCL	2.5Y 5/3	MA	FI	2-5, SR, G		
738A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	519153	6137178	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Cg	140-160	SL	2.5Y 5/1	MA	SS	<2, SR, G		
739A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	519377	6137172	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

740A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	519568	6137227	undulating	level	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	S	2.5Y8/1	SG	L	<2, SR, G		
	Bm1	21-47	S	10YR 5/8	SG	L	2-5, SR, G		
	Bm2	47-70	S	10YR 6/6	SG	L	2-5, SR, G		
	BC	70-105	S	10YR 6/4	SG	L	2-5, SR, G		
	C	105-120	S	10YR 7/2	SG	L	<2, SR, G		
741A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	519991	6137287	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-105							
	Cg	105-120	S	10YR 6/3	SG	NS	<2, SR, G		
742A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	520224	6137210	level	level	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-9	S	7.5YR 7/2	SG	L	<2, SR, G		
	Bm	9-37	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	37-85	S	10YR 5/4	SG	L	2-5, SR, G		
	C	85-95	S	2.5Y 5/2	SG	L	<2, SR, G		
	IIC	95-100	SiCL	2.5Y 5/2	MA	FI	2-5, SR, G		

743A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518921	6137349	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-26	S	10YR 8/2	SG	L	2-5, SR, G		
	Bm1	26-42	LS	10YR 5/4	SG	L	2-5, SR, G		
	Bm2	42-70	LS	10YR 5/6	SG	L	<2, SR, G		
	C	70-100	LS	10YR 7/3	SG	L	2-5, SR, G		
744A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518946	6137473	level	level	Glaciofluvial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	13-0							
	Aeg	0-10	S	10YR 6/2	MA	NS	<2, SR, G	F,C,P	
	Bg	10-30	S	10YR 6/3	MA	NS	2-5, SR, G	F,C,P	
	Cg	30-100	S	10YR 7/2	MA	NS	2-5, SR, G	F,C,D	
744A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520143	6136339	undulating	toe	Morainal	moderately well	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Aegj	0-10	L	2.5Y 4/2	w/f/pl	FR	<1/SR/GR	f/f/f	
	Bg	10-30	S	10YR 6/3	MA	NS	2-5, SR, G	F,C,P	
	Btgj	30-45	fSCL	2.5Y 6/3	m/m/sb	FR	<1/SR/GR	m/c/d	
	BCj	45-80	CL	2.5Y 5/3	MA	FI	<1/SR/GR	m/c/d	
	Cgj	80-100+	SCL	2.5Y 5/2	MA	FI	<1/SR/GR	m/c/d	

745A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518910	6137782	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-65							
	Cg	65-120	cS	2.5Y 6/3	MA	NS	2-5, SR, G		
746A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520022	6139418	undulating	upper	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-7	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	7-29	S	10YR 5/6	SG	L	<2, SR, G		
	BC	29-52	S	10YR 6/4	SG	L	<2, SR, G		
	C	52-74	S	10YR 7/2	SG	L	<2, SR, G		
	IIC	74-100	SiCL	2.5Y 4/2	MA	FI	<2, SR, G		
746A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518905	6138054	undulating	upper	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-16	fS	10YR 7/1	W,F,PL	FR	<2, SR, G		
	AB	16-32	LfS	10YR 6/3	M,M,PL	FR	2-5, SR, G		
	IIBt	32-65	SiCL	10YR 4/3	M,M,SB	FI	2-5, SR, G		
	IIC	65-100	SiCL	2.5Y 5/2	MA	FI	2-5, SR, G		

747A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518911	6138319	undulating	mid	Glaciofluvial, Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-12	S	10YR 7/1	SG	L	<2, SR, G		
	Bt1	12-30	LS	10YR 6/4	W,F,SB	FR	<2, SR, G		
	IIBt2	30-65	SiCL	10YR 5/3	M,M,SB	FI	2-5, SR, G		
	C	65-100	SiL-SiCL	2.5Y 7/2	MA	FI	2-5, SR, G		
748A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518908	6138570	undulating	lower	Glaciofluvial, Morainal	imperfectly	Orthic, Humic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ahe	0-14	LS	10YR 4/1	SG	L	<2, SR, G		
	Bg	14-38	LS	10YR 6/2	MA	NS	<2, SR, G		
	Cgj	38-55	LS	10YR 7/2	MA	NS	<2, SR, G		
	IICgj	55-100	SiCL	2.5Y 6/1	MA	NS	<2, SR, G		
749A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518907	6138795	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
751A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518903	6139287	level	level	Glaciofluvial	imperfectly	Gleyed Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-16	S	7.5YR 8/2	SG	L	<2, SR, G		
	Bmgj	16-70	S	10YR 7/3	SG	L	2-5, SR, G	F,F,F	
	Cg	70-100	S	2.5Y 7/3	SG	NS	<2, SR, G		

752A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519178	6139439	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
	Cg	60-100	S	10YR 5/2	MA	NS		M,M,P	
753A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	518940	6139483	level	level	Glaciofluvial	imperfectly	Orthic, Humic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ahg	0-13	SL	10YR 3/2		FR	<2, SR, G		
	Bg	13-40	S	10YR 6/3	SG	L	<2, SR, G	F,F,P	
	Cg	40-100	S	10YR 7/3	MA	NS	<2, SR, G	F,F,P	
754A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519349	6139429	level	level	Glaciofluvial	poorly	Rego, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Cg	0-85	S	2.5Y 6/2	MA	NS	<2, SR, G	F,F,P	
755A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519800	6139418	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Cg	140-160	S	2.5Y 6/3	MA	NS	<2, SR, G		

757A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520533	6139441	level	level	Fluvial	very poorly	Rego, Humic Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ahg	0-60	SiL	10YR 4/1	MA	SS	<2, SR, G		
	Cg	60-100	LS	2.5Y 4/1	MA	NS	<2, SR, G		
758A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520345	6139303	undulating	mid	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-21	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	21-51	S	10YR 4/6	SG	L	<2, SR, G		
	C	51-65	S	10YR 8/2	SG	L	<2, SR, G		
	IIC	65-100	SiCL	2.5Y 5/2	MA	FI	<2, SR, G		
759A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520263	6139057	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-140							
	Cg	140-160	LS	2.5Y 5/2	MA	NS			

760A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520341	6138802	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-8	S	7.5YR 5/2	SG	L	<2, SR, G		
	Bm1	8-19	S	7.5YR 4/6	SG	L	<2, SR, G		
	Bm2	19-41	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	41-65	S	10YR 7/4	SG	L	2-5, SR, G		
	C	65-100	S	10YR 7/4	SG	L	<2, SR, G		
761A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520088	6138630	undulating	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-16	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	16-36	S	10YR 5/6	SG	L			
	BC	36-64	S	10YR 6/4	SG	L			
	C	64-100	S	10YR 7/3	SG	L			
762A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519775	6138578	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-90							
	Om	90-100							
	Ahg	100-105	S	10YR 2/1	MA	NS	<2, SR, G		
	Cg	105-120	S	2.5Y 4/1	MA	NS	<2, SR, G		

763A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	29-Aug-12	517024	6139337	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
764A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	29-Aug-12	517254	6139340	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
765A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	29-Aug-12	517539	6139408	level	level	Organic, Undifferentiated, Glaciofluvial	imperfectly	Gleyed Eluviated, Dystric Brunisol	Peaty	
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		Of	25-0							
		Ae	0-8	S	10YR 5/1	MA	NS	<2, SR, G		
		AB	8-14	S	10YR 5/2	MA	NS	<2, SR, G		
		Bmgj	14-60	S	10YR 4/6	MA	NS	<2, SR, G	F,M,F	
	Cg	60-100	S	2.5Y 7/2	MA	NS	<2, SR, G	F,F,P		
766A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	29-Aug-12	517671	6139348	undulating	mid	Glaciofluvial	rapidly	Brunisolic, Gray Luvisol		
		Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	11-0							
		Ae	0-12	S	7.5YR 8/2	SG	L	<2, SR, G		
		Bm1	12-28	S	10YR 6/6	SG		2-5, SR, G-S		
		Bm2	28-50	S	2.5Y 7/3	SG		2-5, SR, G-S		
	Bt	50-75	SCL	10YR 6/3	W,F,SB		<2, SR, G			
	C	75-100	SL	2.5Y 7/3	MA		<2, SR, G			

767A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	518068	6139357	level	level	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-27	S	7.5YR 8/1	SG	L	<2, SR, G		
	Bm	27-50	S	10YR 5/6	SG	L	2-5, SR, G		
768A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	29-Aug-12	518156	6139347	level	level	Fluvial	very poorly	Rego, Humic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	30-0							
	Ahg	0-55	SiL	10YR 3/2	MA	SS	<2, SR, G	M,C,P	
	Cg	55-100	SiL	10YR 4/3	MA	SS	<2, SR, G	M,C,P	
769A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	521371	6134443	hummocky	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-28	S	10YR 7/2	SG	LO	<1/SR/GR		
	Bt	28-65	CL	10YR 5/3	m/m/sb	FI	<1/SR/GR		
770A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	521087	6134596	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-15	S	10YR 6/2					
	Btj	15-30	SL	10YR 5/4					
770A	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Bm	30-55	S	10YR 5/6					
	IIC	55-100+	CL	2.5Y 5/3					

772A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	520756	6134679	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-130							
	Cg	130-160+	S	2.5Y 5/2	MA	NS	<1/SR/GR		
773A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520441	6134729	hummocky	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	7-0						
		Ae	0-15	LS	7.5YR 6/2	m/c/pl	v.FR	1-5/SR/GR	
		Bm	15-60	LS	7.5YR 4/4	w/m/sb	FR	5-10/SR/GR-C	
	BC	60-90	S	10YR 5/6	SG	LO	1-5/SR/GR		
	C	90-100+	S	2.5Y 6/4	SG	LO	1-5/SR/GR		
784A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518918	6136553	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-200							
	Om	200-220							
785A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518924	6136738	undulating	lower	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
		LFH	3-0						
		Ae	0-13	S	7.5YR 8/2	SG	L	<2, SR, G	
		Bm	13-38	S	10YR 5/6	SG	L	<2, SR, G	
	BC	38-55	S	10YR 6/6	SG	L	<2, SR, G		
	C	55-100	S	10YR 6/3	SG	L	<w, SR, G		

786A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	518897	6136947	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-14	S	7.5YR 8/1	SG	L	<2, SR, G		
	Bm	14-35	S	10YR 5/6	SG	L	2-5, SR, G		
	BC	35-65	S	10YR 5/3	SG	L	10-15, SR, G		
	C	65-100	S	2.5Y 7/2	SG	L	<2, SR, G		
787A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520300	6134962	hummocky	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-9	LS	10YR 6/2	w/m/pl	v.FR	<1/SR/GR		
	Btj	9-35	LS	10YR 5/4	w/c/sb	FR	<1/SR/GR		
	Bm	35-70	S	10YR 5/6	SG	LO	<1/SR/GR		
	BC	70-95	cS	10YR 6/6	SG	LO	1-5/SR/GR		
	C	95-1150+	S	10YR 7/6	SG	LO	1-5/SR/GR		
788A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520365	6135146	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-11	S	10YR 6/2	SG	LO	<1/SR/GR		
	Bm	11-60	S	10YR 5/6	SG	LO	<1/SR/GR		
	BC	60-85	S	10YR 6/6	SG	LO	<1/SR/GR		
	C	85-100+	LS	10YR 6/4	MA	v.FR	<1/SR/GR		

789A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520407	6135200	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-90							
	Om	90-105							
	Cg	105-120+	CL	10YR 6/1	MA	ST	<1/SR/GR		
790A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	520455	6135301	undulating	toe	Morainal	imperfectly	Orthic, Luvic Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	17-0							
	Aeg	0-24	SL	10YR 5/2	s/m/pl	FR	<1/SR/GR	m/c/p	
	Btg	24-65	SL	2.5Y 6/3	m/m/sb	FR	<1/SR/GR	m/c/p	
	Cg	65-100+	CL	10 B7/2	MA	FI	<1/SR/GR	m/c/p	
791A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520516	6135636	hummocky	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LF	3-0							
	Ae	0-16	S	7.5YR 7/2	SG	LO	<1/SR/GR		
	Bm	16-60	S	7.5YR 5/6	SG	LO	1-5/SR/GR		
	BC	60-80	S	10YR 5/4	SG	LO	<1/SR/GR		
	C	80-100+	S	2.5Y 7/4	SG	LO	<1/SR/GR		

793A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	520427	6136088	undulating	mid	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	L	1-0							
	Ae	0-9	SL	10YR 6/2	w/m/pl	FR	1-5/SR/GR		
	Bm	9-31	LS	10YR 5/6	w/c/sb	v.FR	1-5/SR/GR		
	IIBt	31-65	CL	10YR 5/2	MA	FI	<1/SR/GR		
	C	65-100+	CL	2.5Y 4/2	MA	FI	<1/SR/GR		
795A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520148	6136441	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-120							
	Cg	120-140	SCL	2.5Y 6/1	MA	SS	<2, SR, G		
796A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519966	6136630	undulating	mid	Glaciofluvial, Morainal	well	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-27	S	10YR 7/2	SG	L	<2, SR, G		
	Bm	27-48	S	10YR 4/6	SG	L	5-10, SR, G		
	IIBt	48-73	SiCL	10YR 5/3	M,M,SB	FI	2-5, SR, G		
	IIC	73-100	SiCL	2.5Y 5/2	MA	FI	2-5, SR, G		

797A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520023	6136967	undulating	mid	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-20	S	10YR 8/1	SG	L	2-5, SR, G		
	Bm1	20-43	S	10YR 5/6	SG	L	5-10, SR, G-C		
	Bm2	43-80	S	10YR 7/6	SG	L	2-5, SR, G		
	C	80-100	S	10YR 7/3	SG	L	<2, SR, G		
798A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	520167	6137119	undulating	upper	Glaciofluvial	very rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	1-0							
	Ae	0-9	S	7.5YR 8/2	SG	L	<2, SR, G		
	Bm1	9-25	S	7.5YR 5/8	SG	L	10-20, SR, G		
	Bm2	25-70	S	7.5YR 6/6	SG	L	10-20, SR, G		
	C	70-100	S	7.5YR 7/3	SG	L	2-5, SR, G		
799A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	25-Aug-12	520455	6137412	level	depression	Fluvial	very poorly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Aeg	0-15	SL	2.5Y 6/2	MA	SS	<2, SR, G		
	Bg1	15-23	SL	2.5Y 6/3	MA	SS	<2, SR, G		
	Bg2	23-38	SL	-	MA	SS	<2, SR, G	M,M,P	
	Cg	38-50	SCL	10YR 5/3	MA	SS	<2, SR, G	M,M,P	

800A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	6-Sep-12	521765	6134342	undulating	mid	Glaciofluvial	well	Eluviated, Eutric Brunisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	14-0								
	Ae	0-27	S	10YR 7/2	SG	L	<1, SR, G			
	Bm	27-55	S	10YR 5/6	SG	L	<1, SR, G			
817A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	524102	6132597	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	Of	0-220								
	818A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
		8-Sep-12	524405	6132608	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
Horizon		Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
LFH		3-0								
Ae		0-17	SL	10YR 6/2	W,F,PL	FR	2-5, SR, G			
Btj		17-60	SL	10YR 5/4	M,M,SB	FR	2-5, SR, G			
819A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase	
	8-Sep-12	524677	6132611	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes	
	LFH	4-0								
	Ae	0-11	fLS	10YR 6/2	W,F,PL	FR	<2,SR, G			
	Btj	11-50	SL	10YR 5/4	W,M,SB	FR	<2, SR, G			
IIC	50-100	CL	10YR 3/4	MA	FI	<2, SR, G				

820A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524947	6132519	level	level	Organic, Undifferentiated	poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
821A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524952	6132339	undulating	upper	Glaciofluvial	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	2-0							
	Ae	0-16	LS	10YR 6/1	W,F,PL	FR	<2, SR, G		
	Btj	16-65	SL	10YR 5/6	W,M,SB	FR	<2, SR, G		
	C	65-100	LS	10YR 6/4	MA	FR	<2, SR, G		
822A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524993	6132196	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
	Om	80-85							
	Cg	85-100	SCL	2.5Y 3/1	MA	S	<2, SR, G		
823A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525017	6131991	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-18	SL	10YR 7/1	W,F,PL	FR	<2, SR, G		
	BA	18-32	SL	10YR 6/3	W,M,SB	FR	<2, SR, G		
	Bt	32-70	SCL	10YR 4/4	M,M,SB	FI	<2, SR, G		
	C	70-100	CL	10YR 3/4	MA	FI	<2, SR, G		

824A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525044	6132764	undulating	mid	Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-22	LS	10YR 6/2	W,F,PL	FR	<2, SR, G		
Btj	22-110	SL	10YR 5/6	M,M,SB	FR	<2, SR, G			
C	110-150	CL	10YR 4/4	MA	FR	<2, SR, G			
825A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525168	6132960	undulating	upper	Glaciofluvial, Morainal	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-22	S	10YR 6/2	SG	L	<2, SR, G		
Bm	22-62	S	7.5YR 4/6	SG	L	10-20, SR, G-C			
IIC	62-100	CL	2.5Y 5/4	MA	FR	2-5, SR, G			
826A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525262	6133190	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								
827A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525457	6133302	level	level	Organic, Undifferentiated	poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-70								
Cg	70-100	LS	10YR 2/2	MA	NS	<2/SR/GR			
828A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524069	6133932	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								

829A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524397	6133975	hummocky	mid	Morainal	well		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-14	fSL	10YR 6/1	W,F,PL	FR	<2, SR, G		
	BA	14-50	vfSL	10YR 5/4	W,M,PL	FR	2-5, SR, G		
fragipan?	50-	SiL	10YR 7/4	MA					
830A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Sep-12	524568	6133936	undulating	lower	Morainal	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-22	LS	10YR 6/2	W,F,PL	FR	<2, SR, G		
	Bgj	22-45	LS	10YR 4/3	MA	NS	<2, SR, G	F,F,F	
Cg	45-65	CL	5Y 5/1	MA	S	<2, SR, G	M,C,P		
832A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	524539	6133841	level	level	Organic, Undifferentiated, Morainal	poorly	Terric Fibric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-30							
	Om	30-60							
	Oh	60-67							
Cg	67-100	CL	2.5Y 4/4	MA	S	<2/SR/GR			
833A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525537	6133885	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-10							
	Cg	10-30	fSL	10YR 5/3	MA	NS			
Of	30-220								

834A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525674	6133343	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	LS	10YR 7/1	W/F/PL	FR	2-5/SR/GR-CO		
Btj	21-55	SL	10YR 5/4	W/M/SB	FR	5-10/SR/GR-CO-S			
IIC	55-100	CL	2.5Y 4/3	MA	FI	10-20/SR/GR-CO			
835A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525855	6133399	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							
836A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	526121	6133380	undulating	mid	Morainal	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae	0-20	LS	10YR 6/1	W/F/PL	FR	<2/SR/GR		
Btj	20-55	SL	10YR 5/6	W/M/SB	FR	<2/SR/GR			
C	55-100	SL	10YR 6/3	MA	FR	<2/SR/GR			
837A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	526589	6133495	level	level	Organic, Undifferentiated, Morainal	imperfectly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	45-15							
	Om	15-0							
Bg	0-30	SCL	2.5Y 5/2	MA	S		C,M,P		
Cg	30-50	SCL	2.5Y 4/2	MA	S		C,C,D		

