

# Soils of the Langley-Vancouver Map Area

RAB Bulletin 18



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TERRESTRIAL STUDIES BRANCH



**Province of British Columbia**  
Ministry of Environment  
ASSESSMENT AND PLANNING DIVISION

**RAB Bulletin 18**

**SOILS OF THE  
LANGLEY—VANCOUVER MAP AREA**

**Report No. 15  
British Columbia Soil Survey**

**VOLUME 6  
Technical Data—Soil Profile Descriptions and  
Analytical Data**

by

H. A. Luttmerding, P.Ag.

**Kelowna  
1981**

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## INTRODUCTION

The first soil survey of the Lower Fraser Valley was completed in the late 1930's (Kelley and Spilsbury, 1939). This valuable publication adequately served its users for many years but as agricultural and other land use problems became increasingly complex, the realization grew that a more detailed, larger-scale soil survey was required. To meet this need, a detailed resurvey of the Lower Fraser Valley was initiated in the late 1950's with field mapping being completed in the early 1970's. Included as well in the survey area were the adjacent Coast Mountains and the southern part of the Sunshine Coast. The original impetus for the resurvey was supplied by the Assessment Commissioner, B.C. Department of Finance who requested assistance in developing uniform land assessments in the Lower Fraser Valley. His request (for more detailed soil information) was strongly supported by a variety of soil and land users.

As the survey progressed, interim reports and soil maps (scale 1:24000) were prepared, generally on a municipal base. A total of eleven separate maps and ten reports were published. The current report, *Soils of the Langley-Vancouver Map Area*, collates, summarizes and updates the soil information contained in most of the previous interim series as well as presenting new information not published previously.

Field mapping procedures and soil classification techniques changed over the period of years required for the soil survey. Users of the interim maps and reports probably have noticed differences in terminology and soil classification among them. The present report as much as possible, updates the information contained in the interim series to current standards (The Canadian System of Soil Classification, 1978) and presents it in a uniform, consistent manner.

*Soils of the Langley-Vancouver Map Area* encompasses an area bounded on the west by the Strait of Georgia and on the east by 122°00' west longitude (a north-south line passing between Chilliwack and Sumas Canal). The southern boundary is the Canada—United States of America border (49th parallel) while 49°30' north latitude forms the northern boundary. Included is the western part of the Lower Fraser Valley, the southern part of the Sunshine Coast and the southern edge of the Coast Mountains east to Chehalis Lake. Users will note that some areas, particularly in the vicinity of metropolitan Vancouver, are not mapped or classified. These consist mainly of areas which were already either partially or completely urbanized (or industrialized) at the time of the field survey.

*Soils of the Langley-Vancouver Map Area* is being produced, published and distributed in six volumes. **Volume 1** consists of soil map mosaics (1:25 000 scale) with legend, and covers the Lower Fraser Valley portion of the map area. **Volume 2** contains soil maps (1:50 000 scale) with legend, that encompass the remainder of the map area, mainly the southern Sunshine Coast and Coast Mountains. **Volume 3** describes, in detail, the soils mapped and classified in volumes 1 and 2. It also generally discusses the environmental characteristics of the map area and contains a glossary and list of references. **Volume 4** contains interpretations for specified engineering uses of the soils described in volume 3 (and mapped in volumes 1 and 2). It contains information regarding soil suitability (or limitations) for septic tank effluent disposal, basement construction and other urban-related land uses. Also included are some interpretations for forest management concerns as well as interpretations for recreational endeavours. **Volume 5** is agriculturally oriented and contains information regarding agricultural cropping and management. Included also in this volume are revised land capability for agriculture maps which replace those currently available. These maps are prepared at the scale of the soil maps in volumes 1 and 2. They are more detailed than the original provisional series, incorporate more definitive climatic data into the ratings and show improved (drained and/or irrigated) capability ratings as well as ratings when these management inputs are not considered. **Volume 6 (this publication)** consists of the detailed, technical soil profile descriptions of the soils discussed in Volume 3. It also contains the results of chemical and physical analyses of the sampled soils (or individual soil horizons). Only a limited number of copies of volume 6 are being produced, mainly for those persons who have day-to-day use for this detailed, specific data. This information is also stored in the British Columbia Soil Information System and others can, as required, request the data (or portions of it) directly from the data file.

## HOW TO USE THE SOIL MAPS AND REPORT

Long-term soil resource managers usually know the characteristics and variations of the soils in their locality. However, unless a soil map and report are available, comparison with other soils in the area or region is impossible. Regional (and local) similarities and differences among soils are evident after a soil map has been made. Proven (or new) management techniques for a soil may then be transferred to the same or similar soils elsewhere with the least chance of failure.

To efficiently use the soil maps and soil survey report, the following procedure is suggested:

- 1** Generally locate the area of concern on the "Index to Map Sheets" which immediately precedes the soil map mosaics in Volume 1 and the soil maps in Volume 2 of this report. Note the number(s) of the map sheet(s) which cover the area under consideration. Generally, areas in the Lower Fraser Valley are covered in **Volume 1** while areas on the Sunshine Coast or in the Coast Mountains occur in **Volume 2**.
- 2** Turn to the appropriate map sheet and locate in detail the area of concern. Main roads, railways, communities, section numbers and other cultural detail are shown to assist in location.
- 3** Note the soil map symbols in the map delineations (polygons) which encompass the area(s) under consideration.
- 4** Consult the soil legend for a description of the soil map symbols. The topographic and stoniness class symbols are described here as are the soil parent material and drainage classification. Also given is the name(s) of the soil(s) identified by a symbol in the soil map polygon(s).
- 5** Locate the named soil in **Volume 3** of the report. A detailed description of the soil is given here as well as its general suitability for a variety of uses.
- 6** Refer to **Volume 4** for interpretations of specified engineering, forestry or recreational uses of the named soils. **Volume 5** contains agriculturally oriented soil interpretations as well as maps showing land capability for agriculture.
- 7** Users requiring the detailed, site specific, technical soil profile descriptions and associated physical and chemical analyses are referred to **Volume 6**, or, if this information is required on an irregular basis, the British Columbia Soil Information System.

Users of the report and maps should note that soils are usually differentiated on the basis of characteristics to a depth of a meter or more. Even though several soils may have similar surfaces, subsurface and subsoil character can vary widely. Users should also understand that each soil exhibits a range of characteristics and properties and that boundaries between different soils are not necessarily well defined. The soil boundaries on the soil maps are the best estimate of where characteristics change sufficiently to warrant identification of another soil(s).

## **ACKNOWLEDGEMENTS**

The soil analyses contained in this publication were conducted by the Soil Laboratory Section, British Columbia Ministry of Environment, under the direction of V. E. Osborne and by the Department of Soil Science, University of British Columbia. The author acknowledges the dedication and accuracy of both laboratories. The author also acknowledges V. E. Osborne and Dr. L. Lavkulich for interpreting the mineralogical x-ray analysis.

Also acknowledged are C. Dann and L. Bishop who coded and edited the soil descriptions and analyses for entry into the British Columbia Soil Information System.

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## SOIL PROFILE DESCRIPTIONS AND LABORATORY ANALYSIS

Soils of the Langley-Vancouver Map Area, Volume 6, consists of technical data. It contains one or more representative, detailed soil profile description for most of the 147 different soils described and classified during the soil survey. It also contains the results of a variety of chemical, physical and clay mineralogy analyses conducted on samples of the described soils. The soil descriptions and attendant analyses are collated alphabetically by soil name.

### SOIL PROFILE DESCRIPTIONS

The soils are described according to methodologies and procedures provided in:

Walmsley, M., G. Utzig, T. Vold, D. Moon and J. van Barneveld, editors. 1980. Describing Ecosystems in the Field. RAB Technical Paper No. 2, Resource Analysis Branch, British Columbia Ministry of Environment and Research Branch, British Columbia Ministry of Forests, Victoria, B.C.

Dumanski, J., editor. Revised 1978. The Canadian Soil Information System (CanSIS). Manual for Describing Soils in the Field. Land Resource Research Institute, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario. (compiled by the Working Group on Soil Survey Data, Canada Soil Survey Committee).

They are classified according to the Canadian Soil Classification System which is described in:

Canada Soil Survey Committee, Subcommittee on Soil Classification. 1978. The Canadian System of Soil Classification. Publication 1646, Resource Branch, Canada Department of Agriculture. Supply and Services Canada, Ottawa, Ontario. 164 pp.

### CHEMICAL, PHYSICAL AND CLAY MINERALOGY ANALYSES

A variety of laboratory analyses have been performed on the soils described in Volume 6. The analytical method(s) or appropriate literature reference(s) for each analysis follows.

#### Chemical Analysis

- (a) **Soil Reaction (pH)**: Method 1 (1:1 soil-water ratio), Method 2 (1:5 soil-water ratio) and Method 4 (in 0.01M $\text{CaCl}_2$ ) are described in McKeague, J. A., editor. 1978. Manual on Soil Sampling and Methods of Analysis. 2nd Edition. Prepared by Subcommittee (of Canada Soil Survey Committee) on Methods of Analysis. Canadian Society of Soil Science. pp. 61, 62.
- (b) **Organic Carbon (%)**: Pre-1974 analyses are according to the modified Walkley-Black method described in McKeague, J. A., editor. 1978. pp. 115–116. Post-1974 analyses are according to Laboratory Equipment Corporation. 1969. Carbon Analysis by Leco Analyzer. Leco Instruction Manual for Induction Furnace and Carbon Analyzer. St. Joseph's, Michigan.
- (c) **Nitrogen (%)**: Pre-1978 analyses are according to Brenner, J. M., 1960. Determination of nitrogen in the soil by the Kjeldahl method. Journal of Agricultural Science. Volume 55, No. 1, pp. 11–33. Post-1978 analyses are as described in Lavkulich, L. M.; editor. May, 1974. Total nitrogen determination—colorimetric by auto analyzer for soil and plant material. Department of Soil Science, University of British Columbia, Vancouver, B.C. pp. 11–33.
- (d) **Calcium Carbonate Equivalent (%)**: The analyses are as described in Black, C. A. editor. 1965. Methods of Soil Analysis. Method 91-3.2. American Society of Agronomy; No. 9. p 1386.
- (e) **Cation Exchange Capacity (me/100 gm)**: The CEC is determined by  $\text{NH}_4$  displacement and macro-Kjeldahl distillation as described in McKeague, J. A., editor. 1978. Method 3321; pp. 78–80.
- (f) **Exchangeable Cations—Ca, Mg, Na, K (me/100 gm)**: Pre-1963 analyses for K and Na are by flame photometry while Ca and Mg were determined by EDTA titration. Both methods are described in Atkinson, H. J., G. R. Giles, A. J. MacLean and J. R. Wright, assembled and edited by. February, 1958.

- Chemical Methods of Soil Analysis. Contribution No. 169 (Revised). Chemistry Division—Science Service; Canada Department of Agriculture, Ottawa, Ontario. Post-1963 analyses are by atomic absorption spectrophotometry as described in McKeague, J. A., editor. 1978. Method 3311; pp. 73–75.
- (g) **Iron and Aluminum (%)**: Method 1 (acid ammonium oxalate extraction), Method 2 (dithionite-bicarbonate extraction) and Method 3 (pyrophosphate extraction) are all described in McKeague, J. A., editor. 1978. pp. 98–105.
- (h) **Electrical Conductivity (mS/cm)**: The method for EC determination is described in Richards, L. A., editor. 1954. Diagnosis and Improvement of Saline and Alkali Soils. Handbook 60, United States Salinity Laboratory. U.S. Department of Agriculture, Washington, D.C.
- (i) **Available Phosphorous—P<sub>1</sub>, P<sub>2</sub> (ppm)**: P<sub>1</sub> and P<sub>2</sub> values are determined by the method described in John, M. K. 1963. Determination of available phosphorous. Soil Survey Division, B.C. Department of Agriculture, Kelowna, B.C. This method is modified from Lavery, J.C. 1961. The Illinois method (Bray No. 1) of determining phosphorous in soil. Department of Agronomy; University of Illinois, Urbana, Illinois, and also modified to include ascorbic acid reduction as described in John, M. K. 1970. Colorimetric determination of phosphorous in soil and plant materials with ascorbic acid. Soil Science; Vol. 109; No. 4.
- (j) **Sulphur (ppm)**: Pre-1976 sulphur analyses are according to the method described in Bardsley, C. E., and J. D. Landcaster, 1960. Determination of reserve sulphur and soluble sulphates in soils. Soil Science Society of American Proceedings; Vol. 24; No. 4. Post-1976 analyses are according to Johnson, C. M. and H. Nishita. 1952. Microestimation of sulphur in plant materials, soils and irrigation waters. Anal. Chem. 24; pp. 736–742, modified by Dean, G. A. 1966. A simple colorimetric finish for the Johnson-Nishita microdistillation of sulphur. Analyst, 9/(1085): pp. 530–532, modified by Nyborg, M. 1970. A procedure for the extraction and determination of SO<sub>4</sub>-S in soils (unpublished).
- (k) **Copper (ppm)**: Copper analyses are as described by Lumblad, K. O., O. Svanberg, and P. Ekman. April, 1949. Availability and fixation of copper in Swedish soils. Plant and Soil, Vol., No. 4.

#### Physical Analysis

- (a) **Bulk Density (gm/cc)**: The Core Method was used for incoherent soils and the Saran Clod Method for soils that are cloddy, cemented or stony. Both methods are described in McKeague, J. A., editor. 1978. Manual on Soil Sampling and Methods of Analysis. 2nd Edition. Prepared by Subcommittee (of Canada Soil Survey Committee) on Methods of Analysis. Canadian Society of Soil Science. pp. 29–34.
- (b) **Air-Dry and Oven-Dry Particle Density (gm/cc)**: These analyses were determined by the pycnometer procedure described by Blake, G. R. 1965. Particle density. pp. 371–373 in Methods of Soil Analysis, Part 1, Agronomy No. 9; C. A. Black, editor, American Society of Agronomy. Madison, Wisconsin.
- (c) **Maximum Dry Density (gm/cc)**: These analyses were determined by the low compaction procedure for materials passing a 2-inch sieve (ASTM D 698-58T) as described in Black, C. A., editor. Methods of Soil Analysis, Part 1. Agronomy No. 9. American Society of Agronomy. Madison, Wisconsin.
- (d) **Optimum Moisture for Compaction (%)**: These analyses were determined by the high compaction procedure (ASTM D 1557-58T) as described in Agronomy No. 9, pp. 408–409.
- (e) **Water Retention— $\frac{1}{3}$ , 15 bar**: These analyses were conducted as described in McKeague, J. A., editor. 1978. pp. 45–46.
- (f) **Plastic, Liquid and Shrinkage Limit**: Analyses are according to Lambe, T. W. 1951. Soil Testing for Engineers. John Wiley & Sons, Inc., New York.
- (g) **Particle Size Distribution**: Analyses are according to sieving methods described in McKeague, J. A., editor. 1978. p 26, and Day, P. R. 1965. Particle fractionation and particle size analysis. pp. 545–567 in Methods of Soil Analysis, C. A. Black, editor. Agronomy, No. 9, Part 1. American Society of Agronomy. Madison, Wisconsin.
- (h) **Mechanical Analysis (% sand, silt, clay, fine clay)**: Analyses are according to the Pipette Method in McKeague, J. A., editor. 1978. pp. 6–15.

### Clay Mineralogy Analysis

The samples were dispersed, fractionated and prepared for subsequent X-ray diffraction analyses by conventional procedures (Jackson, M. L., 1956. Soil Chemical Analysis—Advance Course. Published by the author. University of Wisconsin, Madison), including removal of free Fe by the citrate—bicarbonate—dithionite method. Clay samples were prepared with parallel-orientation for X-ray diffraction analysis with Ni-filtered  $\text{CuK}\alpha$  radiation and a scanning speed of  $2^\circ 2\theta/\text{min}$ .

# Detailed Soil Profile Descriptions and/or Analyses

# ABBOTSFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 6a SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 06 36	URTHIC HUMO-FERRIC PODZOL (1978)	% TYPE: 3.0
LONGITUDE (W): 122 32 52	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		GENTLY SLOPING
ELEVATION (M): 85		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC 2: GRAVELLY  
 SURFACE EXPRES.: FAN  
 DESCRIPTOR 2: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 STONINESS: NON-STONY  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION 400 METERS NORTH OF CORNER OF 244 ST AND 58 AVE., LANGLEY.  
 VALUES FOR EXCHANGEABLE CA ALSO INCLUDES MG.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3- 0	ABRUPT				
B FCC1	0- 12	GRADUAL	7.5YR4.0/2.0 MATRIX MOIST 10.0YR5.0/3.5 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B FCC2	12- 27	DIFFUSE	7.5YR4.5/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B FCC3	27- 42	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
II B M	42- 67	DIFFUSE	2.5Y5.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	10.0YR5.0/4.0 MATRIX MOIST	LOAMY SAND	WEAK MEDIUM SUBANGULAR BLOCKY
II C 1	67- 85	DIFFUSE			COARSE SAND	WEAK COARSE SUBANGULAR BLOCKY
II C 2	85-				SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIP. 1	CEMENTATION AGENT/DESCRIP.
LH	3- 0				
B FCC1	0- 12	VERY FRIABLE	ABUNDANT	MANY FINE SPHERICAL	
B FCC2	12- 27	VERY FRIABLE	ABUNDANT	MANY FINE SPHERICAL	
B FCC3	27- 42	VERY FRIABLE	PLENTIFUL	MANY FINE SPHERICAL	
II B M	42- 67	FRIABLE	PLENTIFUL		IRON WEAKLY CEMENTED DISCONTINUOUS
II C 1	67- 85	VERY FRIABLE	FEW		
II C 2	85-	LOOSE	FEW		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)			C. E. C. DETERMINED
						CA	NA	K	
LH	3- 0	2	5.1	52.08	1.71				
B FCC1	0- 12	2	5.7	1.74	.07	1.25	.05	.15	14.8
B FCC2	12- 27	2	5.7	.75	.05	.69	.05	.13	10.2
B FCC3	27- 42	2	5.7	.87	.04	.69	.05	.06	10.8
II B M	42- 67	2	6.0						
II C 1	67- 85	2	6.0						
II C 2	85-	2	6.0						

HORIZON-DEPTH (CM.)	METHOD	RESULT	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM.	P2 PPM.
			METHOD	RESULT	METHOD	RESULT		
LH	3- 0							
B FCC1	0- 12	1	1.4	1	1.5	32.5	86.0	
B FCC2	12- 27	1	1.2	1	1.1	18.0	34.0	
B FCC3	27- 42	1	1.1	1	1.0	14.5	38.0	
II B M	42- 67							
II C 1	67- 85							
II C 2	85-							



# ABBOTSFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 00 13	UNTHIC HUMD-FERRIC PODZOL(1978)	%	1.0	
LONGITUDE (W):	122 22 08		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING	
ELEVATION (M):	50				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	4- 0			ORGANIC			
B FCC1	0- 10	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK VERY FINE SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B FCC2	10- 27	GRAUUAL	10.0YR4.5/4.0 MATRIX MOIST 10.0YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK VERY FINE SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
B M	27- 40	CLEAR	10.0YR5.0/8.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	LOAM	WEAK VERY FINE SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
II B M	40- 60	ABRUPT	10.0YR6.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MASSIVE	FRIABLE	FEW
II C	60-			SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
LH	4- 0	COMMON FINE THROUGHOUT MATRIX SPHERICAL
B FCC1	0- 10	COMMON FINE THROUGHOUT MATRIX SPHERICAL
B FCC2	10- 27	NONE FINE THROUGHOUT MATRIX SPHERICAL
B M	27- 40	
II B M	40- 60	
II C	60-	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	4- 0	2	2	5.7	18.91	.62	21.30	2.70	.20	1.10	61.6
B FCC1	0- 10	2	1	5.7	1.91	.12	.70	.10	.10	.10	15.1
B FCC2	10- 27	2	1	6.0	.99	.08	.80	.20	.10	.00	13.8
B M	27- 40	2	1	6.0	.70	.06	.50	.30	.10	.00	11.2
II B M	40- 60	2	1	6.0	.46	.05	.50	.30	.10	.00	9.8
II C	60-	2	1	5.8	.17	.02	.50	.30	.10	.00	3.6

HORIZON-DEPTH(CM.)	P1 PPM.	
LH	4- 0	101.0
B FCC1	0- 10	76.0
B FCC2	10- 27	12.0
B M	27- 40	9.6
II B M	40- 60	14.1
II C	60-	89.0

# ABBOTSFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: UBC

<p>LOCATION</p> <p>LATITUDE (N): 49 03 37          LONGITUDE (W): 122 19 00          PRECISION (SEC): 05          ELEVATION (M): 60</p>	<p>CLASSIFICATION</p> <p>URTHIC HUMO-FERRIC PODZOL(1978)          STATUS: MODAL SOIL</p>
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PARENT MATERIAL & LANDFORM

<p>UPPER STRATIGRAPHIC UNIT</p> <p>SPEC. CLASTIC: SILTY          GENETIC MAT.: EDLIAN          SURFACE EXPRES.: VENEER</p>	<p>MIDDLE STRATIGRAPHIC UNIT</p> <p>COMM. CLASTIC: GRAVELLY          GENETIC MAT.: FLUVIAL          DESCRIPTOR: GLACIAL</p>
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PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS		
						1/3 BAR.	15 BAR.	% FIELD MOISTURE
LH	3-0							
Ae	0-3							
Bf1	3-23	2	4	4.8	.71	26.5	9.4	13.2
Bf2	23-46	2	4	5.0	.73	22.2	8.2	11.0
IIBC	46-48	2	4	5.7	1.69	3.8	1.9	2.3
IIC1	48-102	2	4	5.7	1.85	4.2	1.8	2.9
IIC2	102-127							

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry	>5.1 cm		<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
LH	3-0																
Ae	0-3																
Bf1	3-23	2.51	2.68		39.3	41.9							88.0		58.0		4.0
Bf2	23-46	2.56	2.71		34.8	36.9							78.0		58.0		5.0
IIBC	46-48																
IIC1	48-102	2.70	2.74							2.8	97.2	75.7	47.7	41.2	12.0	5.9	1.0
IIC2	102-127	2.71	2.75							20.6	79.4	58.0	33.8	27.9	12.0	5.0	2.0

# ABBOTSFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 76 SURVEYOR: HAL VAN RES SIN PED UNIT AG CAN.  
 SAMPLING PURPOSE: SINGLE SITE INSPECTION

LOCATION ----- LATITUDE(N): 49 01 20 LONGITUDE(W): 122 20 28 PRECISION (SEC): 60	CLASSIFICATION ----- SOMBRIC HUMO-FERRIC PDDZUL(197A) STATUS: MODAL SOIL	SLOPE ----- % TYPE: 1.0 CLASS: SIMPLE PROFILE SITE: VERY GENTLY SLOPING MICROTOPOGRAPHY: MIDDLE LEVEL
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PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

CUMM. CLASTIC IS GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR IS GLACIAL

FLOOD HAZARD: NO HAZARD

DRAINAGE: WELL DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: AGRICULTURE CANADA SMALL FRUIT SUBSTATION, NORTHWEST TP16  
 1/4 SEC. 5 TP16 HATSQUI MUNICIPALITY.  
 CLASSIFICATION VARIANT.  
 VALUE OF P2 IN A PR1342.4 P.P.M.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 9	CLEAR WAVY	7.5YR3.0/2.0 MATRIX MOIST 10.0YR3.0/3.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F1	9- 17	GRADUAL WAVY	5.0YR3.0/3.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
B F2	17- 29	CLEAR SMOOTH	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B M1	29- 46	GRADUAL WAVY	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
B M2	46- 63	GRADUAL WAVY	7.5YR4.5/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	10.0YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK TO MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
B M3	63- 73	GRADUAL SMOOTH	10.0YR3.0/6.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		SILT LOAM	WEAK TO MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
II CB	73- 90	GRADUAL SMOOTH	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	10.0YR6.0/3.0 MATRIX DRY	SAND GRAVELLY	STRUCTURELESS
II C 1	90-124	GRADUAL SMOOTH			SAND GRAVELLY	STRUCTURELESS SINGLE GRAIN
II C 2	124-145	SMOOTH			SAND GRAVELLY	STRUCTURELESS SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIPT. 1	FIELD PH
A P	0- 9	GRANULAR	SLIGHTLY STICKY VERY FRIABLE SOFT SLIGHTLY PLASTIC	ABUNDANT VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	STRONGLY ACID
B F1	9- 17		SLIGHTLY STICKY FRIABLE SLIGHTLY HARD SLIGHTLY PLASTIC	ABUNDANT VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	VERY STRONGLY ACID
B F2	17- 29		SLIGHTLY STICKY FRIABLE SLIGHTLY HARD SLIGHTLY PLASTIC	ABUNDANT VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	VERY STRONGLY ACID
B M1	29- 46		SLIGHTLY STICKY FRIABLE SLIGHTLY HARD SLIGHTLY PLASTIC	PLENTIFUL VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	STRONGLY ACID
B M2	46- 63		SLIGHTLY STICKY FRIABLE SLIGHTLY HARD SLIGHTLY PLASTIC	ABUNDANT VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	VERY STRONGLY ACID
B M3	63- 73		SLIGHTLY STICKY FRIABLE SLIGHTLY HARD SLIGHTLY PLASTIC	ABUNDANT VERY FINE RANDOM IN PED	NONE FINE THROUGHOUT MATRIX SPHERICAL	VERY STRONGLY ACID
II CB	73- 90		NON STICKY LOOSE NONPLASTIC	FE# VERY FINE RANDOM IN PED		STRONGLY ACID
II C 1	90-124		NON STICKY LOOSE NONPLASTIC	FE# VERY FINE RANDOM IN PED		STRONGLY ACID
II C 2	124-145		NON STICKY LOOSE NONPLASTIC	FE# RANDOM IN PED		STRONGLY ACID

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A P	0- 9	2	1	5.4	2	4	5.3	12.75	.88
B F1	9- 17	2	1	4.1	2	4	4.7	4.06	.21
B F2	17- 29	2	1	5.1	2	4	4.8	2.87	.16
B M1	29- 46	2	1	5.5	2	4	5.2	1.23	.07
B M2	46- 63	2	1	5.8	2	4	5.1	.98	.06
B M3	63- 73	2	1	5.8	2	4	5.1	.75	.04
II CB	73- 90	2	1	5.6	2	4	5.1	.42	.02
II C 1	90-124	2	1	6.2	2	4	5.3	.20	.01
II C 2	124-145	2	1	6.3	2	4	5.4	.12	.01

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P	0- 9	25.05	3.23	.06	.81	51.3	1	.8	3	.5
B F1	9- 17	4.13	.79	.03	.34	28.1	1	.9	3	.5
B F2	17- 29	2.25	.58	.02	.34	22.9	1	.9	3	.3
B M1	29- 46	1.28	.46	.02	.41	12.7	1	.3	3	.1
B M2	46- 63	.50	.11	.02	.78	10.8	1	.5	3	.1
B M3	63- 73	.38	.07	.02	.94	9.1	1	.4	3	.1
II CB	73- 90	.19	.03	.02	.68	6.0	1	.3	3	.0
II C 1	90-124	.14	.02	.02	.19	3.9	1	.2	3	.0
II C 2	124-145	.16	.04	.01	.16	2.3	1	.1	3	.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				PARTICLE SIZE(X)					
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	+2U CLAY TOTAL
A P	0- 9	1	.9	3	.5	382.1	22	67	11	1
B F1	9- 17	1	1.4	3	.7	140.4	28	67	5	
B F2	17- 29	1	1.3	3	.6	49.2	31	66	3	
B M1	29- 46	1	.8	3	.3	20.3	43.4	36	60	4
B M2	46- 63	1	.7	3	.3	14.2	40.7	47	50	3
B M3	63- 73	1	.9	3	.2	20.8	55.9	63	34	3
II CB	73- 90	1	.4	3	.2	52.9	124.7	81	17	2
II C 1	90-124	1	.3	3	.1	84.5	110.7	96	2	2
II C 2	124-145	1	.2	3	.1	53.3	77.2	96	3	1

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS			
	% VOL	GRAVEL %	COBBLE %	
A P	0- 9			
B F1	9- 17			
B F2	17- 29			
B M1	29- 46			
B M2	46- 63			
B M3	63- 73			
II CB	73- 90	40	35	5
II C 1	90-124	40	35	5
II C 2	124-145	40	35	5

# ADDINGTON

UNIT TYPE: SERIES

DATE OF SURVEY: 71 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 20 13	REGO GLEYSOL (1978)	TYPE: SIMPLE
LONGITUDE (W): 122 37 41	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05	PHASE: PEATY	ASPECT (DEG): 000
ELEVATION (M): 2		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

**MIDDLE STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ROOTING DEPTH: 40 CM. FLOOD HAZARD: FREQUENT AND REGULAR DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: PONDED STONINESS: NON-STONY PERVIOUSNESS: MODERATE

**ADDITIONAL NOTES**

SITE LOCATED SOUTHWEST OF PITT LAKE, 50 METERS SOUTH OF RD.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O H	22- 0	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	ORGANIC	FINE GRANULAR	NON STICKY	ABUNDANT
C G1	0- 20	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	LOAM	MASSIVE	SLIGHTLY STICKY	ABUNDANT
C G2	20- 40	CLEAR	5.0Y4.0/2.0 MATRIX MOIST	LOAM	MASSIVE	SLIGHTLY STICKY	PLENTIFUL
II C G	40-		5.0Y4.0/1.0 MATRIX MOIST	LOAMY FINE SAND	MASSIVE	NON STICKY	FEW

**THICKNESS MOTTLES 1**

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
O H	22- 0	
C G1	0- 20	
C G2	20- 40	FEW FINE FAINT
II C G	40-	FEW FINE FAINT

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O H 22- 0	2	2	4.9	2	4	4.4	23.66	1.51
C G1 0- 20	2	1	4.8	2	4	4.7	4.35	.30
C G2 20- 40	2	1	4.8	2	4	4.7	2.38	.15
II C G 40-	2	1	4.6	2	4	4.7		.03