844A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	526354	6133860	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-28	LS	10YR 6/2	SG	L	<2, SR, G		
Bm	28-85	LS	10YR 4/6	SG	L	5-10, SR, G			
IIC	85-100	CL	2.5Y 3/3	MA	FI	<2, SR, G			
845A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525938	6133801	level	level	Organic, Undifferentiated, Morainal	poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-175							
	Cg	175-200	SL	10YR 4/4	MA	SS	<2/SR/GR		
846A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525863	6133872	undulating	upper	Glaciofluvial	well	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	3-0							
	Ae	0-21	LS	10YR 6/2	W/F/PL	FR	<2/SR/GR		
Bm1	21-34	SiL	10YR 4/6	W/M/SB	FR	<2/SR/GR			
Bm2	34-65	LS	10YR 5/6	W/M/SB	FR	<2/SR/GR			
C	65-100	S	10YR 7/4	MA	FR	<2/SR/GR			
847A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525581	6133158	level	level	Organic, Undifferentiated	poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-220							

848A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525633	6133174	undulating	upper	Glaciofluvial, Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-19	LS	10YR 6/2	W/F/PL	FR	<2/SR/GR		
	BA	19-31	LS	10YR 5/6	W/M/SB	FR	2-5/SR/GR		
849A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525204	6132253	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Ae	0-18	SL	10YR 6/1	W,F,PL	FR	2-5, SR, G		
	Bt	18-40	CL	10YR 5/4	M,M,SB	FI	2-5, SR, G		
850A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Sep-12	525456	6132276	level	level	Glaciofluvial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-14	SL	10YR 6/3	W,F,PL	FR	<2, SR, G		
	Bg	14-60	SL	10YR 5/4	MA	NS	<2, SR, G	C,C,D	
P01A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519778	6138261	level	level	Organic, Undifferentiated	very poorly	Typic, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
Of	0-220								

PO2A	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	27-Aug-12	519780	6137932	level	level	Organic, Undifferentiated, Glaciofluvial	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-155							
	Cg	155-170	S	10YR 5/1	MA	NS	<2, SR, G		

Table G3-3: Soil Inspection Data – Mineral Lands 2014

KD001	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	8-Aug-14	521360	6131057	level	level	Organic, Undifferentiated	very poorly	Organic	
	Of Om	0-50 50-60+							
KD002	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	8-Aug-14	521191	6130952	level	level	Organic, Undifferentiated	very poorly	Organic	
	Of Om	0-40 40-60+							
KD003	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	8-Aug-14	521034	6130840	ridged	mid	Morainal	rapidly	Eluviated, Dystric Brunisol	
	LFH	7-0							
	Ae	0-22	LS	10YR6/2	W, M, P	LO	<1, SR, G		
	Bm	22-60+	SL	10YR4/6	VW, M, SAB	LO	5-10, SR, G		
KD004	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	8-Aug-14	520898	6130780	undulating	lower	Glaciolacustrine	poorly	Orthic, Luvisc Gleysol	
	Om	12-0							
	Aeg	0-23	mS	10YR5/2	SG	LO	<1, SR, G	C, M, P	
	Btjg	23-53	LS	G14/10Y	SG	LO	<1, SR, G	M, C, P	
	Cg	53-60+	SCL	10YR4/2	MA	SS	<1, SR, G	F, F, D	

KD005	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	520619	6130773	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-53							
	Om	53-60+							
KD006	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	520426	6130797	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD007	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	520390	6131057	undulating	upper	Morainal	rapidly	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-10	fSL	10YR6/2	W, M, P	FR	1-5, SR, G		
	Bm	10-20	fSL	10YR5/6	W, M, SAB	FR	1-5, SR, G		
	Bt	20-50	SiL	10YR5/4	F, M, SAB	FR	5-10, SR< G-C		
	C	50-60+	SCL	2.5Y4/2	MA	FI	5-10, SR, G		
KD008	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	520287	6130786	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							

KD009	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	519892	6131141	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							
KD010	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	519419	6130795	undulating	lower	Morainal	imperfectly	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-5	fSL	10YR5/2	W, F, P	VFR	1-5, SR, G		
	Bt	530	SCL	10YR5/6	W, F, SBK	FR	1-5, SR, G		
	Bgj	30-60	LS	10YR5/1	W, F, SBK	VFR	5-10, SR, G	F, M, D	
KD011	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	519156	6130786	undulating	level	Morainal, Glaciolacustrine	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-19	SL	10YR6/2	W, M, P	VFR	1-5, SR, G		
	Bm	19-55	SL	10YR5/6	VW, M, SAB	VFR	10-15, SR, G		
	IIBC	55-60+	fS	10YR4/6	MA	LO	<1, SR, G		

KD012	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	518897	6130796	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-9	SL	10YR7/1	W, M, P	FR	1-5, SR, G		
	Bt	9-50	SCL	10YR4/6	M, M, SAB	FR	5-10, SR, G		
	C	50-60+	C	10YR4/3	MA	FI	5-10, SR, G		
	Ae	0-10	SL	10YR5/2	VW, M, P	NS	1-5, SR, G		
	BA	10-30	SL	10YR5/4	W, M, SAB	NS	20-30, SR, G		
	Bt	30-60	SCL	10YR5/4	M,M,SAB	SS	5-10, SR,G		
KD014	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	518151	6131503	undulating	mid	Morainal	rapidly	Orthic, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	4-0							
	Bm	0-55	LS	10YR6/4	W, M, SAB	FR	5-10, SR, G		
	IIC	55-65	SC	10YR5/4	MA	FI	20-30, SR, G		
KD015	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	518411	6130827	level	level	Organic, Undifferentiated, Morainal	very poorly	Terric, Mesisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-60							
	Cg	60-70	SiCL	5YR3/1	MA	ss	1-5, SR, G		

KD016	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	8-Aug-14	518100	6131104	undulating	level	Morainal	well	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-8	LS	10YR4/3	W, M, P	NS	20-30, SR, G		
	Bm	8-55	SL	10YR5/4	W, M, SAB	SS	5-10, SR, G		
	BC	55-60+	SCL	10YR5/4	MA	SS	5-10, SR, G		
KD017	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-04	517761	6130790	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-80+							
KD018	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	517630	6130780	undulating	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-12	mS	10YR7/3	SG	LO	<1, SR, G		
	Bm1	12-42	mS	10YR5/8	SG	LO	10-15, SR, G-C		
	Bm2	42-60+	mS	10YR6/4	SG	LO	10-15, SR, G-C		
KD019	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	517492	6130845	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-60+							

KD020	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	517322	6130776	undulating	mid	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-25	mS	10YR5/3	SG	LO	1-5, SR, G		
	Bm	25-60+	mS	7.5YR4/6	SG	LO	30-40, SR, G-C		
KD021	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	517132	6130764	undulating	depression	Glaciofluvial	imperfectly	Gleyed, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Aegj	0-17	LS	10YE5/2	W, F, P	VFR	5-10, SR, G	F, F, F	
	Bmgj	17-68+	cS	5YR6/2	SG	LO	20-30, SR, G-C	C, F, F	
KD022	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516917	6130784	undulating	lower	Glaciofluvial	rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae1	0-10	mS	10YR6/2	SG	LO	1-5, SR, G		
	Ae2	10-26	fS	10YR7/2	SG	LO	10-20, SR, G		
	Bm	26-60	LS	10YR5/6	W, M, SAB	FR	10-20, SR, G		
KD023	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516777	6130760	undulating	upper	Glaciofluvial	very rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae1	0-9	mS	10YR6/2	SG	LO	1-5, SR, G		
	Ae2	9-15	mS	10YR7/1	SG	LO	1-5, SR, G		
	Bm	15-60+	mS	10YR5/4	SG	LO	1-5, SR, G		

KD024	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516579	6130771	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om	0-45 45-60+							
KD025	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516429	6130772	ridged	crest	Glaciofluvial	very rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-21	mS	10YR7/2	SG	NS	5-10, SR, G		
	Bm	21-60	mS	10YR8/6	SG	NS	5-10, SR, G		
KD026	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516255	6130832	undulating	mid	Glaciofluvial, Glaciolacustrine	rapidly	Eluviated, Eutric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Ae	0-10	LS	10YR5/2	MA	FR	5-10, SR, G-C		
	Bm	10-30	fS	10YR5/6	SG	LO	5-10, SR, G-C		
	Ab	30-60	fS	10YR7/2	SG	LO	<1, SR, G		
	Bm	60-67+	fS	10YR6/8	SG	LO	<1, SR, G		
KD027	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	516085	6130773	undulating	mid	Glaciofluvial	poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	33-0							
	Aeg	0-14	fS	5YR2.5/2	SG	NS	5-10, SR, G	M, M, P	
	Bg	14-30+	mS	5YR4/6	SG	NS	<1, SR, G	M, C, P	

KD028	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515918	6130765	undulating	level	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Ahe	0-12	SiL	2.5Y3/1	MA	FR	<1, SR<, G		
	BAgj	12-26	SL	2.5Y6/3	M, M, SAB	FR	1-5, SR, G	C, F, F	
	Btgj	26-55	SCL	2.5Y6/3	M, F, SAB	FI	1-5, SR, G	C, F, F	
	Cgj	55-60+	SCL	2.5Y6/3	MA	FI	1-5, SR, G	C, F, F	
KD029	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515724	6130777	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD030	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515654	6130742	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	15-0							
	Ae	0-10	SL	10YR7/1	W, F, P	SS	<1, SR, G		
	AB	10-20	SiCL	10YR5/3	W, M, SAB	SS	1-5, SR, G-C		
	Bt	20-60+	CL	10YR5/3	MA	S	1-5, SR, G		
KD031	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515430	6130768	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-9	SiL	10YR6/2	W, F, P	S	20-30, SR, G		
	Bt	9-38	SiCL	10YR5/4	S, M, SAB	SS	20-30, SR, G		

KD032	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515477	6130971	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-45							
	Oh	45-60+							
KD033	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515426	6131206	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD034	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515489	6131375	undulating	level	Morainial	moderately well	Gleyed, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	11-0							
	Aegj	0-10	LS	10YR6/2	W, F, P	SS	10-20, SR, G-C	M, M, F	
	Bt	10-55	SCL	10YR4/4	W, F, SAB	SS	10-20, SR, G-C		
	Cgj	55-65+	CL	10YR5/4	MA	S	10-20, SR, G	M, F, F	
KD035	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515222	6130750	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD036	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	515090	6130747	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60							

KD037	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	514803	6130809	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD038	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	514672	6130749	undulating	lower	Glaciofluvial	very rapidly	Eluviated, Dystric Brunisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-18	S	10YR6/2	SG	LO	10-20, SR, G	F, F, F	
	Bm	18-65+	S	10YR4/3	SG	LO	10-20, SR, G		
KD039	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	514223	6130749	undulating	mid	Glaciofluvial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	13-0							
	Ae	0-12	S	10YR7/2	SG	LO	1-5, SR, G		
	AB	12-26	fS	10YR6/4	SG	LO	5-10, SR, G		
	Bt	26-50	SiL	2.5Y6/4	W, M, SAB	FR	10-20, SR, G		
KD040	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	514008	6130758	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-45							
	Om	45-60							

KD041	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	513688	6130773	undulating	mid	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-10	LS	10YR5/2	W, M, P	FR	10-20, SR, G		
	AB	10-28	SL	10YR6/3	W, C, P	FR	0-5, SR, G		
	Bt	28-60+	SiL	2.5Y5/3	W, M, SAB	SS	10-20, SR, G-C		
KD042	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	9-Aug-14	513495	6130748	undulating	depression	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							
KD071	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	506915	6131099	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-20	mS	10YR7/2	SG	L	1-5, SR < G		
	Bt	20-55	SiL	10YR6/4	M, M, SBK	FR	5-10, SR, G		
	C	55-65+	SCL	10YR5/4	MA	FI	<1, SR, G		
KD072	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	506889	6131253	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-60+							

KD073	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	506903	6131469	undulating	lower	Glaciofluvial	imperfectly	Orthic, Gleysol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	7-0							
	Ae1	0-5	mS	10YR5/4	SG	L	10-20, SR, G		
	Ae2	5-16	S	10YR6/2	SG	L	10-20, SR, G	C, M, P	
	Bg	16-44	S	10YR6/3	SG	L	30-40, SR, G	C, M, P	
	BCg	44-60+	SL	2.5Y5/3	MA	SS	30-40, SR, G	M, M, P	
KD081	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	507246	6131502	undulating	crest	Morainial	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	11-0							
	Ae	0-10	LS	10YR7/1	W, F, PL	FR	10-20, SR, G		
	BA	10-21	SiL	10YR6/4	W, F, SBK	FR	10-20, SR, G		
	Bt	21-55	SiC	10YR4/3	M, F, SBK	FI	20-30, SR, G		
	C	55-65	SCL	10YR4/3	MA	Fi	10-20, SR, G		
KD082	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	508011	6131525	undulating	level	Morainial	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	8-0							
	Ae	0-7	SL	10YR6/2	VW, F, PL	VFR	20-30, SR, G		
	AB	7-17	LS	10YR5/4	VW, F, PL	L	20-30, SR, G		
	Bt	17-55	L	10YR5/4	VW, M, SBK	FR	20-30, SR, G		
	C	55-70	SCL	10YR5/4	MA	FI	5-10, SR, G		

KD083	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	508214	6131509	level	level	Organic, Undifferentiated	poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om	0-57 57-80							
KD084	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	507295	6130712	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Om	0-65 65-75							
KD085	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	507816	6130758	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Om	0-60+							
KD086	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	508083	6130735	level	level	Organic, Undifferentiated, Glaciolacustrine	very poorly	Terric, Fibrisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of Cg	0-75 75-80	SiL	G15/10Y	MA	S	<1, SR, G		

KD087	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	508158	6130780	steep	toe	Morainal	poorly	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Aeg	0-12	vfSL	G1 5/10Y	MA	S	<1, SR, G	C, M, P	
	Btg	12-33	SiL	G1 4/5GY	MA	S	1-5, SR, G	C, M, P	
Cg	33-60+	L	10YR6/4	MA	S	1-5, SR, G	C, M, P		
KD088	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	512374	6130745	undulating	lower	Glaciolacustrine	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Aegj	0-17	SL	10YR6/3	W, F, PL	FR	<1, SR, G	C, F, F	
	Btgj	17-53	SiL	10YR4/4	W, F, SBK	FR	<1, SR, G	C, F, F	
Ckj	53-70	SiCL	10YR4/4	MA	FI	<1, SR, G	C, F, F		
KD089	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	512093	6130740	level	level	Organic, Undifferentiated	very poorly		
	Horizon Of	Depth 0-80+							
KD090	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	511756	6130854	level	level	Organic, Undifferentiated	very poorly		
	Horizon Of	Depth 0-80							

KD091	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	511630	6130963	undulating	lower	Morainal	moderately well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-26	SL	10YR5/3	W, M, PL	FR	5-10, SR, G		
	Bt	26-54	SiL	10YR5/3	M, W, SBK	FR	5-10, SR, G		
	Ck	54-70	SCL	10YR5/3	MA	FI	5-10, SR, G		
KD092	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	511603	6130738	level	level	Organic, Undifferentiated	very poorly		
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							
KD093	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	511352	6130806	level	level	Morainal	poorly	Orthic, Gleysol	Peaty
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	56-21							
	Om	21-0							
	Cg	0-10	SCL	2.5Y5/3	MA	FI	1-5, SR, G		
KD094	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	511121	6130740	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-80							

KD095	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	510732	6130728	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon Of	Depth 0-70	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
KD096	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	11-Aug-14	510333	6130729	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon Of	Depth 0-70	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
KD097	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509929	6130950	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon Of	Depth 0-80	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
KD098	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	510064	6130838	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon Of Om	Depth 0-45 45-70	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes

KD099	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509898	6130728	ridged	crest	Morainal	rapidly	Brunisolic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	9-0							
	Ae	0-9	LS	10YR5/2	SG	L	5-10, SR, G		
	Bm	9-23	vfSL	10YR4/6	VW, F, SBK	VFR	20-30, SR, G-C		
	Bt	23-70	SiCL	10YR4/6	M, M, SBK	FI	5-10, SR, G		
	Ck	70-75	SiCL	10YR4/4	MA	FI	<1, SR, G		
KD100	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509658	6130717	undulating	lower	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	5-0							
	Ae	0-10	LS	10YR5/2	W, F, PL	VFR	1-5, SR, G		
	BA	10-15	cSL	2.5Y5/4	W, M, SBK	VFR	5-10, SR, G		
	Bt	15-35	SL	2.5Y5/3	M, M, SBK	VFR	20-30, SR, G		
	BC	35-65	S	2.5Y5/4	SG	L	20-30, SR, G		
Ck	65-75	SCL	2.5Y5/4	MA	FI	10-20, SR, G			
KD101	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509557	6131094	undulating	mid	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	6-0							
	Ae	0-11	SL	10YR4/2	W, F, PL	VFR	5-10, SR, G		
	Bt	11-53	SiL	10YR5/3	M, M, SBK	FR	5-10, SR, G		
BCK	53-65	SiCL	10YR5/3	MA	FI	5-10, SR, G			

KD102	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509516	6131342	level	level	Organic, Undifferentiated	very poorly	Organic	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	Of	0-100							
KD103	Date	Easting	Northing	Surface Expression	Slope Position	Parent Material	Drainage	Soil Classification	Phase
	12-Aug-14	509560	6130812	undulating	upper	Morainal	well	Orthic, Gray Luvisol	
	Horizon	Depth	Texture	Colour	Structure	Consistency	% C F	Mottles	Notes
	LFH	10-0							
	Ae	0-9	Lfs	10YR6/2	W, F, PL	SO	5-10, SR, G		
	AB	9-35	SL	10YR5/3	W, F, PL	SO	20-30, SR, G		
	Bt	35-65+	SiCL	10YR4/3	M, M, SBK	SLH	20-30, SR, G		

Appendix G4

Soil Profile Data

Appendix G4: Soil Profile Data Table of Contents

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1.0 INTRODUCTION

The major soil series and variants identified and applied as the basis for soil mapping in the terrestrial local study area (TLSA) are described below. These soil series and variants are described in terms of the morphological, chemical and physical properties of representative soil profiles surveyed in the TLSA. In situations where the modal or typical series were not surveyed within the TLSA, descriptions can be found in the AGRASID database (CAESA Soil Inventory Working Group 2001). Soil Series described below are derived from the Devon Pike 1 environmental impact assessment (EIA) TLSA located adjacent to the Pike 2 EIA TLSA. The distribution of soil series within the Pike 1 and Pike 2 TLSA's are analogous and it can be assumed that physical and chemical characteristics will not vary significantly as the soil forming factors are indistinguishable.

2.0 TERMINOLOGY AND METHODS

Morphological descriptions of soil series are based on examinations of representative soil profiles using criteria and classification systems according to the Soil Classification Working Group (1998). The following describes the terms, abbreviations and laboratory methodology used to describe soil series as presented in the following section.

Coarse Fragments (CF): Content of rock or mineral fragments (gravel, stones, rocks) greater than 2 mm in diameter. The CF content is estimated volumetrically by visual examination or by weight on the basis of the amount of material remaining upon sieving with a 2 mm sieve.

Sand, Silt and Clay: The weight percentages of sand, silt and clay. This group of parameters is also referred to as the particle size distribution. The contents of sand, silt and clay in soil samples were determined by a simplified hydrometer method as described in Carter (1993).