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C.				
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
O H 22- 0	4.74	1.95	.10	.45	56.2	14.5	31.0	107.2	37.1	50.8
C G1 0- 20	2.19	1.80	.08	.01	17.2	15.3	30.8	14.7	21.9	46.9
C G2 20- 40	2.44	1.44	.08	.03	11.3	3.8	18.9	16.1	18.7	51.2
II C G 40-	2.41	1.48	.06	.04	6.9	5.1	93.3	26.1	19.0	53.3

# ALBION

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 04 47  
 LONGITUDE (W): 122 36 07 HUMIC LUVIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 60 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----  
 UPPER STRATIGRAPHIC UNIT  
 -----  
 SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR 1: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-18	2	4	4.7	.69	44.3		37.7		
A EG 18-43	2	4	5.1	1.41	35.2	18.6	27.0	30.4	52.0
B TG 43-81	2	4	6.0	1.56	37.4	20.4	25.8		
BC 81-102	2	4	6.5	1.55	42.9	22.7	31.1		
C G 102-132	2	4	6.6	1.57	42.5	20.9	30.9	28.5	56.6

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry			>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-18	2.38	2.56		39.9	42.9							100.0	92.9	88.4	31.1
Aeg	18-43	2.60	2.79		24.5	27.1							100.0	94.0	91.2	41.4
Btg	43-81	2.61	2.79		18.6	21.0							100.0	98.0	95.1	41.7
BC	81-102	2.61	2.81		18.1	20.8							100.0	97.0	94.6	44.4
Cg	102-132	2.63	2.81		19.6	22.1							100.0	100.0	99.7	44.5

# ALBION

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.H.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 04 47	MUMIC LUVIC GLEYSOL(1978)	TYPE: SIMPLE
LONGITUDE (W): 122 36 07	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 60		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: LEVEL  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 135 METERS SOUTH OF INTERSECTION OF BIGGAR AND OLD YALE  
 RDS. LANGLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.5/1.5 MATRIX DRY	SILT LOAM	FINE TO MEDIUM SUBANGULAR BLOCKY	
A EGJ	15- 25	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 2.5Y7.0/1.0 MATRIX DRY	SILT LOAM	MEDIUM PLATY	MEDIUM SUBANGULAR BLOCKY
AB	25- 40	GRADUAL	5.0Y5.5/1.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MEDIUM SUBANGULAR BLOCKY	ANGULAR BLOCKY
B TG1	40- 65	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM PRISMATIC	MEDIUM SUBANGULAR BLOCKY
B TG2	65- 88	DIFFUSE	5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM PRISMATIC	STRONG MEDIUM ANGULAR BLOCKY
BC	88-112	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MEDIUM PRISMATIC	MEDIUM SUBANGULAR BLOCKY
C G	112-128		5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 15	FRIABLE HARD	ABUNDANT		
A EGJ	15- 25	FIRM HARD	ABUNDANT	COMMON MEDIUM PROMINENT 7.5YR6.0/8.0	
AB	25- 40	VERY FIRM	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR5.0/6.0	
B TG1	40- 65	VERY FIRM	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	MANY MOD. THICK ON PED FACES= UNSPECIFIED
B TG2	65- 88	VERY FIRM	FEW	FEW MEDIUM DISTINCT 5.0Y4.0/1.0	MANY MOD. THICK ON PED FACES= UNSPECIFIED
BC	88-112	VERY FIRM	FEW	FEW MEDIUM DISTINCT 10.0YR5.0/5.0	COMMON THIN ON PED FACES= UNSPECIFIED
C G	112-128	VERY FIRM	VERY FEW	FEW MEDIUM DISTINCT 10.0YR5.0/5.0	FEW THIN IN VOIDS AND OR CHANNELS ONLY

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A D 0= 15	2	1	5.7	2	4	5.2	5.92	.32
A EGJ 15= 25	1	1	5.8	2	4	4.9	7.58	.06
AB 25= 40	1	1	5.6	2	4	5.0	.55	.05
B TG1 40= 65	1	1	6.0	2	4	5.7	.39	.03
B TG2 65= 88	1	1	7.0	2	4	6.6		
BC 88=112	1	1	7.6	2	4	7.1		
C G 112=128	2	1	7.6	2	4	7.0		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A D 0= 15	11.80	3.66	.09	.37	29.8	1	.2	1	.3	12.2
A EGJ 15= 25	3.20	1.47	.11	.09	11.2	1	.3	1	.2	4.3
AB 25= 40	6.40	5.66	.18	.15	18.5	1	.2	1	.1	1.4
B TG1 40= 65	13.90	12.92	.40	.30	30.2	1	.0	1	.0	1.9
B TG2 65= 88	15.80	16.72	.58	.31	31.2	1	.2	1	.2	2.6
BC 88=112	15.00	15.30	.58	.34	27.9					1.6
C G 112=128										

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)					TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.				
A D 0= 15	23.5	3.9	21.7	69.0	17.6				
A EGJ 15= 25	9.4	1.0	18.8	67.8	1.8	8	68	24	7
AB 25= 40	.8	2.3	25.1	49.5	13.8				
B TG1 40= 65	9.9	.5	56.0	57.5	8.1	2	47	51	20
B TG2 65= 88	118.5	.5	55.9	72.8	1.3				
BC 88=112	220.3		38.5	65.1	.5				
C G 112=128			50.2	79.0	.5				

ALBION

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION: 49 13 02  
 LONGITUDE (M): 122 34 21  
 PRECISION (SEC): 05  
 ELEVATION (M): 50  
 CLASSIFICATION: HUMIC LUVIC GLEYSOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VAL JE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A H 0= 20									
A EG 20= 43	2	4	4.3	.91	47.6	32.9	59.9	49.5	79.7
AB 43= 61	2	4	5.9	1.14	46.8	29.4	48.3	33.9	78.0
B TG 61=102	2	4	6.4	1.59	40.8	22.0	31.1	25.3	53.6
BC 102=132	2	4	6.5	1.42	41.1	21.7	33.2	24.9	55.2
C G 132=157	2	4							

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %									
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
Ah	0- 20																
Aeg	20- 43	2.49	2.80		34.0	33.0							100.0	100.0	99.0	69.0	
Ab	43- 61																
Beg	61-102	2.52	2.81		23.3	27.4							100.0	100.0	92.0	76.0	
C	102-132	2.61	2.80		22.2	24.8							100.0	100.0	96.0	42.0	
Cg	132-157	2.63	2.82		23.0	25.6							100.0	99.0	95.0	42.0	



# ALBION

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 13 02	HUMIC LUVIC	GLEYSOL(1978)	%	2.0
LONGITUDE(W):	122 34 21	STATUS:	MODAL SOIL	TYPE:	SIMPLE
PRECISION (SEC):	05			CLASS:	GENTLY SLOPING
ELEVATION (M):	50			ASPECT (DEG):	180

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: LEVEL  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 600 METERS SOUTH OF DEMDNEY TRUNK RD., ON COTTONWOOD DR.,  
 MAPLE RIDGE.  
 THE BC AND C G HAVE DARK COATINGS ON CONCHUIDAL FRACTURE FACES.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	CLOUR 1	CLOUR 2	TEXTURE	STRUCTURE 1
A H	0- 13	CLEAR	10.0YR2.0/1.0 MATRIX MOIST		CLAY LOAM	WEAK TO MODERATE FINE GRANULAR
A EGJ	13- 25	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST		CLAY LOAM	MODERATE FINE GRANULAR
AB	25- 40	GRADUAL	2.5Y5.5/2.0 MATRIX MOIST		SILTY CLAY	MODERATE MEDIUM ANGULAR BLOCKY
BA	40- 52	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		CLAY	MODERATE TO STRONG MEDIUM ANGULAR BLOCKY
B TG1	52- 70	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST		CLAY	MODERATE COARSE PRISMATIC
B TG2	70- 98	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		CLAY	MODERATE COARSE PRISMATIC
BC	98-130	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/2.0 MATRIX MOIST	CLAY	STRONG COARSE ANGULAR BLOCKY
C G	130-		5.0Y5.5/1.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A H	0- 13	FRIABLE	ABUNDANT			
A EGJ	13- 25	FRIABLE	ABUNDANT			
AB	25- 40	PLASTIC	PLENTIFUL	MANY MEDIUM PROMINENT 7.5YR6.0/8.0		
BA	40- 52	VERY PLASTIC	FE#	COMMON MEDIUM PROMINENT 7.5YR5.0/7.0		
B TG1	52- 70	VERY PLASTIC	VERY FE#	COMMON FINE DISTINCT 10.0YR5.0/6.0	10.0YR5.0/3.0	
B TG2	70- 98	VERY PLASTIC	VERY FE#	COMMON MEDIUM DISTINCT 10.0YR5.0/6.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	98-130	PLASTIC		COMMON MEDIUM PROMINENT 5.0Y5.0/6.0		
C G	130-	PLASTIC		COMMON MEDIUM PROMINENT 10.0YR5.0/6.0		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A H 0-13	2	1	4.7	2	4	4.0	8.58	.72
A EGJ 13-25	2	1	5.2	2	4	4.0	2.55	.25
AB 25-40	2	1	5.0	2	4	4.0	.99	.11
BA 40-52	2	1	5.0	2	4	4.2	.23	.01
B TG1 52-70	2	1	5.7	2	4	4.8	.23	.01
B TG2 70-98	2	1	6.4	2	4	5.7		
BC 98-130	2	1	6.9	2	4	6.1		
C G 130-	2	1	7.2	2	4	6.3		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K						
A H 0-13	3.20	1.95	.11	.47	49.4	12.2	16.3	12.8	58.5	131.1
A EGJ 13-25	2.69	1.62	.12	.48	37.5	14.6	26.3	7.0	73.7	188.2
AB 25-40	5.81	5.25	.18	.48	37.8	3.6	6.8	8.5	73.7	150.7
BA 40-52	13.59	12.45	.29	.82	47.6	4.6	4.9	7.0	102.2	133.2
B TG1 52-70	17.19	15.25	.34	.46	39.1	8.2	16.0	3.8	85.9	125.1
B TG2 70-98	19.77	16.03	.45	.49	37.3	7.9	117.5	2.0	82.3	129.3
BC 98-130	10.99	11.22	.37	.38	27.0	5.1	200.0	2.0	64.9	103.1
C G 130-	9.65	9.59	.28	.42	22.9	4.6	228.2	1.3	62.2	119.3

# ALOUETTE

UNIT TYPE: SERIES

DATE OF SURVEY: 71 SURVEYOR: MAL KELOWNA, H.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 14 25	ORTHIC GLEYSOL(1978)		TYPE:	SIMPLE
LONGITUDE(W):	122 42 56			CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05	STATUS: MODAL SOIL			
ELEVATION (M):	2	PHASE: PEATY			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ROOTING DEPTH: 82 CM.

DRAINAGE: POORLY DRAINED  
 RUNOFF: VERY SLOW  
 STONINESS: NON-STONY  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED SOUTH OF LOUGHEED HWY: 1600 METERS EAST OF PITT RIVER BRIDGE  
 ORGANIC MATERIAL FROM 0 MP FILLS LAYER CRACKS IN B G.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
0 MP	20- 0	ABRUPT	2.5Y2.0/0.0 MATRIX MOIST 10.0YR2.0/1.0 MATRIX DRY	ORGANIC	MODERATE FINE SUBANGULAR BLOCKY	MODERATE FINE GRANULAR
B G	0- 17	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM PRISMATIC	MODERATE COARSE SUBANGULAR BLOCKY
C G1	17- 40	DIFFUSE	2.5Y4.0/2.0 MATRIX MOIST	LOAM	MASSIVE	
C G2	40- 60	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G3	60- 82	DIFFUSE	5.0Y5.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	
C G4	82-		5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
0 MP	20- 0	FRIABLE SLIGHTLY HARD	ABUNDANT		
B G	0- 17	FRIABLE	ABUNDANT		
C G1	17- 40	FRIABLE	ABUNDANT	COMMON MEDIUM DISTINCT 7.5YR4.0/4.0	
C G2	40- 60	FRIABLE	FEW	COMMON MEDIUM DISTINCT 7.5YR5.0/4.0	10.0YR4.0/4.0
C G3	60- 82	FRIABLE	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	
C G4	82-	FRIABLE PLASTIC		COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
0 MP	20- 0	2	4.2	2	4	3.7	32.19	.99
B G	0- 17	2	4.5	2	4	4.0	5.05	.34
C G1	17- 40	2	4.9	2	4	4.6	3.60	.27
C G2	40- 60	2	5.3	2	4	4.9		.12
C G3	60- 82	2	5.4	2	4	5.0		
C G4	82-	2	5.4	2	4	5.0		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	P1 DDM.	P2 DDM.	S DDM.	CU DDM.	ZN DDM.	
	CA	MG	NA	K							
0 MP	20- 0	.83	.51	.06	.22	67.9	77.6	88.9	71.7	28.6	23.9
B G	0- 17	1.56	.37	.05	.04	24.5	2.6	7.9	12.2	20.1	58.8
C G1	17- 40	6.48	2.01	.07	.04	20.4	1.0	30.6	11.4	31.1	65.6
C G2	40- 60						1.0	93.6	10.2	26.6	58.8
C G3	60- 82						1.0	119.1	11.8	30.3	66.7
C G4	82-						2.9	117.9	12.8	30.3	66.7

# ALOUETTE

UNIT TYPE I SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 LATITUDE (N): 49 14 25  
 LONGITUDE (W): 122 42 56 ORTHIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 2 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC II SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ADDITIONAL NOTES

CLASSIFICATION PHASE: PEATY.

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
0 HP 15-0	2	4	3.5	.46	80.8	49.2	98.4		
B G 0-31	2	4	4.2	.82	55.0	11.8	70.8	41.9	58.0
C G1 31-87	2	4	4.7	1.16	45.3	7.6	48.3	30.7	38.8
C G2 87-112	2	4	5.1	1.23	35.1	5.9	47.6	27.5	32.8

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry			>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
0hp	15-0	1.70	1.88		104.0	109.0								100.0		30.0
Bg	0-31	2.48	2.59		59.9	61.6								98.0	87.0	20.0
Cg1	31-87	2.61	2.70		39.5	40.8								96.0	93.0	12.0
Cg2	87-112	2.61	2.68		37.0	38.0								81.0	72.0	8.0

# ANNACIS

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 05 43	TYPIC HUMISOL(1978)		TYPE:	SIMPLE
LONGITUDE(W):	123 00 04			CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05	STATUS:	MODAL SOIL		
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: BLANKET

DRAINAGE: VERY POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: SOUTHERN EDGE OF BURNS BOG, DELTA MUNICIPALITY,  
 FROM O M DOWN SULPHUR VALUES ARE >500 P.P.M.  
 O M1, O M2 AND O M ARE WEAKLY STRATIFIED.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O M1	135-115	GRADUAL	2.5YR2.0/3.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	
O M2	115- 98	GRADUAL	2.5YR2.0/2.0 MATRIX MOIST	5.0YR2.0/1.0 RUBBED WET/OXIDIZED	ORGANIC	
O M	98- 77	CLEAR	2.5YR2.0/2.0 MATRIX MOIST	5.0YR2.0/1.0 RUBBED WET/OXIDIZED	ORGANIC	
O HS1	77- 48	GRADUAL	5.0YR2.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O HS2	48- 0	ABRUPT	7.5YR3.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
C GS	0+		5.0GY5.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	% FIBRE
O M1	135-115	VERY FRIABLE	ABUNDANT	RUBBED 40
O M2	115- 98	FRIABLE	PLENTIFUL	RUBBED 25
O M	98- 77	FRIABLE	FEW	RUBBED 10
O HS1	77- 48	FRIABLE		RUBBED 5
O HS2	48- 0	FRIABLE PLASTIC		RUBBED 5
C GS	0+	PLASTIC		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
O M1	135-115	2	2	3.8	2	4	3.1	58.00	2.47
O M2	115- 98	2	2	3.6	2	4	2.8	58.00	2.35
O M	98- 77	2	2	4.0	2	4	3.6	58.00	2.66
O HS1	77- 48	2	2	4.5	2	4	4.3	53.71	2.68
O HS2	48- 0	2	2	4.3	2	4	4.0	51.74	2.33
C GS	0+	2	1	3.9	2	4	3.2	1.86	.12

EXCHANGEABLE CATIONS BUFF. (ME/100G)

HORIZON-DEPTH(CM.)	CATIONS				DETERMINED	ELECT. COND. (MMHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	
	CA	MG	NA	K							
O M1	135-115	8.61	10.83	.86	.56	177.7	.30	8.3	15.3	145.8	12.9
O M2	115- 98	8.33	9.76	.69	.17	172.5	.30	1.2	9.5	128.6	7.4
O M	98- 77	30.60	25.50	.47	.13	180.0	1.70	1.3	10.2		63.8
O HS1	77- 48						5.30	7.9	27.4		54.1
O HS2	48- 0						7.20	3.4	12.4		58.1
C GS	0+						5.60	5.7	93.6		83.1

ZN PPM.

HORIZON-DEPTH(CM.)	ZN PPM.	
O M1	135-115	13.9
O M2	115- 98	11.0
O M	98- 77	27.7
O HS1	77- 48	29.9
O HS2	48- 0	49.5
C GS	0+	30.7

# ANNIS

UNIT TYPE: SERIES

DATE OF SURVEY: 71 SURVEYOR: HAL KELOWNA, B.C.M.A. & P.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION			CLASSIFICATION		SLOPE	
LATITUDE (N):	49 11 47		REGO GLEYSOL (1978)		TYPE:	SIMPLE
LONGITUDE (W):	123 03 23				CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05		STATUS: MODAL SOIL			
ELEVATION (M):	2		PHASE: DEATY			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT		MIDDLE STRATIGRAPHIC UNIT	
GENETIC MAT.: ORGANIC		SPEC. CLASTIC: CLAYEY	
SURFACE EXPRES.: VENEER		GENETIC MAT.: FLUVIAL	
		SURFACE EXPRES.: LEVEL	

DRAINAGE: VERY POORLY DRAINED  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 400 METERS SOUTH AND 800 METERS WEST OF INTERSECTION OF #7 ROAD AND C.N. RAILWAY, NORTH RICHMOND.  
 C G1 HAS WIDELY SPACED VERTICAL CRACKS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O HP	27- 12	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST	5.0YR2.0/1.0 RUBBED WET/OXIDIZED	ORGANIC	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
O M	12- 0	ABRUPT	5.0YR3.0/2.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
C G1	0- 10	CLEAR	2.5Y5.0/3.0 MATRIX MOIST		SILTY CLAY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
C G2	10- 38	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		SILTY CLAY	MASSIVE
C G3	38-		5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	% FIBRE
O HP	27- 12	FRIABLE	ABUNDANT		RUBBED 10
O M	12- 0	FIRM	ABUNDANT		RUBBED 25
C G1	0- 10	FIRM	PLENTIFUL	FEW FINE DISTINCT 7.5YR4.0/4.0	
C G2	10- 38	FIRM	FE*	FEW FINE DISTINCT 7.5YR4.0/4.0	
C G3	38-	PLASTIC		FEW FINE PROMINENT 7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O HP	27- 12	2	2	4.0	2	4	3.3	50.58
O M	12- 0	2	2	4.1	4	4	3.3	27.38
C G1	0- 10	2	1	5.0	4	4	4.0	3.13
C G2	10- 38	2	1	5.2	4	4	4.3	.14
C G3	38-	2	1	4.9	4	4	4.2	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	ELECT. COND. (MMHUS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K							
O HP	27- 12	5.18	3.96	.32	.42	91.5	.60	25.4	30.5	48.3	31.5
O M	12- 0	7.05	4.07	.33	.16	128.9	.30	40.6	46.1	110.1	27.1
C G1	0- 10	1.28	.75	.10	.02	22.7	.20	57.5	122.5	1.9	76.2
C G2	10- 38	4.90	3.65	.11	.05	16.8	.20	14.6	49.5	2.6	78.9
C G3	38-						.30	4.8	110.9	13.2	89.7

HORIZON-DEPTH(CM.)	ZN PPM.	
O HP	27- 12	13.9
O M	12- 0	21.0
C G1	0- 10	16.5
C G2	10- 38	42.2
C G3	38-	65.7

# ANNIS

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELDONNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 06 03	HEGO GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 21 11	STATUS: MUDAL SOIL	COMPLEX: GENTLY UNDULATING
PRECISION (SEC): 05		
ELEVATION (M): 5		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE IS PEATY.  
 SITE LOCATION ABOUT 300 METERS SOUTH OF THE BATES-HARRIS RD JUNCTION.  
 MATSOIL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR I	TEXTURE	STRUCTURE I	CONSISTENCE	ROOTS I
O HP	25- 5	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR3.5/1.0 MATRIX DRY	ORGANIC MUCKY		VERY FRIABLE	ABUNDANT
O F	5- 0	ABRUPT	7.5YR3.0/2.0 MATRIX MOIST 10.0YR3.5/3.0 MATRIX DRY	ORGANIC			PLENTIFUL
C G1	0- 10	CLEAR	10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.5/1.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	FIRM	FEW
C G2	10- 20	CLEAR	2.5YR4.0/0.0 MATRIX MOIST 7.5YR7.0/0.0 MATRIX DRY	SILTY CLAY	MASSIVE	VERY FIRM	FEW
C G3	20-	DIFFUSE	2.5YR5.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	VERY FIRM	FEW

HORIZON	THICKNESS DEPTH(CM)	MOTTLES I
O HP	25- 5	
O F	5- 0	
C G1	0- 10	FE# FINE FAINT
C G2	10- 20	COMMON FINE DISTINCT 7.5YR5.0/6.0
C G3	20-	MANY MEDIUM PROMINENT 7.5YR5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
O HP	25- 5	2	5.3	32.77	1.77	26.70	3.30	.30	.30	86.6
O F	5- 0	2	4.8	55.04	2.44	12.50	2.30	.20	.20	125.5
C G1	0- 10	2	5.2	5.10	.32	14.40	4.80	.30	.20	47.5
C G2	10- 20	2	5.4	1.04	.10	11.30	5.70	.60	.20	31.0
C G3	20-	2	6.1	.29	.04	11.80	2.60	1.00	.10	20.2

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
O HP	25- 5	50.3
O F	5- 0	11.8
C G1	0- 10	8.3
C G2	10- 20	7.5
C G3	20-	4.4

# ARNOLD

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 08 15	OPHTIC HUMIC GLEYSOL (1978)	% TYPE: 3.0
LONGITUDE (W): 122 02 50	STATUS: MODAL SOIL	CLASS: COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 7		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MEDIUM GRANULAR	
A HB1	20- 32	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	COARSE SUBANGULAR BLOCKY	
B G	32- 37	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM PRISMATIC	MODERATE SUBANGULAR BLOCKY
A HB2	37- 62	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G	62-105		2.5Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	ABUNDANT	
A HB1	20- 32	FRIABLE	ABUNDANT	
B G	32- 37	FRIABLE	PLENTIFUL	COMMON MEDIUM DISTINCT 10.0YR5.0/8.0
A HB2	37- 62	FRIABLE	PLENTIFUL	
C G	62-105	STICKY VERY FIRM PLASTIC	FEW	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 20	2	1	5.8	2.78	.28	10.92	4.08	.27	.15	25.7
A HB1	20- 32	2	1	5.8	4.93	.36	11.77	4.18	.26	.11	40.9
B G	32- 37	2	1	5.9	1.96	.17	9.88	3.88	.23	.11	26.1
A HB2	37- 62	2	1	5.9	5.74	.36	15.91	7.73	.19	.20	52.2
C G	62-105	2	1	5.9	1.27	.09	18.03	4.55	.27	.14	37.9

HORIZON=DEPTH (CM.)	P1	PPM.
A P	0- 20	4.0
A HB1	20- 32	8.0
B G	32- 37	5.0
A HB2	37- 62	12.0
C G	62-105	4.0



# BANFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 09 27	TERRIC HUMISOL (1978)		%	00.0
LONGITUDE (W):	122 26 58			TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS:	MUDAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	4			ASPECT (DEG):	000

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ROOTING DEPTH: 35 C4.

DRAINAGE: VERY POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 400 METERS NORTH OF GRAY AND LEFEUVRE RD INTERSECTION.  
 THE O H2 CONTAINS INTERSTRATIFIED THIN SILTY BANDS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
D HP	57- 40	CLEAR	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.5/1.0 MATRIX DRY	ORGANIC	MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
D H1	40- 27	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	ORGANIC		FRIABLE	PLENTIFUL
D H2	27- 0	ABRUPT	10.0YR4.0/2.0 10.0YR7.0/1.0 MATRIX DRY	ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY	FIRM	ABUNDANT
C G1	0- 35	CLEAR	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	FIRM	PLENTIFUL
C G2	35-		5.0Y5.0/1.0 MATRIX MOIST 10.0YR6.5/1.0 MATRIX DRY	SILT LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
D HP	57- 40	
D H1	40- 27	
D H2	27- 0	FEW FINE FAINT
C G1	0- 35	FEW FINE DISTINCT 10.0YR4.0/4.0
C G2	35-	FEW MEDIUM DISTINCT 10.0YR5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
D HP	57- 40	2	4.3	32.36	1.99	4.30	1.20	.30	.50	81.7
D H1	40- 27	2	4.2	52.90	2.28	3.90	1.30	.30	.20	52.4
D H2	27- 0	2	4.7	22.04	.96	7.60	3.70	.20	.20	62.8
C G1	0- 35	2	4.7	4.70	.31	8.60	3.60	.20	.10	32.2
C G2	35-	2	4.6							29.4

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.	
D HP	57- 40	30.0	54.0
D H1	40- 27	5.0	12.0
D H2	27- 0	1.0	12.0
C G1	0- 35	3.4	11.0
C G2	35-		

# BANFORD

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 16 31  
 LATITUDE (N): 121 44 55  
 LONGITUDE (W): 05  
 PRECISION (SEC): 18  
 ELEVATION (M):  
 CLASSIFICATION: TERRIC HUMUSOL (1978)  
 STATUS: MODAL SOIL  
 SLOPE: TYPE: SIMPLE  
 CLASS: DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT: GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER  
 DESCRIPTOR 1: FEN  
 MIDDLE STRATIGRAPHIC UNIT: SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
O MP	35- 15	CLEAR	10.0YR2.0/1.5 MATRIX MOIST	ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
O M	15- 0	CLEAR	10.0YR3.0/2.0 MATRIX MOIST	ORGANIC	MASSIVE	
A H	0- 12	CLEAR	10.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G1	12- 30	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G2	30- 47	ABRUPT	5.0Y3.5/1.5 MATRIX MOIST	SILTY CLAY	MASSIVE	
A MB	47- 55	ABRUPT	5.0Y2.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G3	55-		5.0Y4.5/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
O MP	35- 15	FRIABLE	ABUNDANT		
O M	15- 0	FRIABLE	PLENTIFUL		
A H	0- 12	SLIGHTLY PLASTIC	PLENTIFUL		
C G1	12- 30	STICKY PLASTIC	FEW	FEW COARSE PROMINENT 7.5YR5.0/6.0	7.5YR4.0/4.0
C G2	30- 47	STICKY PLASTIC		FEW COARSE PROMINENT 7.5YR5.0/6.0	7.5YR4.0/4.0
A MB	47- 55	STICKY PLASTIC			
C G3	55-	STICKY PLASTIC		FEW MEDIUM PROMINENT 5.0YR4.0/8.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
O MP	35- 15	2	2	5.4	22.50	1.37	33.74	3.50	.23	.28	72.4
O M	15- 0	2	2	3.6	58.00	1.57					
A H	0- 12	2	1	5.4	12.00	.72	20.75	2.50	.16	.12	43.5
C G1	12- 30	2	1	5.3	3.31	.20	12.31	2.07	.13	.10	24.2
C G2	30- 47	2	1	5.3	1.86	.12	13.85	3.08	.15	.20	24.8
A MB	47- 55	2	1	5.2	6.84	.31	23.51	4.91	.15	.16	53.8
C G3	55-	2	1	5.3			16.06	4.12	.15	.20	35.0

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
O MP	35- 15	7.0
O M	15- 0	7.5
A H	0- 12	1.0
C G1	12- 30	1.0
C G2	30- 47	1.0
A MB	47- 55	1.0
C G3	55-	.5

# BATES

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 02 05	GLEEYED ELUVIATED MELANIC BRUNISOL (1978)		X	3.0
LONGITUDE (W):	122 13 05	STATUS: MODAL SOIL		TYPE:	CUMPLEX
PRECISION (SEC):	05			CLASS:	NEARLY LEVEL
ELEVATION (M):	7				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
 GENETIC MAT. IS FLUVIAL  
 SURFACE EXPRES. IS LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 400 METERS SOUTH OF INTERSECTION OF HAY 401 WHATCOM RD.,  
 SUMAS.  
 THE HORIZONS FROM 17CM TO 77CM HAVE COMMON EARTHWORM CASTS; VESICULAR.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST 10.0YR4.5/2.0 MATRIX DRY		SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
A EJJ	17- 35	CLEAR	10.0YR3.5/2.5 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY		SILT LOAM	WEAK TO MODERATE MEDIUM PLATY
B TJGJ1	35- 58	DIFFUSE	10.0YR3.5/2.5 MATRIX MOIST 2.5Y5.5/2.0 MATRIX DRY		SILT LOAM	WEAK TO MODERATE MEDIUM PRISMATIC
B TJGJ2	58- 77	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	10.0YR5.0/2.0 MATRIX MOIST	SILT LOAM	WEAK TO MODERATE MEDIUM PRISMATIC
BC	77- 95	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	10.0Y5.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM TO COARSE PRISMATIC
A HB	95-120	CLEAR	10.0YR4.0/2.0 MATRIX MOIST	10.0YR2.0/1.0 MATRIX MOIST	SILT LOAM	WEAK TO MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
C G	120-150		2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 17	GRANULAR	FRIABLE SLIGHTLY HARD	ABUNDANT		
A EJJ	17- 35	MODERATE FINE SUBANGULAR BLOCKY	FRIAB_E SOFT	ABUNDANT	COMMON FINE DISTINCT	
B TJGJ1	35- 58	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM SLIGHTLY HARD	ABUNDANT	MANY FINE PROMINENT 7.5YR5.0/6.0	5.0YR3.5/5.0
B TJGJ2	58- 77	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM SLIGHTLY HARD	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR3.5/4.0	
BC	77- 95	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	FIRM	PLENTIFUL	MANY COARSE PROMINENT 5.0YR4.0/5.0	
A HB	95-120		FRIABLE	FEW		
C G	120-150		FIRM	FEW	MANY FINE PROMINENT 7.5YR5.0/6.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0-17	2	1	5.9	2	4	5.1	5.39	.39
A E J G J 17-35	2	1	6.0	2	4	4.9	1.10	.10
B T J G J 1 35-58	2	1	6.0	2	4	5.2	.58	.06
B T J G J 2 58-77	2	1	6.2	2	4	5.8	.35	.05
BC 77-95	2	1	6.3	2	4	6.5		.05
A H B 95-120	2	1	6.2	2	4	6.4		.21
C G 120-150	2	1	6.3	2	4	5.5		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
A P 0-17	7.94	2.99	.09	.23	23.5	1	1.2	3	.5
A E J G J 17-35	4.89	1.76	.15	.07	14.1	1	1.1	3	.3
B T J G J 1 35-58	6.82	3.27	.17	.07	14.9	1	1.6	3	.1
B T J G J 2 58-77	6.60	3.59	.16	.06	12.7	1	1.4	3	.1
BC 77-95	7.85	5.02	.20	.08	17.2	1	2.0	3	.2
A H B 95-120	13.34	6.78	.27	.06	33.9	1	1.3	3	.2
C G 120-150						1	1.0	3	.1