Organic Carbon (Org C): The weight percentage of carbon in organic forms. The amount of soil organic matter is calculated by multiplying the value for organic carbon by 1.72. Organic carbon is assumed to be equal to the level of total carbon in non-calcareous soil samples. In calcareous samples, the organic carbon content is the difference between total and inorganic carbon levels (see CaCO₃ equivalent below). Total carbon is a measure of both organic and inorganic forms of carbon. Total carbon was measured by dry combustion using a LECO® Carbon and Nitrogen Analyzer.

Total Nitrogen: Nitrogen was determined together with carbon using a LECO® C and N Analyzer. The combustion process in this instrument converts elemental C and N into CO₂, N₂ and NO_x. The gases are then passed through infrared cells to measure C and a thermal conductivity cell to measure N.

pH (pH): Measured with a pH meter using a saturated paste in water or 1:2 ratio CaCl₂ (Carter 1993).

Cation Exchange Capacity (CEC) and Exchangeable Cations (Exch Cat): CEC is the total amount of exchangeable ions that a soil can absorb, expressed as centimoles of positive charge per kg of soil (cmol_c/kg). Soil samples were extracted with a normal (1M at pH 7.0) ammonium acetate solution. NH₄ ions were measured with an ammonium electrode and exchangeable Ca, Mg, K and Na were measured by Inductively Coupled Plasma Atomic Emission Spectroscopy.

Base Saturation (BS): BS is the percentage of the CEC attributable to base cations, calculated as the sum of Ca, Mg, K and Na divided by the CEC. The remainder of the CEC is attributed to hydrogen and aluminum.

Electrical Conductivity (EC): EC refers to the ability of a solution to transmit an electric current, measured as decisiemens per metre (dS/m). Transmission of electrical current is related to the concentration of ions in solution and is thus a measure of soil salinity. EC was determined on extracts of saturated pastes (Carter 1993) and measured with a Yellow Springs Instruments conductivity cell and model 32 conductance meter.

H₂O Saturation Percentage (H₂O Sat %): The volumetric moisture content of the saturated soil paste used to determine electrical conductivity.

Ions in Saturation Extract: The content of ions, expressed in millimoles of charge per litre (mmol_c/L), of the saturated soil paste used to determine electrical conductivity.

Sodium Adsorption Ratio (SAR): The relationship of soluble sodium to soluble magnesium + calcium in water or the soil solution as expressed by the equation:

$$SAR = [Na] / \sqrt{[(Ca^{2+} + Mg^{2+})/2]},$$

where the concentrations of ions are in milliequivalents per litre (meq/L). SAR reflects the amount of sodium on the exchange complex.

CaCO₃ Equivalent and Inorganic Carbon (CaCO₃ Eq): Inorganic carbon was determined by acid dissolution and measurement of evolved CO₂ with a manometric (calcimeter). Carbonate minerals such as dolomite and calcite in the soil are the primary sources of inorganic carbon. The data are therefore expressed as the equivalent amount of CaCO₃.

3.0 ABBREVIATIONS

The following are abbreviations used in the tables below. Abbreviations in table headings are as indicated in the section 'Terminology and Methods' above.

na	not available, or not applicable
nd	not determined
e	an estimated value; applied to pH only
pr	present, by inference from other analytical data

The following abbreviations pertain to descriptions of soil structure.

ex	extremely
m-f&m-ab	moderate, fine and medium, angular blocky
m-f- granular	moderate, fine (granular)
m-f-ab	moderate, fine angular blocky
m-f-platy	moderate, fine (platy)
m-f-sab	moderate, fine subangular blocky
m-m-platy	moderate, medium (platy)
m-m-sab	moderate, medium subangular blocky
s-c-sab	strong, coarse subangular blocky
s-f-platy	strong, fine (platy)
s-f-sab	strong, fine subangular blocky
s-gr	single grain
s-m-ab	strong, medium angular blocky
s-m-platy	strong, medium platy
s-m-sab	strong, medium subangular blocky
sl sticky	slightly (sticky)
v	very
vw	very weak
vw-c-sab	very weak, coarse subangular blocky
vw-f&m-ab	very weak, fine and medium, angular blocky
vw-m-platy	very weak, medium (platy)
vw-m-sab	very weak, medium subangular blocky
w-f&m-sab	weak, fine and medium, subangular blocky
w-f- granular	weak, fine (granular)
w-f-platy	weak, fine (platy)
w-f-sab	weak, fine subangular blocky
w-granular	weak (granular)
w-m-platy	weak, medium (platy)
w-m-sab	weak, medium subangular blocky

The following abbreviations pertain to soil texture abbreviation/mineral code.

Fine sandy loam (FSL)	Contains 30% or more fine sand (less than 30% very fine sand), or 15 to 30% very coarse sand, coarse and medium textured sands, or more than 40% very fine or fine sands (20% fine sand >15% very coarse, coarse or medium textured)
Very fine sandy loam (VFSL)	Contains 30% or more very fine sand, or more than 40% fine and very fine sand (half very fine and <15% very coarse, coarse and medium sands).
Loam (L)	Contains 7 to 27% clay, 28-50% silt and <52% sand.
Silt loam (SiL)	Contains 50% or more silt, 12-27 % clay or 50-80% silt with <12% clay.
Sandy loam (SL)	Contains 30% very coarse, coarse and medium sands (less than 25% very coarse/coarse sands) and less than 30% of very fine or fine sands
Clay loam (CL)	Contains 27 to 40% clay material and 20-45% sand
Sandy clay loam (SCL)	Contains 20 to 35% clay, less than 28% silt and 45% or more sand
Silt clay loam (SiCL)	Contains 27 to 40% clay and less than 20% sand
Loamy sand (LS)	Contains 25% or more very coarse, coarse and medium sand (less than 25% very coarse/coarse sand) less than 50% fine or very fine sands
Silt clay (SiC)	Contains 40% or more of clay and silt material
Clay (C)	Contains 40% or more clay content with less than 45% sand and 40% silt content
Heavy clay (HC)	Contains more than 60% clay
Sand (S)	Contains 25% or more very coarse, coarse and medium sand, (less than 25% very coarse and coarse sands) with less than 50% very fine sand
Ahe	A mineral horizon forming at or near the surface enriched by organic matter undergoing eluviation showing streaks, grey color shades and platy structure
Ae	Mineral horizon forming at or near the surface characterized by the eluviation of clay, iron, aluminum or organic matter
Bt	Horizon characterized by the enrichment in organic matter, sesquioxides, clays or development of structure or color change. The horizon contains illuvial, lattice clays. Usually seen below an eluvial horizon but also can be seen at soil surface that is partially truncated. The horizon must be at least 5 cm thick

Bm	Horizon characterized by the enrichment in organic matter, clays or development of structure or color change. Slightly altered by hydrolysis, oxidation or solution (or all 3) results in a change to color and/or structure. Higher chromas, red hues, removal of carbonates, illuviation and weathering evidence are indicators for this horizon
Btg	A Bt horizon with characteristic grey colors or prominent mottling indicating a permanent or periodic reduction
Of	Organic horizon developed from moss, rush and woody material with fibric material that is readily identifiable
Om	Organic horizon developed from moss, rush and woody material consisting of mesic material at an intermediate decomposition stage
Oh	Organic horizon developed from moss, rush and woody material consisting of humic material at an advanced decomposition stage

Adapted from Expert Committee on Soil Survey (1983) and Soil Classification Working Group (1998).

Bitumount (BMT)

Profile No: CB34¹
Location: Easting 5150103, Northing 6148783, Zone 12
Subgroup: Orthic Gleysol
Parent Material: Glaciofluvial over Morainal
Topography: Undulating
Drainage: Very poorly drained
Moisture Regime: Hygric
Nutrient Regime: Medium
Comments: <2 % slope. Vegetation: white spruce/black spruce forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
Of	55-20	–	–	–	–	–	–	–
Om	20-0	–	–	–	–	–	–	–
Ahgj	0-3	SiL	0	–	–	–	–	–
Bgj	3-40	LS	5-10	87	8	5	–	non-sticky
IICg	40-60	SL	5-10	53	42	5	massive	firm

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
Of	45.7	0.37	124	4.54
Om	33.5	0.37	91	6.39
Ahgj	–	–	–	–
Bgj	–	–	–	6.83
IICg	–	–	–	7.22

Notes:

- ¹ Site located in Pike 1 TL5A.
- = Denotes not sampled or no results presented.

Hartley (HLY)

Profile No: BK64¹
Location: Easting 515486, Northing 6146462, Zone 12
Subgroup: Terric Fibrisol
Parent Material: Organic over Fibrisol
Topography: Undulating
Drainage: Very poorly drained
Moisture Regime: Sub-hydric
Nutrient Regime: Medium
Comments: 2-5 % slope. Vegetation: tamarack/black spruce treed poor fen.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
Of	0-65	–	–	–	–	–	–	–
Cg	65-100+	CL	5-10	46	20	34	massive	slightly sticky

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
Of	34.1	0.18	189	5.38
Cg	–	–	–	7.35

Notes:

¹ Site located in Pike 1 TLSA.

– = Denotes not sampled or no results presented.

Horse River (HRR)

Profile No: 108¹
Location: Easting 513202, Northing 6143556, Zone 12
Subgroup: Orthic Gray Luvisol
Parent Material: Morainal
Topography: Undulating
Drainage: Well drained
Moisture Regime: Mesic
Nutrient Regime: Medium
Comments: 6-9% slope. Vegetation: aspen/white spruce forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
LFH	14-0	–	–	–	–	–	–	–
Ahe	0-12	SL	1-5	68	24	8	w-m-platy	friable
BA	12-23	SCL	1-5	46	26	28	w-m-sab	friable
Bt	23-65	CL	1-5	42	22	36	m-f-sab	firm
BC	65+	CL	1-5	42	24	34	massive	firm

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
LFH	35.9	0.51	70	–
Ahe	1.68	0.07	24	5.56
BA	0.29	0.03	10	5.98
Bt	–	–	–	6.58
BC	–	–	–	7.84

Notes:

¹ Site located in Pike 1 TLSA.

– = Denotes not sampled or no results presented.

Mariana (MRN)

Profile No: CB22¹
Location: Easting 501330, Northing 6139370, Zone 12
Subgroup: Terric Fibric Mesisol
Parent Material: Organic
Topography: Level
Drainage: Very poorly drained
Moisture Regime: Sub-hydric
Nutrient Regime: Poor
Comments: Vegetation: black spruce treed bog.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Rubbed Fibre (%)	Structure	Consistence
Of	0-50	–	–	–	–	–	60.7	–	–
Om	50-145	–	–	–	–	–	25.5	–	–
Cg	145-180	LS	0	78	15	7	–	massive	non-sticky

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
Of	42.5	0.55	77	5.88
Om	41.6	0.15	277	6.05
Cg	–	–	–	6.76

Notes:

- ¹ Site located in Pike 1 TL5A.
- = Denotes not sampled or no results presented.

McLelland (MLD)

Profile No: BK37¹
Location: Easting 519094, Northing 6148642, Zone 12
Subgroup: Typic Fibrisol
Parent Material: Organic
Topography: Level
Drainage: Poorly drained
Moisture Regime: Sub-hydric
Nutrient Regime: Medium
Comments: Vegetation: tamarack shrubby to treed fen.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Rubbed Fibre (%)	Structure	Consistence
Of	0-220+	–	–	–	–	–	65.1	–	–

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
Of	43.3	0.31	140	6.14

Notes:

¹ Site located in Pike 1 TLSA.
 – = Denotes not sampled or no results presented.

Mildred (MIL)

Profile No: CB35¹
Location: Easting 5151635, Northing 6148699, Zone 12
Subgroup: Eluviated Eutric Brunisol
Parent Material: Glaciofluvial
Topography: Hummocky
Drainage: Rapidly drained
Moisture Regime: Submesic
Nutrient Regime: Medium
Comments: 6-9% slope. Vegetation: aspen/white spruce forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
LFH	8-0	–	–	–	–	–	–	–
Ae	0-15	LfS	1-5	87	10	3	s-gr	loose
Bm1	15-37	LfS	1-5	89	4	7	s-gr	loose
Bm2	37-70	LfS	1-5	86	7	7	s-gr	loose
C	70-100	LfS	1-5	87	6	7	s-gr	loose

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
LFH	36.6	0.87	42	–
Ae	0.21	0.01	21	6.07
Bm1	–	–	–	6.18
Bm2	–	–	–	6.60
C	–	–	–	6.87

Notes:

¹ Site located in Pike 1 TLSA.
 – = Denotes not sampled or no results presented.

Muskeg (MUS)

Profile No: CB41¹
Location: Easting 516639, Northing 6146831, Zone 12
Subgroup: Typic Fibrisol
Parent Material: Organic
Topography: Level
Drainage: Very poorly drained
Moisture Regime: Sub-hydric
Nutrient Regime: Poor
Comments: Vegetation: black spruce shrubby bog.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Rubbed Fibre (%)	Structure	Consistence
Of1	0-80	–	–	–	–	–	79.6	–	–
Of2	80-220+	–	–	–	–	–	57.1	–	–

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
Of1	43.8	0.45	97	5.35
Of2	32.8	–	–	5.63

Notes:

¹ Site located in Pike 1 TLSA.

– = Denotes not sampled or no results presented.

Steepbank (STP)

Profile No: BK21¹
Location: Easting 501828, Northing 6145273, Zone 12
Subgroup: Orthic Gleysol
Parent Material: Morainal
Topography: Undulating
Drainage: Imperfectly drained
Moisture Regime: Sub-hygric
Nutrient Regime: Poor
Comments: Vegetation: black spruce forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
LFH	9-0	–	–	–	–	–	–	–
Ae	0-9	S	1-5	80	18	2	s-gr	loose
Bg	9-24	LS	1-5	78	18	4	w-f-sab	friable
Btg	24-55	vFSL	1-5	46	30	24	m-m-sab	slightly sticky
Cg	55-100	SL	1-5	56	24	20	massive	non-sticky

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
LFH	–	–	–	–
Ae	0.24	185	–	–
Bg	–	–	–	6.21
Btg	–	–	–	7.24
Cg	–	–	–	7.79

Notes:

¹ Site located in Pike 1 TL5A.

– = Denotes not sampled or no results presented.

Sutherland (SUT)

Profile No: 182¹
Location: Easting 505072, Northing 6139144, Zone 12
Subgroup: Eluviated Dystric Brunisol
Parent Material: Glaciofluvial over morainal
Topography: Hummocky
Drainage: Well drained
Moisture Regime: Sub-xeric
Nutrient Regime: Poor
Comments: -15% slope. Vegetation: jack pine forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
LFH	5-0	–	–	–	–	–	–	–
Ae	0-15	LS	30-40	80	19	1	s-gr	loose
Bm	15-30	LS	50-60	82	12	6	s-gr	loose
C	30-46	LS	1-5	78	16	6	s-gr	loose
IIC	46-100+	SCL	5-10	54	22	24	massive	firm

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
LFH	38.9	0.08	486	–
Ae	0.31	0.02	16	4.73
Bm	0.25	0.03	8	6.06
C	–	–	–	6.46
IIC	–	–	–	6.85

Notes:

¹ Site located in Pike 1 TL5A.

– = Denotes not sampled or no results presented.

Winefred (WNF)

Profile No: 265¹
Location: Easting 508433, Northing 6145373, Zone 12
Subgroup: Brunisolic Gray Luvisol
Parent Material: Glaciofluvial over morainal
Topography: Undulating
Drainage: Well drained
Moisture Regime: Mesic
Nutrient Regime: Medium
Comments: Mid 2-5 % slope. Vegetation: white spruce/jack pine forest.

Physical and Chemical Characteristics:

Horizon	Depth (cm)	Texture	CF (%)	Sand (%)	Silt (%)	Clay (%)	Structure	Consistence
LFH	10-0	–	–	–	–	–	–	–
Ae	0-15	LS	0	76	20	4	s-gr	loose
Bm	15-31	LS	0	72	18	10	s-gr	loose
IIBt	31-56	SCL	0	50	18	32	m-m-sab	firm
C	56-100	CL	0	38	28	34	massive	firm

Horizon	Org C (%)	Nitrogen (%)	C:N Ratio	pH
LFH	35.5	0.06	592	–
Ae	0.18	0.03	6	5.34
Bm	0.14	0.01	14	5.83
IIBt	–	–	–	6.36
C	–	–	–	7.10

Notes:

¹ Site located in Pike 1 TL5A.

– = Denotes not sampled or no results presented.

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Appendix G5

Land Capability Classification Calculations

Land Capability Rating System for Benjamin Soil Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHWC							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Ae	L	14	1.5	21			21
Bt	HC	44	1.6	70.4			70.4
BC	HC	27	1.6	43.2			43.2
Ck	C	15	1.6	24			24
Profile Σ							158.6
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--	(iii)		
					Profile Σ		
					158.6		
					Soil moisture Regime		
					Mesic		
Adjusted AWHC = (i) + (ii) + (iii) =					66		
SMR Index/Subclass					66		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)			
Total C, N and C:N (0-20 cm)										
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average	
LFH	7	0.10	18.00	12.60	0.16	0.11		0	0	
Ae	14	1.40	0.42	8.23	0.03	0.68	L	2	2.45	
Bt	36	1.50	0.00	0.00	0.00	0.00	HC	3	3	
			TOC Σ	20.83	Total N Σ	0.79				
			C:N	26.27						
TOC Rating:	2	TN Rating:	2	C:N Ratio Rating:	4	Nutrient Retention Rating:	5.45	Cumulative rating Σ:	13.45	
SNR Index/Subclass		10								
Base rating= SMR +SNR		76		(a)						
Limiting Factor Deductions										
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)		
TS (0-20cm)	mfp-mfsb/fr-vfi	7	6.89/7.11	3.5	0.09/0.09	0	0.22/0.45	0		
								5.32	(b)	
								Interium soil rating= (a)-(b)		70.1
US (20-50 cm)	mfsb/vfi	20	7.1	10	0.09	0	0.45	0		
								9.39	(d)	
LS (50-100cm)	mfsb-ma/vfi-fi	36.8	7.1/7.7/7.83	0	--	0	--	0		
								14.80	(e)	

Final Land Rating= (a) - (b) - (d) - (e) 46.49

Land Capability class 3

Subclasses DV

Land Capability Rating System for Bitumount Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Profile Σ							0
<u>Layering Modifiers</u>			Yes/No				
Impermeable layer:			No	--			
Coarse/Fine material stratification:			No	--			
Fine/Coarse material stratification:			No	--			
			Layering effect	--	(ii)		
<u>Landscape Modifiers</u>							
Aspect:			--				
Slope position:			--				
			Landscape effect	--			
			(iii)				
Adjusted AWHC = (i) + (ii) + (iii) =			0		Soil moisture Regime		
SMR Index/Subclass			0W		Subhydric		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
Of	35	0.10	45.70	159.95	0.37	1.30		0	0
Om	20	0.10	33.50	67.00	0.37	0.74		0	0
Bgj	40	1.50	0.00	0.00	0.00	0.00	LS	1	1
IICg	10	1.45	0	0.00	0	0.00	SL	2	1.33
TOC Σ				226.95	Total N Σ		2.04		
				C:N	111.52				
TOC Rating:	6	TN Rating:	4	C:N Ratio Rating:	2	Nutrient Retention Rating:	2.33	Cumulative rating Σ:	14.33
SNR Index/Subclass		10							
Base rating= SMR +SNR		10							
		(a)							
Limiting Factor Deductions									
TS (0-20cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	ns	0	6.83	0	0.12	0	0.13	0	
								0	(b)
								10	(c)
Interium soil rating= (a)-(b)									
US (20-50 cm)	ns/ma	10	6.83/7.2	3.3	0.12/0.15	0	0.13/0.18	0	(d)
								0.67	(d)
LS (50-100cm)	ma	30	7.2	10	0.15	0	0.18	0	(e)
								0.99	(e)

Final Land Rating= (a) - (b) - (d) - (e) 8.34

Land Capability class 5
Subclasses WDV

Land Capability Rating System for Hartley Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)								
AHWC								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
Profile Σ							0	(i)

Layering Modifiers	Yes/No		Landscape Modifiers	
Impermeable layer:	No	--	Aspect:	--
Coarse/Fine material stratification:	No	--	Slope position:	--
Fine/Coarse material stratification:	No	--	Landscape effect	--
Layering effect			(iii)	
Adjusted AWHC = (i) + (ii) + (iii) =			Soil moisture Regime	
SMR Index/Subclass			Subhydic	

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
Of	20	0.10	34.10	68.20	0.18	0.36		0	0
TOC Σ				68.20	Total N Σ		0.36		
C:N				189.44					

TOC Rating:	4	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	0	Cumulative rating Σ:	8
SNR Index/Subclass		5F							
Base rating= SMR +SNR		5							
		(a)							

Limiting Factor Deductions									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)			5.38	0					
Interium soil rating= (a)-(b)								0	(b)
								5	(c)
US (20-50 cm)			5.4	0					
								0	(d)
LS (50-100cm)									
								0.00	(e)

Final Land Rating= (a) - (b) - (d) - (e) 5

Land Capability class 5

Subclasses FW

Land Capability Rating System for Horse River Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Ahe	SL	12	1.4	16.8			16.8
BA	SCL	11	1.5	16.5			16.5
Bt	CL	42	1.7	71.4			71.4
BC	CL	35	1.7	59.5			59.5
Profile Σ							164.2
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--	(iii)		
Adjusted AWHC = (i) + (ii) + (iii) =				164.2	Soil moisture Regime		
SMR Index/Subclass				66	Mesic		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	14	0.10	35.90	50.26	0.51	0.71		0	0
Ahe	12	1.40	1.68	28.22	0.07	1.18	SL	2	2.4
BA	11	1.50	0.29	4.79	0.03	0.50	SCL	3	3
Bt	27	1.5	0	0.00	0.03	1.22	CL	3	3
TOC Σ				83.27	Total N Σ				
			C:N		23.13				
TOC Rating:	6	TN Rating:	2	C:N Ratio Rating:	4	Nutrient Retention Rating:	8.4	Cumulative rating Σ:	20.4
SNR Index/Subclass		15							
Base rating= SMR +SNR		81	(a)						
Limiting Factor Deductions									
TS (0-20cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	wmpl-wmsb/fr	0	5.09/5.25	0	0.14/0.10	0	<0.10/0.19	0	
Interium soil rating= (a)-(b)									81
US (20-50 cm)	wmsb-mfsb/fr-fi	8.5	2.25/5.69	0	0.10/0.08	0	0.19/0.26	0	
	Interium soil rating= (a)-(b)								
LS (50-100cm)	mfsb-ma/fi	24	5.69/6.82	0	0.08/0.26	0	0.26/0.31	0	
	Interium soil rating= (a)-(b)								

Final Land Rating= (a) - (b) - (d) - (e) 69.98

Land Capability class	2
Subclasses	D

Land Capability Rating System for Horse River (Brunisolic/Gleyed Variant) Series
Devon Pike Project
Source: Devon Data

Soil Moisture Regime (water table >100cm)							
<u>AHWC</u>							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Profile Σ							0
<u>Layering Modifiers</u>			Yes/No				
Impermeable layer:			No	--			
Coarse/Fine material stratification:			No	--			
Fine/Coarse material stratification:			No	--			
			Layering effect	--	(ii)		
					<u>Landscape Modifiers</u>		
					Aspect:		--
					Slope position:		--
					Landscape effect		--
							(iii)
Adjusted AWHC = (i) + (ii) + (iii) =			0	Soil moisture Regime		Hygric	
SMR Index/Subclass			66				

Soil Nutrient Regime							<u>Nutrient Retention Rating (0-50cm)</u>		
<u>Total C, N and C:N (0-20 cm)</u>									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	9	0.10	35.90	32.31	0.51	0.46			
Ae	9	1.45	0.27	3.52	0.02	0.26	LS	1	1
Bg	15	1.50	0.00	0.00	0.00	0.00	LS	1	2.7
Btj	26	1.5	0	0.00	0	0.00	L	3	0
			TOC Σ	35.83	Total N Σ	0.72			
			C:N	49.77					
TOC Rating:	4	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	3.7	Cumulative rating Σ:	11.7
SNR Index/Subclass		5F							
Base rating= SMR +SNR		71	(a)						
<u>Limiting Factor Deductions</u>									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)	sg-wfsb/lo-fr	0	4.98/6.21	6.8	0.07/0.04	0	0.2/0.3	0	
								4.83	(b)
								66.2	(c)
US (20-50 cm)	wfsb-mmsb/fr-sl.s	8.7	6.21/7.2	8.7	0.04/0.21	0	0.3/0.2	0	
								3.86	(d)
LS (50-100cm)	mmsb-ma/sl.st-n.s	19	7.2/7.8	23.5	0.21/0.18	0	0.2	0	
								5.13	(e)

Final Land Rating= (a) - (b) - (d) - (e) 57.18

Land Capability class 3
Subclasses FDV

Land Capability Rating System for Marguerite Series

Devon Pike Project

Source: DevonData

Soil Moisture Regime (water table >100cm)								
AHCW								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
Ae	S	15	0.8	12	0		12	
Bm	S	46	0.8	36.8	0		36.8	
C	S	49	0.8	39.2	0		39.2	
							Profile Σ	88 (i)
<u>Layering Modifiers</u>			Yes/No					
Impermeable layer:			No	--				
Coarse/Fine material stratification:			No	--				
Fine/Coarse material stratification:			No	--				
			Layering effect	-- (ii)				
<u>Landscape Modifiers</u>								
Aspect:			--					
Slope position:			--					
			Landscape effect	-- (iii)				
Adjusted AWHC = (i) + (ii) + (iii) =			88		Soil moisture Regime			Suberic
SMR Index/Subclass			38X					

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)				
Total C, N and C:N (0-20 cm)											
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average		
LF	3	0.10	39.80	11.94	0.03	0.01		0	0		
Ae	15	1.45	0.13	2.83	0.01	0.15	S	0	0		
Bm	35	1.50	0.00	0.00	0.00	0.00	S	0	0		
			TOC Σ	14.77	Total N Σ		0.16				
			C:N		91.58						
TOC Rating:	2		TN Rating:	2		C:N Ratio Rating:	2		Nutrient Retention Rating:	0	
SNR Index/Subclass		0F									
Base rating= SMR +SNR		38		(a)							
Limiting Factor Deductions											
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (%) deduction	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)			
TS (0-20cm)	Sl/lo	0	5.8/6.3	0	0.03/0.02	0	0.23/0.22	0			
								0	(b)		
								38	(c)		
US (20-50 cm)	sg/lo	0	6.3	0	0.02	0	0.22	0			
								0	(d)		
LS (50-100cm)	sg/lo	0	6.7	0	0.03	0	0.25	0			
								0.00	(e)		

Final Land Rating= (a) - (b) - (d) - (e) 38

Land Capability class 4

Subclasses XF

Land Capability Rating System for McLelland Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)								
AHCW								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
				0				
				0				
				0				
				0				
Profile Σ							0	(i)

Layering Modifiers	Yes/No						
Impermeable layer:	No		--				
Coarse/Fine material stratification:	No		--				
Fine/Coarse material stratification:	No		--				
		Layering effect	--	(ii)			

Landscape Modifiers							
Aspect:			--				
Slope position:			--				
Landscape effect			--	(iii)			

Adjusted AWHC = (i) + (ii) + (iii) =	0						
SMR Index/Subclass	0W						

Soil moisture Regime	Subhydric		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
Of	20	0.10	41.20	82.40	0.29	0.58		0	0
TOC Σ				82.40	Total N Σ		0.58		
				C:N	142.07				

TOC Rating:	6	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	0	Cumulative rating Σ:	10
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SNR Index/Subclass	5F						
Base rating= SMR +SNR	5	(a)					

Limiting Factor Deductions									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)	-	-	-	-	-	-	-	-	
								0	(b)
								5	(c)
US (20-50 cm)	-	-	-	-	-	-	-	-	
								0	(d)
LS (50-100cm)	-	-	-	-	-	-	-	-	
								0.00	(e)

Final Land Rating= (a) - (b) - (d) - (e) **5**

Land Capability class 5

Subclasses WF

Land Capability Rating System for McMurray Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)								
AHCW								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
				0				
				0				
				0				
				0				
Profile Σ							0	(i)
<u>Layering Modifiers</u>			Yes/No					
Impermeable layer:			No	--				
Coarse/Fine material stratification:			No	--				
Fine/Coarse material stratification:			No	--				
			Layering effect	--	(ii)			
					<u>Landscape Modifiers</u>			
					Aspect:		--	
					Slope position:		--	
					Landscape effect		--	(iii)
Adjusted AWHC = (i) + (ii) + (iii) =			0		Soil moisture Regime		Hygic	
SMR Index/Subclass			66					

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)				
Total C, N and C:N (0-20 cm)											
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average		
LFH	2	0.10	35.90	7.18	0.51	0.10		0	0		
C1	45	1.08	0.00	0.00	0.00	0.00	L	3	3		
C2	5	1.03	0.00	0.00	0.00	0.00	SL	2	2.83		
			TOC Σ		7.18						
			C:N		70.39						
TOC Rating:		2	TN Rating:		2	C:N Ratio Rating:		4	Nutrient Retention Rating:		5.83
SNR Index/Subclass		10		Cumulative rating Σ:		13.83					
Base rating= SMR +SNR		76		(a)							
Limiting Factor Deductions											
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)			
TS (0-20cm)	ma/ns	20	7.1	10	0.23	0	0.38	0			
								15.2	(b)		
								Interium soil rating= (a)-(b)		60.8	(c)
US (20-50 cm)	ma/ns	20	7.1/6.4	8.3	0.23/0.19	0	0.38/0.61	0			
								8.15	(d)		
LS (50-100cm)	ma/ns	20	6.4	0	0.19	0	0.61	0			
								4.01	(e)		

Final Land Rating= (a) - (b) - (d) - (e) 48.64

Land Capability class 3

Subclasses DV

Land Capability Rating System for Mildred Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Ae	S	15	0.8	12			12
Bm1	S	22	0.8	17.6			17.6
Bm2	LS	33	1.1	36.3			36.3
C	S	30	0.8	24			24
Profile Σ							89.9
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--	(iii)		
					Profile Σ		
					89.9		
					Soil moisture Regime		
					Suberic		
Adjusted AWHC = (i) + (ii) + (iii) =					89.9		
SMR Index/Subclass					38X		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	8	0.10	36.60	29.28	0.87	0.70		0	0
Ae	15	1.45	0.21	4.57	0.01	0.15	S	0	0
Bm1	22	1.50	0.00	0.00	0.00	0.00	S	0	0.43
Bm2	13	1.5	0	0.00	0	0.00	LS	1	0
			TOC Σ	33.85	Total N Σ	0.85			
			C:N	39.90					
TOC Rating:	4	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	0.43	Cumulative rating Σ:	8.43
SNR Index/Subclass		5F							
Base rating= SMR +SNR		43		(a)					
Limiting Factor Deductions									
TS (0-20cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	sg/lo	0	6.1/6.2	0	0.07/0.08	0	0.29/0.19	0	
								0	(b)
								43	(c)
Interium soil rating= (a)-(b)									
US (20-50 cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	sg/lo	0	6.2/6.6	0	0.08/0.07	0	0.19/0.18	0	
								0	(d)
LS (50-100cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	sg/lo	0	6.6/6.9	0	0	0	0.18/0.21	0	
								0.00	(e)

Final Land Rating= (a) - (b) - (d) - (e) 43

Land Capability class	3
Subclasses	XF

Land Capability Rating System for Moonshine-aa Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Profile Σ							0
<u>Layering Modifiers</u>			Yes/No				
Impermeable layer:			No	--			
Coarse/Fine material stratification:			No	--			
Fine/Coarse material stratification:			No	--			
			Layering effect	--	(ii)		
<u>Landscape Modifiers</u>							
Aspect:			--				
Slope position:			--				
			Landscape effect	--	(iii)		
Adjusted AWHC = (i) + (ii) + (iii) =			0		Soil moisture Regime		
SMR Index/Subclass			66		Hygric		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	8	0.10	31.60	25.28	0.17	0.14		0	0
Ae	10	1.40	0.64	8.96	0.02	0.28	SL	2	2
BA	18	1.50	0.00	0.00	0.00	0.00	SiCL	3	3
Btg	22	1.6	0	0.00	0	0.00	CL	3	0
TOC Σ				34.24	Total N Σ		0.42		
				C:N	82.31				
TOC Rating:	4	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	5	Cumulative rating Σ:	13
SNR Index/Subclass		10		(a)					
Base rating= SMR +SNR		76							
Limiting Factor Deductions									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)	wfpl-mmsb/fr	0	5.0/6.2	7.5	0.09/0.08	0	0.47/0.28	0	(b)
	Interium soil rating= (a)-(b)								
									(c)
US (20-50 cm)	mmsb/fr-fi	7.3	6.2/7.1	7.3	0.08/0.26	0	0.28/0.20	0	(d)
LS (50-100cm)	mmsb-ma/fi	23.2	7.1/7.8	19.9	0.26/0.29	0	0.20/0.21	0	(e)

Final Land Rating= (a) - (b) - (d) - (e) 62.24

Land Capability class 2

Subclasses DV

Land Capability Rating System for MRNzf Soil Series

Soil Moisture Regime (water table >100cm)								
AWHC								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
Of		50						
Om		30						
Ahg	SL	10						
Cg	SL	10						
Profile Σ							0	(i)

Layering Modifiers	Yes/No	---	---	Landscape Modifiers	---	---
Impermeable layer:	No		--	Aspect:		--
Coarse/Fine material stratification:	No		--	Slope position:		--
Fine/Coarse material stratification:	No		--	Landscape effect	0	(iii)
		Layering effect	0			
			(ii)			

Adjusted AWHC = (i) + (ii) + (iii) =	0	Soil moisture Regime	Subhydric
SMR Index/Subclass	W		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m3)	TOC (%)	TOC (Mg ha-1)	Total N (%)	Total N (Mg ha-1)	Texture	Rating	Weighted average
Of	20	0.10	35.30	70.60	0.40	0.80	Of		0
TOC Σ				70.60	Total N Σ		0.80		
				C:N	88.25				

TOC Rating:	6	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	0	Cumulative rating Σ:	10
SNR Index/Subclass	5	F							
Base rating= SMR +SNR	5	WF	(a)						

Limiting Factor Deductions									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m-1) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)									0.0
	Interior soil rating= (a)-(b)								5.0
US (20-50 cm)									0.0
									0.0
LS (50-100cm)	ss	5	6.79,7.47	2	0.168	0	0.18		0.0
									0.1

Land Capability Rating System for Muskeg Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)								
AHCW								
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC	
Profile Σ							0	
<u>Layering Modifiers</u>			Yes/No					
Impermeable layer:			No	--				
Coarse/Fine material stratification:			No	--				
Fine/Coarse material stratification:			No	--				
			Layering effect	--				
				(ii)				
<u>Landscape Modifiers</u>								
Aspect:			--					
Slope position:			--					
			Landscape effect	--				
				(iii)				
Adjusted AWHC = (i) + (ii) + (iii) =			0		Soil moisture Regime			Subhydic
SMR Index/Subclass			0W					

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
Of	20	0.20	43.80	175.20	0.45	1.80		0	0
TOC Σ				175.20	Total N Σ		1.80		
				C:N	97.33				
TOC Rating:	6	TN Rating:	4	C:N Ratio Rating:	2	Nutrient Retention Rating:	0	Cumulative rating Σ:	12
SNR Index/Subclass		5F							
Base rating= SMR +SNR		5		(a)					
Limiting Factor Deductions									
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
TS (0-20cm)	--	--	--	--	--	--	--	0	
								0	(b)
								0	(c)
US (20-50 cm)	--	--	--	--	--	--	--	0	
								0	(d)
LS (50-100cm)	--	--	--	--	--	--	--	0	
								0.00	(e)

Final Land Rating= (a) - (b) - (d) - (e) **5**

Land Capability class 5

Subclasses WF

Land Capability Rating System for Sutherland Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Ae	LS	15	1.1	16.5	40	6.6	9.9
Bm	LS	15	1.1	16.5	60	9.9	6.6
C	LS	16	1.1	17.6			17.6
IIC	SCL	54	1.5	81			81
Profile Σ							115.1
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--	(iii)		
					Profile Σ		
					115.1		
					Soil moisture Regime		
					Suberic		
Adjusted AWHC = (i) + (ii) + (iii) =					115.1		
SMR Index/Subclass					38X		

Soil Nutrient Regime							Nutrient Retention Rating (0-50cm)		
Total C, N and C:N (0-20 cm)									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	5	0.10	38.90	19.45	0.08	0.04		0	0
Ae	15	1.45	0.31	6.74	0.02	0.44	LS	1	1
Bm	15	1.50	0.25	5.63	0.03	0.59	LS	1	1.26
C	16	1.4	0	0.00	0	0.00	LS	1	0
IIC	4	1.4	0	0.00	0	0.00	SCL	3	0
TOC Σ				31.82	Total N Σ	1.06			
				C:N	30.02				
TOC Rating:	2	TN Rating:	2	C:N Ratio Rating:	4	Nutrient Retention Rating:	2.26	Cumulative rating Σ:	10.26
SNR Index/Subclass		5F							
Base rating= SMR +SNR		41		(a)					
Limiting Factor Deductions									
TS (0-20cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	sg/lo	0	4.28/5.22	11.25	0.08/0.07	0	0.21/0.19	0	
									4.61
									36.39
Interium soil rating= (a)-(b)									
US (20-50 cm)	sg-ma/lo-fi	2.4	5.22/5.65	0	0.07	0	0.19/0.17	0	(d)
									0.49
LS (50-100cm)	ma/fi	20	5.65/6.38	0	0.07/0.27	0	0.17/0.18	0	(e)
									2.40

Final Land Rating= (a) - (b) - (d) - (e) 33.5

Land Capability class	4
Subclasses	XFDV

Land Capability Rating System for Sutherland Series (Gleyed Variant)

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
<u>AHWC</u>							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
				0			
				0			
				0			
				0			
Profile Σ							0
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--			
Adjusted AWHC = (i) + (ii) + (iii) =			0	Soil moisture Regime			Subhygric
SMR Index/Subclass			80				