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
A P 0-17	1	.9	3	.5	12.8	33.5	8.5	27.6	99.2	17.5
A E J G J 17-35	1	.6	3	.2	13.2	44.9	4.6	40.5	82.8	10.7
B T J G J 1 35-58	1	.7	3	.1	6.8	40.2	3.1	40.7	76.4	18.8
B T J G J 2 58-77	1	.5	3	.1	4.9	61.4	.5	31.7	64.7	9.6
BC 77-95	1	.7	3	.1	4.0	66.3	0.0	35.7	80.3	6.6
A H B 95-120	1	1.0	3	.6	8.5	25.3	1.3	41.6	103.4	10.9
C G 120-150	1	.6	3	.1				39.5	67.2	7.6

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)			
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
A P 0-17				
A E J G J 17-35	1	74	25	9
B T J G J 1 35-58				
B T J G J 2 58-77	11	76	13	9
BC 77-95				
A H B 95-120				
C G 120-150				

**BATES**

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION: LATITUDE(N): 49 02 05  
 LONGITUDE(W): 122 13 05  
 PRECISION (SEC): 05  
 ELEVATION (M): 7  
 CLASSIFICATION: ELUVIATED MELANIC BRUNISOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-30	2	4	5.1	.96	46.5	13.8	64.3		
A E G J 30-61	2	4	5.4	1.22	38.6	9.5	52.5		
B T J G J 61-86	2	4	5.6	1.20	40.1	10.6	51.6	28.4	36.3
C G J 86-117	2	4	5.5						
C G 117-152	2	4	5.7	1.16	34.5	8.5	68.1	27.1	29.6

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
Ap	0-30	2.54	2.68										100.0	97.9	92.0	16.8
Aegj	30-61	2.67	2.77										100.0	98.2	95.3	15.9
Btjgj	61-86	2.68	2.80			27.0							100.0	97.4	95.1	18.5
Cgj	86-117	2.48	2.66										100.0	94.0	92.5	38.8
Cg	117-152	2.67	2.77			26.0							100.0	94.4	85.1	14.0

# BATES

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): 49 08 58 LONGITUDE (W): 122 28 18 PRECISION (SEC): 05 ELEVATION (M): 3	CLASSIFICATION ----- GLEYED ELUVIATED MELANIC BRUNISOL (1978) STATUS: VARIANT SOIL DEVIATION 1: SOLUM THICKNESS	SLOPE ----- % TYPE: 2.0 CLASS: COMPLEX GENTLY UNDULATING
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PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: IMPERFECTLY DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST 5.0YR4.0/1.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM GRANULAR
A ME	20- 30	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM GRANULAR
B TJGJ	30- 35	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A MB	35- 45	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	10.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLDCKY
II B MGJ	45- 77	DIFFUSE	10.0YR4.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY		COARSE SANDY LOAM	FINE SUBANGULAR BLOCKY
III C G	77-+				SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	NOTES 1
A P	0- 20		FRIABLE	ABUNDANT	
A ME	20- 30		FRIABLE	ABUNDANT	
B TJGJ	30- 35		FIRM	PLENTIFUL	COMMON MEDIUM DISTINCT 10.0YR5.0/6.0
A MB	35- 45		FIRM	PLENTIFUL	COMMON MEDIUM DISTINCT 7.5YR5.0/5.0
II B MGJ	45- 77	SINGLE GRAIN	VERY FRIABLE	FEW	
III C G	77-+		LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 20	2	5.6	12.64	.96	11.10	1.60	.10	.20	56.4
A ME	20- 30	2	5.3	4.87	.41	1.10	.80	.00	.10	42.2
B TJGJ	30- 35	2	5.2	2.03	.20	1.50	.90	.10	.10	31.3
A MB	35- 45	2	5.1	2.67	.27	1.60	1.30	.10	.20	33.0
II B MGJ	45- 77	2	5.4	1.28	.12					
III C G	77-+	2	5.6	.70	.07					

HORIZON-DEPTH (CM.)	P1 PPM.	
A P	0- 20	13.5
A ME	20- 30	11.5
B TJGJ	30- 35	8.5
A MB	35- 45	7.5
II B MGJ	45- 77	40.5
III C G	77-+	61.0

# BATES

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 05 37	GLEEYED ELUVIATED MELANIC BRUNISOL(1978	%	2.0
LONGITUDE (W):	122 20 58	STATUS: MODAL SOIL	TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING
ELEVATION (M):	6			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: FLUVIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST 10.0YR2.0/2.0 MATRIX DRY	SILT LOAM	MODERATE FINE SUBANGULAR BLOCKY	MODERATE GRANULAR
A EJ	17- 35	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY	MODERATE FINE SUBANGULAR BLOCKY
B MGJ	35- 65	GRADUAL	5.0Y5.5/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY	
BC	65-		5.0Y5.5/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK COARSE SUBANGULAR BLOCKY	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE	ABUNDANT	
A EJ	17- 35	FRIABLE	PLENTIFUL	FEW FINE FAINT
B MGJ	35- 65	FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR5.0/6.0
BC	65-	FIRM		MANY MEDIUM DISTINCT 7.5YR5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	PH 1	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 17	2	1	5.2	10.38	.88	4.80	1.60	.30	.20	49.9
A EJ	17- 35	2	1	5.4	1.45	.12	3.50	1.40	.10	.10	23.8
B MGJ	35- 65	2	1	5.4	.52	.05	7.80	1.40	.20	.10	20.3
BC	65-	2	1	5.5	.35	.04	9.00	2.60	.20	.10	14.6

HORIZON-DEPTH(CM.)	D1 PPM.	D2 PPM.
A P	0- 17	10.9
A EJ	17- 35	16.8
B MGJ	35- 65	21.4
BC	65-	16.6

# BATES

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE(N):	49 11 12	GLEVED ELUVIATED MELANIC BRUNISOL(1978)	%
LONGITUDE(W):	122 14 25		TYPE:
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:
ELEVATION (M):	7		3.0 COMPLEX GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

THE A EJJ IS SLIGHTLY VESICULAR.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A EJJ	17- 35	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B HGJ	35- 60	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
C G1	60- 80	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/3.0 MATRIX MOIST	SILT LOAM	MASSIVE
C G2	80-		2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/3.0 MATRIX MOIST	SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOYTTLES 1
A P	0- 17	FIRM	ABUNDANT	
A EJJ	17- 35	FIRM	ABUNDANT	FEW FINE DISTINCT 5.0YR5.0/8.0
B HGJ	35- 60	FIRM	PLENTIFUL	COMMON FINE DISTINCT 5.0YR4.0/7.0
C G1	60- 80	FIRM	FEW	MANY MEDIUM PROMINENT 7.5YR5.0/6.0
C G2	80-	FIRM		MANY MEDIUM PROMINENT 7.5YR5.0/7.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 17	2	1	5.4	2	4	4.7	9.69
A EJJ	17- 35	2	1	5.6	2	4	4.6	.99
B HGJ	35- 60	2	1	5.7	2	4	4.7	.35
C G1	60- 80	2	1	5.8	2	4	4.9	.17
C G2	80-	2	1	5.8	2	4	5.0	.35

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.			
	CA	MG	NA	K		DETERMINED	P1 PPM.	P2 PPM.	S PPM.
A P	0- 17	2.95	.48	.08	.21	49.9	31.0	56.0	31.4
A EJJ	17- 35	1.06	.32	.06	.10	20.6	12.6	30.0	12.6
B HGJ	35- 60	2.64	.50	.09	.10	19.1	18.4	37.0	7.2
C G1	60- 80	3.34	.51	.11	.10	15.3	20.7	50.0	8.4
C G2	80-	3.79	.63	.15	.16	15.9	20.2	64.0	3.6

# BEHARREL

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 06 19	MUMIC LUVIC	GLEYSOL(1978)	% TYPE:	3.0
LONGITUDE (W):	122 16 41	STATUS:	MODAL SOIL	CLASS:	COMPLEX
PRECISION (SEC):	05				GENTLY UNDULATING
ELEVATION (M):	6				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 185 METERS NORTHEAST OF INTERSECTION OF HARRIS RD AND CLAYBURN CREEK, MATSQUI VALLEY. THE B TG HAS ORGANIC MATTER AND CLAY COATINGS ON PRISMS. THE C G1 CONTAINS THIN BANDS OF PARTIALLY DECOMPOSED SEDGE REMAINS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	DIFFUSE	10.0YR3.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILTY CLAY LOAM	STRONG MEDIUM SUBANGULAR BLOCKY	
A EG	17- 27	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE FINE SUBANGULAR BLOCKY	
B TG	27- 47	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	CLAY	STRONG COARSE PRISMATIC	COARSE ANGULAR BLOCKY
BC	47- 60	ABRUPT	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
C G1	60- 68	CLEAR		SILT LOAM	PLATY PSEUDO	
C G2	68- 87	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.5/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
C G3	87-+		5.0Y5.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 17	FIRM	PLENTIFUL	FEW FINE FAINT	
A EG	17- 27	FIRM	PLENTIFUL	COMMON FINE DISTINCT 2.5YR3.0/6.0	
B TG	27- 47	VERY FIRM	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	MANY ON PED FACES= UNSPECIFIED
BC	47- 60	FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR4.0/4.0	
C G1	60- 68	FRIABLE	FEW	FEW MEDIUM DISTINCT 10.0YR5.0/4.0	
C G2	68- 87	VERY FIRM		FEW MEDIUM DISTINCT 10.0YR5.0/4.0	
C G3	87-+	FIRM		FEW FINE FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1 STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	5.9	3.60	.30	10.90	2.90	.20	.10	28.0
A EG	17- 27	2	5.7	2.90	.25	8.80	3.50	.20	.10	27.2
B TG	27- 47	2	5.3	1.74	.12	8.80	5.70	.20	.10	28.0
BC	47- 60	2	5.3	3.02	.18	9.60	6.00	.30	.10	31.4
C G1	60- 68	2	5.2	12.53	.73	14.20	7.50	.30	.20	57.8
C G2	68- 87	2	5.5	2.14	.15	6.80	6.40	.30	.10	18.8
C G3	87-+	2	5.4	1.68	.13	6.10	4.10	.20	.10	16.0

HORIZON-DEPTH(CM.)	D1 PPM.	D2 PPM.
A P	0- 17	19.3
A EG	17- 27	19.8
B TG	27- 47	6.4
BC	47- 60	5.0
C G1	60- 68	5.0
C G2	68- 87	4.1
C G3	87-+	3.8



# BEHARREL

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 06 19  
 LONGITUDE (W): 122 16 41 MUMIC LUVIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 6

PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-18	2	4	4.8	.95	48.6	20.7	46.5		
B TG 18-69	2	4	4.7	1.03	33.2	20.8	46.7	36.0	57.8
BC 69-84	2	4	5.0	.96	51.3	29.5	58.3	37.5	68.2
C G1 84-117	2	4	5.4	1.26	35.9	11.4	37.7		
C G2 117-142	2	4	5.5	1.35	29.5	8.2	37.6	25.1	31.7

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-18	2.47	2.62									100.0	99.0	96.2	41.3
Btg	18-69	2.57	2.73			29.0						100.0	100.0	97.4	46.8
BC	69-84	2.48	2.70			28.0						100.0	100.0	99.9	67.1
Cg1	84-117	2.65	2.77									100.0	92.8	80.0	16.3
Cg2	117-142	2.67	2.77			25.0						100.0	81.0	73.6	13.6

# BENSON

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 03 50	REGO HUMIC GLEYSOL(1978)	%	1.0
LONGITUDE(W):	123 01 18		TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ROOTING DEPTH: 102 CM. DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE IS: SALINE.  
 SULPHUR VALUES IN A PSA, C SG1, C SG2 ARE >100 P.P.M.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A PSA	0- 22	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST		LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C SG1	22- 42	DIFFUSE	5.0Y5.0/1.5 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
C SG2	42- 65	CLEAR	5.0Y5.0/1.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
C SG3	65- 80	CLEAR	5.0Y5.0/2.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
C SG4	80-102	DIFFUSE	N4.0/0.0 MATRIX MOIST	5.0BG4.0/1.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE
C SG5	102-		N4.0/0.0 MATRIX MOIST	5.0BG4.0/1.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A PSA	0- 22	FRIABLE	ABUNDANT		
C SG1	22- 42	VERY FRIABLE	PLENTIFUL	MANY COARSE PROMINENT 5.0YR4.0/6.0	5.0YR3.0/4.0
C SG2	42- 65	VERY FRIABLE	PLENTIFUL	MANY COARSE PROMINENT 7.5YR5.0/7.0	5.0YR4.0/6.0
C SG3	65- 80	FRIABLE	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0	7.5YR4.0/4.0
C SG4	80-102	FRIABLE	FEW	COMMON COARSE PROMINENT 7.5YR4.0/4.0	5.0YR4.0/6.0
C SG5	102-	FRIABLE		FEW COARSE PROMINENT 7.5YR4.0/4.0	5.0YR4.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A PSA 0- 22	2	1	5.2	2	4	5.0	5.45	.36
C SG1 22- 42	2	1	5.7	2	4	5.3	.99	.02
C SG2 42- 65	2	1	4.4	2	4	4.3	.23	.26
C SG3 65- 80	2	1	3.7	2	4	3.7	.35	.04
C SG4 80-102	2	1	3.3	2	4	3.4	.88	.05
C SG5 102-	2	1	4.0	2	4	4.2	1.04	.09

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	ELECT. COND. (MHMOS/CM)	P1 PPM,	P2 PPM,	CU PPM,	ZN PPM,
	CA	MG	NA	K							
A PSA 0- 22	12.68	3.42	2.33	.20		24.6	16.90	26.7	163.9	12.6	42.8
C SG1 22- 42	7.50	1.80	.85	.35		5.2	8.70	42.8		50.4	46.6
C SG2 42- 65	.93	1.58	1.06	.38		6.2	11.80	13.1		10.1	62.4
C SG3 65- 80	.93	1.75	2.23	.26		7.2	12.70	19.5		10.1	37.9
C SG4 80-102	1.06	.51	.11	.51		7.8	17.50	32.9	113.9	13.9	51.9
C SG5 102-	1.20	1.54	1.85	.99		8.1	16.80	5.0	156.4	16.4	63.1

# BENSON

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 03 47  
 LATITUDE(N): 123 01 27  
 LONGITUDE(W): 05  
 PRECISION (SEC):  
 CLASSIFICATION: REGO HUMIC GLEYSOL(1978)  
 STATUS: MODAL SOIL  
 SLOPE: 1.0  
 TYPE: COMPLEX  
 CLASS: GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SANDY  
 GENETIC MAT. IS FLUVIAL  
 SURFACE EXPRES. IS LEVEL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

CLASSIFICATION PHASE 1 SALINE.  
 THE II C GS2 IS MICACEOUS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A PS	0- 15	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	LOAM	MODERATE MEDIUM GRANULAR	MODERATE MEDIUM SUBANGULAR BLOCKY
C G	15- 25	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILT LOAM	WEAK COARSE SUBANGULAR BLOCKY PSEUDO	
II C GS1	25-100		5.0Y5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	FINE SAND	SINGLE GRAIN	
II C GS2	100-		2.5Y3.0/0.0 MATRIX MOIST 2.5Y5.0/0.0 MATRIX DRY	FINE SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A PS	0- 15	FRIABLE	ABUNDANT	
C G	15- 25	SLIGHTLY STICKY FIRM SLIGHTLY PLASTIC	FEW	COMMON FAINT
II C GS1	25-100	LOOSE	VERY FEW	MANY PROMINENT 7.5YR4.0/4.0
II C GS2	100-	LOOSE		COMMON DISTINCT 10.0YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPH.
					CA	MG	NA	K			
A PS 0- 15	2	1	1	4.9	7.56	15.14	5.97	.94	50.4	4.30	48.5
C G 15- 25	2	1	1	5.2	4.58	11.11	16.94	.92	23.1	15.00	27.8
II C GS1 25-100	2	1	1	6.0	1.71	3.98	6.52	.61	7.8	7.00	43.0
II C GS2 100-	2	1	1	3.6						6.80	

# BERRY

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE(N):	49 07 19	GLEEYED PODZOLIC GRAY LUVISOL(1978)	%	4.0
LONGITUDE(W):	122 35 07		TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING
ELEVATION (M):	20		STATUS:	MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 800 METERS NORTHWEST OF CORNER OF MEDD AND LIVINGSTONE RDS  
 LANGLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	7.5YR3.0/2.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F	20- 32	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B MGJ	32- 47	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY		SILTY CLAY	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
A EG	47- 62	CLEAR	2.5Y5.5/2.0 MATRIX MOIST		SILTY CLAY	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
B TG1	62- 77	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		HEAVY CLAY	MODERATE TO STRONG COARSE PRISMATIC
B TG2	77- 98	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		HEAVY CLAY	MODERATE TO STRONG COARSE PRISMATIC
BC	98-117	DIFFUSE	2.5Y4.0/2.0 MATRIX MOIST	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MODERATE TO STRONG MEDIUM TO COARSE ANGULAR BLOCKY
C G	117-		2.5Y4.0/2.0 MATRIX MOIST	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MODERATE TO STRONG MEDIUM TO COARSE ANGULAR BLOCKY PSEUDO

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 20	MODERATE MEDIUM GRANULAR	FRIABLE	ABUNDANT		
B F	20- 32		FRIABLE	ABUNDANT	FEW FINE FAINT	
B MGJ	32- 47		FIRM	ABUNDANT	COMMON MEDIUM DISTINCT 7.5YR5.0/7.0	
A EG	47- 62		FIRM	PLENTIFUL	COMMON MEDIUM DISTINCT 7.5YR7.0/6.0	
B TG1	62- 77	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	FIRM	FEW	COMMON MEDIUM PROMINENT 7.5YR5.0/7.0	10.0YR5.0/6.0
B TG2	77- 98	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	VERY FIRM		COMMON MEDIUM PROMINENT 5.0YR2.0/2.0	10.0YR2.0/2.0
BC	98-117				COMMON MEDIUM DISTINCT 10.0YR4.0/4.0	
C G	117-				COMMON MEDIUM DISTINCT 10.0YR4.0/4.0	

BERRY (Continued)

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCIP. I
A P	0- 20	FEW FINE THROUGHOUT MATRIX
B F	20- 32	FEW FINE THROUGHOUT MATRIX
B MGJ	32- 47	
A EG	47- 62	
B TG1	62- 77	
B TG2	77- 98	
BC	98-117	
C G	117-	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 20	2	1	6.1	4.18	.29	6.47	.81	.19	.16	30.0
B F	20- 32	2	1	6.2	1.68	.13	2.26	.76	.14	.13	25.0
B MGJ	32- 47	2	1	5.5	.70	.06	4.33	4.17	.25	.21	28.5
A EG	47- 62	2	1	5.3	.29	.03	7.25	10.86	.57	.27	39.5
B TG1	62- 77	2	1	6.2	.29	.03	13.98	19.81	1.17	.38	43.6
B TG2	77- 98	2	1	6.0			13.09	18.93	1.31	.43	39.7
BC	98-117	2	1	7.2			10.74	14.19	1.19	.41	30.8
C G	117-	2	1	7.6			7.97	7.67	1.07	.29	29.6

HORIZON=DEPTH(CM.)	EXTRACTABLE PE(%)		EXTRACTABLE AL(%)		PARTICLE SIZE(%)						
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL	
A P	0- 20	1	1.6	1	1.6	9.0	16.0	6	60	34	9
B F	20- 32	1	1.3	1	1.5	3.2	11.0	6	58	36	10
B MGJ	32- 47	1	1.3	1	.1	3.7	5.0	3	52	45	13
A EG	47- 62	1	.1	1	.1	2.1	3.0	1	49	50	10
B TG1	62- 77					1.6	34.0	1	39	60	18
B TG2	77- 98					1.0	202.0	0	35	65	20
BC	98-117					1.0	229.0	2	44	54	13
C G	117-	1	.1	1	.1	3.1	230.0	8	49	43	11

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 μ)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Btg <sub>1</sub> (62-77)	vermiculite			montmorillonite, mica, kaolinite, quartz, chlorite, plagioclase feldspars		vermiculite	montmorillonite		mica, inters stratified vermiculite, mica, quartz	kaolinite

# BLACKBURN

UNIT TYPE: SERIES

SAMPLING PURPOSE: DETAILED SURVEY

VKC

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 08 51	URTHIC HUMIC GLEYSOL (1978)		% TYPE:	1.0
LONGITUDE (W):	122 00 24			CLASS:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL			GENTLY UNDULATING
ELEVATION (M):	7				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
GENETIC MAT. I FLUVIAL  
SURFACE EXPRES. LEVEL

DRAINAGE: POORLY DRAINED  
RUNOFF: SLOW  
PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	WEAK FINE TO MEDIUM GRANULAR
B G1	17- 45	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG VERY COARSE PRISMATIC
B G2	45- 70	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG PRISMATIC
C G1	70-102		5.0Y5.0/2.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE
II C G	102-		5.0Y4.0/2.0 MATRIX MOIST		VERY FINE SAND	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE	ABUNDANT	
B G1	17- 45	VERY FIRM	PLENTIFUL	MANY MEDIUM DISTINCT 10.0YR5.0/8.0
B G2	45- 70	FIRM	FEW	MANY PROMINENT 10.0YR5.0/8.0
C G1	70-102	FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR5.0/8.0
II C G	102-	VERY FRIABLE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	5.4	6.00	.54	7.88	1.83	.20	.24	35.3
B G1	17- 45	2	5.7	1.68	.05	7.10	2.76	.18	.06	25.3
B G2	45- 70	2	5.9	1.36	.12	10.88	5.26	.20	.10	30.6
C G1	70-102	2	6.0	1.02	.09	8.02	2.81	.18	.08	19.9
II C G	102-	2	5.7	.08	.02	1.00	.67	.09	.01	3.3

HORIZON-DEPTH(CM.)	P1 PPM.	
A P	0- 17	27.0
B G1	17- 45	10.0
B G2	45- 70	7.0
C G1	70-102	3.0
II C G	102-	41.0

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-4% est.	<20% est.	Trace
Cg1 (70-102)	chlorite	illite	vermiculite, plagioclase feldspars, kaolinite, quartz, gypsum	montmorillonite		chlorite	vermiculite	illite, kaolinite, montmorillonite, quartz		

# BLANEY

DATE OF SURVEY: 68 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION ----- LATITUDE(N): 49 18 21 LONGITUDE(W): 122 34 18 PRECISION (SEC): 10 ELEVATION (M): 460	CLASSIFICATION ----- DURIC FERRO-HUMIC PODZOL(1978) STATUS: MODAL SOIL	SLOPE ----- % 40.0 TYPE: SIMPLE CLASS: VERY STEEPLY SLOPING ASPECT (DEG): 180
PARENT MATERIAL & LANDFORM ----- UPPER STRATIGRAPHIC UNIT ----- SPEC. CLASTIC IS SANDY GENETIC MAT. MORAINAL SURFACE EXPRES. BLANKET	BEDROCK ----- OPTH TO BEDROCK: 90 CM. TYPE: INTRUSIVE ACID	
ROOTING DEPTH: 110 CM.		DRAINAGE: MODERATELY WELL DRAINED PERVIOUSNESS: SLOW

ADDITIONAL NOTES  
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SITE LOCATION: 1200 METERS EAST OF LOON LAKE, UBC RESEARCH FOREST.  
 THERE IS A WELL DEVELOPED ROOT MAT IN THE B HFGJ HORIZON.  
 BEDROCK IS AT 130CM.

PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L-H	4- 0		ABRUPT				
A E	0- 4	3- 10	DIFFUSE	7.5YR4.5/4.0 MATRIX MOIST 7.5YR6.0/3.0 MATRIX DRY	10.0YR6.0/4.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
B HF1	4- 22		DIFFUSE	7.5YR4.5/4.0 MATRIX MOIST 7.5YR6.0/3.0 MATRIX DRY	10.0YR6.0/4.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B HF2	22- 40		CLEAR	5.0YR3.0/3.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		LOAMY SAND GRAVELLY	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B HFC1	40- 70		CLEAR	5.0YR3.0/2.0 MATRIX MOIST 7.5YR3.0/2.0 MATRIX DRY	10.0YR6.0/4.0 MATRIX DRY	LOAMY SAND GRAVELLY	MASSIVE
B FC	70- 90		DIFFUSE	5.0YR3.5/4.0 MATRIX MOIST 7.5YR4.5/5.0 MATRIX DRY		LOAMY SAND GRAVELLY	MASSIVE
B HFC2	90-110		CLEAR	5.0YR4.0/6.0 MATRIX MOIST 2.5YR2.5/5.0 MATRIX DRY		LOAMY SAND GRAVELLY	MASSIVE
B HFGJ	110-130		ABRUPT	2.5YR3.0/5.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
R	130-+						

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
L-H	4- 0					
A E	0- 4	SINGLE GRAIN	VERY FRIABLE SOFT	PLENTIFUL		
B HF1	4- 22		FRIABLE	PLENTIFUL		
B HF2	22- 40		FRIABLE	ABUNDANT		
B HFC1	40- 70		VERY FIRM	ABUNDANT		STRONGLY CEMENTED
B FC	70- 90		VERY FIRM	PLENTIFUL		STRONGLY CEMENTED
B HFC2	90-110		VERY FIRM	FEW	FEW FINE DISTINCT	STRONGLY CEMENTED
B HFGJ	110-130		FRIABLE	ABUNDANT	COMMON MEDIUM PROMINENT 5.0Y5.0/3.0	
R	130-+					

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARRON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
L=H	4= 0	2	4.2	2	4	3.1	50.81	1.32	
A E	0= 4	1	4.3	2	4	3.6	1.97	.07	
B MF1	4= 22	2	5.0	2	4	4.4	5.25	.16	
B MF2	22= 40	2	5.1	2	4	4.2	5.00	.18	
B MFC1	40= 70	1	5.2	2	4	4.3	7.19	.26	
B FC	70= 90	1	5.4	2	4	4.5	4.64	.16	
B MFC2	90=110	2	5.3	2	4	4.6	5.16	.17	
B MFGJ	110=130	2	5.2	2	4	4.3	13.86	.50	
R	130=+	1							

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
L=H	4= 0	15.68	2.12	.16	1.59	99.0			
A E	0= 4	.66	.10	.03	.08	9.8			
B MF1	4= 22	.11	.00	.02	.06	27.6	1	0.7	3
B MF2	22= 40	.11	.00	.02	.06	29.7	1	0.8	3
B MFC1	40= 70	.10	.00	.02	.08	45.3	1	0.7	3
B FC	70= 90	.10	.00	.02	.02	35.9	1	0.7	3
B MFC2	90=110	.10	.00	.02	.02	41.0	1	1.3	3
B MFGJ	110=130	.20	.00	.02	.06	56.1	1	1.1	3
R	130=+								

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	METHOD	RESULT	METHOD	RESULT					
L=H	4= 0				30.4	39.0	18.0	90.0	
A E	0= 4				1.5	2.5	6.3	8.8	
B MF1	4= 22	1	1.8	3	0.9	4.2	12.5	70.3	
B MF2	22= 40	1	1.9	3	1.0	4.7	12.5	50.8	
B MFC1	40= 70	1	3.0	3	1.2	2.8	13.0	65.9	
B FC	70= 90	1	3.2	3	1.2	5.2	9.5	92.2	
B MFC2	90=110	1	3.6	3	1.3	.5	8.0	100.9	
B MFGJ	110=130	1	5.2	3	2.4	.5	8.0	92.5	
R	130=+							32.2	