Soil Nutrient Regime							<u>Nutrient Retention Rating (0-50cm)</u>		
<u>Total C, N and C:N (0-20 cm)</u>									
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average
LFH	7	0.10	12.20	8.54	0.02	0.01		0	0
Ae	9	1.45	0.36	4.70	0.06	0.73	S	0	0
Bm	16	1.50	0.26	6.24	0.03	0.62	S	0	0
C	25	1.5	0	0.00	0.03	1.13	S	0	0
TOC Σ				19.48	Total N Σ		4.00		
				C:N	4.87				
TOC Rating:	2	TN Rating:	2	C:N Ratio Rating:	6	Nutrient Retention Rating:	0	Cumulative rating Σ:	10
SNR Index/Subclass		5F							
Base rating= SMR +SNR		86	(a)						
<u>Limiting Factor Deductions</u>									
TS (0-20cm)	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)	
	sg/lo	0	4.11/5.02	26.25	0.12/0.04	0	1.51/0.17	0	
								22.58	(b)
								63.42	(c)
Interium soil rating= (a)-(b)									
US (20-50 cm)	sg/lo	0	5.02/5.73	0	0.04/0.06	0	0.17/0.20	0	0
								0	(d)
LS (50-100cm)	sg-ma/lo-sl.st	19.2	5.73/5.96	0	0.06	0	0.20/0.25	0	4.02
								4.02	(e)

Final Land Rating= (a) - (b) - (d) - (e) 59.4

Land Capability class 3
Subclasses FDV

Land Capability Rating System for Winefred Series

Devon Pike Project

Source: Devon Data

Soil Moisture Regime (water table >100cm)							
AHCW							
Horizon	Texture	Horizon Thickness	Multiplier	AWHC	%CF's (Vol)	%CF's (mm)	Adjusted AWHC
Ae	LS	15	1.1	16.5			16.5
Bm	SL	16	1.4	22.4			22.4
IIbt	SCL	25	1.5	37.5			37.5
C	CL	44	1.7	74.8			74.8
Profile Σ							151.2
<u>Layering Modifiers</u>			Yes/No		<u>Landscape Modifiers</u>		
Impermeable layer:			No	--	Aspect:		
Coarse/Fine material stratification:			No	--	Slope position:		
Fine/Coarse material stratification:			No	--	Landscape effect		
			Layering effect	--	(iii)		
Adjusted AWHC = (i) + (ii) + (iii) =				151.2	Soil moisture Regime		
SMR Index/Subclass				66	Mesic		

Soil Nutrient Regime						Nutrient Retention Rating (0-50cm)				
Total C, N and C:N (0-20 cm)										
Horizon	Depth (cm)	Bulk density (Mg m ³)	TOC (%)	TOC (Mg ha ⁻¹)	Total N (%)	Total N (Mg ha ⁻¹)	Texture	Rating	Weighted average	
LFH	10	0.10	35.50	35.50	0.06	0.06		0	0	
Ae	15	1.45	0.18	3.92	0.03	0.65	LS	1	1.25	
Bm	16	1.45	0.14	3.25	0.01	0.23	SL	2	2.63	
IIbt	19	1.6	0	0.00	0	0.00	SCL	3	0	
TOC Σ				42.66	Total N Σ		0.94			
				C:N	45.17					
TOC Rating:	4	TN Rating:	2	C:N Ratio Rating:	2	Nutrient Retention Rating:	3.88	Cumulative rating Σ:	11.88	
SNR Index/Subclass		5F		(a)						
Base rating= SMR +SNR		71								
Limiting Factor Deductions										
	Structure/ Consistence (value)	Structure/ Consistence (% deduction)	pH (value)	pH (% deduction)	EC (dS m ⁻¹) (value)	EC (dS m-1) (% deduction)	SAR (value)	SAR (% deduction)		
TS (0-20cm)	sg/lo	0	4.46/4.93	15	0.06/0.05	0	0.15/0.23	0	(b)	
										10.65
US (20-50 cm)	Interium soil rating= (a)-(b)								60.35	(c)
	sg-mmsb/lo-fi	6.6	4.93/5.06	5.5	0.05/0.04	0	0.23/0.32	0	2.67	(d)
LS (50-100cm)									0	(e)
	mmsb-ma-fi	27.6	5.06/6.77	0	0.04/0.06	0	0.32/0.12	0	5.50	

Final Land Rating= (a) - (b) - (d) - (e) 52.18

Land Capability class 3

Subclasses FDV

Appendix G6

Baseline Soil Laboratory Data

ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11278	10-11278-D	10-11279	10-11280	10-11280-D
					Client ID:	CB14-LFH	CB14-LFH	CB14-LFH-BD	CB14-Ae	CB14-Ae
					Sample Date:	2010-08-20 00:00	Lab Duplicate	2010-08-20 00:00	2010-08-20 00:00	Lab Duplicate
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	---	6.84	6.93
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	---	---	0.093	0.085
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	---	---	0.32	0.32
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	---	---	0.17	0.17
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	---	---	0.06	0.06
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	---	---	0.11	0.11
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	---	---	< 1.0	< 1.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	---	---	0.18	0.17
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	---	---	0.25	0.25
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	---	---	35.7	33.1
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	---	---	2.30	2.13
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	---	0.73	0.68
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	---	---	0.80	0.74
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	---	---	0.89	0.80
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	---	---	2.25	2.00
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	---	---	4.29	3.98
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	---	---	13.7	10.9
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	---	---	6.5	6.4
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	---	---	2.05	2.06
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	---	---	2.23	2.24
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	---	---	2.49	2.42
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	---	---	6.32	6.07
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	---	---	12.0	12.1
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	---	---	38.5	33.0
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	---	0.22	0.21

All Analytical results pertain to samples analyzed as received.
 McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.
 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

** All samples will be disposed of after 30 days following analysis. Please contact the lab if you require additional sample storage time. (Samples deemed hazardous will be returned to the client at their own expense or disposal will be arranged.) **

ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263


Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11281	10-11282	10-11282-D	10-11283	10-11284
					Client ID:	CB14-Ae-BD	CB14-Bt	CB14-Bt	CB14-Bt-BD	CB14-BC
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	Lab Duplicate	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	7.11	---	---	7.70
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.090	---	---	0.324
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.32	---	---	1.71
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.21	---	---	1.25
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.04	---	---	0.08
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.23	---	---	0.42
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	1.5	---	---	4.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.10	---	---	0.11
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.20	---	---	0.19
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	75.3	---	---	86.3
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	4.79	---	---	29.5
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	1.90	---	---	13.1
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	1.25	---	---	2.77
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	4.03	---	---	8.31
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	2.69	---	---	3.24
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	7.21	---	---	8.00
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	68.6	---	---	212
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	6.4	---	---	34.2
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	2.52	---	---	15.1
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	1.66	---	---	3.21
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	5.35	---	---	9.63
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	3.57	---	---	3.75
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	9.58	---	---	9.27
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	91.0	---	---	245
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.45	---	---	0.35

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11285	10-11286	10-11287	10-11288	10-11288-D
					Client ID:	CB14-CK	CB15-8m	CB22-Of	CB22-0m	CB22-0m
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					Lab Duplicate
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.83	6.30	---	---	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.319	0.043	---	---	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	1.59	0.12	---	---	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	1.10	0.07	---	---	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.05	0.06	---	---	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.41	0.06	---	---	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	3.0	< 1.0	---	---	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.56	0.07	---	---	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.36	0.12	---	---	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	62.1	36.9	---	---	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	19.8	0.92	---	---	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	8.26	0.31	---	---	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	1.23	0.90	---	---	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	5.78	0.47	---	---	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	12.3	0.92	---	---	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	10.7	2.18	---	---	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	113	11.5	---	---	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	32.0	2.5	---	---	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	13.3	0.84	---	---	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	1.98	2.44	---	---	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	9.31	1.26	---	---	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	19.8	2.49	---	---	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	17.2	5.91	---	---	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	183	31.3	---	---	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.35	0.18	---	---	---

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 McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.
 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

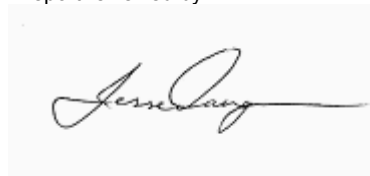
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11289	10-11290	10-11291	10-11292	10-11293
					Client ID:	CB26-Bm	BK23-LFH	BK23-LFH-BD	BK23-Ae	BK23-Ae-BD
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.16	---	---	6.71	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.043	---	---	0.186	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.14	---	---	1.43	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.07	---	---	0.52	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.04	---	---	0.08	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.07	---	---	0.09	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	< 1.0	---	---	1.6	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.06	---	---	0.17	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.10	---	---	0.23	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	31.4	---	---	31.3	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	0.90	---	---	8.98	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	0.28	---	---	1.98	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.48	---	---	0.98	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	0.49	---	---	0.68	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	0.72	---	---	1.90	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	1.52	---	---	3.41	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	10.4	---	---	30.3	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	2.9	---	---	28.7	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	0.89	---	---	6.33	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	1.54	---	---	3.13	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	1.55	---	---	2.16	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	2.29	---	---	6.06	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	4.85	---	---	10.9	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	33.0	---	---	96.8	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.21	---	---	< 0.10	---

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11294	10-11295	10-11296	10-11297	10-11298
					Client ID:	BK23-BA	BK23-Bt	BK23-CK	BK21-LFH-BD	BK-21-Ae
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.97	7.37	7.82	---	4.98
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.335	0.447	0.360	---	0.073
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	2.65	2.92	2.15	---	0.21
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.86	1.55	1.76	---	0.20
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.10	0.06	0.03	---	0.06
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.14	0.27	0.32	---	0.10
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	3.6	4.5	3.7	---	1.3
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.13	0.14	0.14	---	0.11
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.19	0.24	0.38	---	0.14
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	32.1	66.3	48.3	---	34.7
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	17.1	38.8	20.8	---	1.45
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	3.36	12.5	10.3	---	0.83
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	1.20	1.45	0.55	---	0.85
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	1.07	4.13	3.49	---	0.80
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	1.50	3.37	2.36	---	1.30
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	2.89	7.49	8.89	---	2.36
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	70.3	183	108	---	27.9
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	53.1	58.6	43.2	---	4.2
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	10.5	18.8	21.4	---	2.38
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	3.75	2.18	1.14	---	2.45
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	3.32	6.24	7.24	---	2.29
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	4.67	5.09	4.88	---	3.75
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	9.00	11.3	18.4	---	6.80
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	219	276	225	---	80.3
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.11	0.18	0.23	---	0.22

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Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11299	10-11300	10-11301	10-11302	10-11303
					Client ID:	BK21-Ae-BD	BK21-BMg	BK21-BMg-BD	BK-21-Btj	BK21-C
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	6.21	---	7.24	7.79
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.038	---	0.205	0.178
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.12	---	0.98	0.97
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.07	---	0.71	0.58
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.02	---	0.03	0.03
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.09	---	0.19	0.16
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	< 1.0	---	2.5	2.4
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.07	---	0.09	0.10
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.13	---	0.12	0.12
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	24.5	---	43.0	32.6
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	0.58	---	8.46	6.32
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	0.21	---	3.70	2.29
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	0.23	---	0.50	0.36
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	0.52	---	1.89	1.20
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	0.65	---	1.40	1.16
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	1.55	---	2.40	1.87
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	8.9	---	65.4	47.7
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	2.4	---	19.7	19.4
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	0.84	---	8.59	7.04
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	0.94	---	1.17	1.11
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	2.13	---	4.38	3.67
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	2.63	---	3.24	3.56
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	6.31	---	5.57	5.74
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	36.3	---	152	146
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.30	---	0.21	0.18

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Report reviewed by:



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 Laboratory Services



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

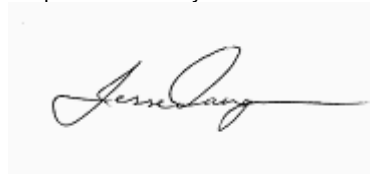
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11304	10-11305	10-11305-D	10-11306	10-11307
					Client ID:	BK26-Bm	BK43-Bm	BK43-Bm	BK37-Of	C835-LFH
					Sample Date:	2010-08-20 00:00	2010-08-21 00:00	Lab Duplicate	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.63	6.31	6.38	---	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.046	0.050	0.050	---	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.12	0.19	0.17	---	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.07	0.09	0.08	---	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.04	0.06	0.05	---	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.07	0.08	0.08	---	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	< 1.0	< 1.0	< 1.0	---	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.08	0.09	0.09	---	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.19	0.13	0.13	---	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	23.5	27.4	28.2	---	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	0.54	1.02	0.95	---	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	0.19	0.32	0.27	---	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.39	0.61	0.60	---	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	0.40	0.48	0.53	---	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	0.66	0.89	0.87	---	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	2.15	1.70	1.74	---	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	13.5	16.0	11.1	---	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	2.3	3.7	3.4	---	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	0.81	1.15	0.96	---	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	1.67	2.21	2.12	---	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	1.69	1.76	1.89	---	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	2.80	3.25	3.09	---	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	9.15	6.21	6.16	---	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	57.4	58.5	39.3	---	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.24	0.21	0.23	---	---

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 MDL - Method Detection Limit

Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11308	10-11309	10-11310	10-11311	10-11312
					Client ID:	CB35-LFH-BD	CB35-Ae	CB35-Ae-BD	CB35-Bm1	CB35-Bm1-BD
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	6.07	---	6.18	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.071	---	0.080	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.29	---	0.32	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.14	---	0.11	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.10	---	0.07	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.13	---	0.09	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	< 1.0	---	< 1.0	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.12	---	0.23	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.23	---	0.29	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	23.1	---	22.7	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	1.32	---	1.43	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	0.39	---	0.31	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	0.93	---	0.59	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	0.69	---	0.46	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	0.98	---	1.82	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	2.53	---	3.19	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	10.6	---	6.0	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	5.7	---	6.3	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	1.67	---	1.38	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	4.02	---	2.60	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	3.01	---	2.04	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	4.24	---	8.00	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	11.0	---	14.0	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	45.9	---	26.2	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.29	---	0.19	---

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 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

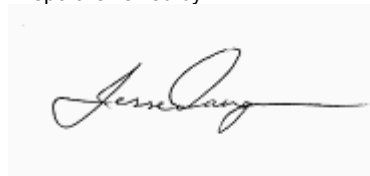
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11313	10-11314	10-11315	10-11316	10-11317
					Client ID:	CB35-C	CB34-Of	CB34-0m	CB34-Bgj	CB34-IlCg
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.87	---	---	6.83	7.22
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.070	---	---	0.121	0.148
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.28	---	---	1.09	0.87
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.12	---	---	0.49	0.39
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.07	---	---	0.03	0.04
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.09	---	---	0.12	0.14
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	< 1.0	---	---	1.4	1.2
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.08	---	---	0.12	0.21
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.22	---	---	0.17	0.22
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	22.1	---	---	33.5	34.3
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	1.22	---	---	7.33	6.00
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	0.32	---	---	1.98	1.61
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.65	---	---	0.35	0.48
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	0.46	---	---	0.92	1.11
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	0.61	---	---	1.38	2.60
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	2.36	---	---	2.68	3.65
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	9.2	---	---	29.4	24.8
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	5.5	---	---	21.9	17.5
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	1.45	---	---	5.93	4.69
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	2.92	---	---	1.03	1.40
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	2.09	---	---	2.74	3.24
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	2.76	---	---	4.12	7.57
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	10.7	---	---	8.01	10.6
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	41.4	---	---	87.9	72.3
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.21	---	---	0.13	0.18

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Report reviewed by:



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 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

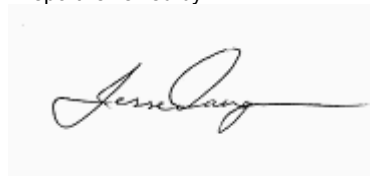
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11318	10-11319	10-11320	10-11321	10-11322
					Client ID:	BK44-LFH	BK44-LFH-BD	BK44-Ae	BK44-Ae-BD	BK44-BA
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	---	5.02	---	6.15
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	---	0.088	---	0.078
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	---	0.25	---	0.32
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	---	0.12	---	0.16
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	---	0.08	---	0.05
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	---	0.20	---	0.14
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	---	< 1.0	---	< 1.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	---	0.17	---	0.11
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	---	0.31	---	0.19
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	---	29.7	---	41.4
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	---	1.50	---	2.67
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	---	0.44	---	0.82
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	---	0.95	---	0.74
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	---	1.39	---	1.29
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	---	1.77	---	1.64
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	---	4.42	---	3.73
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	---	10.5	---	14.5
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	---	5.1	---	6.4
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	---	1.47	---	1.98
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	---	3.21	---	1.79
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	---	4.69	---	3.12
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	---	5.96	---	3.95
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	---	14.9	---	9.02
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	---	35.3	---	35.1
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	---	0.47	---	0.28

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Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

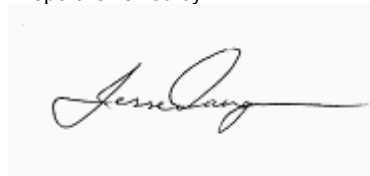
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11323	10-11324	10-11325	10-11326	10-11327
					Client ID:	BK44-Btg	BK44-Ckg	CB40-LF	CB40-LF-BD	CB40-Ae
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.14	7.77	---	---	5.79
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.255	0.288	---	---	0.026
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	1.53	1.82	---	---	0.05
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.77	0.79	---	---	0.03
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.02	0.03	---	---	0.03
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.22	0.24	---	---	0.05
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	2.8	2.7	---	---	< 1.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.15	0.22	---	---	0.06
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.21	0.36	---	---	0.09
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	49.8	38.5	---	---	29.5
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	15.3	14.1	---	---	0.32
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	4.68	3.67	---	---	0.12
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.47	0.52	---	---	0.37
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	2.47	2.14	---	---	0.33
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	2.65	3.01	---	---	0.62
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	4.96	6.58	---	---	1.29
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	85.2	62.7	---	---	9.7
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	30.7	36.5	---	---	1.1
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	9.40	9.54	---	---	0.41
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	0.93	1.36	---	---	1.25
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	4.96	5.56	---	---	1.13
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	5.32	7.83	---	---	2.10
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	9.95	17.1	---	---	4.36
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	171	163	---	---	32.7
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.20	0.21	---	---	0.23

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MDL - Method Detection Limit

Report reviewed by:



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 Manager
 Laboratory Services



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263


Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11328	10-11329	10-11330	10-11331	10-11332
					Client ID:	CB40-Ae-BD	CB40-Bm	CB40-Bm-BD	CB40-C	CB41-Of1
					Sample Date:	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	6.27	---	6.66	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.022	---	0.031	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.04	---	0.07	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.03	---	0.04	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.02	---	0.02	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.04	---	0.06	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	< 1.0	---	< 1.0	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.06	---	0.08	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.07	---	0.12	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	28.9	---	25.1	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	0.26	---	0.36	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	< 0.10	---	0.13	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	0.18	---	0.17	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	0.28	---	0.34	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	0.65	---	0.68	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	1.01	---	1.40	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	8.7	---	6.8	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	0.9	---	1.4	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	0.32	---	0.50	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	0.61	---	0.67	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	0.96	---	1.36	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	2.24	---	2.70	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	3.49	---	5.59	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	30.2	---	27.1	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.22	---	0.25	---

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Date Received: 8/30/2010
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Soil Analysis

Attention: Laser, Oliver

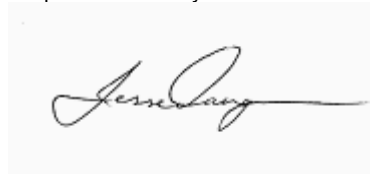
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11333	10-11334	10-11335	10-11336	10-11337
					Client ID:	C841-Of2	C850-Bm1	C871-C1	C871-C2	C858-LF
					Sample Date:	2010-08-22 00:00	2010-08-23 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	6.33	7.13	6.39	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.057	0.258	0.192	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.13	1.22	0.72	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.09	0.83	0.38	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.04	0.03	0.03	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.16	0.38	0.45	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	< 1.0	2.2	< 1.0	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.15	0.15	0.15	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.21	0.39	0.90	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	21.2	123	61.4	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	0.56	30.2	8.86	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	0.22	12.5	2.82	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	0.29	1.25	0.77	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	0.76	10.9	6.40	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	1.12	6.52	3.28	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	2.09	23.1	26.4	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	5.8	168	37.1	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	2.6	24.5	14.4	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	1.04	10.1	4.59	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	1.38	1.01	1.26	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	3.58	8.83	10.4	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	5.28	5.28	5.34	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	9.85	18.7	43.0	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	27.4	136	60.5	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.47	0.38	0.61	---

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 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

** All samples will be disposed of after 30 days following analysis. Please contact the lab if you require additional sample storage time. (Samples deemed hazardous will be returned to the client at their own expense or disposal will be arranged.) **

ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

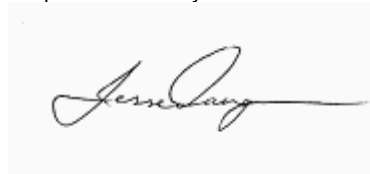
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11338	10-11339	10-11340	10-11341	10-11342
					Client ID:	CB58-LF-BD	CB58-Ae	CB58-Ae-BD	CB58-Bm1	CB58-Bm1-BD
					Sample Date:	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	6.17	---	6.54	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.093	---	0.034	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	---	0.22	---	0.08	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	---	0.10	---	0.05	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	---	0.09	---	0.03	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	---	0.23	---	0.05	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	---	< 1.0	---	< 1.0	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	---	0.22	---	0.07	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	---	0.21	---	0.14	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	---	23.1	---	28.8	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	---	1.04	---	0.46	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	---	0.27	---	0.18	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	---	0.78	---	0.37	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	---	1.23	---	0.35	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	---	1.83	---	0.73	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	---	2.28	---	1.90	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	8.5	---	8.6	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	---	4.5	---	1.6	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	---	1.19	---	0.61	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	---	3.38	---	1.28	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	---	5.33	---	1.23	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	---	7.92	---	2.52	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	---	9.86	---	6.59	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	36.6	---	30.0	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	0.58	---	0.21	---

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 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11343	10-11344	10-11345	10-11346	10-11347
					Client ID:	CB58-Bm2	CB58-C	BK82-Of	BK82-Oh	BK82-LFH-BD
					Sample Date:	2010-08-24 00:00	2010-08-24 00:00	2010-08-23 00:00	2010-08-23 00:00	2010-08-23 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.93	6.59	---	---	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.061	0.020	---	---	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.15	0.04	---	---	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.10	0.02	---	---	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.04	0.02	---	---	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.14	0.04	---	---	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	< 1.0	< 1.0	---	---	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.17	0.03	---	---	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.24	0.07	---	---	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	22.2	24.3	---	---	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	0.67	0.19	---	---	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	0.26	< 0.10	---	---	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.34	0.18	---	---	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	0.70	0.24	---	---	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	1.33	0.30	---	---	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	2.59	0.86	---	---	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	9.3	5.0	---	---	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	3.0	0.8	---	---	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	1.16	0.26	---	---	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	1.55	0.73	---	---	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	3.13	0.97	---	---	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	5.98	1.22	---	---	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	11.6	3.52	---	---	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	41.6	20.4	---	---	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.39	0.24	---	---	---

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 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

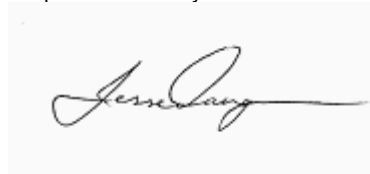
Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11348	10-11349	10-11350	10-11351	10-11352
					Client ID:	BK82-Ahe	BK82-Ahe-BD	BK82-Cg	Bk12-Of/Om	Bk12-Oh
					Sample Date:	2010-08-23 00:00	2010-08-23 00:00	2010-08-23 00:00	2010-08-19 00:00	2010-08-19 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.46	---	7.72	---	---
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.127	---	0.326	---	---
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.66	---	2.13	---	---
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.36	---	1.11	---	---
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.02	---	0.04	---	---
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.13	---	0.22	---	---
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	1.2	---	3.4	---	---
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.08	---	0.13	---	---
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.16	---	0.21	---	---
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	47.7	---	42.0	---	---
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	6.34	---	17.9	---	---
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	2.07	---	5.69	---	---
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.39	---	0.58	---	---
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	1.45	---	2.16	---	---
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	1.41	---	1.90	---	---
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	3.76	---	4.26	---	---
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	35.1	---	86.5	---	---
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	13.3	---	42.7	---	---
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	4.34	---	13.5	---	---
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	0.82	---	1.39	---	---
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	3.03	---	5.15	---	---
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	2.95	---	4.52	---	---
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	7.88	---	10.1	---	---
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	73.6	---	206	---	---
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.19	---	0.18	---	---

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11353	10-11354	10-11355	10-11509	10-11510
					Client ID:	BK12-Cg	BK64-Of	BK64-Cg	C822-Cg	C835-Bm2
					Sample Date:	2010-08-19 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.87	---	7.35	6.76	6.57
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.538	---	0.204	0.160	0.066
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	3.04	---	1.26	0.88	0.41
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	1.96	---	0.64	0.40	0.10
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.21	---	0.03	0.03	0.09
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.31	---	0.20	0.24	0.09
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	2.5	---	1.9	< 1.0	< 1.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.10	---	0.16	0.10	0.13
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	2.94	---	0.17	0.98	0.14
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	31.3	---	41.1	30.7	21.6
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	19.0	---	10.4	5.39	1.77
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	7.46	---	3.19	1.50	0.25
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	2.58	---	0.49	0.36	0.75
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	2.25	---	1.86	1.70	0.43
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	1.11	---	2.29	1.13	1.00
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	44.1	---	3.29	14.4	1.40
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	47.7	---	48.2	11.9	5.0
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	60.8	---	25.2	17.5	8.2
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	23.8	---	7.78	4.87	1.18
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	8.24	---	1.19	1.18	3.47
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	7.18	---	4.52	5.54	1.99
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	3.56	---	5.58	3.68	4.63
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	141	---	8.01	47.0	6.48
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	153	---	117	38.8	23.3
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.20	---	0.20	0.30	0.17

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver


Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11510-D
					Client ID:	C835-Bm2
					Sample Date:	Lab Duplicate
					MDL	
RC	2010/09/10	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.63
RC	2010/09/10	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.068
LL	2010/09/15	Calcium	meq/L	McKeague 3.21	0.01	0.41
LL	2010/09/15	Magnesium	meq/L	McKeague 3.21	0.01	0.10
LL	2010/09/15	Potassium	meq/L	McKeague 3.21	0.01	0.09
LL	2010/09/15	Sodium	meq/L	McKeague 3.21	0.01	0.09
RC	2010/09/13	Bicarbonate	meq/L	McKeague 3.21	1.0	< 1.0
JL	2010/09/10	Chloride	meq/L	McKeague 3.21	0.01	0.12
JL	2010/09/10	Sulphate	meq/L	McKeague 3.21	0.01	0.13
RC	2010/09/09	Saturation	%	McKeague 3.21	0.1	22.4
LL	2010/09/15	Calcium	µg/g (ppm)	Calculation	0.10	1.84
LL	2010/09/15	Magnesium	µg/g (ppm)	Calculation	0.10	0.26
LL	2010/09/15	Potassium	µg/g (ppm)	Calculation	0.10	0.78
LL	2010/09/15	Sodium	µg/g (ppm)	Calculation	0.10	0.47
LL	2010/09/15	Chloride	µg/g (ppm)	Calculation	0.10	0.97
LL	2010/09/15	Sulphate	µg/g (ppm)	Calculation	0.10	1.43
LL	2010/09/15	Bicarbonate	µg/g (ppm)	Calculation	0.1	5.9
LL	2010/09/15	Calcium	mg/L (ppm)	Calculation	0.1	8.2
LL	2010/09/15	Magnesium	mg/L (ppm)	Calculation	0.10	1.18
LL	2010/09/15	Potassium	mg/L (ppm)	Calculation	0.10	3.47
LL	2010/09/15	Sodium	mg/L (ppm)	Calculation	0.10	2.08
LL	2010/09/15	Chloride	mg/L (ppm)	Calculation	0.10	4.35
LL	2010/09/15	Sulphate	mg/L (ppm)	Calculation	0.10	6.41
LL	2010/09/15	Bicarbonate	mg/L (ppm)	Calculation	0.1	26.5
LL	2010/09/15	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.18

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11278	10-11278-D	10-11279	10-11280	10-11280-D
					Client ID:	CB14-LFH	CB14-LFH	CB14-LFH-BD	CB14-Ae	CB14-Ae
					Sample Date:	2010-08-20 00:00	Lab Duplicate	2010-08-20 00:00	2010-08-20 00:00	Lab Duplicate
MDL										
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	77.4	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	** 6.01	** 6.00	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	1370	1740	---	349	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	< 0.5	< 0.5
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	2.6	2.6
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	61.4	66.0
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	6.7	5.8
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	---	---	50	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	---	---	30	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	---	---	20	---

****Sample extraction ratio increased to 1:20 for pH analysis due to sample matrix.

***Sample extraction ratio increased to 1:10 for pH analysis due to sample matrix.

**Sample extraction ratio increased to 1:6 for pH analysis due to sample matrix.

*Sample extraction ratio increased to 1:2 for pH analysis due to sample matrix.

All Analytical results pertain to samples analyzed as received.

APHA: Standard Method for the Examination of Water and Wastewater, 2005. 21st Ed. American Public Health Association.

Carter: Carter, Martin R., 1993. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

Kelowna Modified Method - Ashworth, Mrazek - Commun. Soil Sci. Plant Anal., 26 (5&6), 731-739 (1995)

Levesque and Dinel - Adapted from Levesque and Dinel, Can. J. Soil Sci. 57 (1977), pp. 187-195

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11281	10-11282	10-11282-D	10-11283	10-11284
					Client ID:	CB14-Ae-BD	CB14-Bt	CB14-Bt	CB14-Bt-BD	CB14-BC
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	Lab Duplicate	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	169	---	---	177	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	8	8	---	2
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	14	14	---	20
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	78	78	---	78

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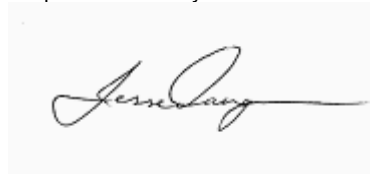
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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11285	10-11286	10-11287	10-11288	10-11288-D
					Client ID:	CB14-CK	CB15-8m	CB22-Of	CB22-0m	CB22-0m
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					Lab Duplicate
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	60.7	25.5	26.6
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	*** 5.88	*** 6.05	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	5490	1540	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	16	96	---	---	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	26	2	---	---	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	58	2	---	---	---

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Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11289	10-11290	10-11291	10-11292	10-11293
					Client ID:	CB26-Bm	BK23-LFH	BK23-LFH-BD	BK23-Ae	BK23-Ae-BD
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	8.08	---	95.2
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	*** 6.19	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	10800	---	297	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	< 0.5	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	1.6	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	41.4	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	6.4	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	94	---	---	54	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	2	---	---	34	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	4	---	---	12	---

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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11294	10-11295	10-11296	10-11297	10-11298
					Client ID:	BK23-BA	BK23-Bt	BK23-CK	BK21-LFH-BD	BK-21-Ae
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	43.4	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	---	185
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	< 0.5
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	4.8
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	19.6
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	5.2
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	46	22	8	---	80
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	32	24	68	---	18
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	22	54	24	---	2

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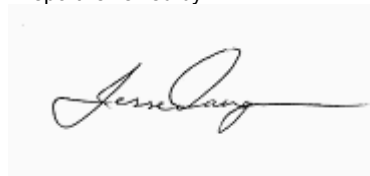
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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11299	10-11300	10-11301	10-11302	10-11303
					Client ID:	BK21-Ae-BD	BK21-BMg	BK21-BMg-BD	BK-21-Btj	BK21-C
					Sample Date:	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00	2010-08-20 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	141	---	163	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	78	---	46	56
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	18	---	30	24
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	4	---	24	20

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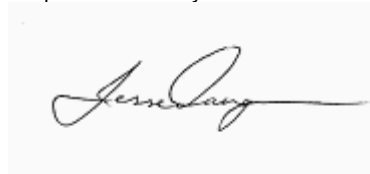
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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11304	10-11305	10-11305-D	10-11306	10-11307
					Client ID:	BK26-Bm	BK43-Bm	BK43-Bm	BK-37-Of	C835-LFH
					Sample Date:	2010-08-20 00:00	2010-08-21 00:00	Lab Duplicate	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	65.1	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	**** 6.14	**** 5.19
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	3070	8680
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	91	95	---	---	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	4	2	---	---	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	5	3	---	---	---

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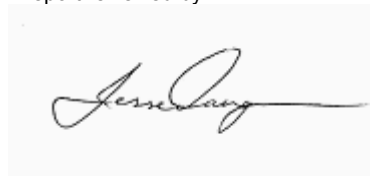
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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11308	10-11309	10-11310	10-11311	10-11312
					Client ID:	CB35-LFH-BD	CB35-Ae	CB35-Ae-BD	CB35-Bm1	CB35-Bm1-BD
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	148	---	180	---	216
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	74.1	---	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	< 0.5	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	3.6	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	21.4	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	5.0	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	87	---	89	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	10	---	4	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	3	---	7	---

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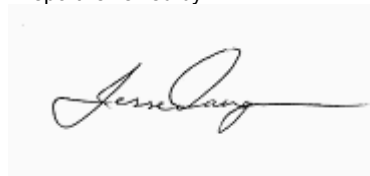
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Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11313	10-11314	10-11315	10-11316	10-11317
					Client ID:	CB35-C	CB34-Of	CB34-0m	CB34-Bgj	CB34-11Cg
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	55.1	58.7	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	*** 4.54	*** 6.39	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	3730	3680	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	87	---	---	87	53
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	6	---	---	8	42
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	7	---	---	5	5

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ANALYTICAL REPORT

AMEC Earth & Environmental
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 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11318	10-11319	10-11320	10-11321	10-11322
					Client ID:	BK44-LFH	BK44-LFH-BD	BK44-Ae	BK44-Ae-BD	BK44-BA
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	18.2	---	147	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	*** 3.70	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	1690	---	207	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	< 0.5	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	3.4	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	23.4	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	8.3	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	---	65	---	9
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	---	28	---	54
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	---	7	---	37

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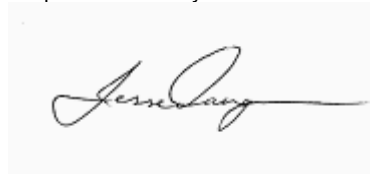
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Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11323	10-11324	10-11325	10-11326	10-11327
					Client ID:	BK44-Btg	BK44-Ckg	CB40-LF	CB40-LF-BD	CB40-Ae
					Sample Date:	2010-08-21 00:00	2010-08-21 00:00	2010-08-21 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	21.2	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	** 4.03	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	261	---	71.8
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	< 0.5
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	2.3
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	8.7
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	4.0
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	27	47	---	---	95
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	42	26	---	---	4
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	31	27	---	---	1

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Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11328	10-11329	10-11330	10-11331	10-11332
					Client ID:	CB40-Ae-BD	CB40-Bm	CB40-Bm-BD	CB40-C	CB41-Of1
					Sample Date:	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	188	---	191	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	79.6
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	**** 5.35
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	---	4540
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	97	---	93	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	< 1	---	4	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	3	---	3	---

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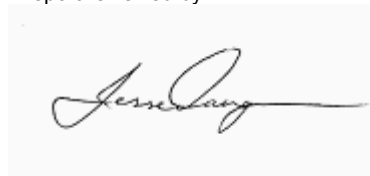
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Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11333	10-11334	10-11335	10-11336	10-11337
					Client ID:	CB41-Of2	CB50-Bm1	CB71-C1	CB71-C2	CB58-LF
					Sample Date:	2010-08-22 00:00	2010-08-23 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	57.1	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	*** 5.63	---	---	---	** 4.02
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	---	---	116
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	86	46	54	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	6	42	30	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	8	12	16	---

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Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11338	10-11339	10-11340	10-11341	10-11342
					Client ID:	CB58-LF-BD	CB58-Ae	CB58-Ae-BD	CB58-Bm1	CB58-Bm1-BD
					Sample Date:	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00	2010-08-24 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	45.5	---	203	---	187
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	94.0	---	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	< 0.5	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	3.5	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	11.2	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	5.0	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	---	92	---	95	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	---	7	---	2	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	---	1	---	2	---

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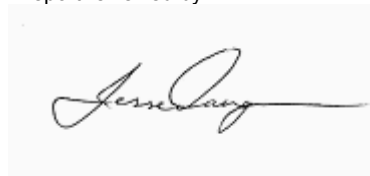
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Soil Analysis

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File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11343	10-11344	10-11345	10-11346	10-11347
					Client ID:	CB58-Bm2	CB58-C	BK82-Of	BK82-Oh	BK82-LFH-BD
					Sample Date:	2010-08-24 00:00	2010-08-24 00:00	2010-08-23 00:00	2010-08-23 00:00	2010-08-23 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	110
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	82.9	59.4	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	*** 3.61	* 7.10	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	582	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	96	98	---	---	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	1	< 1	---	---	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	3	2	---	---	---

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Date Received: 8/30/2010
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Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11348	10-11349	10-11350	10-11351	10-11352
					Client ID:	BK82-Ahe	BK82-Ahe-BD	BK82-Cg	Bk12-Of/Om	Bk12-Oh
					Sample Date:	2010-08-23 00:00	2010-08-23 00:00	2010-08-23 00:00	2010-08-19 00:00	2010-08-19 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	208	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	---	---	72.6	46.7
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	---	---	*** 6.33	* 6.31
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	1540	---	---	2880	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	< 0.5	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	2.6	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	89.5	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	6.6	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	52	---	54	---	---
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	44	---	42	---	---
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	4	---	4	---	---

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Carter: Carter, Martin R., 1993. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

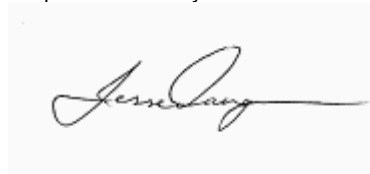
Kelowna Modified Method - Ashworth, Mrazek - Commun. Soil Sci. Plant Anal., 26 (5&6), 731-739 (1995)

Levesque and Dinel - Adapted from Levesque and Dinel, Can. J. Soil Sci. 57 (1977), pp. 187-195

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11353	10-11354	10-11355	10-11509	10-11510
					Client ID:	BK12-Cg	BK64-Of	BK64-Cg	C822-Cg	C835-Bm2
					Sample Date:	2010-08-19 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00	2010-08-22 00:00
					MDL					
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---	38.6	---	---	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---	**** 5.38	---	---	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	1830	---	---	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---	---	---	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---	---	---	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---	---	---	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---	---	---	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	70	---	46	78	86
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	18	---	20	15	7
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	12	---	34	7	7

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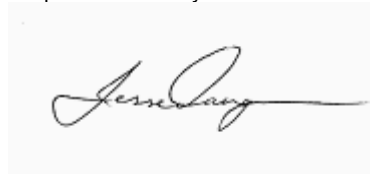
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ANALYTICAL REPORT

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 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Date Received: 8/30/2010
Report Date: 9/23/2010