# BLUNDELL

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELOWNA: H.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 10 30	REGD GLEYSOL(1978)	%	1.0
LONGITUDE(W):	123 04 32		TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	3	PHASE: DEATY		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: VERY SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NEAR INTERSECTION OF WESTMINSTER HWY AND #6 RD, RICHMOND.  
 CLASSIFICATION PHASE IS ALSO SALINE.  
 THE O HP HAS PIECES OF C G1 MATERIAL MIXED IN. THE C G1 HAS VERTICAL  
 CRACKS UP TO 2CM WIDE COATED WITH DARK REDDISH BROWN ORGANIC MATERIAL.  
 THE C G2 HAS OCCASIONAL VERTICAL CRACKS. THE C G3 AND C G5 HAVE HARD  
 TUBULES AROUND OLD ROOT CHANNELS.  
 SULPHUR VALUES IN C G5 AND II C G5 >500 P.P.M.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	22= 0	ABRUPT	10.0YR2.0/1.5 MATRIX MOIST	ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
C G1	0= 21	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY PSEUDO	FIRM	PLENTIFUL
C G2	21= 45	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	FEW
C G3	45= 73	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	
C G5	73= 83		5.0Y4.0/0.0 MATRIX MOIST	LOAM	MASSIVE	FRIABLE	
II C G5	83=+		2.5Y4.0/0.0 MATRIX MOIST	LOAMY SAND	MASSIVE	LOOSE	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	MOTTLES 2
O HP	22= 0		
C G1	0= 21	FEW FINE PROMINENT 5.0YR3.0/4.0	5.0YR4.0/8.0
C G2	21= 45	FEW FINE PROMINENT 5.0YR3.0/4.0	
C G3	45= 73	FEW FINE PROMINENT 5.0YR3.0/4.0	
C G5	73= 83	FEW FINE PROMINENT 5.0YR3.0/4.0	
II C G5	83=+		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O HP	22= 0	2	2	4.6	2	4	3.9	27.03
C G1	0= 21	2	1	4.3	4	4	3.6	12.9
C G2	21= 45	2	1	4.0	4	4	3.5	48.4
C G3	45= 73	2	1	3.6	4	4	3.5	25.6
C G5	73= 83	2	1	3.1	4	4	3.4	388.9
II C G5	83=+							

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K							
O HP	22= 0	6.75	1.16	.10	.37	64.8		31.2	58.2	30.6	62.8
C G1	0= 21	1.72	.75	.10	.15	21.6		12.9	48.4	25.6	63.0
C G2	21= 45	1.67	1.56	.14	.10	24.3		17.8	55.6	388.9	70.8
C G3	45= 73							23.1	76.2		69.7
C G5	73= 83							5.40	80.0		71.8
II C G5	83=+							8.10			

HORIZON=DEPTH(CM.)	ZN PPM.	
O HP	22= 0	74.2
C G1	0= 21	36.1
C G2	21= 45	54.2
C G3	45= 73	48.8
C G5	73= 83	36.7
II C G5	83=+	

# BONSON

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE(N):	49 14 47	GLEYED SOMBRIC BRUNISOL(1978)	%	2.0
LONGITUDE(W):	122 36 49		TYPE:	COMPLEX
PRECISION (SEC):	02		CLASS:	GENTLY UNDULATING
ELEVATION (M):	4		STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 STONINESS: NON-STONY  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 400 METERS NORTH OF 132 AVE. JUST EAST OF PARK LANE, MAPLE RIDGE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B MGJ1	15- 30	DIFFUSE	10.0YR4.5/2.5 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B MGJ2	30- 47	DIFFUSE	2.5Y5.0/3.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B MGJ3	47- 67	CLEAR	2.5Y5.0/3.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
C G	67- 97	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SANDY LOAM	MASSIVE
II C G	97-		5.0Y5.5/3.0 MATRIX MOIST		SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	PORES 1	MOTTLES 1	MOTTLES 2
A P	0- 15	WEAK MEDIUM GRANULAR	FRIABLE	ABUNDANT			
B MGJ1	15- 30		FRIABLE	ABUNDANT	PLENTIFUL VESICULAR	FEW FINE DISTINCT 7.5YR5.0/5.0	
B MGJ2	30- 47		FRIABLE	PLENTIFUL	PLENTIFUL VESICULAR	MANY FINE DISTINCT 7.5YR5.0/5.0	
B MGJ3	47- 67		FRIABLE	PLENTIFUL		MANY MEDIUM PROMINENT 5.0YR4.0/6.0	7.5YR5.0/6.0
C G	67- 97		FRIABLE	FEW		MANY COARSE PROMINENT 7.5YR4.0/4.0	
II C G	97-		LOOSE			COMMON COARSE DISTINCT 10.0YR6.0/6.0	

HORIZON	THICKNESS DEPTH(CM)	CLAY FILMS 1
A P	0- 15	
B MGJ1	15- 30	COMMON THIN ON PED FACES- UNSPECIFIED
B MGJ2	30- 47	COMMON TWIN ON PED FACES- UNSPECIFIED
B MGJ3	47- 67	
C G	67- 97	
II C G	97-	

BONSON (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 15	2	1	5.1	2	4	4.9	11.14	.53
B HGJ1 15- 30	2	1	5.7	2	4	5.2	5.05	.30
B HGJ2 30- 47	2	1	5.8	2	4	5.2		.17
B HGJ3 47- 67	2	1	5.8	2	4	5.3		.12
C G 67- 97	2	1	5.8	2	4	5.4		
II C G 97-	2	1	5.7	2	4	5.7		

  

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.				
	CA	MG	NA	K	DETERMINED	P1 PPM,	P2 PPM,	S PPM,	CU PPM,	ZN PPM,
A P 0- 15	8.71	1.13	.06	.51	31.0	98.3	219.0	20.5	44.9	72.1
B HGJ1 15- 30	6.91	.51	.13	.10	32.6	6.2	24.4	16.2	39.9	48.4
B HGJ2 30- 47	3.17	.21	.14	.03	24.0	12.8	36.8	36.3	36.3	50.0
B HGJ3 47- 67	1.96	.17	.19	.04	15.5	10.8	37.0	69.5	33.3	38.5
C G 67- 97						21.7	47.6	46.3	25.6	28.2
II C G 97-						28.9	50.5	54.0	17.9	23.5

BOOSEY

UNIT TYPE: SERIES

DATE OF SURVEY: 64 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: REGO MUMIC GLEYSOL(1978) STATUS: MODAL SOIL  
 CLASSIFICATION: REGO MUMIC GLEYSOL(1978) STATUS: MODAL SOIL  
 SLOPE: 4.0 COMPLEX UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LF	4- 0	ABRUPT					
A H	0- 15	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM GRANULAR	VERY FRIABLE	ABUNDANT
C G1	15- 30	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	LOAMY SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW
C G2	30- 55	CLEAR	2.5Y5.0/2.0 MATRIX MOIST	SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW
II C G	55-		2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	

THICKNESS MOTTLES 1

HORIZON	DEPTH(CM)	MOTTLES 1
LF	4- 0	
A H	0- 15	
C G1	15- 30	COMMON MEDIUM FAINT 10.0YR4.0/4.0
C G2	30- 55	FEW MEDIUM FAINT 10.0YR4.0/4.0
II C G	55-	COMMON MEDIUM DISTINCT 10.0YR5.0/4.0

PHYSICAL & CHEMICAL DATA

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	% VOL
LF 4- 0	
A H 0- 15	25
C G1 15- 30	35
C G2 30- 55	40
II C G 55-	

# BOSE

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELDANA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 07 47			
LONGITUDE (W):	122 54 39	DURIC HUMU-FERRIC PODZOL(1978)		
PRECISION (SEC):	05		% TYPE:	6.0
ELEVATION (M):	65	STATUS: MODAL SOIL	CLASS:	COMPLEX GENTLY ROLLING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: SUBDUED

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

THE CA AND MG VALUES ARE COMBINED UNDER CA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
L	3= 0	DIFFUSE				
A E	0= 5	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST 2.5Y6.0/0.0 MATRIX DRY	LOAMY SAND GRAVELLY	VERY WEAK PLATY	VERY WEAK FINE SUBANGULAR BLOCKY
B F1	5= 37	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	
B F2	35= 72	ABRUPT	7.5YR4.5/4.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	
B M	72=120	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SAND GRAVELLY	SINGLE GRAIN	
II B C	120=130	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.5/1.0 MATRIX DRY	SANDY LOAM	MASSIVE	
II BC	130=+		2.5Y6.0/0.0 MATRIX MOIST	SANDY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
L	3= 0			
A E	0= 5	VERY FRIABLE	ABUNDANT	
B F1	5= 37	VERY FRIABLE	ABUNDANT	
B F2	35= 72	LOOSE	ABUNDANT	
B M	72=120	LOOSE	ABUNDANT	
II B C	120=130	VERY FIRM HARD		COMMON MEDIUM DISTINCT
II BC	130=+	VERY FIRM HARD		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)		C. E. C. DETERMINED
							CA	K	
L	3= 0	2	2	4.7	47.27	.86		1.68	62.4
A E	0= 5	2	1	4.7	1.22	.03	1.10	.12	14.4
B F1	5= 37	2	1	5.6	1.28	.05	.33	.05	21.3
B F2	35= 72	2	1	5.9	.87	.04	.41	.04	17.3
B M	72=120	2	1	5.8	.93	.03	.61	.05	15.6
II B C	120=130	2	1	5.8	.41	.02	.43	.07	17.3
II BC	130=+								

COARSE FRAGMENTS

HORIZON=DEPTH(CM.)	P1 DPM.	% VOL
L	3= 0	113.0
A E	0= 5	33.0
B F1	5= 37	15.0
B F2	35= 72	9.0
B M	72=120	14.0
II B C	120=130	32.0
II BC	130=+	40

# BOSE

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: DNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N11)	49 00 11	DURIC HUMO-FERRIC PODZOL (1978)		%	10.0
LONGITUDE (W11)	122 42 24	STATUS: MODAL SOIL		TYPE:	COMPLEX
PRECISION (SEC):	05			CLASS:	MODERATELY ROLLING
ELEVATION (M):	85			ASPECT (DEG):	315

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	3- 0	ABRUPT				
B F1	0- 22	GRADUAL	5.0YR3.0/3.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	SANDY LOAM GRAVELLY	VERY WEAK FINE TO MEDIUM GRANULAR	
B F2	22- 60	GRADUAL	5.0YR3.0/3.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	SANDY LOAM GRAVELLY	VERY WEAK FINE TO MEDIUM GRANULAR	
B M	60- 85	ABRUPT	10.0YR4.5/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SAND GRAVELLY	MASSIVE	SINGLE GRAIN
II BC 1	85-100		5.0Y5.0/2.0 MATRIX MOIST 2.5Y7.0/2.0 MATRIX DRY	LOAM	MASSIVE	
II BC 2	100-+		2.5Y4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	CLAY LOAM	MASSIVE	STRONG MEDIUM TO COARSE ANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LH	3- 0				
B F1	0- 22	VERY FRIABLE SOFT	ABUNDANT		
B F2	22- 60	VERY FRIABLE SOFT	ABUNDANT		
B M	60- 85	LOOSE SLIGHTLY HARD	FEW		WEAKLY CEMENTED DISCONTINUOUS
II BC 1	85-100	FRIABLE HARD	VERY FEW	FEW DISTINCT	
II BC 2	100-+	FIRM VERY HARD		FEW DISTINCT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS			
	% VOL	GRAVEL %	COBBLE %	STONE %
LH	3- 0			
B F1	0- 22	50	20	10
B F2	22- 60	50	20	10
B M	60- 85	50	30	10
II BC 1	85-100	30	20	10
II BC 2	100-+			

# BOSE

UNIT TYPE: SERIES

DATE OF SURVLY: 72 SURVEYOR: HAL UBC

LOCATION		CLASSIFICATION	
LATITUDE (N):	49 16 18	DURIC HJMO=FERRIC PODZOL(1978)	
LONGITUDE (W):	123 14 03	STATUS:	MODAL SOIL
PRECISION (SEC):	05		
ELEVATION (M):	80		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

CDM: CLASTIC I: GRAVELLY  
GENETIC MAT.: MARINE  
SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS	
						% FIELD MOISTURE	% FIELD MOISTURE
A P 0- 15				4.7	.80	18.8	
B F1 15- 41		2	4		1.50	8.7	
B F2 41- 71							
B M1 71- 81					1.60	6.0	
B M2 81- 91							
I1 BC 1 91-102					1.84	9.1	
I1 BC 2 102-127					2.13	8.8	

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry			>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0- 15									100.0	92.4	72.6	61.4		35.0	4.0
Bf1	15- 41									100.0	83.7	50.9	39.5		10.0	1.0
Bf2	41- 71															
Bm1	71- 81								4.4	95.6	81.8	57.0	44.9		9.0	1.0
Bm2	81- 91															
I1BC1	91-102									100.0	100.0	94.3	90.7		44.0	5.0
I1BC2	102-127									100.0	100.0	95.2	87.7		44.0	6.0

# BUCKERFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELDUNA: H.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): LONGITUDE (W): ELEVATION (M):	CLASSIFICATION ----- ORTHIC HUMIC GLEYSOL (1978) STATUS: MODAL SOIL	SLOPE ----- % TYPE: 1.0 COMPLEX
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC IS SILTY  
GENETIC MAT. IS LACUSTRINE  
SURFACE EXPRES. IS LEVEL

DRAINAGE: POORLY DRAINED  
RUNOFF: SLOW

ADDITIONAL NOTES  
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IN THE B GJ AGGREGATES BREAK ON VERTICAL PLANES.  
 THE A MB IS A RELIC SURFACE HORIZON.

PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	GRANULAR
B GJ	17- 50	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	WEAK TO MODERATE VERY COARSE PRISMATIC	
B G	50- 67	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE VERY COARSE PRISMATIC	
A MB	67- 76	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	SILTY CLAY LOAM		
C G	76-		10.0YR4.0/3.0 MATRIX MOIST	SILT LOAM		

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE	PLENTIFUL	
B GJ	17- 50	FRIABLE	PLENTIFUL	MANY DISTINCT 10.0YR5.0/6.0
B G	50- 67	FIRM	FEW	MANY DISTINCT 5.0YR4.0/8.0
A MB	67- 76			
C G	76-	FIRM		MANY DISTINCT 5.0YR4.0/8.0

PHYSICAL & CHEMICAL DATA  
-----

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	1	5.5	4.87	.39	6.09	1.98	.22	.26	26.0
B GJ	17- 50	2	5.7	.52	.07	6.51	2.47	.24	.24	15.4
B G	50- 67	2	6.5	.64	.09	10.04	4.94	.29	.10	21.6
A MB	67- 76	2	6.4	3.25	.28	13.47	5.34	.31	.09	34.5
C G	76-	1	6.5	.81	.06	4.84	2.58	.22	.05	12.3

HORIZON=DEPTH(CM.)	D1 PPH.
A P	0- 17 14.0
B GJ	17- 50 7.0
B G	50- 67 6.0
A MB	67- 76 11.0
C G	76- 4.0

# BUNTZEN

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 13 56	DURIC FERRO-HUMIC PDDZOL(1978)	% TYPE: 15.0
LONGITUDE(W): 122 19 27	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		STEELY SLOPING
ELEVATION (M): 200		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: WEST OF MCCOOMB'S RD ON MISSION TREE FARM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	4- 3		ABRUPT				
HF	3- 0		ABRUPT	5.0YR2.0/1.5 MATRIX MOIST			
A E	0- 2	1- 4	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST 5.0YR5.0/1.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF1	2- 7		CLEAR	5.0YR3.0/3.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF2	7- 20		GRADUAL	5.0YR4.0/6.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF3	20- 37		GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/5.0 MATRIX DRY		LOAM	WEAK TO MODERATE FINE SUBANGULAR BLOCKY
B FGJ1	37- 60		CLEAR	7.5YR5.0/5.0 MATRIX MOIST		LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ2	60- 77		CLEAR	5.0YR3.0/3.0 MATRIX MOIST	10.0YR3.0/3.0 MATRIX MOIST	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B CGJ1	77- 97		GRADUAL	10.0YR4.0/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
B CGJ2	97-			10.0YR4.0/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
L	4- 3					
HF	3- 0			ABUNDANT		
A E	0- 2		VERY FRIABLE	ABUNDANT		
B HF1	2- 7		VERY FRIABLE	ABUNDANT		
B HF2	7- 20		FRIABLE	ABUNDANT		
B HF3	20- 37		FRIABLE	PLENTIFUL	FEW FINE FAINT	
B FGJ1	37- 60		FRIABLE	PLENTIFUL	MANY COARSE DISTINCT 5.0YR4.0/7.0	
B FGJ2	60- 77		FRIABLE	FEW	MANY COARSE PROMINENT	
B CGJ1	77- 97	STRONG COARSE ANGULAR BLOCKY PSEUDO	VERY FIRM		MANY COARSE PROMINENT 5.0YR4.0/8.0	
B CGJ2	97-	STRONG COARSE ANGULAR BLOCKY	VERY FIRM		COMMON COARSE PROMINENT 5.0YR4.0/8.0	2.5YR3.0/6.0



BUNTZEN (Continued)

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
L	4- 3		
MF	3- 0		
A E	0- 2		
B HF1	2- 7	FEW MEDIUM SPHERICAL	
B HF2	7- 20	NONE MEDIUM SPHERICAL	
B HF3	20- 37	NONE MEDIUM SPHERICAL	
B FGJ1	37- 60		
B FGJ2	60- 77		
B CGJ1	77- 97		STRONGLY CEMENTED CONTINUOUS
B CGJ2	97-		STRONGLY CEMENTED CONTINUOUS

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
L	4- 3	2	2	3.9	2	4	3.5	46.63	1.25
MF	3- 0	2	2	3.8	2	4	3.0	46.75	1.38
A E	0- 2	2	1	4.2	2	4	3.4	3.02	.17
B HF1	2- 7	2	1	5.4	2	4	4.6	6.24	.39
B HF2	7- 20	2	1	5.5	2	4	4.9	5.28	.24
B HF3	20- 37	2	1	5.5	2	4	5.0	4.76	.21
B FGJ1	37- 60	2	1	5.3	2	4	5.1	3.13	.13
B FGJ2	60- 77	2	1	5.5	2	4	5.0	3.13	.16
B CGJ1	77- 97	2	1	5.6	2	4	5.3	1.22	.05
B CGJ2	97-	2	1	6.0	2	4	5.7		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
L	4- 3	11.42	2.56	.34	2.50	139.4			
MF	3- 0	5.30	2.05	.82	.85	132.5			
A E	0- 2	.94	.16	.06	.06	15.7	1		.2
B HF1	2- 7	.35	.10	.07	.09	50.5	1	1.3	.7
B HF2	7- 20	.13	.04	.03	.04	35.1	1	1.3	.3
B HF3	20- 37	.17	.05	.03	.03	33.4	1	1.6	.4
B FGJ1	37- 60	.10	.02	.03	.02	25.3	1	1.1	.2
B FGJ2	60- 77						1	.8	.3
B CGJ1	77- 97						1	.7	.3
B CGJ2	97-						1	.5	.0

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				D1 PPM,	D2 PPM,	S PPM,
	METHOD	RESULT	METHOD	RESULT			
L	4- 3				30.1	54.0	
MF	3- 0				13.8	30.0	
A E	0- 2	1	.5	3	1.8	2.0	12.5
B HF1	2- 7	1	4.3	3	2.2	2.1	30.8
B HF2	7- 20	1	4.2	3	1.5	2.5	52.5
B HF3	20- 37	1	4.1	3	1.5	2.5	49.8
B FGJ1	37- 60	1	3.5	3	1.0	3.3	56.5
B FGJ2	60- 77	1	2.9	3	1.0	4.3	26.3
B CGJ1	77- 97	1	2.0	3	.6	9.2	32.5
B CGJ2	97-	1	1.0	3	.2	28.1	29.5

# BURWELL

DATE OF SURVEY: 70 SURVEYOR: MAL KELORNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY CLASSIFICATION: SLOPE: 40.0  
 LOCATION: LATITUDE(N): 49 26 45 LONGITUDE(W): 122 57 28  
 PRECISION (SEC): 02 DURIC FERRO-HUMIC PODZOL(1978) % TYPE: SIMPLE  
 ELEVATION (M): 300 STATUS: MODAL SOIL CLASS: STEEPLY SLOPING  
 ASPECT (DEG): 270

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

ROOTING DEPTH: 150 CM. SEEPAGE: PRESENT DRAINAGE: IMPERFECTLY DRAINED  
 FLOOD HAZARD: NO HAZARD RUNOFF: SLOW PVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATED 1600 METERS NORTH OF SEYMOUR DAM ON EAST SIDE OF VALLEY.  
 THE LH IS VARIEGATED, FIBRIC, MOTTED MYCELIAL, THE H IS HUMIC AND  
 ANDRPHUS. THE B HFGJ2 HAS A MODERATE ROOT MAT AND IS A SEEPAGE ZONE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L=F	18- 13	ABRUPT			ORGANIC	
H	13- 0	ABRUPT	5.0YR2.0/1.5 MATRIX MOIST		ORGANIC	
A HE	0- 3	CLEAR	5.0YR4.0/1.0 MATRIX MOIST		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF	3- 25	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST	5.0YR2.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B HFGJ1	25- 55	DIFFUSE	5.0YR3.0/2.0 MATRIX MOIST	5.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
B HFGJ2	55-100	ABRUPT	5.0YR3.0/2.5 MATRIX MOIST		SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
B CGJ1	100-150	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	5.0YR2.5/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	STRONG COARSE MASSIVE
B CGJ2	150-200		5.0Y5.0/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
L=F	18- 13		LOOSE	PLENTIFUL		
H	13- 0		FRIABLE	ABUNDANT		
A HE	0- 3		FRIABLE	ABUNDANT		
B HF	3- 25		FRIABLE	ABUNDANT		
B HFGJ1	25- 55		FRIABLE	PLENTIFUL	COMMON MEDIUM DISTINCT	
B HFGJ2	55-100		FRIABLE	PLENTIFUL	COMMON MEDIUM DISTINCT	
B CGJ1	100-150	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	STRONGLY CEMENTED
B CGJ2	150-200	STRONG MEDIUM SUBANGULAR BLOCKY	VERY FIRM		COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	STRONGLY CEMENTED

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE		
L=F	18- 13	2	2	4	3.5	58.00
H	13- 0	2	1	4	3.2	48.49
A HE	0- 3	2	1	4	3.7	5.05
B HF	3- 25	2	1	4	4.2	7.25
B HFGJ1	25- 55	2	1	4	4.3	7.08
B HFGJ2	55-100	2	1	4	4.2	9.88
B CGJ1	100-150	2	1	4	4.4	1.68
B CGJ2	150-200	2	1	4	4.8	.07

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
L=F	18- 13	8.71	2.64	.43	1.58	85.3			
H	13- 0	6.34	2.08	.19	.89	103.4			
A HE	0- 3	.25	.13	.06	.06	15.6	1	0.3	3
B HF	3- 25	.33	.10	.07	.05	27.9	1	0.9	3
B HFGJ1	25- 55	.33	.09	.08	.04	30.2	1	1.4	3
B HFGJ2	55-100	.31	.09	.06	.05	31.4	1	1.7	3
B CGJ1	100-150	.32	.06	.04	.03	10.8	1	0.3	3
B CGJ2	150-200						1	0.2	3

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)		METHOD	RESULT	D1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT								
L=F	18- 13				2.9	40.5	66.0	20.2	69.7	
H	13- 0				25.8	31.1	1.0	14.4	44.2	
A HE	0- 3	1	0.3	3	5.0	6.9	6.5	6.1	12.8	
B HF	3- 25	1	1.6	3	1.5	4.2	21.3	10.1	30.2	61.4
B HFGJ1	25- 55	1	3.1	3	1.9	4.1	18.8	14.0	41.1	
B HFGJ2	55-100	1	3.4	3	1.7	3.5	6.1	14.3	53.1	
B CGJ1	100-150	1	1.0	3	0.7	16.1	41.0	14.3	41.5	123.0
B CGJ2	150-200	1	.7					18.5	39.3	64.8

# CALKINS

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 09 57	REGD HUMIC GLEYSOL(1978)	% 2.0
LONGITUDE(W): 122 18 35		
PRECISION (SEC): 05		
ELEVATION (M): 150	STATUS: MODAL SOIL	

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

**MIDDLE STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

**ADDITIONAL NOTES**

SITE LOCATION: 185 METERS EAST OF CEDAR VALLEY-ROSETTA RDS INTERSECTION, MISSION.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
M	13- 0	CLEAR	10.0YR2.0/2.0 MATRIX MOIST		ORGANIC	WEAK FINE SUBANGULAR BLOCKY
A M	0- 17	GRADUAL	10.0YR3.0/3.0 MATRIX MOIST		SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
AC	17- 27	GRADUAL	2.5Y4.5/4.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C G1	27- 42	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
C G2	42- 55	ABRUPT	5.0Y5.2/5.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
C G3	55- 83	ABRUPT	5.0B65.0/1.0 MATRIX MOIST	5.0B5.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE
II C G	83-		5.0B65.0/1.0 MATRIX MOIST		LOAMY SAND	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1
M	13- 0	WEAK FINE GRANULAR	FRIABLE	ABUNDANT	
A M	0- 17		FRIABLE	PLENTIFUL	
AC	17- 27		FIRM	PLENTIFUL	COMMON FINE DISTINCT 7.5YR5.0/7.0
C G1	27- 42		FIRM	FEW	COMMON FINE PROMINENT 7.5YR5.0/8.0
C G2	42- 55			FEW	FEW FINE FAINT
C G3	55- 83		SLIGHTLY STICKY NONPLASTIC		FEW FINE PROMINENT 7.5YR4.0/4.0
II C G	83-		SLIGHTLY STICKY		FEW FINE PROMINENT 7.5YR4.0/4.0

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
M	13- 0	2	2	3.9	2	4	3.5	38.80
A M	0- 17	2	1	4.6	2	4	4.1	6.26
AC	17- 27	2	1	5.1	2	4	4.4	2.72
C G1	27- 42	2	1	5.3	2	4	4.3	1.22
C G2	42- 55	2	1	5.5	2	4	4.5	.58
C G3	55- 83	2	1	5.1	2	4	3.9	.17
II C G	83-	2	1	5.3	2	4	4.1	.12

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED					
	CA	MG	NA	K	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
M	13- 0	2.33	1.18	.08	.49	80.4	36.4	62.0	22.8	28.0
A M	0- 17	.39	.05	.03	.17	32.0	36.8	71.0	15.7	50.7
AC	17- 27	.39	.05	.04	.05	22.7	32.7	87.0	13.1	21.3
C G1	27- 42	.52	.14	.06	.05	19.2	31.2	60.0	9.1	28.6
C G2	42- 55	.23	.04	.04	.02	7.4	39.8	137.0	8.2	16.3
C G3	55- 83	.95	.46	.13	.02	10.9	18.9	46.0	7.0	30.6
II C G	83-	.65	.13	.10	.02	4.9	15.1	55.0	5.0	18.9

# CALKINS

UNIT TYPE: SERIES

DATE OF SURVEY: 83 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE (N):	49 04 32		
LONGITUDE (W):	122 21 07	REGO HUMIC GLEYSOL (1978)	
PRECISION (SEC):	05		
ELEVATION (M):	70	STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: ABOUT 200 METERS SOUTHWEST OF THE TOWNLINE-DOWNES RD  
 JUNCTION, MATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A H	0- 22	GRADUAL	10.0YR2.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
A C	22- 47	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	FEW
C G1	47- 75	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	FIRM	FEW
C G2	75-		10.0YR6.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1	FIELD PH
A H	0- 22		MEDIUM ACID
A C	22- 47		MEDIUM ACID
C G1	47- 75	MANY 5.0YR5.0/6.0	MEDIUM ACID
C G2	75-	MANY 5.0YR5.0/6.0	NEUTRAL

# CALKINS

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KOLONNA, B.C.M.A., & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 REGO HUMIC GLEYSOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

MIDDLE STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

GENETIC MAT.: MORAINAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A H	0- 20	GRADUAL	10.0YR2.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
A C	20- 32	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	FEW
C G1	32- 55	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	FEW
C G2	55-+		2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
A H	0- 20	
A C	20- 32	
C G1	32- 55	MANY 2.5Y5.0/4.0
C G2	55-+	MANY 5.0YR5.0/8.0

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A H	0- 20	2	1	4.7	9.59	.72	8.39	2.28	.60	2.92	50.1
A C	20- 32	2	1	6.1	3.87	.62	1.44	.53	.21	.36	36.4
C G1	32- 55	2	1	5.4	2.58	.16	1.11	.51	.21	.29	26.9
C G2	55-+	2	1	5.5	1.03	.08	1.67	1.38	.18	.24	12.5

HORIZON-DEPTH(CM.)	P1 PPM.	
A H	0- 20	260.0
A C	20- 32	51.0
C G1	32- 55	57.0
C G2	55-+	37.0

# CANNELL

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 14 45	ORTHIC HUMID-FERRIC PODZOL(1978)	% TYPE: 20.0
LONGITUDE(W): 122 19 10	STATUS: MODAL SOIL	COMPLEX STRONGLY ROLLING
PRECISION (SEC): 05		ASPECT (DEG): 135
ELEVATION (M): 500		

PARENT MATERIAL & LANDFORM	BEDROCK
UPPER STRATIGRAPHIC UNIT	DPTH TO BEDROCK: 27 CM.
GENETIC MAT.: COLLUVIAL	TYPE: INTRUSIVE ACID
SURFACE EXPRES.: VENEER	

DRAINAGE: WELL DRAINED  
 RUNOFF: MEDIUM

ADDITIONAL NOTES

SITE LOCATION: NORTH END OF MCCOOMBS RD., MISSION TREE FARM.  
 CLASSIFICATION PHASE IS LITHIC.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	10- 7	ABRUPT					PLENTIFUL
FH	7- 0	ABRUPT					ABUNDANT
A E	0- 25	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST 10.0YR5.0/1.5 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B F1	25- 10	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B F2	10- 17	ABRUPT	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
R	17-						

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
L	10- 7	
FH	7- 0	
A E	0- 25	
B F1	25- 10	COMMON THROUGHOUT MATRIX SPHERICAL
B F2	10- 17	COMMON THROUGHOUT MATRIX SPHERICAL
R	17-	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VAL JE			
L	10- 7	2	2	3.8	2	4	3.4	58.00	1.22
FH	7- 0	2	2	3.6	2	4	3.0	58.00	1.03
A E	0- 25	2	1	4.1	2	4	3.6	2.78	.07
B F1	25- 10	2	1	5.0	2	4	4.5	4.41	.09
B F2	10- 17	2	1	5.0	2	4	4.5	3.60	.11
R	17-								

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K	VAL		METHOD	RESULT	METHOD	RESULT	
L	10- 7	7.30	1.72	.23	2.57	107.7					59.4
FH	7- 0	5.73	1.75	.28	1.66	149.4					42.7
A E	0- 25	.24	.10	.04	.11	12.4	1	.7	1	.2	15.9
B F1	25- 10	.08	.03	.03	.06	19.0	1	1.1	1	1.8	34.3
B F2	10- 17	.09	.04	.04	.09	17.8	1	1.1	1	1.7	48.4
R	17-										

HORIZON=DEPTH(CM.)	COARSE FRAGMENTS		
	P2 PPM.	S PPM.	% VDL
L	10- 7	129.0	
FH	7- 0	57.0	
A E	0- 25	28.0	8.0
B F1	25- 10	94.0	50
B F2	10- 17	116.0	69.0
R	17-		

# CANNELL

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ORTHIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: VENEER

DRAINAGE: WELL DRAINED  
 RUNOFF: MEDIUM

ADDITIONAL NOTES  
 -----

CLASSIFICATION PHASE IS LITHIC.

PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	FIELD PH
LH	5- 0					MEDIUM ACID
B F1	0- 15	GRADUAL	10.0YR5.0/4.0 MATRIX MOIST	LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	MEDIUM ACID
B F2	15- 33	ABRUPT	10.0YR5.0/3.0 MATRIX MOIST	LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	MEDIUM ACID
R	33-					

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	% VOL	COARSE FRAGMENTS		
		GRAVEL %	COBBLE %	STONE %
LH 5- 0				
B F1 0- 15	60	10	30	20
B F2 15- 33	80	20	30	30
R 33-				

# CANNEL

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION	CLASSIFICATION	SLOPE	
LATITUDE(N): LONGITUDE(W): ELEVATION (M):	660 ORTHIC HUMID-FERRIC PUDZOL(1978) STATUS: MODAL SOIL	TYPE: CLASS:	SIMPLE STEEPLY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
GENETIC MAT.: COLLUVIAL SURFACE EXPRES.: VENEER	GENETIC MAT.: BEDROCK

DRAINAGE: WELL DRAINED  
RUNOFF: MEDIUM

ADDITIONAL NOTES

LOCATION: ON SUMAS MTN NEAR CHADSEY LAKE.  
 CLASSIFICATION PHASE IS LITHIC.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	8= 0			ORGANIC			
A E	0= 2	CLEAR	10.0YR5.0/1.0 MATRIX MOIST	FINE SANDY LOAM	WEAK MEDIUM GRANULAR	FRIABLE	PLENTIFUL
B F	2= 13	ABRUPT	10.0YR5.0/6.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B M	13= 30	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST	SANDY LOAM		FRIABLE	FEW
R	30=						

HORIZON	THICKNESS DEPTH(CM)	FIELD PH
LH	8= 0	VERY STRONGLY ACID
A E	0= 2	VERY STRONGLY ACID
B F	2= 13	STRONGLY ACID
B M	13= 30	STRONGLY ACID
R	30=	

PHYSICAL & CHEMICAL DATA

COARSE FRAGMENTS		
HORIZON-DEPTH(CM.)	% VOL	
LH	8= 0	
A E	0= 2	25
B F	2= 13	50
B M	13= 30	
R	30=	



# CAPILANO

DATE OF SURVEY: 69 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.P.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 19 50	ORTSTEIN HUMO-FERRIC PODZOL (1978)	5.0
LONGITUDE (W): 123 00 53	STATUS: VARIANT SOIL	ASPECT (DEG): 180
PRECISION (SEC): 05		
ELEVATION (M): 120		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: NORTH OF CEMETERY ON RD TO SEYMOUR DAM, NORTH VANCOUVER.  
 THIS PROFILE IS A DURIC HUMO-FERRIC PODZOL. VARIANT M HORIZON IS  
 MATTED (FIBRI-HUMINDR).

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	CLOUR 1	CLOUR 2	TEXTURE	STRUCTURE 1
LF	13- 8	ABRUPT				
H	8- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	
A E	0- 4	ABRUPT	5.0YR5.0/1.0 MATRIX MOIST		COARSE SAND	SINGLE GRAIN
B HF	4- 8	ABRUPT	5.0YR4.0/6.0 MATRIX MOIST	2.5YR3.0/3.0 MATRIX MOIST	COARSE SAND	WEAK FINE SUBANGULAR BLOCKY
B F1	8- 27	GRADUAL	5.0YR4.0/6.0 MATRIX MOIST	5.0YR5.0/6.0 MATRIX MOIST	COARSE SAND	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F2	27- 42	GRADUAL	7.5YR5.0/6.0 MATRIX MOIST		COARSE SAND	WEAK MEDIUM SUBANGULAR BLOCKY
B C1	42- 75	DIFFUSE	7.5YR5.0/5.0 MATRIX MOIST		SAND VERY GRAVELLY	MODERATE TO STRONG COARSE SUBANGULAR BLOCKY
B C2	75-100	DIFFUSE	7.5YR5.0/5.0 MATRIX MOIST		SAND VERY GRAVELLY	MODERATE TO STRONG COARSE SUBANGULAR BLOCKY
BC	100-135	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST		SAND GRAVELLY	SINGLE GRAIN
-					COARSE SAND	SINGLE GRAIN
-					SAND VERY GRAVELLY	SINGLE GRAIN
-		GRADUAL			SAND VERY GRAVELLY	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
LF	13- 8		PLENTIFUL	
H	8- 0	FRIABLE	ABUNDANT	
A E	0- 4	VERY FRIABLE	ABUNDANT	
B HF	4- 8	VERY FRIABLE	ABUNDANT	
B F1	8- 27	VERY FRIABLE	ABUNDANT	
B F2	27- 42	VERY FRIABLE	PLENTIFUL	WEAKLY CEMENTED CONTINUOUS
B C1	42- 75	VERY FIRM	FE*	STRONGLY CEMENTED CONTINUOUS
B C2	75-100	VERY FIRM	FE*	STRONGLY CEMENTED CONTINUOUS
BC	100-135	LOOSE	FE*	
-		LOOSE	FE*	
-			FE*	

PHYSICAL & CHEMICAL DATA

PH 1				PH 2			ORGANIC CARRON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF	13= 8	2	4.3	2	4	3.7	38.80	1.14
H	8= 0	2	4.0	2	4	3.1	48.14	.98
A E	0= 4	1	4.1	2	4	3.2	1.33	.05
B HF	4= 8	1	4.6	2	4	4.1	10.05	.26
B F1	8= 27	1	5.0	2	4	4.4	4.40	.15
B F2	27= 42	1	5.6	2	4	5.1	1.04	.05
B C1	42= 75	1	5.7	2	4	5.3	.75	.05
B C2	75=100	1	5.7	2	4	5.5	.87	.04
BC	100=135	1	5.7	2	4	5.6		.01
						5.4		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	13= 8	7.40	1.82	.36	1.44	74.9			
H	8= 0	3.93	.91	.15	.55				
A E	0= 4	.31	.10	.05	.06	9.1	1	.1	
B HF	4= 8	.20	.09	.05	.04	23.5	1	2.0	
B F1	8= 27	.20	.06	.03	.03	13.7	1	.8	3
B F2	27= 42	.20	.06	.07	.03	10.5	1	.5	3
B C1	42= 75	.19	.06	.04	.02	6.0	1	.4	
B C2	75=100	.19	.06	.05	.01	3.2	1	.2	
BC	100=135						1	.1	
							1	.1	
							1	.2	

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				COARSE FRAGMENTS					
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	% VOL
LF	13= 8				41.7	70.2	44.0	41.4	59.8	
H	8= 0				29.0	32.5	32.0	19.4	56.2	
A E	0= 4	1	.2		10.7	15.6	2.5	2.3	9.9	
B HF	4= 8	1	2.9		108.7	189.1	55.0	9.7	33.6	
B F1	8= 27	1	2.7	3	47.4	125.9	91.8	10.9	42.1	25
B F2	27= 42	1	1.9	3	34.7	103.6	79.3	12.2	50.8	25
B C1	42= 75	1	1.8	3	23.2	78.5	39.0	13.3	41.8	75
B C2	75=100	1	1.8	3	20.2	78.2	35.5	14.7	37.6	75
BC	100=135	1	.6	3				14.9	31.5	50
		1	.5	3				14.4	24.7	80
		1	.7					14.3	29.4	80
		1	.3					15.0	30.1	80

# CARVOLTH

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C., N.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 05 48	REGO HUMIC GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 39 43	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		DEPRESSIONAL TO LEVEL
ELEVATION (M): 4		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS CLAYEY  
 GENETIC MAT. IS FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 30 METERS EAST OF JUNCTION OF MARBLESON ST. AND NICOMEKL RIVER.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 10	CLEAR	10.0YR5.0/2.0 MATRIX MOIST 10.0YR3.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY	
AC	10- 22	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY	
C G1	22- 37	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO	
C G2	37- 92	GRADUAL	2.5Y3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO	
C G3	92-		5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 10	FIRM	ABUNDANT	FE FINE FAINT 7.5YR4.0/4.0	
AC	10- 22	FIRM	ABUNDANT	COMMON FINE DISTINCT 5.0YR3.0/4.0	5.0YR4.0/6.0
C G1	22- 37	FIRM	ABUNDANT	COMMON FINE PROMINENT 5.0YR3.0/4.0	5.0YR4.0/6.0
C G2	37- 92	FIRM	PLENTIFUL	MANY MEDIUM DISTINCT 7.5YR5.0/6.0	5.0YR3.0/3.0
C G3	92-	VERY FIRM		MANY FINE DISTINCT 7.5YR3.0/2.0	7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 10	2	1	5.6	5.16	.40	7.13	2.36	.24	.15	30.8
AC	10- 22	2	1	5.6	3.48	.29	4.99	1.51	.19	.07	27.8
C G1	22- 37	2	1	6.0	1.45	.13	5.29	3.03	.65	.08	24.3
C G2	37- 92	2	1	6.4	.64	.74	5.89	4.69	1.10	.09	21.6
C G3	92-	2	1	6.4	.52	.55	5.11	3.41	1.29	.10	20.6

HORIZON=DEPTH(CM.)	D1 DPM.	D2 DPM.	
A P	0- 10	17.3	35.0
AC	10- 22	15.1	30.0
C G1	22- 37	13.6	24.0
C G2	37- 92	37.5	71.0
C G3	92-	60.1	102.0

# CARVOLTH

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 01 07	GLEEYED REGOSOL (1978)	%	2.0
LONGITUDE (W):	122 43 21	STATUS: VARIANT SOIL	TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING
ELEVATION (M):	8			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC HAY: FLUVIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 18	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	CLAY	MODERATE FINE SUBANGULAR BLOCKY	FIRM	PLENTIFUL
A C	18- 36	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM ANGULAR BLOCKY	FIRM	FEW
C G1	36- 70	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	MODERATE COARSE SUBANGULAR BLOCKY	FIRM	FEW
C G2	70-		5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	VERY FIRM	

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
A P	0- 18	
A C	18- 36	
C G1	36- 70	FEW FAINT
C G2	70-	COMMON DISTINCT

# CASCADE

DATE OF SURVEY: 68 SURVEYOR: HAL KELONA, B.C.M.A. & R.A.H.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 20 39	DURIC FERRO-HUMIC PODZOL(1978)	X TYPE: 15.0 CLASS: COMPLEX GENTLY ROLLING
LONGITUDE(W): 122 12 40		
PRECISION (SEC): 05		
ELEVATION (M): 950		
STATUS: MODAL SOIL		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

**ADDITIONAL NOTES**

SITE LOCATION: LOST CREEK SPUR-EAST OF SALISBURY LAKE, MISSION.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	15- 13	ABRUPT			ORGANIC	
H	13- 0	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	MEDIUM SUBANGULAR BLOCKY
A E	0- 4	ABRUPT	5.0YR5.0/2.0 MATRIX MOIST 5.0YR7.0/1.5 MATRIX DRY		SANDY LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B HF1	4- 25	GRADUAL	5.0YR4.0/8.0 MATRIX MOIST	2.5YR3.0/2.0 MATRIX MOIST	SANDY LOAM	MODERATE TO STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY
B F	25- 52	CLEAR	7.5YR5.0/8.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	MODERATE TO STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY
B HF2	52- 82	GRADUAL	5.0YR2.0/3.0 MATRIX MOIST	5.0YR4.0/8.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B HF3	82-100	ABRUPT	2.5YR2.5/2.0 MATRIX MOIST		SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B CGJ	100-125	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE
B C	125-175		5.0Y5.0/1.0 MATRIX MOIST		LOAMY SAND	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CEMENTATION AGENT/DESCRIP.
LF	15- 13					
H	13- 0		ABUNDANT			
A E	0- 4	FRIABLE	PLENTIFUL			
B HF1	4- 25	FRIABLE	PLENTIFUL			
B F	25- 52	FRIABLE	PLENTIFUL			
B HF2	52- 82	FRIABLE	PLENTIFUL			
B HF3	82-100	FRIABLE	ABUNDANT			
B CGJ	100-125	VERY FIRM EXTREMELY HARD	FE <sup>o</sup>	MANY COARSE PROMINENT 5.0YR4.0/5.0	5.0YR4.0/6.0	INDURATED CONTINUOUS
B C	125-175	VERY FIRM EXTREMELY HARD				STRONGLY CEMENTED CONTINUOUS

PHYSICAL & CHEMICAL DATA

PH 1				PH 2			ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF	15= 13	2	4.0	2	4	3.5	63.68	1.69
M	13= 0	2	3.6	2	4	2.8	67.28	1.87
A E	0= 4	1	4.2	2	4	3.4	1.51	.05
B HF1	4= 25	1	5.0	2	4	4.4	6.32	.22
B F	25= 52	1	5.4	2	4	4.8	3.89	.13
B HF2	52= 82	1	5.2	2	4	4.5	5.80	.49
B HF3	82=100	1	5.0	2	4	4.1	16.53	.01
B CGJ	100=125	1	5.7	2	4	5.3	.35	
B C	125=175	1	5.7	2	4	5.4	.06	

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	15= 13	14.29	3.36	.26	2.29	105.9			
M	13= 0	11.99	4.37	.26	.57	169.9			
A E	0= 4	.61	.08	.03	.03	10.6	1	.9	.2
B HF1	4= 25	.01	.01	.03	.03	38.9	1	1.7	.8
B F	25= 52	.01	.01	.22	.03	28.6	1	1.1	.2
B HF2	52= 82	.11	.01	.03	.03	35.6	1	.7	.2
B HF3	82=100	.28	.02	.05	.06	67.3	1	.8	.6
B CGJ	100=125	.15	.01	.03	.02	3.7	1	.6	.0
B C	125=175	.20	.01	.03	.03	2.3	1	.4	.0

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				PARTICLE SIZE(%)						
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	TOTAL SAND	62+2 U SILT
LF	15= 13				25.8	26.9	18.3	18.1	63.6		
M	13= 0				26.2	33.7	33.3	13.4	63.2		
A E	0= 4	1	.2	.1	.8	1.5	.5	3.8	3.6	74	16
B HF1	4= 25	1	4.5	3	1.4	3.3	28.4	11.7	13.6	61	36
B F	25= 52	1	3.5	3	1.1	3.2	7.4	84.7	11.6	61	36
B HF2	52= 82	1	3.3	3	1.6	7.3	28.4	13.5	15.4	61	36
B HF3	82=100	1	4.6	3	3.5	2.8	7.3	25.4	21.2	11.3	33
B CGJ	100=125	1	.7	.1	0.0	2.5	25.4	21.2	11.3		
B C	125=175	1	.4	.1			15.2	19.7	17.7		
							14.3	14.6	16.3		

HORIZON=DEPTH(CM.)	PARTICLE SIZE(%)		COARSE FRAGMENTS	
	2U CLAY TOTAL	% VOL		
LF	15= 13			
M	13= 0			
A E	0= 4			
B HF1	4= 25	10	30	
B F	25= 52	3	30	
B HF2	52= 82	6	30	
B HF3	82=100		30	
B CGJ	100=125		50	
B C	125=175		50	

# CHEAM

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: DNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 10 53	ORTHC HUMO-FERRIC PODZOL(1978)		%	25.0
LONGITUDE (W):	121 46 27	STATUS: MODAL SOIL		TYPE:	COMPLEX
PRECISION (SEC):	05			CLASS:	STRONGLY ROLLING
ELEVATION (M):	25				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

CDM: CLASTIC 11 GRAVELLY  
 GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: HALF-WAY BETWEEN NEVIN RD. AND #1 HWY., CHILLIWACK.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	CULOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
FH	4- 0	ABRUPT		ORGANIC		
B F	0- 17	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM GRANULAR	
B M	17- 47	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
C 1	47- 93	GRADUAL	2.5Y4.0/4.0 MATRIX MOIST	LOAM GRAVELLY	MASSIVE	
C 2	93-		2.5Y4.0/4.0 MATRIX MOIST	LOAM GRAVELLY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1
FH	4- 0		PLENTIFUL
B F	0- 17	VERY FRIABLE	PLENTIFUL
B M	17- 47	VERY FRIABLE	PLENTIFUL
C 1	47- 93	FRIABLE	FEW
C 2	93-	FRIABLE	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
FH	4- 0	2	2	6.5			1.50	.97	.09	.57	13.9
B F	0- 17	2	1	5.7	1.39	.10	1.09	.60		.55	9.6
B M	17- 47	2	1	5.8	.93	.08	1.50	1.23	.10	.23	6.8
C 1	47- 93	2	1	5.9	1.04	.06	3.07	.51		.50	11.7
C 2	93-	2	1	5.9	.45	.02					

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	D1 PPM.	% VOL
FH	4- 0	
B F	0- 17	15.0
B M	17- 47	18.0
C 1	47- 93	32.0
C 2	93-	21.0

# CHEHALIS

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOMNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 10 56	ELUVIATED DYSTRIC BRUNISOL (1978)	% TYPE: 3.0
LONGITUDE (W): 122 09 25	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC): 05		
ELEVATION (M): 20		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: SUICIDE CREEK FAN, MISSION AREA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	4- 0	ABRUPT		ORGANIC		
A E	0- 1	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR5.5/1.0 MATRIX DRY	LOAMY SAND	VERY WEAK MEDIUM SUBANGULAR BLOCKY	
B M1	1- 10	CLEAR	10.0YR5.0/5.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	LOAMY SAND	VERY WEAK MEDIUM SUBANGULAR BLOCKY	
B M2	10- 20	CLEAR	10.0YR5.0/5.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	FINE SAND	VERY WEAK MEDIUM SUBANGULAR BLOCKY	
C	20- 35	ABRUPT		FINE SAND	VERY WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	SINGLE GRAIN
II C	35-			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
LH	4- 0		ABUNDANT	
A E	0- 1	VERY FRIABLE	ABUNDANT	
B M1	1- 10	VERY FRIABLE	ABUNDANT	
B M2	10- 20	VERY FRIABLE	PLENTIFUL	WEAKLY CEMENTED DISCONTINUOUS
C	20- 35	VERY FRIABLE	PLENTIFUL	
II C	35-	LOOSE	ABUNDANT	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARRON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH 4- 0	2	2	5.5	2	4	5.0	28.01	.79
A E 0- 1	2	1	5.1	2	4	4.3	1.45	.06
B M1 1- 10	2	1	5.5	2	4	4.8	1.45	.05
B M2 10- 20	2	1	5.9	2	4	5.0	1.04	.06
C 20- 35	2	1	6.0	2	4	5.1	.52	.03
II C 35-	2	1	5.7	2	4	5.0		

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LH 4- 0	20.05	3.90	.10	1.23	70.5					49.5
A E 0- 1	1.95	.45	.03	.09	7.8	1	.4	1	.9	34.0
B M1 1- 10	.47	.04	.05	.07	9.4	1	.2	1	.8	169.5
B M2 10- 20	.67	.04	.05	.06	7.2	1	.3	1	.9	52.0
C 20- 35	.54	.04	.03	.07	4.3			1	.8	25.0
II C 35-								1	.4	21.5

COARSE FRAGMENTS

HORIZON=DEPTH (CM.)	P2 PPM.	S PPM.	% VOL
LH 4- 0	93.0		
A E 0- 1	37.0	5.8	
B M1 1- 10	363.0	10.8	
B M2 10- 20	119.0	9.5	
C 20- 35	52.0	10.8	
II C 35-	37.0	2.5	75



# CLOVERDALE

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 06 16	MUMIC LOVIC GLEYSOL (1978)	%
LONGITUDE (W): 122 37 05	STATUS: MODAL SOIL	TYPE: 1.0
PRECISION (SEC): 05		COMPLEX
ELEVATION (M): 20		NEARLY LEVEL

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

**ADDITIONAL NOTES**

SITE LOCATION: 400 METERS EAST OF ROBERTS AND JOHNSON TOWNLIN E RDS.  
 INTERSECTION, LANGLEY.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR4.0/1.5 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM GRANULAR
A EG	15- 25	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
AB	25- 32	CLEAR	2.5Y4.0/2.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	10.0YR5.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM PRISMATIC
B TG1	32- 48	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	5.0Y4.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE FINE PRISMATIC
B TG2	48- 70	GRADUAL	5.0Y4.0/3.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY		SILTY CLAY	MODERATE FINE PRISMATIC
BC	70- 92	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST		SILTY CLAY	WEAK MEDIUM PRISMATIC
C G1	92-120	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST			MASSIVE
C G2	120-		5.0Y4.5/1.0 MATRIX MOIST			MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 15		FRIABLE	ABUNDANT			
A EG	15- 25		FRIABLE	ABUNDANT	MANY MEDIUM DISTINCT 10.0YR7.0/7.0		
AB	25- 32	STRONG MEDIUM SUBANGULAR BLOCKY	FIRM	ABUNDANT	MANY MEDIUM DISTINCT 10.0YR6.0/6.0		
B TG1	32- 48	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM	PLENTIFUL	MANY MEDIUM DISTINCT 10.0YR6.0/6.0		MANY MOD. THICK ON PED FACES- UNSPECIFIED
B TG2	48- 70	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR7.0/6.0		
BC	70- 92	MASSIVE	VERY FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR4.5/5.0	10.0YR4.0/4.0	
C G1	92-120		VERY FIRM		COMMON MEDIUM PROMINENT 7.5YR4.5/5.0	7.5YR4.0/4.0	
C G2	120-		VERY FIRM		COMMON MEDIUM PROMINENT 7.5YR4.0/5.0	7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0-15	2	1	5.6	6.70	.48	5.62	2.58	.48	.27	35.9
A EG 15-25	2	1	5.6	.70	.06	4.33	4.63	.27	.09	17.6
AB 25-32	2	1	5.9	.50	.05	7.26	10.13	.57	.15	26.3
B TG1 32-48	2	1	6.7	.40	.03	10.46	18.41	2.20	.18	35.2
B TG2 48-70	2	1	7.8	.20	.02	10.08	16.36	4.34	.25	35.5
BC 70-92	2	1	7.9			9.88	13.69	4.08	.27	31.9
C G1 92-120	2	1	7.8							30.7
C G2 120-	2	1	8.0			8.11	14.27	4.07	.39	24.6

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.	PARTICLE SIZE (%)			
			TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
A P 0-15	12.1	18.0	2	64	34	14
A EG 15-25	1.0	2.0	2	70	28	9
AB 25-32	1.0	2.0	5	56	38	14
B TG1 32-48	1.0	2.0	1	50	49	20
B TG2 48-70	1.0	93.0	1	49	50	13
BC 70-92	1.0	145.0	1	49	50	13
C G1 92-120	1.0	188.0	1	49	50	12
C G2 120-	1.6	256.0				

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Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg1 (92-120)	vermiculite	montmorillonite	illite, chlorite, amphiboles, plagioclase, feldspars, quartz			montmorillonite, vermiculite		illite		chlorite, plagioclase, feldspars, quartz

# CLOVERDALE

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELONA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 01 05	HUMIC LUVIC GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 42 06	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 25		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

**ADDITIONAL NOTES**

SITE LOCATION: JUST SOUTH OF BLUFF RD. AT 800 METERS WEST OF THE SURREY-LANGLEY MUNICIPAL BOUNDARY.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LF	4- 0			ORGANIC		
A M	0- 13	CLEAR	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/1.0 MATRIX DRY	CLAY	STRONG VERY COARSE ANGULAR BLOCKY	
A EG	13- 23		2.5Y4.0/2.0 MATRIX MOIST 10.0YH7.0/2.0 MATRIX DRY	CLAY LOAM	STRONG COARSE ANGULAR BLOCKY	
BA	23- 36	CLEAR	10.0YR5.0/1.0 MATRIX MOIST	CLAY	MODERATE MEDIUM TO COARSE PRISMATIC	VERY COARSE ANGULAR BLOCKY
B TG	36- 68	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	CLAY	STRONG COARSE PRISMATIC	
C G1	68-103	DIFFUSE	5.0Y4.0/1.0 MATRIX MOIST 5.0Y7.0/2.0 MATRIX DRY	CLAY	STRONG VERY COARSE ANGULAR BLOCKY	WEAK STATIFIED
C G2	103-		5.0Y5.0/3.0 MATRIX MOIST 5.0Y6.0/2.0 MATRIX DRY	CLAY	WEAK STRATIFIED	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
LF	4- 0				
A M	0- 13	STICKY FIRM PLASTIC	PLENTIFUL		
A EG	13- 23	SLIGHTLY STICKY FIRM PLASTIC	FEW	COMMON DISTINCT	
BA	23- 36	SLIGHTLY STICKY FIRM PLASTIC	FEW	MANY DISTINCT	
B TG	36- 68	STICKY VERY FIRM PLASTIC	FEW	COMMON FAINT	COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
C G1	68-103	STICKY FIRM PLASTIC	FEW	COMMON FAINT	
C G2	103-				

**PHYSICAL & CHEMICAL DATA**

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
LF	4- 0										
A M	0- 13	2	1	5.6	4.99	.49	18.18	7.46	.51	.42	59.8
A EG	13- 23	2	1	5.7	.89	.09	5.18	3.06	.22	.12	15.2
BA	23- 36	2	1	5.9	.48	.05	10.89	9.07	.58	.26	26.4
B TG	36- 68	2	1	5.7	.32	.03	12.34	11.24	.93	.29	37.0
C G1	68-103	2	1	7.3	.27	.03					
C G2	103-	2	1	7.7							

HORIZON=DEPTH(CM.)	D1	DDM.
LF	4- 0	
A M	0- 13	5.4
A EG	13- 23	4.1
BA	23- 36	2.5
B TG	36- 68	2.7
C G1	68-103	3.2
C G2	103-	3.5

# CLOVERDALE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL URC

LOCATION: 49 06 12  
 LONGITUDE (W): 122 36 53  
 PRECISION (SEC): 05  
 ELEVATION (M): 14  
 CLASSIFICATION: HUMIC LUVIC GLEYSOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-30	2	4	4.5	.93	43.3	20.5	28.0	42.8	58.2
B TG 30-61	2	4	6.2	1.35	38.4	19.2	25.3	26.6	64.0
BC 61-81	2	4	6.5	1.43	39.0	22.2	22.7	26.7	63.1
C G1 81-102	2	4	6.8	1.44	41.1	22.0	19.0	26.9	62.4
C G2 102-127	2	4	7.0	1.41	42.3	22.8	18.0	27.3	59.8

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-30	2.37	2.52	82.8	40.8	43.3	31.0					100.0	98.0	92.0	33.0
Btg	30-61	2.54	2.72	107.5	14.2	16.8	19.0					100.0	97.5	91.0	43.0
BC	61-81	2.60	2.76	107.3			21.0					100.0	98.5	91.0	46.0
Cg1	81-102	2.60	2.77	106.8	18.2	20.6	21.5					100.0	99.0	99.0	51.0
Cg2	102-127	2.62	2.78	105.0	19.7	21.9	21.3					100.0	99.0	97.0	52.0

# CLOVERDALE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL URC

LOCATION: 49 07 07  
 LONGITUDE (W): 122 34 52  
 PRECISION (SEC): 05  
 ELEVATION (M): 24  
 CLASSIFICATION: HUMIC LUVIC GLEYSOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-28	2	1	5.1	.99	42.6	19.1	33.0		
A EG 28-33									
B TG 33-68	2	1	5.7	1.41	36.2	18.6	21.7	27.4	57.7
BC 68-102	2	1	6.6	1.57	37.3	17.7	23.8		
C G1 102-127	2	1	6.9	1.54	38.6	19.9	27.9	23.1	47.7

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-28	2.42	2.59									100.0	88.3	86.1	34.5
Aeg	28-33														
Btg	33-68	2.60	2.80			20.0						100.0	98.7	98.0	42.8
BC	68-102	2.62	2.78									100.0	97.9	95.1	37.0
Cg	102-127	2.64	2.80			19.0						100.0	98.5	94.7	38.4

# COGHLAN

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & P.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 05 57			
LONGITUDE (W):	122 31 56	GLEVED ORTSTEIN HUMO-FERRIC PODZOL (1978)	X	1.0
PRECISION (SEC):	05		TYPE:	SIMPLE
ELEVATION (M):	87	STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR: GLACIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 185 METERS SOUTHEAST OF UTTER-HOLLYWOOD RDS INTERSECTION  
 LANGLEY

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 13	10.0YR3.5/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY		LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY	
A E	13- 27	10.0YR4.5/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY		LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II B FC	27- 50	5.0YR3.0/3.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	5.0YR4.0/5.0 MATRIX MOIST	SAND GRAVELLY	STRONG MEDIUM SUBANGULAR BLOCKY	
II B CG	50- 82	10.0YR5.0/7.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY		SAND VERY GRAVELLY	STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY	
II C G	82-			SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
A P	0- 13	FRIABLE	ABUNDANT		
A E	13- 27	FRIABLE	ABUNDANT	FEW FINE FAINT	
II B FC	27- 50	VERY FIRM	FEW	FEW FINE FAINT	STRONGLY CEMENTED CONTINUOUS
II B CG	50- 82	VERY FIRM		COMMON FINE DISTINCT 5.0YR5.0/7.0	STRONGLY CEMENTED CONTINUOUS
II C G	82-	LOOSE			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHDD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0- 13	2	1	4.9	3.48	.26	2.29	-.75	.16	.16	17.8
A E 13- 27	2	1	5.2	1.22	.14	1.27	.30	.08		12.5
II B FC 27- 50	2	1	5.6	1.86	.08	.35	.19	.08		18.3
II B CG 50- 82	2	1	5.6	1.80	.10	.39	.13	.08		17.7
II C G 82-	2	1	5.7							