Soil Analysis

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-11510-D
					Client ID:	C835-Bm2
					Sample Date:	Lab Duplicate
					MDL	
RC	2010/09/08	Bulk Density	g	McKeague 2.21	0.01	---
KM	2010/09/14	Rubbed Fibre	%	Levesque and Dinel	0.1	---
RC	2010/09/09	pH (1:1 H2O)	pH units	McKeague 4.11	0.01	---
JO	2010/09/13	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---
JL	2010/09/15	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---
LL	2010/09/13	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---
LL	2010/09/13	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---
JL	2010/09/13	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---
TY	2010/09/13	Texture - Sand	%	McKeague 2.12	1	86
TY	2010/09/13	Texture - Silt	%	McKeague 2.12	1	8
TY	2010/09/13	Texture - Clay	%	McKeague 2.12	1	6

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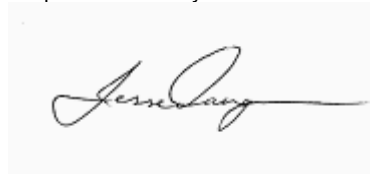
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MDL - Method Detection Limit

Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 140 Quarry Park Blvd. SE
 Calgary, AB T2C 3G3

Report Date: 9/23/2010

Quality Control Standard

Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
RC	9/10/2010	pH (Sat. Paste)	--	McKeague 4.13	0.01	7.46	7.30-7.75	7.52	SS#15
RC	9/10/2010	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	5.81	5.31-6.36	5.84	SS#15
LL	9/15/2010	Calcium	meq/L	McKeague 3.21	0.01	33.0	27.65-39.38	33.52	SS#15
LL	9/15/2010	Magnesium	meq/L	McKeague 3.21	0.01	14.2	11.95-16.73	14.34	SS#15
LL	9/15/2010	Potassium	meq/L	McKeague 3.21	0.01	1.46	0.84-1.93	1.39	SS#15
LL	9/15/2010	Sodium	meq/L	McKeague 3.21	0.01	23.0	13.33-27.63	20.30	SS#15
RC	9/13/2010	Bicarbonate	meq/L	McKeague 3.21	1.0	3.6	1.36-4.57	2.97	SS#15
JL	8/10/2010	Chloride	meq/L	McKeague 3.21	0.01	20.5	16.71-21.98	19.34	SS#15
JL	8/10/2010	Sulphate	meq/L	McKeague 3.21	0.01	36.3	34.67-41.42	38.05	SS#15
RC	9/9/2010	Saturation	%	McKeague 3.21	0.1	50.0	47.4-55.9	51.70	SS#15

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 Calgary, AB T2C 3G3

Report Date: 9/23/2010

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Attention: Laser, Oliver

Project No. CE03971.800

File No.: EC-59263

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
RC	9/9/2010	pH (1:1 H2O)	---	McKeague 4.11	0.01	7.62	6.831-8.349	7.59	SS#15
JO	9/13/2010	Total Kjeldhal Nitrogen (TKN)	mg/L (ppm)	APHA 4500N-D	0.1	17.4	12.08 - 18.12	15.10	QC-Nut-B2-01111
JL	9/15/2010	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	3.6	1.48-4.70	3.09	SS#12
LL	9/13/2010	Phosphate-P (Available)	µg/g (ppm)	Kelowna	0.5	7.7	4.66-10.09	7.37	SS#13
LL	9/13/2010	Potassium-K (Available)	µg/g (ppm)	Kelowna	0.5	282	270-309	289.00	SS#13
JL	9/13/2010	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	1.0	466	458-785	622.00	SS#13
TY	9/13/2010	Texture - Sand	%	McKeague 2.12	1	42	40-45	43.00	SS#15
TY	9/13/2010	Texture - Silt	%	McKeague 2.12	1	28	26-32	29.00	SS#15
TY	9/13/2010	Texture - Clay	%	McKeague 2.12	1	30	25-31	28.00	SS#15

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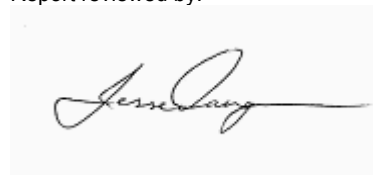
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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2010/01/13

Soil Analysis

Attention: Robertson, Scott

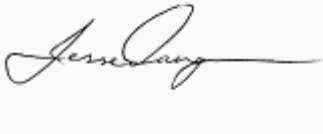
Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19044	10-19045	10-19045-D	10-19046	10-19047
					Client ID:	18-LFH	18-Ae	18-Ae	18-Bin	18-11Cg
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	Lab Duplicate	2010-10-06 00:00	2010-10-06 00:00
					MDL					
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	---	3.36	3.46	4.32	5.46
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	---	4.85	4.84	5.46	6.72
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	---	0.119	0.121	0.036	0.061
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	---	0.19	0.19	0.19	0.24
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	---	0.10	0.11	0.10	0.13
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	---	0.09	0.09	0.01	0.02
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	---	0.59	0.56	0.07	0.11
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	---	0.44	0.44	0.04	0.08
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	---	1.1	< 1.0	1.2	1.3
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	---	0.24	0.24	0.05	0.12
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	---	35.9	36.7	31.4	36.1
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	---	1.35	1.40	1.17	1.74
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	---	0.45	0.47	0.38	0.58
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	---	1.30	1.27	0.16	0.31
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	---	4.84	4.76	0.47	0.88
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	---	5.56	5.76	0.45	1.06
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	---	23.7	19.7	22.3	28.1
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	---	4.17	4.25	0.72	2.13
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	---	3.8	3.8	3.7	4.8
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	---	1.25	1.29	1.20	1.60
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	---	3.61	3.47	0.51	0.87
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	---	13.5	13.0	1.49	2.43
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	---	15.5	15.7	1.43	2.94
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	---	66.0	53.7	71.1	77.9
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	---	11.6	11.6	2.30	5.90
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	---	1.54	1.47	0.17	0.25

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 McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.
 MDL - Method Detection Limit

Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

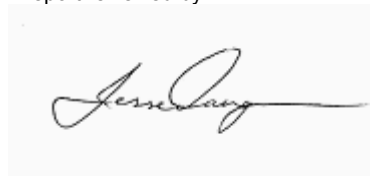
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19048	10-19049	10-19050	10-19051	10-19052
					Client ID:	18-C	108-LFH	108-Ahe	108-Ba	108-Bt
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	5.13	---	4.39	4.55	4.99
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.47	---	5.56	5.98	6.58
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.064	---	0.135	0.102	0.082
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	0.50	---	0.99	0.62	0.40
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	0.23	---	0.46	0.35	0.28
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	0.02	---	0.09	0.06	0.04
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	0.12	---	0.04	0.13	0.15
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	0.07	---	0.12	0.14	0.14
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	1.5	---	1.5	1.4	1.5
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	0.09	---	0.34	0.19	0.12
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	26.4	---	34.7	30.5	39.8
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	2.63	---	6.88	3.76	3.18
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	0.72	---	1.92	1.29	1.35
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	0.17	---	1.24	0.77	0.66
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	0.72	---	0.28	0.94	1.37
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	0.66	---	1.50	1.50	1.96
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	23.3	---	32.6	26.6	37.3
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	1.18	---	5.73	2.81	2.26
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	10.0	---	19.9	12.3	8.0
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	2.74	---	5.53	4.23	3.40
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	0.63	---	3.57	2.52	1.65
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	2.72	---	0.81	3.08	3.45
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	2.50	---	4.34	4.93	4.93
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	88.3	---	93.9	87.3	93.9
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	4.48	---	16.5	9.22	5.70
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.20	---	< 0.10	0.19	0.26

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

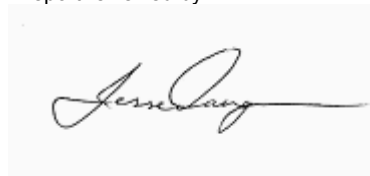
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19053	10-19054	10-19055	10-19056	10-19057
					Client ID:	108-BC	182-LFH	182-Ae	182-Bm	182-IIC
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	6.42	---	3.58	4.52	5.88
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	7.84	---	4.73	6.06	6.85
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.265	---	0.077	0.082	0.269
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	1.36	---	0.30	0.46	1.73
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	1.33	---	0.12	0.18	0.85
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	0.05	---	0.07	0.07	0.03
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	0.35	---	0.10	0.11	0.20
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	0.24	---	0.15	0.15	0.45
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	3.0	---	1.1	1.1	2.9
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	0.41	---	0.11	0.13	0.17
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	39.1	---	28.0	19.5	30.2
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	10.6	---	1.70	1.81	10.5
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	6.34	---	0.41	0.42	3.10
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	0.75	---	0.72	0.57	0.34
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	3.17	---	0.64	0.49	1.41
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	3.37	---	1.49	1.04	4.79
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	70.6	---	19.1	12.9	52.9
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	7.63	---	1.45	1.20	2.40
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	27.2	---	6.1	9.3	34.8
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	16.2	---	1.47	2.17	10.3
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	1.92	---	2.59	2.90	1.13
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	8.12	---	2.27	2.50	4.67
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	8.63	---	5.33	5.33	15.9
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	181	---	68.4	66.1	175
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	19.5	---	5.17	6.17	7.94
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.31	---	0.21	0.19	0.18

All Analytical results pertain to samples analyzed as received.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19058	10-19058-D	10-19059	10-19060	10-19061
					Client ID:	182-C	182-C	265-LFH	265-LFH-BD	265-Ae
					Sample Date:	2010-10-06 00:00	Lab Duplicate	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	4.95	---	---	---	3.76
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	6.46	---	---	---	5.34
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.072	---	---	---	0.061
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	0.36	---	---	---	0.24
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	0.15	---	---	---	0.11
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	0.06	---	---	---	0.06
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	0.09	---	---	---	0.06
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	0.08	---	---	---	0.11
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	1.2	---	---	---	1.2
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	0.16	---	---	---	0.16
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	16.7	---	---	---	24.0
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	1.20	---	---	---	1.17
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	0.31	---	---	---	0.33
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	0.39	---	---	---	0.61
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	0.34	---	---	---	0.35
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	0.49	---	---	---	0.90
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	12.7	---	---	---	17.6
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	1.25	---	---	---	1.88
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	7.2	---	---	---	4.9
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	1.86	---	---	---	1.38
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	2.34	---	---	---	2.54
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	2.02	---	---	---	1.47
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	2.94	---	---	---	3.76
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	76.0	---	---	---	73.5
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	7.49	---	---	---	7.86
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.17	---	---	---	0.15

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Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

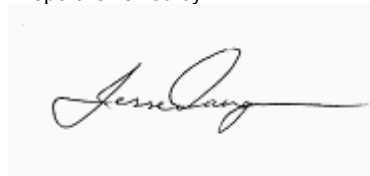
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19062	10-19063	10-19064	10-19065	10-19066
					Client ID:	265-Bm	265-Bt	265-C	308-LFH	308-Ae
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	4.23	4.36	6.37	---	2.80
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	5.83	6.36	7.10	---	4.01
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.045	0.042	0.616	---	0.100
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	0.12	0.10	4.07	---	0.25
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	0.08	0.05	2.07	---	0.12
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	0.05	0.01	0.04	---	0.14
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	0.07	0.09	0.21	---	0.10
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	0.06	0.08	0.89	---	0.12
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	1.2	1.4	5.6	---	< 1.0
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	0.11	0.10	0.12	---	0.18
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	21.1	31.6	42.7	---	37.4
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	0.49	0.62	34.8	---	1.85
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	0.20	0.21	10.8	---	0.56
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	0.41	0.17	0.65	---	1.99
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	0.35	0.63	2.05	---	0.88
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	0.49	0.87	13.5	---	1.55
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	15.9	26.1	145	---	7.2
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	1.06	1.55	2.45	---	3.29
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	2.3	2.0	81.6	---	5.0
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	0.96	0.65	25.2	---	1.48
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	1.92	0.53	1.52	---	5.31
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	1.64	1.99	4.79	---	2.35
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	2.30	2.77	31.5	---	4.14
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	75.6	82.8	340	---	19.3
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	5.04	4.90	5.73	---	8.79
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.23	0.32	0.12	---	0.24

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott


Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19067	10-19068	10-19069	10-19070
					Client ID:	308-Bm	30-11Bt	308-11Bc	308-11Ck
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL				
RC	2010/12/16	pH (1:2 CaCl2)	pH units	McKeague 3.11	0.01	3.63	5.93	5.92	7.33
RC	2010/12/21	pH (Sat. Paste)	pH units	McKeague 4.13	0.01	5.21	6.97	6.97	7.85
RC	2010/12/21	Conductivity (Sat. Paste)	mS/cm	McKeague 4.13	0.001	0.052	0.155	0.182	0.311
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	0.16	0.84	0.98	2.17
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	0.08	0.54	0.60	1.01
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	0.06	0.04	0.02	0.03
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	0.10	0.19	0.19	0.19
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	0.09	0.24	0.37	0.25
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	1.1	1.5	1.8	3.5
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	0.15	0.21	0.14	0.21
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	22.6	33.0	35.7	35.3
LL	2010/12/21	Calcium	µg/g (ppm)	Calculation	0.10	0.74	5.52	7.01	15.3
LL	2010/12/21	Magnesium	µg/g (ppm)	Calculation	0.10	0.23	2.15	2.60	4.32
LL	2010/12/21	Potassium	µg/g (ppm)	Calculation	0.10	0.52	0.49	0.25	0.40
LL	2010/12/21	Sodium	µg/g (ppm)	Calculation	0.10	0.53	1.41	1.59	1.51
LL	2010/12/21	Chloride	µg/g (ppm)	Calculation	0.10	0.71	2.84	4.63	3.16
RC	2010/12/22	Bicarbonate	µg/g (ppm)	Calculation	0.1	14.5	30.1	38.9	75.1
RC	2010/12/22	Sulphate	µg/g (ppm)	Calculation	0.10	1.61	3.26	2.37	3.53
RC	2010/12/21	Calcium	mg/L (ppm)	Calculation	0.1	3.3	16.7	19.6	43.5
RC	2010/12/21	Magnesium	mg/L (ppm)	Calculation	0.10	1.02	6.52	7.28	12.3
RC	2010/12/21	Potassium	mg/L (ppm)	Calculation	0.10	2.30	1.49	0.71	1.13
RC	2010/12/21	Sodium	mg/L (ppm)	Calculation	0.10	2.32	4.27	4.44	4.28
RC	2010/12/21	Chloride	mg/L (ppm)	Calculation	0.10	3.14	8.61	13.0	8.96
RC	2010/12/21	Bicarbonate	mg/L (ppm)	Calculation	0.1	64.0	91.2	109	213
RC	2010/12/21	Sulphate	mg/L (ppm)	Calculation	0.10	7.11	9.90	6.62	10.0
RC	2010/12/21	Sodium Adsorption Ratio (SAR)		Calculation	0.10	0.29	0.22	0.22	0.15

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 MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19044	10-19045	10-19045-D	10-19046	10-19047
					Client ID:	18-LFH	18-Ae	18-Ae	18-Bin	18-11Cg
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	Lab Duplicate	2010-10-06 00:00	2010-10-06 00:00
					MDL					
J0	2010/12/17	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	184	568	---	261	---
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
TY	2010/12/20	Texture - Sand	%	McKeague 2.12	1	---	94	94	94	60
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	---	4	4	2	18
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	---	2	2	4	22

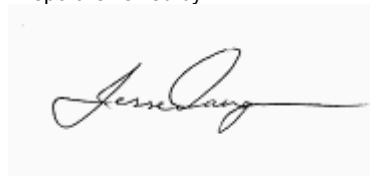
All Analytical results pertain to samples analyzed as received.

APHA: Standard Method for the Examination of Water and Wastewater, 2005. 21st Ed. American Public Health Association.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



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 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19048	10-19049	10-19050	10-19051	10-19052
					Client ID:	18-C	108-LFH	108-Ahe	108-Ba	108-Bt
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
J0	2010/12/22	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	5120	703	282	---
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	96	---	68	46	42
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	3	---	24	26	22
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	1	---	8	28	36

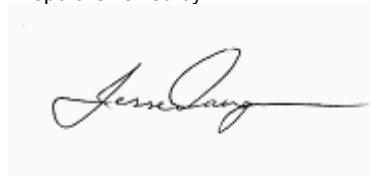
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 Laboratory Services



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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

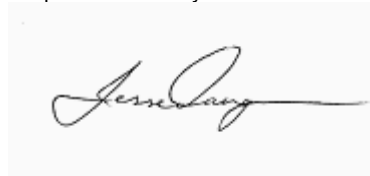
Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19053	10-19054	10-19055	10-19056	10-19057
					Client ID:	108-BC	182-LFH	182-Ae	182-Bm	182-IIC
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
J0	2010/12/22	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	836	208	288	---
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	42	---	80	82	54
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	24	---	19	12	22
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	34	---	1	6	24

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Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19058	10-19058-D	10-19059	10-19060	10-19061
					Client ID:	182-C	182-C	265-LFH	265-LFH-BD	265-Ae
					Sample Date:	2010-10-06 00:00	Lab Duplicate	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
J0	2010/12/22	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	---	---	602	---	315
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	46.7	---
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	78	78	---	---	76
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	16	16	---	---	20
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	6	6	---	---	4

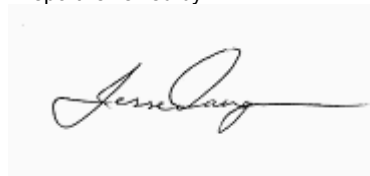
All Analytical results pertain to samples analyzed as received.

APHA: Standard Method for the Examination of Water and Wastewater, 2005. 21st Ed. American Public Health Association.