HORIZON-DEPTH(CM.)	pH	
	p1 PPM	p2 PPM
A P 0- 13	5.0	9.0
A E 13- 27	26.0	37.0
II B FC 27- 50	25.0	56.0
II B CG 50- 82	13.0	48.0
II C G 82-		

# COGHLAN

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELDWA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 03 22	GLEYED URTEIN HUMO-FERRIC PODZOL(1978)		TYPE:	SIMPLE
LONGITUDE(W):	122 41 05	STATUS: MODAL SOIL		CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	50				
ELEVATION (FT):	50				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT. I: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR I: GLACIAL

DRAINAGE: IMPERFECTLY DRAINIED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

THERE ARE IRON CEMENTED POCKETS AND STREAKS IN B FC.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(IN)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	3- 0	ABRUPT				
A HE	0- 13	CLEAR	10.0YR3.0/1.0 CRUSHED MOIST 10.0YR6.0/1.0 CRUSHED DRY		FINE SANDY LOAM	WEAK FINE GRANULAR
A E	13- 25	CLEAR	10.0YR4.0/1.0 CRUSHED MOIST 10.0YR7.0/1.0 CRUSHED DRY		FINE SANDY LOAM	MODERATE MEDIUM PLATY
11 B FGJ	25- 43	ABRUPT	10.0YR5.0/4.0 CRUSHED MOIST 10.0YR5.5/3.0 CRUSHED DRY	10.0YR4.0/3.0 CRUSHED MOIST	SANDY LOAM GRAVELLY	WEAK FINE TO MEDIUM ANGULAR BLOCKY
11 B FC	43- 65	CLEAR			LOAMY SAND GRAVELLY	MASSIVE
11 C	63-				SAND GRAVELLY	

HORIZON	THICKNESS DEPTH(IN)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
L	3- 0					
A HE	0- 13		VERY FRIABLE SOFT	ABUNDANT		
A E	13- 25		VERY FRIABLE SOFT	ABUNDANT		
11 B FGJ	25- 43		FRIABLE SLIGHTLY HARD	FEW	MANY DISTINCT	
11 B FC	43- 65	SINGLE GRAIN	FIRM	VERY FEW		STRONGLY CEMENTED DISCONTINUOUS
11 C	63-		FRIABLE	VERY FEW		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(IN.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
L	3- 0										
A HE	0- 13	2	1	5.2	7.67	.46	5.43	1.29	.17	.22	42.6
A E	13- 25	2	1	5.4	1.99	.15	2.84	.73	.14	.05	19.0
11 B FGJ	25- 43	2	1	5.8	.39	.03	2.77	.89	.13	.04	9.4
11 B FC	43- 65	2	1	6.0	.21	.11	4.49	1.11	.15	.04	7.4
11 C	63-	2	1	6.3							

COARSE FRAGMENTS

HORIZON-DEPTH(IN.)	P1 PPM.	% VOL
L	3- 0	
A HE	0- 13	22.5
A E	13- 25	7.7
11 B FGJ	25- 43	3.9
11 B FC	43- 65	1.1
C	63-	20.0

# COGLAN

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELDANA, B.C.M.A. & R.A.H.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 03 38			
LONGITUDE (E):	122 25 13	GLEYSO CRTSTEIN HUMO-FERRIC PODZOL(1978)	%	1.0
PRECISION (SEC):	05	STATUS: MODAL SOIL	TYPE: CLASS:	COMPLEX
ELEVATION (M):	45			GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC II GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 1000 METERS EAST, 200 METERS NORTH OF THE ROSS-BOUNDARY  
 RD JUNCTION, MATSUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	5- 0			ORGANIC		
A HE	0- 7	CLEAR	10.0YR3.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	LOAM	WEAK FINE GRANULAR	
A E	7- 15	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	LOAM	WEAK VERY FINE PLATY	
B FC	15- 27	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	FINE SANDY LOAM	MASSIVE	SINGLE GRAIN
B FCGJ	27- 43	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	MASSIVE	SINGLE GRAIN
II C GJ	43-			LOAMY SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LH	5- 0				
A HE	0- 7	VERY FRIABLE	ABUNDANT		
A E	7- 15	VERY FRIABLE	PLENTIFUL		
B FC	15- 27	VERY FIRM	FEW	FEW MEDIUM DISTINCT	STRONGLY CEMENTED DISCONTINUOUS
B FCGJ	27- 43	VERY FIRM	FEW	FEW MEDIUM PROMINENT	STRONGLY CEMENTED DISCONTINUOUS
II C GJ	43-	LOOSE	FEW	FEW MEDIUM DISTINCT	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	5- 0	2	5.2	39.21	1.67					
A HE	0- 7	2	4.7	4.81	.33	7.20	1.80	.10	.20	23.4
A E	7- 15	2	5.3	.93	.06	2.30	1.00	.10	.20	5.7
B FC	15- 27	2	5.7	1.33	.08	1.50	1.00	.10	.10	13.4
B FCGJ	27- 43	2	6.0	.75	.05	.90	.70	.10	.10	8.5
II C GJ	43-	2	5.8	1.16	.08	.70	.90	.10	.10	9.9

COARSE FRAGMENTS

HORIZON=DEPTH(CM.)	P1 PPM.	% VOL
LH	5- 0	154.0
A HE	0- 7	12.0
A E	7- 15	2.5
B FC	15- 27	5.5
B FCGJ	27- 43	25.0
II C GJ	43-	23.0

# COLUMBIA

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 06 18	ORTHIC HUMO-FERRIC PODZOL(1978)	%
LONGITUDE (W): 122 32 03		
PRECISION (SEC): 05		
ELEVATION (M): 87		
STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW

ADDITIONAL NOTES

SITE LOCATION: 90 METERS NORTHEAST OF THE OTTER-ROBERTS RDS INTERSECTION,  
 LANGLEY.  
 SOME WEAK IRON STAINING IN THE C2.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	3= 0	ABRUPT		ORGANIC		
B F1	0= 13	CLEAR	7.5YR3.0/2.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	13= 30	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M	30= 47	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	LOAMY SAND	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	
BC	47= 60	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	COARSE SAND	WEAK MEDIUM SUBANGULAR BLOCKY	SINGLE GRAIN
C 1	60= 75	CLEAR		FINE SAND	SINGLE GRAIN	
II C 2	75=			SAND VERY GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
LH	3= 0				
B F1	0= 13	VERY FRIABLE	ABUNDANT	NONE FINE SPHERICAL	
B F2	13= 30	VERY FRIABLE	PLENTIFUL	NONE FINE SPHERICAL	
B M	30= 47	VERY FRIABLE	PLENTIFUL		
BC	47= 60	LOOSE	FEW		WEAKLY CEMENTED DISCONTINUOUS
C 1	60= 75	LOOSE	FEW		
II C 2	75=	LOOSE	FEW		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3= 0	2	5.3	26.97	.81					
B F1	0= 13	2	5.7	2.55	.11	.94	.58	.06	.06	17.0
B F2	13= 30	2	5.8	.99	.06	.40	.32	.05	.05	9.5
B M	30= 47	2	5.8	.58	.03	.26	.19	.05	.05	6.6
BC	47= 60	2	6.0		.01	.39	.12	.05		2.6
C 1	60= 75	2	6.2							
II C 2	75=	2	6.1							

HORIZON-DEPTH(CM.)	P1 DPH.	P2 DPH.	COARSE FRAGMENTS	
			% VOL	GRAVEL %
LH	3= 0			
B F1	0= 13	51.0	142.0	10
B F2	13= 30	40.5	86.0	10
B M	30= 47	37.2	68.0	10
BC	47= 60	44.5	116.0	10
C 1	60= 75			10
II C 2	75=			70



# COLUMBIA

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 10 03	URTHIC HUMO-FERRIC PODZOL(197A)	% 2.0
LONGITUDE(W): 122 24 09		
PRECISION (SEC): 05	STATUS: MODAL SOIL	
ELEVATION (M): 18		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 200 METERS NORTH OF HIGHWAY #7 AND HAYWARD RD.,  
 INTERSECTION, MISSION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LM	3- 0	ABRUPT				
A EJ	0- 2	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST		SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY
B F1	2- 17	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST		LOAMY SAND GRAVELLY	VERY WEAK FINE SUBANGULAR BLOCKY
B F2	17- 45	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST	10.0YR4.0/4.0 MATRIX MOIST	SAND GRAVELLY	VERY WEAK FINE SUBANGULAR BLOCKY
CB	45- 75	GRADUAL			SAND VERY GRAVELLY	SINGLE GRAIN
C	75-				SAND VERY GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
LM	3- 0			PLENTIFUL
A EJ	0- 2		FRIABLE	ABUNDANT
B F1	2- 17		FRIABLE	ABUNDANT
B F2	17- 45	SINGLE GRAIN	VERY FRIABLE	ABUNDANT
CB	45- 75		LOOSE	ABUNDANT
C	75-		LOOSE	PLENTIFUL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %	
			VALUE	SAMPLE STATE	METHOD	VALUE			
LM	3- 0								
A EJ	0- 2								
B F1	2- 17	2	1	5.2	2	4	4.5	5.22	.22
B F2	17- 45	2	1	5.5	2	4	4.8	2.90	.14
CB	45- 75	2	1	5.3	2	4	4.8	2.03	.11
C	75-	2	1	5.9	2	4	5.2	1.22	.08

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LM	3- 0				86.1					50.0
A EJ	0- 2				25.7	1	.4	1	.3	37.5
B F1	2- 17	.82	.11	.03	.23	1	.5	1	2.6	50.0
B F2	17- 45	.29	.06	.02	.12	1	1.2	1	2.4	50.0
CB	45- 75	.29	.06	.03	.14	1		1		20.7
C	75-	.77	.21	.04	.16	1	.5	1	1.4	21.6

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS				% VOL	GRAVEL %	CORBBLE %	STONE %
	P2 PPM.	S PPM.	CU PPM.	ZN PPM.				
LM	3- 0	214.0		23.7	98.6			
A EJ	0- 2	98.0	12.9	12.9	34.1			
B F1	2- 17	218.0	37.5	20.0	126.8	25		
B F2	17- 45	197.0	40.0	26.0	120.8	55	25	15
CB	45- 75	70.0	37.5	37.8	65.9	80	50	15
C	75-	62.0	29.7	52.3	59.6	80	50	15

# COLUMBIA

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 48 01 20	ORTHIC HUMID-FERRIC PODZOL(1978)	% TYPE: 2.0
LONGITUDE(W): 122 27 08	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC):		GENTLY UNDULATING
ELEVATION (M): 100		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR: GLACIAL

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLOW  
 STONINESS: MODERATELY STONY  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A H	0- 3				SANDY LOAM	
B F 1	3- 13	CLEAR	7.5YR4.0/3.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	7.5YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B F 2	13- 33	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B M	33- 48	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/3.5 MATRIX DRY		LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY
II C 1	48- 69	CLEAR			SAND VERY GRAVELLY	SINGLE GRAIN
II C 2	69-				SAND VERY GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIPT. 1
A H	0- 3				
B F 1	3- 13		FRIABLE	ABUNDANT	
B F 2	13- 33		FRIABLE	PLENTIFUL	NONE FINE THROUGHOUT MATRIX SPHERICAL
B M	33- 48	SINGLE GRAIN	VERY FRIABLE	ABUNDANT	NONE FINE THROUGHOUT MATRIX SPHERICAL
II C 1	48- 69		LOOSE	FEW	NONE FINE THROUGHOUT MATRIX SPHERICAL
II C 2	69-		LOOSE	FEW	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A H	0- 3	2	1	5.6	10.32	.45					
B F 1	3- 13	2	1	5.7	2.67	.15	1.10	.60	.10	.20	14.8
B F 2	13- 33	2	1	5.7	1.86	.11	.50	.40	.10	.10	13.6
B M	33- 48	2	1	5.6	1.22	.08	.10	.10	.10	.10	9.4
II C 1	48- 69	2	1	5.7	.52	.03					
II C 2	69-	2	1	5.8	.35	.02					

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	P1 PPM.	% VOL
A H	0- 3	107.0
B F 1	3- 13	165.0
B F 2	13- 33	51.5
B M	33- 48	28.0
II C 1	48- 69	30.0
II C 2	69-	36.0

# COLUMBIA

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 00 18	ORTHIC HUMO-FERRIC PODZOL (1978)	% TYPE: 3.0 CLASS: COMPLEX UNDULATING
LONGITUDE (W): 122 05 34		
PRECISION (SEC): 05		
ELEVATION (M): 195		
STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS	HORIZON	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
DEPTH (CM)	BOUNDARY						
LH	5- 0	ABRUPT		ORGANIC			
B F1	0- 17	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM GRANULAR	FRIABLE	ABUNDANT
B F2	17- 42	ABRUPT	10.0YR4.0/3.5 MATRIX MOIST	SANDY LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
II C	42-			SAND GRAVELLY	SINGLE GRAIN		

CONCRETION AND NODULE DESCRIP. 1

HORIZON	THICKNESS	CONCRETION AND
DEPTH (CM)	BOUNDARY	NODULE DESCRIP. 1
LH	5- 0	
B F1	0- 17	FE# FINE THROUGHOUT MATRIX SPHERICAL
B F2	17- 42	FE# FINE THROUGHOUT MATRIX SPHERICAL
II C	42-	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	5- 0										
B F1	0- 17	2	1	5.5	2.74	.19	.32	.07	.05	.09	21.1
B F2	17- 42	2	1	5.8	1.83	.13	.10	.07	.05	.04	21.4
II C	42-	2	1	5.6	1.03	.08	.27	.08	.05	.04	13.9

COARSE FRAGMENTS

HORIZON=DEPTH (CM.)	P1 PPM.	% VOL
LH	5- 0	
B F1	0- 17	42.0 20
B F2	17- 42	13.0
II C	42-	57.0 80

# COLUMBIA

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 01 11  
 LONGITUDE (W): 122 26 50 URTIC HUMO-FERRIC PODZOL(1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 80 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR 1: GLACIAL

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS		
					1/3 BAR.	15 BAR.	% FIELD MOISTURE
LH 3-0							
B F1 0-15	2	4	4.9	1.15	21.8	7.1	10.1
B F2 15-46	2	4	5.1	1.55	19.8	5.8	4.2
II C 1 46-102	2	4	5.4	2.34	6.7	3.2	4.1
II C 2 102-127	2	4	5.5	1.89	5.4	2.5	3.0

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
LH	3-0															
Bf1	0-15	2.56	2.68					11.0	89.0	79.0	57.9	48.0	34.0	24.0	1.0	
Bf2	15-46	2.63	2.74		27.8	29.3		18.0	82.0	65.0	35.2	28.0	17.0		3.0	
C1	46-102	2.68	2.75					10.0	90.0	68.0	41.0	33.0	30.0	6.0	2.0	
C2	102-127	2.68	2.74					5.0	95.0	80.0	37.6	28.0	26.0	6.0	2.0	

# COQUITLAM

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 24 28	ORTHIC FERRO-HUMIC PODZOL (1978)	X TYPE: 10.0
LONGITUDE (W): 122 06 24	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 02		ASPECT (DEG): 90
ELEVATION (M): 575		STRONGLY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: LACUSTRINE  
 SURFACE EXPRES. 1: BLANKET  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATED ON THE NORTH FORK OF STATLU CREEK.  
 ROOT MAT 20 CM THICK IN THE LOWER PART OF B FGJ.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
H 1	22- 15	CLEAR	2.5YR3.0/3.0 MATRIX MOIST 2.5YR3.0/3.5 MATRIX DRY		ORGANIC	
H 2	15- 0	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST 5.0YR2.5/2.0 MATRIX DRY		ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY
A E	0- 5	ABRUPT	10.0YR5.5/2.5 MATRIX MOIST 10.0YR7.0/1.5 MATRIX DRY		SILTY LOAM	MODERATE FINE SUBANGULAR BLOCKY
B HF	5- 17	CLEAR	7.5YR5.0/6.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B F	17- 40	DIFFUSE	10.0YR5.0/7.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ	40- 70	ABRUPT	10.0YR5.0/7.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE
BC	70- 95	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SILTY CLAY LOAM	STRATIFIED
C GJ	95-125		5.0Y4.5/2.0 MATRIX MOIST		SILTY CLAY LOAM	STRATIFIED

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
H 1	22- 15	FRIABLE HARD	ABUNDANT	
H 2	15- 0	FRIABLE HARD	ABUNDANT	
A E	0- 5	FRIABLE HARD	ABUNDANT	
B HF	5- 17	FRIABLE HARD	PLENTIFUL	
B F	17- 40	FRIABLE HARD	FEW	
B FGJ	40- 70	FRIABLE HARD	FEW	FEW FINE FAINT
BC	70- 95	FIRM VERY HARD		FEW MEDIUM DISTINCT 10.0YR5.0/7.0
C GJ	95-125	FIRM VERY HARD		FEW MEDIUM DISTINCT 2.5Y5.0/5.0

PHYSICAL & CHEMICAL DATA

		PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
H 1	22- 15	2	3.2	2	4	2.8	58.00	1.93	
H 2	15- 0	2	3.5	2	4	2.8	58.00	1.92	
A E	0- 5	1	4.8	1	4	3.1	1.97	.07	
B F	5- 17	2	4.2	2	4	3.6	7.60	.29	
B F	17- 40	1	5.1	1	4	4.3	4.06	.14	
B FGJ	40- 70	1	5.2	1	4	4.6	2.73	.10	
BC	70- 95	1	5.3	1	4	5.1		.02	
C GJ	95-125	2	5.7	2	4	5.1			

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
H 1	22- 15	15.84	3.17	.15	.51	162.0				
H 2	15- 0	3.74	1.34	.12	.27	120.9				
A E	0- 5	.51	1.73	.04	.03	17.2	1	0.6	3	0.7
B F	5- 17	.95	.23	.06	.09	46.3	1	3.1	3	3.2
B F	17- 40	.21	.05	.04	.09	34.3	1	1.1	3	0.6
B FGJ	40- 70	.62	.07	.03	.05	21.4	1	0.6	3	0.2
BC	70- 95	.41	.07	.05	.03	8.8	1	0.2	3	0.1
C GJ	95-125						1	0.3	3	0.1

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	METHOD	RESULT	METHOD	RESULT					
H 1	22- 15				24.0	25.5	9.0	4.2	34.8
H 2	15- 0				12.7	14.9	34.4	6.4	25.0
A E	0- 5	1	0.3	3	0.2				
B F	5- 17	1	1.3	3	1.1				
B F	17- 40	1	2.4	3	1.4				
B FGJ	40- 70	1	2.0	3	1.0				
BC	70- 95	1	1.0	3	0.3				
C GJ	95-125	1	1.0	3	0.3				

# CRESCENT

UNIT TYPE: SERIES

DATE OF SURVEY: 6R SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 05 02	ORTHIC GLEYSOL (1978)	% TYPE: 1.0
LONGITUDE (W): 123 08 18	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05		NEARLY LEVEL
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC: CLASTIC 1: SILTY  
 GENETIC NAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

ADDITIONAL NOTES

SITE LOCATION: 90 METERS SOUTHWEST OF WESTHAM ISLAND RD AND 64 METERS NORTHWEST OF WESTHAM ISLAND BRIDGE. IN THE C G2 AND C G5 THERE ARE HARD TUBULES AROUND OLD ROOT CHANNELS. THERE ARE ALSO THIN BANDS OF FINE SAND IN THE C G5.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
B G	20- 37	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM PRISMATIC
BC	37- 52	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST		SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY
C G1	52- 78	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G2	78-125	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G5	125-		2.5Y4.5/0.0 MATRIX MOIST		SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 20		FRIABLE	ABUNDANT		
B G	20- 37	SUBANGULAR BLOCKY	FIRM	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR4.5/6.0	FEW THIN ON PED FACES= UNSPECIFIED
BC	37- 52		FIRM	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	
C G1	52- 78		FIRM	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/7.0	
C G2	78-125		FIRM		COMMON MEDIUM PROMINENT 5.0YR3.0/3.5	
C G5	125-		FIRM		FEW MEDIUM PROMINENT 5.0YR3.5/4.0	

PHYSICAL & CHEMICAL DATA

		PH 1			PH 2				
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	
A P	0-20	2	6.1	2	4	5.4	2.03	.17	
B G	20-37	2	6.4	2	4	5.5	.52	.07	
BC	37-52	2	6.6	2	4	5.7	.46	.05	
C G1	52-78	2	6.5	2	4	5.3	.40	.05	
C G2	78-125	2	5.0	2	4	4.2	.87	.07	
C G5	125-	2	3.8	2	4	3.8			

		EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C.					
HORIZON=DEPTH(CM.)		CA	MG	NA	K	DETERMINED	ELECT. COND. (MHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
A P	0-20	9.59	3.32	.07	.47	16.9	.30	57.1	188.8	34.4	30.1
B G	20-37	6.36	6.11	.12	.45	14.5	.10	5.1	162.9	15.3	35.6
BC	37-52	4.40	7.14	.18	.37	14.0	.20	2.5	173.3	15.3	38.9
C G1	52-78	4.08	7.80	.24	.32	15.7	.20	5.6	198.8	17.8	44.0
C G2	78-125	2.19	4.08	.24	.16	16.4	.30	22.2	94.4		38.3
C G5	125-	2.44	3.08	.08	.44	11.7	4.90	11.4	154.8		35.5

		PARTICLE SIZE(%)				
HORIZON=DEPTH(CM.)	ZN PPM.	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL	
A P	0-20	95.7	4	75	21	8
B G	20-37	95.5	2	75	23	8
BC	37-52	95.6	6	74	20	8
C G1	52-78	95.6	7	75	18	
C G2	78-125	75.3				
C G5	125-	119.3				

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg <sub>1</sub> (52-78)			mica, vermiculite, interstratified vermiculite-mica, chlorite	montmorillonite, quartz	kaolinite, plagioclase feldspars			montmorillonite		vermiculite, chlorite, mica, quartz



# CRESCENT

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: DNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 05 38	ORTHOIC GLEYSOL(1978)	%
LONGITUDE(W): 123 09 46	STATUS: MODAL SOIL	TYPE: CLASS:
PRECISION (SEC): 05		COMPLEX
ELEVATION (M): 2		GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

COMMON HARD TUBULES AROUND OLD ROOT CHANNELS IN C G2 AND C G3, THEIR COLOR IS 10YR4.0/4.0 MOIST.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
B G	18- 30	CLEAR	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	WEAK COARSE SUBANGULAR BLOCKY	
C G1	30- 48	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G2	48- 97	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G3	97-		2.5Y4.0/1.0 MATRIX MOIST		MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 18	NON STICKY FRIABLE SLIGHTLY PLASTIC	ABUNDANT FINE	
B G	18- 30	NON STICKY FRIABLE SLIGHTLY PLASTIC	FEW FINE	COMMON DISTINCT 10.0YR5.0/7.0
C G1	30- 48	NON STICKY FRIABLE SLIGHTLY PLASTIC	VERY FEW FINE	COMMON DISTINCT 10.0YR5.0/7.0
C G2	48- 97	NON STICKY FRIABLE SLIGHTLY PLASTIC		COMMON DISTINCT 10.0YR8.0/4.0
C G3	97-	NON STICKY NONPLASTIC		FEW DISTINCT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 18	2	1	5.4	2.74	.18	7.38	2.54	.18	.22	22.7
B G	18- 30	2	1	4.8	2.72	.11	2.44	2.69	.18	.16	20.5
C G1	30- 48	2	1	4.4	1.10	.07	1.54	1.13	.26	.11	16.9
C G2	48- 97	2	1	3.9	1.43	.04	1.38	1.72	.26	.20	14.8
C G3	97-	2	1	3.4							

HORIZON-DEPTH(CM.)	ELECT. COND. (MMHQS/CM)	P1 DPM.
A P	0- 18	.25
B G	18- 30	.09
C G1	30- 48	.22
C G2	48- 97	.51
C G3	97-	3.70

# CRESCENT

UNIT TYPE: SERIES

DATE OF SURVEY: 5R SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE	
LATITUDE(N): 49 06 38	ORTHC GLEYSOL(1978)	TYPE:	COMPLEX
LONGITUDE(W): 123 02 23		CLASS:	GENTLY UNDULATING
PRECISION (SEC): 05	STATUS: MODAL SOIL		
ELEVATION (M): 2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY	
B G	18- 36	GRADUAL	10.0YR5.0/1.0 MATRIX MOIST 2.5YR6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	COARSE ANGULAR BLOCKY
C G1	36- 57	CLEAR	10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
C G2	57- 72	CLEAR	10.0YR5.0/1.5 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE STRATIFIED	FINE STATIFIED
II C G	72-			SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 18	FRIABLE HARD	ABUNDANT FINE	FAINT
B G	18- 36	SLIGHTLY STICKY FIRM SLIGHTLY PLASTIC	PLENTIFUL FINE	MANY PROMINENT 7.5YR4.0/4.0
C G1	36- 57	SLIGHTLY STICKY FRIABLE SLIGHTLY PLASTIC	PLENTIFUL FINE	COMMON DISTINCT 10.0YR5.0/6.0
C G2	57- 72	NON STICKY VERY FRIABLE SLIGHTLY PLASTIC	FEW FINE	FEW FAINT
II C G	72-	LOOSE	VERY FEW FINE	FEW FAINT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 18	2	1	5.2	6.88	.38	6.17	1.67	.23	.17	31.4
B G	18- 36	2	1	5.4	.56		5.70	2.57	.21	.08	16.9
C G1	36- 57	2	1	5.5	.45		5.01	3.13	.22	.07	15.5
C G2	57- 72	2	1	5.5	.55		3.28	1.73	.22	.06	11.5
II C G	72-	2	1	5.7	.05		.72	.52	.12	.03	3.4

HORIZON=DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	P1 PPM.
A P	0- 18	.05
B G	18- 36	13.5
C G1	36- 57	6.4
C G2	57- 72	10.4
II C G	72-	10.0
		17.4

# CRESCENT

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION: 49 05 02  
 LONGITUDE (#): 123 08 18  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

CLASSIFICATION: ORTHIC GLEYSOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-30	2	4	6.4	1.33	34.9	8.8	13.3	27.0	35.9
B G 30-61	2	4	6.3	1.35	39.8	9.5	23.4	26.0	36.6
C 3 61-102	2	4	5.7	1.38	35.8	8.4	34.7	23.6	34.4
C G 102-127	2	4	3.9	1.20	40.6	7.4	43.5	24.1	32.6

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-30	2.67	2.75		27.2	28.3						100.0	97.0	93.0	20.0
Bg	30-61	2.69	2.78		28.6	29.8						100.0	96.0	96.0	17.0
CB	61-102	2.67	2.76		26.2	27.4						100.0	90.5	86.0	17.0
Cg	102-127	2.67	2.76		30.8	32.0						100.0	98.0	81.0	13.0

# CRESENT

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: UBC

LOCATION: 49 07 56  
 LONGITUDE (#): 123 08 52  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

CLASSIFICATION: ORTHIC GLEYSOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-31	2	4	4.8	1.35	35.2	10.6	28.8	32.0	39.6
B 3 31-61	2	4	4.9	1.30	38.1	11.8	31.4	25.8	36.9
C G1 61-102	2	4	4.9	1.12	37.3	9.7	39.7	25.3	34.1
C G2 102-127	2	4	4.8	1.21	34.5	8.3	41.2	27.3	34.7

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-31	2.60	2.69		31.2	32.5						100.0	93.6	89.4	21.5
Bg	31-61	2.66	2.76		27.5	28.8						100.0	99.0	99.4	26.0
Cg1	61-102	2.67	2.75		28.1	29.2						100.0	95.4	87.0	16.1
Cg2	102-127	2.64	2.73		29.7	30.8						100.0	91.1	82.8	15.7

# DEAN

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b> ----- LATITUDE (N): 49 22 08 LONGITUDE (W): 123 05 51 PRECISION (SEC): 05 ELEVATION (M): 370	<b>CLASSIFICATION</b> ----- ORTSTEIN FERRO-HUMIC PODZOL(1978) STATUS: MODAL SOIL	<b>SLOPE</b> ----- % TYPE: 10.0 CLASS: SIMPLE ASPECT (DEG): 270 STRONGLY SLOPING
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**PARENT MATERIAL & LANDFORM**  
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**UPPER STRATIGRAPHIC UNIT**  
 -----

SPEC. CLASTIC 1: BOULDERY  
 COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

**ADDITIONAL NOTES**  
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SITE LOCATED 90 METERS NORTH OF GRAVEL PIT NEAR ENTRANCE TO CAPILAN  
 WATERSHED.

**PROFILE DESCRIPTION**  
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HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	8- 6		ABRUPT			ORGANIC	
H	6- 0		ABRUPT	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY
A E	0- 8	3- 10	ABRUPT	5.0YR4.5/1.0 MATRIX MOIST		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF1	8- 17		GRADUAL	5.0YR3.0/2.5 MATRIX MOIST		LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY
B HF2	17- 45		GRADUAL	5.0YR3.0/3.5 MATRIX MOIST		LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY
B FC1	45- 65			5.0YR4.0/8.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST		MASSIVE
B FC2	65-110		DIFFUSE	5.0YR4.0/7.0 MATRIX MOIST		SAND GRAVELLY	MASSIVE
B C	110-150		DIFFUSE	5.0Y5.0/3.0 MATRIX MOIST		SAND GRAVELLY	MASSIVE
C 1	150-200		DIFFUSE	5.0Y5.0/2.5 MATRIX MOIST		SAND GRAVELLY	MASSIVE
C 2	200-250		DIFFUSE			SAND GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LF	8- 6			FEW		
H	6- 0		FRIABLE	ABUNDANT		
A E	0- 8		FRIABLE	ABUNDANT		
B HF1	8- 17		FRIABLE	ABUNDANT		
B HF2	17- 45		FRIABLE	ABUNDANT		WEAKLY CEMENTED DISCONTINUOUS
B FC1	45- 65	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FIRM	FEW		STRONGLY CEMENTED CONTINUOUS
B FC2	65-110	SINGLE GRAIN	VERY FIRM	FEW	MANY MEDIUM PROMINENT 7.5YR3.0/7.0	STRONGLY CEMENTED CONTINUOUS
B C	110-150	SINGLE GRAIN	FIRM	FEW	FEW FINE FAINT	WEAKLY CEMENTED
C 1	150-200	SINGLE GRAIN	LOOSE	FEW		
C 2	200-250	SINGLE GRAIN	LOOSE			

DEAN (Continued)

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LF	8= 6	2	4.5	2	4	3.6	58.00	1.65	
H	6= 0	2	3.9	2	4	3.0	54.81	1.31	
A E	0= 8	1	4.3	2	4	3.4	2.09	.07	
B MF1	8= 17	1	5.0	2	4	4.3	5.39	.20	
B MF2	17= 45	1	5.1	2	4	4.5	6.96	.29	
B FC1	45= 65	1	5.3	2	4	4.7	4.93	.20	
B FC2	65=110	1	5.4	2	4	5.1	2.03	.09	
B C	110=150	1	5.6	2	4	5.3		.02	
C 1	150=200	1	5.6	2	4	5.3			
C 2	200=250	1	5.7	2	4	5.4			

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	8= 6	10.51	2.42	.25	1.70	108.3			
H	6= 0	12.81	2.28	.23	.80	121.2			
A E	0= 8	.31	.09	.06	.03	10.5	1	0.2	3
B MF1	8= 17	.69	.18	.03	.04	40.2	1	2.1	3
B MF2	17= 45	.34	.14	.04	.04	37.9	1	1.7	3
B FC1	45= 65	.21	.09	.09	.04	38.5	1	1.5	3
B FC2	65=110	.14	.06	.04	.03	22.7	1	0.9	3
B C	110=150						1	0.2	3
C 1	150=200						1	0.2	3
C 2	200=250						1	0.4	3

HORIZON=DEPTH(CM.)	EXTRACTABLE AL (%)				COARSE FRAGMENTS					
	METHOD	RESULT	METHOD	RESULT	P1 DDM,	P2 DDM,	S DDM,	CU DDM,	ZN DDM,	% VOL
LF	8= 6				39.6	45.5	75.0	26.4	74.2	
H	6= 0				33.5	38.5		23.6	148.6	
A E	0= 8	1	0.2	3	3.8	6.3	3.8	5.6	12.7	50
B MF1	8= 17	1	4.1	3	1.3	8.8	20.0	55.5	10.7	33.6
B MF2	17= 45	1	5.3	3	1.3	7.1	11.3	56.3	11.9	42.7
B FC1	45= 65	1	5.2	3	1.1	8.2	14.6	70.0	16.7	54.4
B FC2	65=110	1	3.7	3	0.6	9.6	23.8	77.5	14.5	47.1
B C	110=150	1	0.8	3					31.2	58.3
C 1	150=200	1	0.7	3					29.6	60.1
C 2	200=250	1	0.8	3					27.1	56.0

# DEAS

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 04 53	REGU HUMIC GLEYSOL(1978)	%
LONGITUDE(W): 122 56 56	STATUS: MUDAL SOIL	TYPE: 1.0
PRECISION (SEC): 02		COMPLEX
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 800 METERS NORTH OF BOUNDARY BAY DYKE; 604 METERS EAST OF MATHEWS ROAD.  
 CLASSIFICATION PHASE IS SALINE.  
 THERE IS SOME C G1 MIXED WITH THE AP AND SOME OF THE AP IS IN THE CRACKS OF THE C G1. IN THE C G5 THE SULPHUR VALUE IS >500.0  
 THERE ARE THIN BANDS OF FINE SAND IN THE C G5.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C G1	20- 35	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE COARSE ANGULAR BLOCKY PSEUDO
C G2	35- 50	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G3	50- 80	CLEAR	5.0Y5.0/1.5 MATRIX MOIST		SILT LOAM	MASSIVE
C G5	80-100		5.0Y4.0/1.0 MATRIX MOIST	2.5Y4.0/0.0 MATRIX MOIST	SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 20				
C G1	20- 35	FIRM HARD	ABUNDANT	FEW FINE DISTINCT 7.5YR3.0/2.0	
C G2	35- 50	FRIABLE	PLENTIFUL	FEW FINE DISTINCT 7.5YR3.0/2.0	
C G3	50- 80	FRIABLE	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	5.0Y7.0/4.0
C G5	80-100	FRIABLE		FEW MEDIUM PROMINENT 7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHDD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	4.6	2	4	4.1	12.88
C G1	20- 35	2	1	4.9	4	4	4.1	1.10
C G2	35- 50	2	1	4.5	4	4	3.9	
C G3	50- 80	2	1	3.8	4	4	3.6	
C G5	80-100	2	1	3.5	4	4	3.6	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K						
A P	0- 20	9.64	1.99	.15	.48	40.1	5.2	94.8	27.8	45.1
C G1	20- 35	3.98	2.04	.20	.17	14.3	5.1	35.1	8.9	65.1
C G2	35- 50	2.16	1.65	.19	.15	14.7	12.9	47.9	70.9	58.3
C G3	50- 80	.92	.92	.17	.13	13.0	11.2	37.7	350.5	44.6
C G5	80-100						4.40	59.3	173.8	122.7

HORIZON-DEPTH(CM.)	ZN PPM.	
A P	0- 20	28.0
C G1	20- 35	29.3
C G2	35- 50	60.3
C G3	50- 80	56.6
C G5	80-100	36.9

# DEFEHR

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: HAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 02 30	GLEYED HUMD-FERRIC PODZOL(1978)		%	1.0
LONGITUDE(W):	122 24 18			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL			
ELEVATION (M):	70				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

CUMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLO  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 350 METERS EAST OF COLUMBIA BITHILUTHIC GRAVEL PIT NEAR  
 ROSS ROAD MATSOU.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 17	ABRUPT	10.0YR3.0/3.5 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B FGJ	17- 27	CLEAR	10.0YR4.5/4.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	LOAM GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B FG	27- 42	CLEAR	10.0YR5.0/3.5 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SANDY LOAM GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
II C G1	42- 62	GRADUAL		COARSE SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW
II C G2	62-			COARSE SAND GRAVELLY	SINGLE GRAIN	LOOSE	

THICKNESS MOTTLES 1  
 HORIZON DEPTH(CM)

A P	0- 17	
B FGJ	17- 27	FEW FINE FAINT
B FG	27- 42	COMMON MEDIUM DISTINCT 7.5YR5.0/6.0
II C G1	42- 62	MANY COARSE DISTINCT 7.5YR5.0/6.0
II C G2	62-	MANY MEDIUM FAINT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 17	2	1	5.3	5.86	.31	4.50	1.00	.20	.20	25.9
B FGJ	17- 27	2	1	5.9	3.42	.19	2.00	.70	.10	.20	22.9
B FG	27- 42	2	1	5.8	2.96	.15	1.10	.70	.30	.30	20.4
II C G1	42- 62	2	1	5.9	1.86	.11					
II C G2	62-	2	1	5.7	1.33	.07					

HORIZON-DEPTH(CM.)	D1 PPM.	
A P	0- 17	22.0
B FGJ	17- 27	6.0
B FG	27- 42	5.5
II C G1	42- 62	9.0
II C G2	62-	18.5

# DELTA

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>	
LATITUDE(N): 49 03 48	ORTHIC HUMIC GLEYSOL(1978)	K	1:0
LONGITUDE(W): 123 07 27		TYPE:	COMPLEX
PRECISION (SEC): 05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M): 2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILTY CLAY LOAM	SUBANGULAR BLOCKY	FINE GRANULAR
B G	22- 52	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	WEAK COARSE PRISMATIC	
C G	52-		5.0Y4.5/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 22	SLIGHTLY HARD	ABUNDANT	
B G	22- 52	SLIGHTLY STICKY FRIABLE PLASTIC	FE*	COMMON DISTINCT 10.0YR4.0/4.0
C G	52-	FRIABLE	VERY FE*	COMMON MEDIUM 10.0YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 22	2	1	5.2	0.83	.43	8.49	4.98	.56	.49	32.8
B G	22- 52	2	1	4.6	.87		2.34	4.38	1.09	.45	18.2
C G	52-	2	1	5.5	.87		3.24	4.81	1.74	.52	12.0

HORIZON-DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	P1 PPM.
A P	0- 22	.70
B G	22- 52	.90
C G	52-	1.62



# DELTA

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOANA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 04 05	ORTHIC HUMIC	GLEYSOL (1978)	X	1.0
LONGITUDE (W):	123 05 13	STATUS:	MODAL SOIL	TYPE:	COMPLEX
PRECISION (SEC):	02			CLASS:	NEARLY LEVEL
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 92 METERS SOUTH AND 800 METERS WEST OF BOUNDARY BAY-NELSON  
 RDS INTERSECTION.  
 FROM 58CM TO 102CM THERE ARE SCATTERED REMNANTS OF PARTIALLY DECOMPOSED  
 WOOD, ROOTS, AND LEAVES.  
 CLASSIFICATION PHASE: SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	ABRUPT	10.0YR3.0/1.5 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B G	22- 45	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM PRISMATIC	MODERATE MEDIUM ANGULAR BLOCKY
BC	45- 58	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C G1	58- 77	GRADUAL	10.0YR4.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
C G2	77-108	GRADUAL	10.0YR4.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	
C G5	108-		5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 22	FIRM	ABUNDANT			
B G	22- 45	FIRM	ABUNDANT	FEW MEDIUM DISTINCT		COMMON THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	45- 58	FIRM	PLENTIFUL	COMMON FINE PROMINENT 5.0YR4.0/4.0		
C G1	58- 77	FIRM	FEW	COMMON FINE PROMINENT 5.0YR4.0/4.0		
C G2	77-108	FIRM	FEW	COMMON MEDIUM PROMINENT 2.5Y6.0/4.0	2.5Y7.0/6.0	
C G5	108-	FIRM		COMMON MEDIUM PROMINENT 2.5Y6.0/4.0		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0= 22	2	1	4.7	20	4	4.1	1.06	.73
B G 22= 45	2	1	4.4	20	4	4.0	.99	.08
BC 45= 58	2	1	4.3	20	4	3.9	.93	.07
C G1 58= 77	2	1	4.3	20	4	3.8	1.28	.11
C G2 77=108	2	1	4.2	20	4	3.8	1.16	.12
C G5 108=	2	1	3.9	20	4	3.8		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K							
A P 0= 22	8.82	1.94	.18	.52	39.5		72.0	183.8	47.3	36.8	
B G 22= 45	3.41	2.05	.42	.25	21.1		17.7	169.4	112.3	39.8	
BC 45= 58	2.55	2.14	.71	.22	18.7		17.9	114.9		35.7	
C G1 58= 77	1.89	2.15	.65	.24	21.4		19.9	89.0		35.8	
C G2 77=108	1.64	2.57	.65	.31	22.2		23.8	53.4		32.1	
C G5 108=						9.20	8.7	167.2		43.7	

HORIZON=DEPTH(CM.)	ZN PPM.	PARTICLE SIZE(%)			
		TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
A P 0= 22	74.8	2	64	34	10
B G 22= 45	80.9	1	71	28	10
BC 45= 58	75.3				
C G1 58= 77	74.1	2	73	25	9
C G2 77=108	64.2	5	70	25	8
C G5 108=	122.2				

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg (58-77)			montmorillonite, vermiculite, mica	chlorite, quartz, plagioclase feldspars	gypsum		montmorillonite		mica, vermiculite, interstratified vermiculite-chlorite, quartz	kaolinite

# DENNETT

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.R.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 20 04	TYPIC FOLISOL(1978)	% TYPE: 20.0
LONGITUDE(W): 122 42 58	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		STEPLY SLOPING
ELEVATION (M): 1000		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
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GENETIC MAT.: ORGANIC	GENETIC MAT.: BEDROCK
SURFACE EXPRES.: VENEER	

BEDROCK

TYPE: INTRUSIVE ACID	DRAINAGE: WELL DRAINED	RUNOFF: SLOW
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ADDITIONAL NOTES

SITE LOCATION: ON BURKE MOUNTAIN, NORTH OF COQUITLAM.  
 THE STRUCTURE OF M1 IS MATTED MYCELIAL AND M2 IS AMORPHOUS. TEXTURE IN EACH IS HUMIC. LF IS FIBRIC.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
M 1	19- 10	CLEAR	5.0YR2,0/2,0 MATRIX MOIST	ORGANIC		FRIABLE	ABUNDANT
M 2	10- 0	ABRUPT	5.0YR2,0/2,0 MATRIX MOIST	ORGANIC		FRIABLE	ABUNDANT
A E	0- 5	ABRUPT	7.5YR5,0/2,0 MATRIX MOIST	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
R	5-+						

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF	20- 19	2	2	3.6	2	4	3.2	54.46
M 1	19- 10	2	2	3.4	2	4	2.7	58.00
M 2	10- 0	2	2	3.5	2	4	2.6	58.00
A E	0- 5	2	1	4.1	2	4	3.6	1.80
R	5-+							

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.					
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
LF	20- 19	4.50	4.95	.50	3.94	99.1	26.7	31.0	175.0	31.8	138.0
M 1	19- 10	3.39	6.56	.49	2.52	118.4	20.8	24.3	97.0	20.9	140.3
M 2	10- 0	.87	3.18	.46	1.04	98.8	12.7	15.7	51.0	9.0	60.8
A E	0- 5	.08	.08	.04	.06	6.5	1.4	1.6	3.8	3.8	3.3
R	5-+										

# DEVIL

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b> LATITUDE(N): 49 16 06 LONGITUDE(W): 122 26 18 PRECISION (SEC): 02 ELEVATION (M): 900	<b>CLASSIFICATION</b> ORTHIC FERRO-HUMIC PDDZOL(1978) STATUS: MODAL SOIL	<b>SLOPE</b> % TYPE: 20.0 CLASS: SIMPLE ASPECT (DEG): 90 MODERATELY WELL DRAINED SLOW PEROUSNESS: MODERATE
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**PARENT MATERIAL & LANDFORM**

<b>UPPER STRATIGRAPHIC UNIT</b> GENETIC MAT.: MORAINAL SURFACE EXPRES.: VENEER	<b>MIDDLE STRATIGRAPHIC UNIT</b> GENETIC MAT.: BEDROCK
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<b>BEDROCK</b> ROOTING DEPTH: 95 CM. TYPE: SEDIMENT CONGLOMERATE	SEEPAGE: ABSENT COARSE FLOOD HAZARD: NO HAZARD
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**ADDITIONAL NOTES**

SITE LOCATED 1600 METERS EAST OF BLUE MOUNTAIN, MAPLE RIDGE.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	15- 8	ABRUPT			ORGANIC	
M	8- 0	ABRUPT	2.5YR2.0/3.0 MATRIX MOIST		ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY
A HE	0- 8	ABRUPT	5.0YR5.0/2.0 MATRIX MOIST	10.0YR6.0/2.0 MATRIX MOIST	LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF	8- 22	CLEAR	5.0YR2.0/1.5 MATRIX MOIST	5.0YR3.0/3.0 MATRIX MOIST	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F	22- 47	GRADUAL	5.0YR3.5/4.0 MATRIX MOIST	2.5YR2.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
II B F	47- 70	GRADUAL	10.0YR5.0/5.0 MATRIX MOIST	2.5YR2.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE COARSE SUBANGULAR BLOCKY
II B M	70- 95	GRADUAL	10.0YR5.0/5.0 MATRIX MOIST	2.5YR2.0/4.0 MATRIX MOIST	SAND	
R	95-					STRATIFIED

HORIZON DEPTH(CM)	THICKNESS	CONSISTENCE	ROOTS 1
LF	15- 8	LOOSE	ABUNDANT
M	8- 0	FRIABLE	ABUNDANT
A HE	0- 8	FRIABLE	ABUNDANT
B HF	8- 22	FRIABLE	PLENTIFUL
B F	22- 47	FRIABLE	PLENTIFUL
II B F	47- 70	FIRM	PLENTIFUL
II B M	70- 95	FIRM	FEW
R	95-	VERY FIRM	

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %
			VALUE	STATE	VALUE	STATE		
LF	15- 8	2	4.7	2	3.7	30.74	1.12	
M	8- 0	2	4.0	2	1.7	58.00	2.02	
A HE	0- 8	2	3.9	2	3.1	7.02	.17	
B HF	8- 22	2	4.4	2	3.7	7.31	.29	
B F	22- 47	2	4.5	2	4.1	4.47	.19	
II B F	47- 70	2	4.4	2	4.2	3.71	.13	
II B M	70- 95	2	4.9	2	4.2	3.42	.11	
R	95-	2	5.3	2	5.3	.81	.03	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)			C. E. C. DETERMINED	EXTRACTABLE PE(%)				
	CA	MG	NA		K	METHOD	RESULT	METHOD	RESULT
LF	15- 8	5.70	2.08	.15	1.64	75.8			
M	8- 0	10.51	3.62	.30	.75	144.9			
A HE	0- 8	.67	.24	.05	.08	24.4			
B HF	8- 22	1.48	.16	.08	.08	42.4	1	1.3	3
B F	22- 47	1.10	.03	.12	.08	28.0	1	1.4	3
II B F	47- 70	2.61	.03	.14	.14	29.6	1	1.3	3
II B M	70- 95	3.36	.29	.16	.16	26.8			
R	95-	6.75	.76	.15	.15	21.3			

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)		METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT								
LF	15- 8				26.9	40.6		21.9	59.2	4.2
M	8- 0				31.5	45.6		14.6	62.3	0.3
A HE	0- 8				2.0	3.6	9.0	10.8	11.6	0.1
B HF	8- 22	1	3.2	3	0.8	2.7	14.7	24.3	26.7	0.1
B F	22- 47	1	1.9	3	0.8	8.4	10.5	36.8	50.8	0.1
II B F	47- 70	1	.9		5.2	13.6	10.4	26.7	52.2	0.1
II B M	70- 95				10.7	23.4	9.1	24.8	52.1	0.1
R	95-				20.2	52.1	5.1	23.3	49.4	0.1

# DEWDNEY

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 15 27	GLEVED ELUVIATED MELANIC BRUNISOL(1978)	% TYPE: 3.0 CLASS: COMPLEX UNDULATING
LONGITUDE (W): 121 43 50		
PRECISION (SEC): 05		
ELEVATION (M): 15		
STATUS: MODAL SOIL		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

**MIDDLE STRATIGRAPHIC UNIT**

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENER

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

**ADDITIONAL NOTES**

SITE LOCATION: NEAR WESTERN END OF SEABIRD ISLAND.  
 EVIDENCE OF EARTHWORM ACTIVITY IN THE A H.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	1- 0	ABRUPT				
A H	0- 13	CLEAR	10.0YR3.0/1.0 MATRIX MOIST		SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
A E J G J	13- 25	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B T J G J	25- 35	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
II BC	35- 55	DIFFUSE			SAND	WEAK COARSE SUBANGULAR BLOCKY
II C G J	55-				SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
LF	1- 0						
A H	0- 13	MODERATE MEDIUM GRANULAR	FRIABLE	ABUNDANT			
A E J G J	13- 25		FIRM	ABUNDANT	FEW MEDIUM FAINT	10.0YR4.0/4.0	
B T J G J	25- 35		FIRM	PLENTIFUL	MANY MEDIUM DISTINCT	7.5YR4.0/4.0	FEW THIN ON PED FACES= UNSPECIFIED
II BC	35- 55	SINGLE GRAIN	VERY FRIABLE	FEW	FEW COARSE DISTINCT		
II C G J	55-		LOOSE		FEW FAINT		

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LF	1- 0	2	5.5	23.39	.90	19.30	2.59	.09	.37	37.1
A H	0- 13	2	5.8	6.38	.33	9.30	1.19	.08	.29	15.8
A E J G J	13- 25	2	6.1	1.04	.08	6.60	.83	.08	.19	12.8
B T J G J	25- 35	2	5.8	.87	.06	1.70	.21	.05	.09	4.0
II BC	35- 55	2	6.2			2.30	.15	.05	.10	3.6
II C G J	55-	2	6.1							

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
LF	1- 0	
A H	0- 13	59.0
A E J G J	13- 25	57.0
B T J G J	25- 35	10.0
II BC	35- 55	9.5
II C G J	55-	7.0

# DIXON

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 03 43	REGO GLEYSOL (1978)	% 00.0
LONGITUDE (W): 122 06 50	MODAL SOIL	TYPE: SIMPLE
PRECISION (SEC): 05		ASPECT (DEG): 000
ELEVATION (M): 2	STATUS:	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: LACUSTRINE

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

THE C G1 AND C G2 HAVE SOME WIDELY SPACED VERTICAL CRACKS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE HARD	ABUNDANT
C G1	20- 40	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	WEAK MASSIVE	FIRM	ABUNDANT
C G2	40- 65	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST	SILTY CLAY LOAM	WEAK MASSIVE	FIRM	PLENTIFUL
C G3	65- 80	ABRUPT	5.0Y4.5/1.0 MATRIX MOIST	LOAM	MASSIVE	FRIABLE	
II C G	80-100		2.5Y3.5/0.0 MATRIX MOIST	SAND	MASSIVE	VERY FRIABLE	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 20			
C G1	20- 40	COMMON MEDIUM PROMINENT 7.5YR4.0/5.0		FEW THIN
C G2	40- 65	COMMON MEDIUM PROMINENT 7.5YR4.0/5.0		FEW THIN
C G3	65- 80	COMMON COARSE PROMINENT 7.5YR4.0/4.0	5.0YR4.0/6.0	
II C G	80-100			

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHDD	VALUE	SAMPLE STATE	METHDD	VALUE		
A P	0- 20			2	4	5.5	1.59	.14
C G1	20- 40	2	1	2	4	5.8	.69	.07
C G2	40- 65	2	1	2	4	5.8		.07
C G3	65- 80	2	1	2	4	5.6		.06
II C G	80-100	2	1	2	4	5.1		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.						
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.	
A P	0- 20	10.16	3.05	.05	.52	16.4	68.1	256.1	3.0	66.1	86.4	13.2
C G1	20- 40	10.17	3.85	.08	.25	15.2	3.1	97.6	4.1	34.8	78.8	6.6
C G2	40- 65	9.14	4.06	.08	.15	13.2	4.9	86.3	3.1	27.2	64.7	5.6
C G3	65- 80	4.85	3.58	.08	.10	9.1	3.1	83.3	47.0	24.0	64.6	7.6
II C G	80-100								17.1	47.0		17.1

# DIXON

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE	
LATITUDE (N):	REGO GLEYSOL(1978)	%	1:0
LONGITUDE (W):	STATUS: MODAL SOIL	TYPE:	COMPLEX
ELEVATION (M):		CLASS:	NEARLY LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

ADDITIONAL NOTES

LOCATED IN THE SUMAS LAKE AREA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	CLEAR	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
C G1	22- 57	DIFFUSE	5.0Y4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	WEAK PLATY PSEUDO
C G2	57- 82	DIFFUSE	5.0Y4.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	WEAK PLATY PSEUDO
C G3	82-112		5.0Y4.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 22	FRIABLE	ABUNDANT	
C G1	22- 57	FRIABLE	ABUNDANT	COMMON MEDIUM DISTINCT 10.0YR5.0/8.0
C G2	57- 82	FIRM	FEW	COMMON MEDIUM PROMINENT 10.0YR5.0/8.0
C G3	82-112	FRIABLE	FEW	MANY MEDIUM DISTINCT 5.0YR4.0/8.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 22	2	1	5.7	2.18	.23	8.61	1.89	.11	.18	21.2
C G1	22- 57	2	1	6.2	1.03	.07	8.51	3.69	.13	.14	16.1
C G2	57- 82	2	1	6.4	.37	.05	7.36	4.48	.18	.14	19.1
C G3	82-112	2	1	6.5	.45	.05	6.35	4.17	.17	.11	14.1

HORIZON-DEPTH(CM.)	P1 DPM.	
A P	0- 22	6.0
C G1	22- 57	6.0
C G2	57- 82	4.0
C G3	82-112	6.0

# DURIEU

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION

LATITUDE (N): 49 14 47  
 LONGITUDE (W): 122 13 32  
 PRECISION (SEC): 05  
 ELEVATION (M): 120

CLASSIFICATION

ORTHIC FERRO-HUMIC PODZOL(1978)

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR I: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A D 0-10	2	4	4.4	.71	41.0	16.5	63.7	52.0	51.7
B hf 10-25	2	4	4.7	.68	39.5	13.4	60.1	45.4	41.8
B f1 25-46	2	4	4.9	.70	40.0	11.4	51.7	38.0	37.7
B f2 46-67	2	4	4.9	1.05	37.0	12.0	53.9	35.9	36.1
I I B m 67-102	2	4	5.0	1.50	19.2	7.2	20.9	19.5	21.0
I I C G j 102-127	2	4	5.2	1.75	21.5	8.5	19.5	18.3	22.7

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry			>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-10	2.36	2.57										100.0	62.0	51.0	8.0
Bhf	10-25	2.48	2.68										100.0	66.0	60.0	8.0
Bf1	25-46	2.52	2.69		49.0	51.5							100.0	68.0	66.0	5.0
Bf2	46-67	2.55	2.75										92.5	68.0	63.0	2.0
I I B m	67-102	2.69	2.78		25.9	27.1							100.0	65.0	49.0	5.0
I I C G j	102-127	2.67	2.78		21.2	22.7							100.0	68.0	59.0	12.0



# DURIEU

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 15 04	ORTHIC FERRO-HUMIC PODZOL(1978)	% 4.0
LONGITUDE (W): 122 14 40		TYPE: SIMPLE
PRECISION (SEC): 05		ASPECT (DEG): 90
ELEVATION (M): 320		STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 185 METERS NORTHEAST OF INTERSECTION OF STAVE LAKE AND HARTLEY ROADS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
L	6- 5	ABRUPT		ORGANIC		
M	5- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST	ORGANIC	WEAK FINE GRANULAR	
A EJ	0- 1	ABRUPT	5.0YR4.5/1.5 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B HF	1- 13	CLEAR	5.0YR3.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	
B F1	13- 27	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	
B F2	27- 42	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B HGJ	42- 65	CLEAR	10.0YR4.5/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK FINE SUBANGULAR BLOCKY
A EJGJ	65- 85	CLEAR	5.0Y5.0/3.0 MATRIX MOIST	SILT LOAM	MASSIVE	STRONG COARSE SUBANGULAR BLOCKY
AB	85-		5.0Y4.5/3.0 MATRIX MOIST	SILT LOAM	MASSIVE	STRONG COARSE SUBANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
L	6- 5			
M	5- 0	FRIABLE	PLENTIFUL	
A EJ	0- 1	FRIABLE	ABUNDANT	
B HF	1- 13	FRIABLE	ABUNDANT	
B F1	13- 27	FRIABLE	ABUNDANT	
B F2	27- 42	FRIABLE	PLENTIFUL	
B HGJ	42- 65	FRIABLE	PLENTIFUL	FEW FINE FAINT
A EJGJ	65- 85	VERY FIRM	VERY FEW	COMMON MEDIUM DISTINCT 10.0YR4.0/3.0
AB	85-	VERY FIRM		COMMON MEDIUM DISTINCT 10.0YR4.0/3.5

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1		METHOD	VALUE	PH 2		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	2			SAMPLE STATE	2				
L	6-5	2	2	5.1	2	4	4.6	42.28	1.31	
H	5-0	2	2	3.9	2	4	3.9	23.32	1.05	
A EJ	0-1									
B HF	1-13	2	1	4.7	2	4	4.3	6.96	.29	
B F1	13-27	2	1	5.1	2	4	4.7	3.30	.17	
B F2	27-42	2	1	5.5	2	4	5.0	2.15	.12	
B MGJ	42-65	2	1	5.4	2	4	4.9	2.15	.12	
A EJGJ	65-85	2	1	6.0	2	4	4.9	.23	.02	
AB	85-85	2	1	5.8	2	4	5.1	.12	.02	

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L	6-5	28.68	4.89	.09	1.50	109.6				51.1
H	5-0	9.55	2.26	.06	.48	78.9				22.1
A EJ	0-1									
B HF	1-13	.27	.11	.02	.16	47.4	1	1.9	1	2.7
B F1	13-27	.22		.03	.06	35.4	1	1.8	1	3.4
B F2	27-42	.08		.04	.10	26.2	1	1.2	1	2.4
B MGJ	42-65	.08		.04	.10	29.0				4.3
A EJGJ	65-85	2.01	.80	.07	.10	17.4	1	.8	1	43.9
AB	85-85	9.80	4.06	.12	.18	21.8				21.2

HORIZON-DEPTH (CM.)	P2 PPM.	S PPM.	PARTICLE SIZE (%)				TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
			CU PPM.	ZN PPM.	TOTAL	62-2 U SILT				
L	6-5	68.0	16.5	90.9						
H	5-0	38.0	18.6	49.7						
A EJ	0-1									
B HF	1-13	5.0	21.4	56.0						
B F1	13-27	10.0	21.6	83.8	28	58	14			
B F2	27-42	13.0	21.4	75.9						
B MGJ	42-65	21.0	28.1	90.9	25	60	15	2		
A EJGJ	65-85	72.0	28.9	60.7	30	57	13	2		
AB	85-85	134.0	7.1	68.8	27	53	20	4		

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
AeJGJ (65-85)			chlorite, vermiculite	kaolinite, mica, quartz	amphiboles, plagioclase feldspars		montmorillonite		chlorite, vermiculite, mica, quartz, kaolinite	

# ELK

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 09 25	REGO HUMIC GLEYSOL(1978)		%	3.0
LONGITUDE(W):	122 25 07			TYPE:	SIMPLE
PRECISION (SEC):	05				
ELEVATION (M):	10	STATUS:	MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: SOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 400 METERS SOUTHEAST OF INTERSECTION OF RIVER  
 AND BRADNER RDS., GLEN VALLEY.