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19062	10-19063	10-19064	10-19065	10-19066
					Client ID:	265-Bm	265-Bt	265-C	308-LFH	308-Ae
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL					
J0	2010/12/17	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	114	---	---	275	249
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---	---
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	72	50	38	---	84
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	18	18	28	---	15
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	10	32	34	---	1

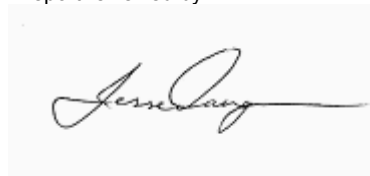
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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2010/12/13
Report Date: 2011/01/13

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	10-19067	10-19068	10-19069	10-19070
					Client ID:	308-8m	30-11Bt	308-11Bc	308-11Ck
					Sample Date:	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00	2010-10-06 00:00
					MDL				
J0	2010/12/17	Total Kjeldhal Nitrogen (TKN)	µg/g (ppm)	APHA 4500N-c	0.5	104	---	---	---
RC	2010/12/17	Bulk Density	g	McKeague 2.21	0.01	---	---	---	---
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	88	50	46	48
TY	2010/12/20	Texture - Silt	%	McKeague 2.12	1	10	20	24	4
TY	2010/12/20	Texture - Clay	%	McKeague 2.12	1	2	30	30	48

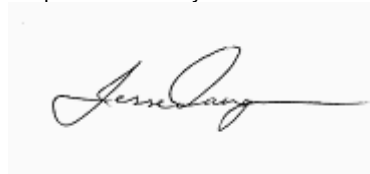
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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
 5681-70 Street
 Edmonton, AB T6B 3P6

Report Date: 2011/01/13

Quality Control Standard

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

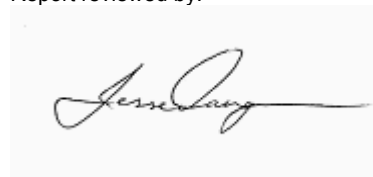
Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
RC	2010/12/16	pH (1:2 CaCl2)	--	McKeague 3.11	0.01	7.52	7.154-7.907	7.53	SS#15
RC	2010/12/21	pH (Sat. Paste)	--	McKeague 4.13	0.01	6.91	6.39-7.81	7.10	SS#16
RC	2010/12/21	Conductivity (Sat.Paste)	mS/cm	McKeague 4.13	0.001	4.36	4.02-4.92	4.47	SS#16
LL	2010/12/21	Calcium	meq/L	McKeague 3.21	0.01	22.3	21.9-25.8	23.90	SS#16
LL	2010/12/21	Magnesium	meq/L	McKeague 3.21	0.01	10.0	9.74-11.13	10.44	SS#16
LL	2010/12/21	Potassium	meq/L	McKeague 3.21	0.01	1.69	1.65-2.07	1.86	SS#16
LL	2010/12/21	Sodium	meq/L	McKeague 3.21	0.01	18.8	18.6-22.6	21.30	SS#16
JL	2010/12/21	Chloride	meq/L	McKeague 3.21	0.01	7.22	7.19-11.50	9.34	SS#16
RC	2010/12/22	Bicarbonate	meq/L	McKeague 3.21	1.0	5.7	4.90-6.57	5.73	SS#16
JL	2010/12/22	Sulphate	meq/L	McKeague 3.21	0.01	28.3	27.68-43.94	35.81	SS#16
RC	2010/12/21	Saturation	%	McKeague 3.21	0.1	51.4	45.6-55.7	50.60	SS#16

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



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 Edmonton, AB T6B 3P6

Report Date: 2011/01/13

Quality Control Standard

Attention: Robertson, Scott

Project No. CE03971

File No.: EC-60097

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
JO	2010/12/17	Total Kjeldhal Nitrogen (TKN)	mg/L (ppm)	APHA 4500N-D	0.1	16.0	12.08 - 18.12	15.10	QC-Nut-B2-01111
TY	2011/12/20	Texture - Sand	%	McKeague 2.12	1	46	44-48	46.00	SS#16
TY	2011/12/20	Texture - Silt	%	McKeague 2.12	1	30	28-31	29.00	SS#16
TY	2011/12/20	Texture - Clay	%	McKeague 2.12	1	24	23-25	24.00	SS#16

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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2011/08/03
Report Date: 2011/08/25

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	11-10251	11-10252	11-10252-D	11-10253	11-10253-D
					Client ID:	K14-IFH	K14-Ae	K14-Ae	K-14-Bt	K-14-Bt
					Sample Date:	2011-07-26 00:00	2011-07-26 00:00	Lab Duplicate	2011-07-26 00:00	Lab Duplicate
					MDL					
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	---	---	---	< 0.10	< 0.10
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	0.344	0.032	0.025	0.040	---
SA	2011/08/16	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	3.97	5.39	5.47	---	---
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	73.9	0.56	0.57	1.64	---
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	*<5.0	*<5.0	*<5.0	---	---
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	328	3.7	3.1	---	---
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	2610	25.4	23.4	---	---
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	36.3	*<5.0	*<5.0	---	---
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	71	66	66	48	---
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	10	30	30	22	---
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	19	4	4	30	---

* MDL adjusted due to sample matrix interference.

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Carter: Carter, Martin R., 2008. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

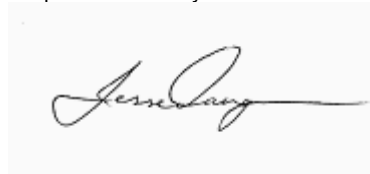
ICARDA/NARC - Soil and Plant Analysis Laboratory Manual. Second Edition. 2001. Jointly published by the International Center for Agricultural Research in the Dry Areas (ICARDA) and the National Agricultural Research Center (NARC)

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

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ANALYTICAL REPORT

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Date Received: 2011/08/03
Report Date: 2011/08/25

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	11-10254	11-10255	11-10256	11-10257	11-10258
					Client ID:	K-14-Ck	CS-127-LFH	CS-127-Ae	CS-127-Bij	CS-127-C
					Sample Date:	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00
					MDL					
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	7.85	---	---	< 0.10	0.35
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	0.199	0.409	0.021	0.031	0.153
SA	2011/08/16	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	5.34	5.04	---	---
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	---	90.1	0.40	1.02	---
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	*<5.0	*<5.0	---	---
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	541	15.5	---	---
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	3270	59.1	---	---
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	81.4	*<5.0	---	---
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	48	71	86	60	50
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	26	19	12	22	22
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	26	10	2	18	28

* MDL adjusted due to sample matrix interference.

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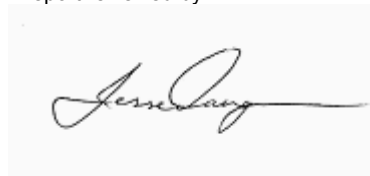
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 Laboratory Services



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ANALYTICAL REPORT

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Date Received: 2011/08/03
Report Date: 2011/08/25

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	11-10259	11-10260	11-10261	11-10262	11-10263
					Client ID:	C49-LFH	C49-Ae	C49-Bm	C49-C	C33-LFH
					Sample Date:	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00
					MDL					
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	---	---	< 0.10	< 0.10	---
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	0.161	0.013	0.017	0.033	0.149
SA	2011/08/16	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	4.47	4.53	---	---	5.40
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	60.9	0.20	0.36	---	45.9
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	*<5.0	*<5.0	---	---	*<5.0
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	205	3.1	---	---	149
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	1690	14.8	---	---	1300
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	24.1	*<5.0	---	---	21.4
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	71	96	96	100	71
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	29	4	< 1	< 1	20
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	< 1	< 1	4	< 1	10

* MDL adjusted due to sample matrix interference.

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2011/08/03
Report Date: 2011/08/25

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	11-10264	11-10265	11-10266	11-10267	11-10268
					Client ID:	C33-Ae	C33-Bm	C33-Ck	C43-Of	C43-Ae
					Sample Date:	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00	2011-07-26 00:00
					MDL					
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	---	< 0.10	3.58	---	---
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	0.008	0.029	0.117	0.132	0.037
SA	2011/08/16	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	5.32	---	---	3.63	3.93
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	0.16	0.45	---	69.9	0.92
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	*<5.0	---	---	*<5.0	*<5.0
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	3.1	---	---	115	9.9
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	23.2	---	---	1010	33.9
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	*<5.0	---	---	8.5	*<5.0
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	96	92	56	80	70
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	2	2	22	20	26
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	2	6	22	< 1	4

* MDL adjusted due to sample matrix interference.

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Carter: Carter, Martin R., 2008. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

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McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

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Report reviewed by:



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ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Date Received: 2011/08/03
Report Date: 2011/08/25

Soil Analysis

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	Lab #:	11-10269	11-10270
					Client ID:	C43-Bij	C43-Cg
					Sample Date:	2011-07-26 00:00	2011-07-26 00:00
					MDL		
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	< 0.10	< 0.10
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	0.024	0.029
SA	2011/08/16	pH (1:2 H2O)	pH units	McKeague 4.12	0.01	---	---
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	0.82	---
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	---	---
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna mod.	0.5	---	---
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Carter 8.5 / Kelowna mod.	0.5	---	---
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	0.5	---	---
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	68	54
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	18	18
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	14	28

* MDL adjusted due to sample matrix interference.

All Analytical results pertain to samples analyzed as received.

Carter: Carter, Martin R., 2008. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa

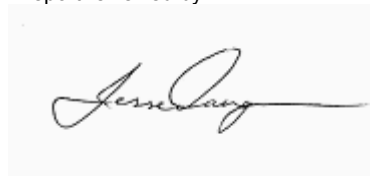
ICARDA/NARC - Soil and Plant Analysis Laboratory Manual. Second Edition. 2001. Jointly published by the International Center for Agricultural Research in the Dry Areas (ICARDA) and the National Agricultural Research Center (NARC)

Kelowna Modified Method - Ashworth, Mrazek - Commun. Soil Sci. Plant Anal., 26 (5&6), 731-739 (1995)

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
 Manager
 Laboratory Services



Charlene Rollheiser
 Director of QA/QC
 Laboratory Services

** All samples will be disposed of after 30 days following analysis. Please contact the lab if you require additional sample storage time. (Samples deemed hazardous will be returned to the client at their own expense or disposal will be arranged.) **

ANALYTICAL REPORT

AMEC Earth & Environmental
5681-70 Street
Edmonton, AB T6B 3P6

Report Date: 2011/08/25

Quality Control Standard

Attention: Robertson, Scott

Project No. CE03971.800

File No.: EC-61460

Analyst	Date of Analysis (yyyy/m/d)	Analytical Parameter	Units	Reference Method	MDL	Analyzed Value	Advisory Range	Target Value	Reference No.
SA	2011/08/12	Calcium Carbonate	%	ICARDA/NARC 5.3	0.10	7.57	5.73-8.62	7.50	SS#13
SA	2011/08/16	Conductivity (1:2 H2O)	mS/cm	McKeague 4.12	0.001	2.41	2.14-2.42	2.28	SS#15
SA	2011/08/16	pH (1:2 H2O)	--	McKeague 4.12	0.01	7.65	7.23-7.77	7.52	SS#15
TY	2011/08/10	Organic Matter (420°C)	%	McKeague 4.23	0.01	3.80	3.59-3.86	3.72	SS#16
RC	2011/08/09	Nitrate-N (Available)	µg/g (ppm)	McKeague 4.35	0.5	3.5	1.48-4.70	3.09	SS#12
LL	2011/08/09	Phosphate-P (Available)	µg/g (ppm)	Kelowna	0.5	8.5	4.66-10.09	7.37	SS#13
LL	2011/08/09	Potassium-K (Available)	µg/g (ppm)	Kelowna	0.5	270	270-309	289.00	SS#13
RC	2011/08/09	Sulphate-S (Available)	µg/g (ppm)	McKeague 4.48	1.0	459	458-785	622.00	SS#13
TY	2011/08/15	Texture - Sand	%	McKeague 2.12	1	46	44-48	46.00	SS#16
TY	2011/08/15	Texture - Silt	%	McKeague 2.12	1	30	28-31	29.00	SS#16
TY	2011/08/15	Texture - Clay	%	McKeague 2.12	1	24	23-25	24.00	SS#16

* MDL adjusted due to sample matrix interference.

All Analytical results pertain to samples analyzed as received.

Carter: Carter, Martin R., 2008. Soil Sampling and Methods of Analysis, Canadian Society of Soil Science. Ottawa


ICARDA/NARC - Soil and Plant Analysis Laboratory Manual. Second Edition. 2001. Jointly published by the International Center for Agricultural Research in the Dry Areas (ICARDA) and the National Agricultural Research Center (NARC)

Kelowna Modified Method - Ashworth, Mrazek - Commun. Soil Sci. Plant Anal., 26 (5&6), 731-739 (1995)

McKeague: Manual on Soil Sampling and Methods of Analyses. Can. Soc. Soil Sci. Ottawa.

MDL - Method Detection Limit

Report reviewed by:



Jesse Dang, B.Sc.
Manager
Laboratory Services



Charlene Rollheiser
Director of QA/QC
Laboratory Services

** All samples will be disposed of after 30 days following analysis. Please contact the lab if you require additional sample storage time. (Samples deemed hazardous will be returned to the client at their own expense or disposal will be arranged.) **



Environmental Division

Certificate of Analysis

AMEC EARTH & ENVIRONMENTAL
ATTN: JESSE DANG ~ CHEMISTRY
5667 - 70 STREET
EDMONTON AB T6B 3P6

Report Date: 16-SEP-10 09:57 (MT)
Version: FINAL

Lab Work Order #: **L928493**

Date Received: **07-SEP-10**

Project P.O. #: 282596
Job Reference: EC-59263
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:

Maureen Olinek
Senior Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L928493-1 CB14-LFH~10-11278 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	18.0		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-2 CB14-AE~10-11280 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.42		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-3 CB22-OF~10-11287 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	42.5		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-4 CB22-OM~10-11288 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	41.6		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-5 BK23-LFH~10-11290 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	41.8		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-6 BK23-AE~10-11292 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.42		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-7 BK-21-AE~10-11298 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.27		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-8 BK-37-OF~10-11306 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	43.3		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-9 CB35-LFH~10-11307 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	36.6		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-10 CB35-AE~10-11309 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.21		0.10	%	15-SEP-10	15-SEP-10	R1467629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L928493-11 CB34-OF~10-11314 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	45.7		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-12 CB34-OM~10-11315 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	33.5		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-13 BK44-LFH~10-11318 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	31.6		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-14 BK44-AE~10-11320 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.64		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-15 CB40-LF~10-11325 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	39.8		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-16 CB40-AE~10-11327 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.13		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-17 CB41-OF1~10-11332 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	43.8		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-18 CB58-LF~10-11337 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	32.8		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-19 CB58-AE~10-11339 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.16		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-20 BK82-OF~10-11345 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	46.2		0.10	%	15-SEP-10	15-SEP-10	R1467629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L928493-21 BK82-ANE~10-11348 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	1.62		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-22 BK12-OF/OM~10-11351 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	41.2		0.10	%	15-SEP-10	15-SEP-10	R1467629
L928493-23 BK64-OF~10-11354 Sampled By: CLIENT on 23-AUG-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	34.1		0.10	%	15-SEP-10	15-SEP-10	R1467629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
C-TOT-ORG-LECO-SK	Soil	Organic Carbon by combustion method	SSSA (1996) p. 973
Total Organic Carbon (C-TOT-ORG-LECO-SK, C-TOT-ORG-SK)			

Total C and inorganic C are determined on separate samples. The total C is determined by combustion and thermal conductivity detection, while inorganic C is determined by weight loss after addition of hydrochloric acid. Organic C is calculated by the difference between these two determinations.

Reference for Total C:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 961-1010 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

Reference for Inorganic C:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L928493

Report Date: 16-SEP-10

Page 1 of 2

Client: AMEC EARTH & ENVIRONMENTAL
5667 - 70 STREET
EDMONTON AB T6B 3P6

Contact: JESSE DANG ~ CHEMISTRY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-LECO-SK	Soil							
Batch	R1467629							
WG1164178-1 DUP		L928493-12						
Total Organic Carbon		33.5	32.4		%	3.5	30	15-SEP-10
WG1164178-2 IRM		2004_SOIL						
Total Organic Carbon			1.30		%		1.1-1.5	15-SEP-10
WG1164178-3 MB								
Total Organic Carbon			<0.10		%		0.1	15-SEP-10

Quality Control Report

Workorder: L928493

Report Date: 16-SEP-10

Page 2 of 2

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

qryExportSampleInfo_SendOut2007

SampleName	LabNbr
CB14-LFH	10-11278-
CB14-Ae	10-11280-
CB22-Of	10-11287-
CB22-Om	10-11288-
BK23-LFH	10-11290-
BK23-Ae	10-11292-
BK-21-Ae	10-11298-
BK-37-Of	10-11306-
CB35-LFH	10-11307-
CB35-Ae	10-11309-
CB34-Of	10-11314-
CB34-Om	10-11315-
BK44-LFH	10-11318-
BK44-Ae	10-11320-
CB40-LF	10-11325-
CB40-Ae	10-11327-
CB41-Of1	10-11332-
CB58-LF	10-11337-
CB58-Ae	10-11339-
BK82-Of	10-11345-
BK82-Ane	10-11348-
Bk12-Of/Om	10-11351-
BK64-Of	10-11354-

PURCHASE ORDER

282596

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES, ETC.

TO *ARS*

ADDRESS

SHIP TO

ADDRESS

REQ. NO. OR DEPT.

DATE

FOR

*Amec Earth & Environ
5667-70 St Edm T6B 3P6*

*2220
Aug 31/10
FC59263.*

PLEASE NOTIFY US IMMEDIATELY IF YOU ARE UNABLE TO SHIP COMPLETE ORDER BY DATE SPECIFIED

QUANTITY	PLEASE SUPPLY ITEMS LISTED BELOW	PRICE	AMOUNT
1	<i>23 soil samples (dried & ground)</i>		
2			
3	<i>for TOC</i>		
4			
5			
6	<i>See attached for sample 10s.</i>		
7			
8			
9			
10	<i>Sampled Aug 20-23/10</i>		
DATE REQUIRED <i>Sept 10</i> VIA		PLEASE SEND	COPY(IES) OF YOUR INVOICE
TERMS <i>Please list both 10s on results. Ths.</i>		<i>[Signature]</i> PURCHASING AGENT	



AMEC EARTH & ENVIRONMENTAL
ATTN: JESSE DANG ~ CHEMISTRY
5667 - 70 STREET
EDMONTON AB T6B 3P6
Phone: 780-989-4580

Date Received: 20-DEC-10
Report Date: 28-DEC-10 07:51 (MT)
Version: FINAL

Certificate of Analysis

Lab Work Order #: L964285
Project P.O. #: PO# 543983
Job Reference: EC-60097
Legal Site Desc:
C of C Numbers: L964285

Brian Morgan
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: #819-58th St E., Saskatoon, SK S7K 6X5 Canada | Phone: +1 306 668 8370 | Fax: +1 306 668 8383
ALS CANADA LIMITED Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L964285-1 10-19044 18-LFH Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	12.2		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-2 10-19045 18-AE Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.36		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-3 10-19046 18-BIN Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.26		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-4 10-19049 108-LFH Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	35.9		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-5 10-19050 108-AHE Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	1.68		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-6 10-19051 108-BA Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.29		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-7 10-19054 182-LFH Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	38.9		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-8 10-19055 182-AE Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.31		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-9 10-19056 182-BM Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.25		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-10 10-19059 265-LFH Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	35.5		0.10	%	22-DEC-10	22-DEC-10	R1773709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L964285-11 10-19061 265-AE Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.18		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-12 10-19062 265-BM Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.14		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-13 10-19065 308-LFH Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	43.5		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-14 10-19066 308-AE Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	1.36		0.10	%	22-DEC-10	22-DEC-10	R1773709
L964285-15 10-19067 308-BM Sampled By: CLIENT on 06-OCT-10 Matrix: SOIL Miscellaneous Parameters Total Organic Carbon	0.12		0.10	%	22-DEC-10	22-DEC-10	R1773709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
C-TOT-ORG-LECO-SK	Soil	Organic Carbon by combustion method	SSSA (1996) p. 973
Total Organic Carbon (C-TOT-ORG-LECO-SK, C-TOT-ORG-SK)			

Total C and inorganic C are determined on separate samples. The total C is determined by combustion and thermal conductivity detection, while inorganic C is determined by weight loss after addition of hydrochloric acid. Organic C is calculated by the difference between these two determinations.

Reference for Total C:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 961-1010 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

Reference for Inorganic C:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA

Chain of Custody Numbers:

L964285

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

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< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

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Quality Control Report

Workorder: L964285

Report Date: 28-DEC-10

Page 1 of 2

Client: AMEC EARTH & ENVIRONMENTAL
 5667 - 70 STREET
 EDMONTON AB T6B 3P6

Contact: JESSE DANG ~ CHEMISTRY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-LECO-SK	Soil							
Batch	R1773709							
WG1220043-1 DUP		L964285-8						
Total Organic Carbon		0.31	0.34		%	8.7	30	22-DEC-10
WG1220043-2 IRM		08-109_SOIL						
Total Organic Carbon			0.99		%		0.77-1.43	22-DEC-10
WG1220043-3 MB								
Total Organic Carbon			<0.10		%		0.1	22-DEC-10

Quality Control Report

Workorder: L964285

Report Date: 28-DEC-10

Page 2 of 2

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

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