PROFILE DESCRIPTION

HORIZON	DEPTH(CM)	THICKNESS	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 17		CLEAR	10.0YR3.0/3.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
C G1	17- 37		ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	WEAK COARSE SUBANGULAR BLOCKY PSEUDO	FRIABLE	FEW
II C	37- 50		ABRUPT		SAND	SINGLE GRAIN	LODSE	FEW
C G2	50- 75		CLEAR	10.0YR4.0/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	SILT LOAM	MASSIVE	FRIABLE	
II C G	75-			2.5Y5.0/0.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	LOAMY FINE SAND	SINGLE GRAIN	VERY FRIABLE	

HORIZON	DEPTH(CM)	THICKNESS	MOTTLES 1
A P	0- 17		
C G1	17- 37		MANY MEDIUM DISTINCT 7.5YR5.0/6.0
II C	37- 50		FEW MEDIUM DISTINCT 7.5YR4.0/4.0
C G2	50- 75		FEW FINE FAINT 10.0YR5.0/6.0
II C G	75-		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 17	2	1	5.2	14.44	.43	6.00	.80	.10	.20	27.3
C G1	17- 37	2	1	5.6	.93	.08	4.90	.80	.10	.20	14.5
II C	37- 50	2	1	5.3	.46	.04	2.00	.40	.10	.10	6.5
C G2	50- 75	2	1	4.1	2.90	.12	9.50	2.20	.20	.20	20.9
II C G	75-	2	1	3.7	.93	.04	7.40	1.20	.20	.20	11.2

HORIZON=DEPTH(CM.)	D1 PPM.	D2 PPM.	
A P	0- 17	20.1	37.0
C G1	17- 37	11.0	55.0
II C	37- 50	16.4	23.0
C G2	50- 75	17.7	26.0
II C G	75-	11.6	51.0

# ELK

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 09 44	REGU HUMIC GLEYSOL(1978)		%
LONGITUDE(W):	121 48 58			TYPE: 4.0
PRECISION (SEC):	05	STATUS: MODAL SOIL		CLASS: SIMPLE
ELEVATION (M):	20			ASPECT (DEG): 360

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: POORLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	GRADUAL	10.0YR2.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY	GRANULAR
A C	20- 35	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	WEAK TO MODERATE MEDIUM ANGULAR BLOCKY	
C G	35- 55	CLEAR	10.0YR3.0/1.0 MATRIX MOIST	LOAM	MASSIVE	
II C G	55-			LOAMY SAND GRAVELLY	STRATIFIED	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	FIELD PH
A P	0- 20	FRIABLE	PLENTIFUL		MEDIUM ACID
A C	20- 35	FRIABLE	PLENTIFUL	FAINT	MEDIUM ACID
C G	35- 55	FRIABLE	FEW	COMMON FAINT	MEDIUM ACID
II C G	55-				

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHDD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 20	2	5.8	4.34	.34	13.50	1.52	.18	.14	30.9
A C	20- 35	2	5.6	4.44	.36	13.22	.91	.21	.14	34.9
C G	35- 55	2	5.7	1.09	.11	6.69	.60	.18	.05	14.6
II C G	55-	2	5.7	.82	.08	4.63	1.09	.16	.05	18.6

HORIZON-DEPTH(CM.)	D1 PPM.	
A P	0- 20	78.0
A C	20- 35	50.0
C G	35- 55	21.0
II C G	55-	24.0

# ELPHINSTONE

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 27 57	TERRIC MESISOL(1978)	% TYPE: 6.0
LONGITUDE(W): 123 33 40	STATUS: MODAL SOIL	ASPECT (DEG): 45
PRECISION (SEC): 05		
ELEVATION (M): 1160		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER  
 DESCRIPTOR 1: FEN

GENETIC MAT.: MOPAINAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: ON MOUNTAIN WEST OF MT. ELPHINSTONE, SECHLT PENINSULA. THE O M2, O M3 AND O H HAVE WOODY FRAGMENTS. THE O H ALSO HAS A 1 CM BAND OF ASH AT BOTTOM. THE C G HORIZON HAS MANY DARK COLOURED ANGULAR ROCK FRAGMENTS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
O F	80- 75	CLEAR	5.0YR3.0/2.0 MATRIX MOIST 10.0YR2.5/1.5 MATRIX DRY	ORGANIC		
O M1	75- 55	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 5.0YR2.0/2.0 MATRIX DRY	ORGANIC		
O M2	55- 30	GRADUAL	5.0YR2.0/2.0 MATRIX MOIST 5.0YR2.0/1.5 MATRIX DRY	ORGANIC	MASSIVE	
O M3	30- 10	GRADUAL	5.0YR2.5/2.0 MATRIX MOIST 10.0YR2.0/1.0 MATRIX DRY	ORGANIC	MASSIVE	
O H	10- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST 5.0YR2.0/1.0 MATRIX DRY	ORGANIC	MASSIVE	WEAK MEDIUM ANGULAR BLOCKY
C G	0- 20		5.0GY4.0/1.0 MATRIX MOIST 5.0Y5.0/1.0 MATRIX DRY	LOAM GRAVELLY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1
O F	80- 75		ABUNDANT
O M1	75- 55	FIRM HARD	ABUNDANT
O M2	55- 30	FIRM HARD	ABUNDANT
O M3	30- 10	FIRM HARD	PLENTIFUL
O H	10- 0	FRIABLE HARD	PLENTIFUL
C G	0- 20	FIRM SLIGHTLY HARD	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O F	80- 75	2	NON	5.7	2	4	5.3	58.00
O M1	75- 55	2	NON	5.7	4	4	5.2	54.98
O M2	55- 30	2	NON	5.7	4	4	5.4	59.00
O M3	30- 10	2	NON	5.8	4	4	5.6	56.14
O H	10- 0	2	NON	5.9	2	4	5.7	40.25
C G	0- 20	2	1	6.4	2	4	6.2	3.82

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.			
	CA	MG	NA	K	DETERMINED	P1 PDM,	P2 PDM,	S PDM,	MN PDM,
O F	80- 75					37.8	46.9	34.6	1.2
O M1	75- 55					6.6	11.2	114.2	0.6
O M2	55- 30					2.8	5.7	537.9	0.6
O M3	30- 10					6.8	18.8	717.7	1.2
O H	10- 0	102.90	4.17	.06	.24	14.9	6.1	7.4	748.5
C G	0- 20	15.78	.50	.08	.10	26.2	11.5	20.9	70.8

# EMBREE

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 04 56  
 LONGITUDE (W): 122 55 40  
 PRECISION (SEC): 05  
 ELEVATION (M): 1

CLASSIFICATION: MEGD HUMIC GLEYSOL (1978)  
 STATUS: MODAL SOIL

SLOPE: 1.0  
 TYPE: COMPLEX

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 90 METERS EAST OF EMBREE ROAD AND 400 METERS NORTH OF BOUNDARY BAY DYKE.  
 SOIL CLASSIFICATION PHASE IS SALINE.  
 THE O MB HORIZON HAS WIDELY SPACED VERTICAL CRACKS WHEN DRY.  
 C GS1 HAS VERTICAL CRACKS 25 TO 50 CMS APART THAT HAVE BROWNISH ORGANIC STAINING ON WALLS.  
 C GS2 HAS HARD TUBULES AROUND OLD ROOT CHANNELS.  
 THE SULPHUR VALUES IN THE C GS1 AND C GS2 >500 PPM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	CLEAR	10.0YR2.5/1.5 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
AC G	20- 37	ABRUPT	2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
O MB	37- 55	CLEAR	2.5Y2.0/1.0 MATRIX MOIST		ORGANIC	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
A HB	55- 72	CLEAR	5.0Y3.0/2.5 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C GS1	72-100	GRADUAL	5.0Y4.0/1.5 MATRIX MOIST		SILT LOAM	MASSIVE
C GS2	100-		5.0Y4.0/1.0 MATRIX MOIST	5.0GY4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	ABUNDANT	
AC G	20- 37	FIRM	ABUNDANT	FEW FINE FAINT
O MB	37- 55	FRIABLE	ABUNDANT	
A HB	55- 72	FRIABLE	PLENTIFUL	FEW MEDIUM PROMINENT 5.0Y7.0/4.0
C GS1	72-100	FRIABLE	FEW	COMMON MEDIUM DISTINCT 5.0Y7.5/5.0
C GS2	100-	FRIABLE		COMMON MEDIUM PROMINENT 7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	5.8	2	4		
AC G	20- 37	2	2	4.8	2	4	11.48	.76
O MB	37- 55	2	1	4.2	2	4	11.72	.77
A HB	55- 72	2	1	3.7	2	4	42.86	1.88
C GS1	72-100	2	1	3.4	2	4	10.96	.59
C GS2	100-	2	1	3.8	2	4	3.3	.09
							1.28	.08

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHOS/CM)	P1 DPM	P2 DPM	S DPM	CU DPM
	CA	MG	NA	K						
A P	0- 20	19.93	2.38	.55	.29	39.5	30.3	74.8	46.0	63.4
AC G	20- 37	8.79	2.28	.92	.27	40.2	32.0	81.4	78.6	61.3
O MB	37- 55	3.18	3.18	3.18	.51	109.9	15.2	16.6	466.2	39.7
A HB	55- 72	1.98	2.59	2.28	.44	57.3	4.9	32.1	354.9	78.1
C GS1	72-100						18.8	78.0		62.9
C GS2	100-					6.10	6.2	184.9		85.9
						17.40				

HORIZON-DEPTH(CM.)	ZN PPM.	
A P	0- 20	29.5
AC G	20- 37	31.5
O MB	37- 55	118.1
A HB	55- 72	43.8
C GS1	72-100	23.3
C GS2	100-	52.4

# EMBREE

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELDNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 05 13	REGO NUMIC	GLEYSOL(1978)	% TYPE:	2.0 COMPLEX
LONGITUDE(W):	122 49 44	STATUS:	MODAL SOIL	CLASS:	GENTLY UNDULATING
PRECISION (SEC):	05				
ELEVATION (M):	1				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 800 METERS WEST OF THE KING GEORGE HWY AND 150 METERS SOUTH OF THE SERPENTINE RIVER.  
 CLASSIFICATION PHASE IS SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	WEAK FINE GRANULAR	VERY FRIABLE	ABUNDANT
C G	20- 35	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM ANGULAR BLOCKY PSEUDO	FRIABLE	PLENTIFUL
O MBS	35- 57	ABRUPT	10.0YR2.5/1.5 MATRIX MOIST	ORGANIC		FRIABLE HARD	FEW
C GS	57-		2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE SLIGHTLY PLASTIC	FEW

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	FIELD PH
A P	0- 20	FEW FAINT	VERY STRONGLY ACID
C G	20- 35	FEW FAINT	EXTREMELY ACID
O MBS	35- 57		EXTREMELY ACID
C GS	57-	COMMON DISTINCT 5.0Y7.0/4.0	EXTREMELY ACID

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 20	2	1	4.8	9.26	.68	7.07	2.21	.49	.47	29.0
C G	20- 35	2	1	4.5	4.76	.38	4.43	3.35	.65	.33	23.9
O MBS	35- 57	2	2	3.7	30.41	1.98	4.10	1.95	.65	.25	95.7
C GS	57-	2	1	3.1	2.35	.15	1.94	1.51	.65	.17	20.4

HORIZON-DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	pH PPM.	
A P	0- 20	2.37	17.0
C G	20- 35	3.89	14.0
O MBS	35- 57	10.23	0.0
C GS	57-	15.65	4.2

# EMBREE

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 05 14	REGO HUMIC GLEYSOL(1978)	%	2.0
LONGITUDE (W):	122 56 15		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	MEDIUM GRANULAR	
C G	18- 45	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	WEAK COARSE PRISMATIC PSEUDO
O MB	45- 57	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	ORGANIC MUCKY		
A MBS	57- 73	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	CLAY LOAM	MODERATE ANGULAR BLOCKY	
C GS	73-		10.0YR5.0/1.0 MATRIX MOIST	CLAY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	FIELD PH
A P	0- 18	FRIABLE	ABUNDANT FINE		STRONGLY ACID
C G	18- 45	FIRM	P-EVTIFJL	COMMON PROMINENT 7.5YR5.0/6.0	VERY STRONGLY ACID
O MB	45- 57	FRIABLE			EXTREMELY ACID
A MBS	57- 73	STICKY FIRM PLASTIC			EXTREMELY ACID
C GS	73-	STICKY PLASTIC			EXTREMELY ACID



# EMBREE

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 05 43	REGO HUMIC	GLEYSOL (1978)	% TYPE:	2.0
LONGITUDE (W):	122 54 34	STATUS:	MODAL SOIL	CLASS:	COMPLEX
PRECISION (SEC):	05				GENTLY UNDULATING
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 25	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILT LOAM	FINE GRANULAR	WEAK COARSE SUBANGULAR BLOCKY
O FB	25- 75	ABRUPT		ORGANIC MUCKY		
C GS1	75- 90	ABRUPT	5.0Y3.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C GS2	90-	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 25	FRIABLE HARD	PLENTIFUL FINE	
O FB	25- 75	VERY FRIABLE VERY HARD	PLENTIFUL	
C GS1	75- 90	NON STICKY FRIABLE SLIGHTLY PLASTIC		FEW FAINT 5.0Y6.0/3.0
C GS2	90-	NON STICKY FRIABLE SLIGHTLY PLASTIC		FEW DISTINCT 10.0YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 25	2	1	4.7	16.71	1.14	10.48	7.03	.28	.61	60.1
O FB	25- 75	2	2	3.3	33.24	2.37	4.27	4.73	1.10	.41	136.6
C GS1	75- 90	2	1	3.0	8.82		4.81	9.46	2.32	.15	33.9
C GS2	90-	2	1	3.8	3.56		4.49	14.12	3.65	1.06	23.0

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHDS/CM)	P1 PPM.
A P	0- 25	50.6
O FB	25- 75	9.2
C GS1	75- 90	12.80
C GS2	90-	8.00

# ERROCK

DATE OF SURVEY: 66 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY CLASSIFICATION: SLOPE

LOCATION: LATITUDE (N): 49 13 13  
 LONGITUDE (W): 122 18 34  
 PRECISION (SEC): 05  
 ELEVATION (M): 200  
 GLEYED ORTSTEIN FERRO-MUNIC POOZOL (197 % TYPE: 3.0 COMPLEX  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

CDMM, CLASTIC 11 GRAVELLY  
 GENETIC MAT. 1 FLUVIAL  
 DESCRIPTOR 11 GLACIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 400 METERS NORTH OF STEELHEAD, MISSION TREE FARM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	15- 13	ABRUPT			ORGANIC	
HF	13- 0	ABRUPT			ORGANIC	
A E	0- 7	ABRUPT	5.0YR5.0/1.0 MATRIX MOIST 10.0YR5.5/1.0 MATRIX DRY		LOAMY SAND	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B HF	7- 17	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST 5.0YR4.0/4.0 MATRIX DRY		SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FC	17- 25	CLEAR	7.5YR5.0/8.0 MATRIX MOIST 10.0YR5.0/8.0 MATRIX DRY	5.0YR4.0/8.0 MATRIX MOIST	LOAMY SAND GRAVELLY	MASSIVE
B CGJ1	25- 35	CLEAR	10.0YR5.0/6.0 MATRIX MOIST		SAND GRAVELLY	MASSIVE
B CGJ2	35- 57	CLEAR	10.0YR5.0/6.0 MATRIX MOIST		SAND GRAVELLY	MASSIVE
C G	57-				SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
L	15- 13			PLENTIFUL		
HF	13- 0		VERY FRIABLE	ABUNDANT		
A E	0- 7		FRIABLE	ABUNDANT		
B HF	7- 17		FRIABLE	ABUNDANT		
B FC	17- 25		VERY FIRM	FEW	FEW FINE FAINT	INDURATED CONTINUOUS
B CGJ1	25- 35	SINGLE GRAIN	VERY FIRM		COMMON FINE DISTINCT 7.5YR5.0/6.0	STRONGLY CEMENTED CONTINUOUS
B CGJ2	35- 57	SINGLE GRAIN	VERY FIRM		COMMON MEDIUM DISTINCT 7.5YR5.0/6.0	STRONGLY CEMENTED CONTINUOUS
C G	57-		LOOSE		FEW MEDIUM FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L 15- 13	2	2	4.0	2	4	3.5	58.00	1.42
HF 13- 0	2	2	3.8	2	4	3.1	56.67	1.47
A E 0- 7	2	1	4.2	2	4	3.5	1.91	.08
B HF 7- 17	2	1	5.0	2	4	4.2	9.80	.35
B FC 17- 25	2	1	5.5	2	4	5.0	2.32	.07
B CGJ1 25- 35	2	1	5.9	2	4	5.5	.70	.02
B CGJ2 35- 57	2	1	5.7	2	4	5.4	.64	.02
C G 57-	2	1	5.7	2	4	5.4		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	COARSE FRAGMENTS		
	CA	MG	NA	K		P1 PPM.	P2 PPM.	S PPM.
L 15- 13	10.15	2.49	.29	1.91	132.1	66.1	113.0	
HF 13- 0	10.39	2.77	.60	1.02	147.9	36.7	66.0	
A E 0- 7		.06	.03	.04	9.8	2.0	5.0	3.8
B HF 7- 17	.76	.08	.03	.04	56.3	27.2	56.0	11.3
B FC 17- 25	.49	.01	.02	.04	22.5	9.2		44.8
B CGJ1 25- 35	.11	.01	.02	.04	8.8	12.1		41.8
B CGJ2 35- 57	.18	.01	.03	.02	7.4	14.9		20.8
C G 57-	.17		.05	.02	5.9	27.0	79.0	14.8

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS STONE %
L 15- 13	
HF 13- 0	
A E 0- 7	
B HF 7- 17	
B FC 17- 25	10
B CGJ1 25- 35	20
B CGJ2 35- 57	20
C G 57-	20

# EUNICE

DATE OF SURVEY: 69 SURVEYOR: HAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 15 43	TYPIC FULISOL(1978)	% TYPE: 10.0
LONGITUDE(W): 122 31 55	STATUS: MODAL SOIL	SIMPLE CLASS: STRONGLY SLOPING
PRECISION (SEC): 05		
ELEVATION (M): 200		
<u>PARENT MATERIAL &amp; LANDFORM</u>		
<u>UPPER STRATIGRAPHIC UNIT</u>	<u>MIDDLE STRATIGRAPHIC UNIT</u>	
GENETIC MAT.: ORGANIC	GENETIC MAT.: BEDROCK	
SURFACE EXPRES.: VENEER		
<u>BEDROCK</u>		
TYPE: INTRUSIVE ACID	DRAINAGE: RUNOFF: SLOW	RAPIDLY DRAINED

ADDITIONAL NOTES

SITE LOCATED 2400 METERS NORTH OF THE ADMINISTRATION BLDG, UBC RESEARCH FOREST. THE LF IS FIBRIC, MAINLY CONIFEROUS LITTER; THE H IS HUMIC, YELLOW FUNGAL MYCELIA PRESENT AND SOME CHARCOAL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LF	11- 8	ABRUPT		ORGANIC			
H	8- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST	ORGANIC		FRIABLE	ABUNDANT
A E	0- 4	ABRUPT	5.0YR4.5/1.5 MATRIX MOIST	SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
R	4-						

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF 11- 8	2	2	4.2	2	4	3.9	56.90	1.26
H 8- 0	2	2	3.6	2	4	3.1	55.39	1.48
A E 0- 4								
R 4-								

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED				
	CA	MG	NA	K		P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
LF 11- 8	15.07	3.56	.33	2.60	61.7	67.0	78.3	95.0	18.3	74.6
H 8- 0	11.23	2.44	.43	1.60	121.0	29.8	37.3	94.0	21.3	83.8
A E 0- 4										
R 4-										

# FADDEN

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 03 02  
 LATITUDE (N): 122 11 46  
 LONGITUDE (W): 05  
 PRECISION (SEC): 6  
 ELEVATION (M):  
 CLASSIFICATION: GLEYED GRAY BROWN LUVISOL(1978)  
 STATUS: MODAL SOIL  
 SLOPE: 1.0  
 TYPE: COMPLEX

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 90 METERS WEST OF JUNCTION OF SUMAS MT RD AND HWY 401.  
 THERE ARE SEVERAL THIN SILTY BANDS IN THE II CG.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	COLOR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY		SILT LOAM	STRONG FINE SUBANGULAR BLOCKY
A EGJ	20- 30	CLEAR	10.0YR5.0/3.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	STRONG MEDIUM SUBANGULAR BLOCKY
BA	30- 47	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM PRISMATIC
B TGJ1	47- 87	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST		SILT LOAM	STRONG COARSE TO MEDIUM PRISMATIC
A HBT	87- 95	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	STRONG COARSE PRISMATIC
B TGJ2	95-120	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST		SILTY CLAY LOAM	STRONG COARSE PRISMATIC
II C G	120-150				SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 20	STRONG MEDIUM GRANULAR	FRIABLE SLIGHTLY HARD	ABUNDANT		
A EGJ	20- 30		FRIABLE	ABUNDANT	FEW FINE DISTINCT 7.5YR5.0/8.0	
BA	30- 47	STRONG COARSE SUBANGULAR BLOCKY	STICKY FRIABLE PLASTIC	PLENTIFUL	MANY FINE PROMINENT 7.5YR5.0/6.0	COMMON
B TGJ1	47- 87		FIRM	PLENTIFUL	MANY FINE PROMINENT 7.5YR5.0/6.0	COMMON ON PED FACES- UNSPECIFIED
A HBT	87- 95		FIRM PLASTIC	PLENTIFUL		COMMON ON PED FACES- UNSPECIFIED
B TGJ2	95-120		FIRM PLASTIC	PLENTIFUL	MANY FINE PROMINENT 7.5YR5.0/6.0	COMMON ON PED FACES- UNSPECIFIED
II C G	120-150		LOOSE	FEW	MANY COARSE PROMINENT 5.0YR3.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARRON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	5.5	2	4	4.5	8.24
A EGJ	20- 30	2	1	5.9	2	4	4.8	.13
BA	30- 47	2	1	5.9	2	4	4.8	.13
B TGJ1	47- 87	2	1	6.2	2	4	5.1	.06
A HBT	87- 95	2	1	6.2	2	4	5.4	.07
B TGJ2	95-120	2	1	6.2	2	4	5.1	.21
II C G	120-150	2	1	6.4	2	4	5.1	.13

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	P1 PPM,	P2 PPM,	S PPM,	CU PPM,	ZN PPM,
	CA	MG	NA	K							
A P	0- 20	7.17	1.75	.18	.36	34.5	14.2	39.6	17.7	36.4	90.5
A EGJ	20- 30	3.99	.92	.11	.05	121.0	18.2	82.1	9.2	41.1	82.1
BA	30- 47	6.74	2.40	.14	.06	13.4	6.8	63.8	3.8	37.8	75.6
B TGJ1	47- 87	10.96	5.51	.18	.07	15.8	5.4	92.1	1.5	38.4	82.0
A HBT	87- 95	15.23	7.17	.25	.09	32.9	7.0	40.4	4.5	52.0	105.6
B TGJ2	95-120	11.09	7.00	.22	.09	26.0	9.5	41.5	4.9	44.8	99.7
II C G	120-150									15.9	43.9

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 07 12	GLEYED ELUVIATED MELANIC BRUNISOL (1978)	X TYPE: 4.0 COMPLEX
LONGITUDE (W): 122 17 46		
PRECISION (SEC): 02		
ELEVATION (M): 6		
STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED NEAR HIGHWAY OVERPASS OVER C.P.R. NORTH OF MATSQUI VILLAGE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 27	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR2.5/5.5 MATRIX DRY	SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY	
A EGJ	27- 37	GRADUAL	10.0YR5.5/2.0 MATRIX MOIST 10.0YR7.0/2.5 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B TJGJ1	37- 57	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.5 MATRIX DRY	SILT LOAM	WEAK MEDIUM PRISMATIC	MODERATE COARSE SUBANGULAR BLOCKY
B TJGJ2	57- 75	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM PRISMATIC	MODERATE COARSE SUBANGULAR BLOCKY
II BC	75-100	DIFFUSE	2.5Y4.5/2.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	
II C G	100-127	CLEAR	5.0Y5.0/2.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	
III C G	127-175		10.0YR5.0/2.0 MATRIX MOIST	FINE SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 27	FIRM HARD	ABUNDANT		
A EGJ	27- 37	FIRM HARD	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	
B TJGJ1	37- 57	FIRM HARD	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	MANY THIN ON PED FACES- UNSPECIFIED
B TJGJ2	57- 75	FIRM HARD	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR4.5/5.0	MANY THIN ON PED FACES- UNSPECIFIED
II BC	75-100	FRIABLE SLIGHTLY HARD	FE#	MANY MEDIUM PROMINENT 5.0YR3.0/3.0	FE# THIN
II C G	100-127	FRIABLE SLIGHTLY HARD	FE#	MANY COARSE PROMINENT 7.5YR4.5/5.0	
III C G	127-175	LOOSE	FE#	MANY COARSE PROMINENT 10.0YR4.0/3.0	

PHYSICAL & CHEMICAL DATA

PHYSICAL & CHEMICAL DATA											
PH 1					PH 2					ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CH.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE					
A P	0- 27	2	5.7	2	4	5.0	2.78	.24			
A EGJ	27- 37	2	5.7	2	4	4.8	.64	.07			
B TJGJ1	37- 57	2	5.7	2	4	4.9	.52	.06			
B TJGJ2	57- 75	2	5.8	2	4	5.0		.05			
II BC	75-100	2	5.8	2	4	5.0		.04			
III C G	100-127	2	6.0	2	4	5.0					
III C G	127-175	2	6.0	2	4	5.2					

  

EXCHANGEABLE CATIONS BUFF.(ME/100G)												
HORIZON-DEPTH(CH.)	CATIONS				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.	
	CA	MG	NA	K								
A P	0- 27	9.84	1.64	.12	.17	20.4	5.6	41.0	4.6	31.0	109.4	22.0
A EGJ	27- 37	7.87	1.43	.11	.11	14.5	3.2	40.9	2.8	37.3	76.6	5.6
B TJGJ1	37- 57	10.27	2.16	.11	.14	17.2	4.6	49.8	2.1	42.1	79.6	8.2
B TJGJ2	57- 75	9.83	2.41	.10	.12	16.5	3.7	40.4	1.3	38.6	74.7	11.8
II BC	75-100	4.87	1.27	.06	.05	9.2	4.4	46.7	1.8	34.0	60.3	5.3
III C G	100-127										56.0	5.1
III C G	127-175									22.9	48.6	7.1

  

PARTICLE SIZE(%)				
HORIZON-DEPTH(CH.)	TOTAL SAND	62-2 U SILT		
		2U CLAY TOTAL	.2U CLAY TOTAL	
A P	0- 27			
A EGJ	27- 37	7	70	23
B TJGJ1	37- 57	1	71	26
B TJGJ2	57- 75			
II BC	75-100			
III C G	100-127			
III C G	127-175			

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 12 18 LONGITUDE(W): 122 43 13 PRECISION (SEC): 05 ELEVATION (M): 4	GLEVED ELUVIATED MELANIC BRUNISOL(1978)  STATUS: MODAL SOIL	% TYPE: 2.0 CLASS: COMPLEX GENTLY UNDULATING

PARENT MATERIAL & LANDFORM  
UPPER STRATIGRAPHIC UNIT  
 SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 PERVIOUSNESS: MODERATE

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PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	10.0YR3.5/3.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	WEAK TO MODERATE FINE SUBANGULAR BLOCKY	
A EU	18- 27	CLEAR	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
B TJGJ1	27- 45	CLEAR	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B TJGJ2	45- 75	CLEAR	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II B G	75-100	CLEAR	2.5Y4.5/2.0 MATRIX MOIST	LOAMY FINE SAND	WEAK COARSE SUBANGULAR BLOCKY	SINGLE GRAIN
C G	100-		2.5Y5.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON DEPTH(CM)	THICKNESS	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 18	FRIABLE	ABUNDANT		
A EJ	18- 27	FIRM	PLENTIFUL	FEW FINE FAINT	
B TJGJ1	27- 45	FIRM	PLENTIFUL	COMMON MEDIUM FAINT 10.0YR3.0/4.0	COMMON THIN
B TJGJ2	45- 75	FIRM	FEW	MANY COARSE DISTINCT 5.0YR3.0/3.5	FEW THIN
II B G	75-100	FRIABLE		MANY COARSE DISTINCT 7.5YR3.0/2.0	
C G	100-	FIRM		MANY FINE DISTINCT 7.5YR3.0/2.0	

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PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE	STATE					CA	MG	NA	K	
A P	0- 18	2	1	5.2	3.19	.25	3.38	2.65	.09	.05	23.5
A EJ	18- 27	2	1	5.7	1.28	.12	1.80	.36	.06	.00	13.8
B TJGJ1	27- 45	2	1	5.7	.52	.05	2.12	.67	.09	.00	10.7
B TJGJ2	45- 75	2	1	5.7			4.39	1.35	.08	.00	11.4
II B G	75-100	2	1	5.9							
C G	100-	2	1	5.7							

  

HORIZON-DEPTH(CM.)	P1 PPM.		P2 PPM.	
	P1	P2	P1	P2
A P	0- 18	16.0	29.0	
A EJ	18- 27	13.5	27.0	
B TJGJ1	27- 45	16.5	29.0	
B TJGJ2	45- 75	9.5	23.0	
II B G	75-100			
C G	100-			

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 μ)				
	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace
Aej (18-27)	montmorillonite, vermiculite		mica, interstratified vermiculite-mica, chlorite, quartz, plagioclase feldspars, amphiboles, kaolinite			montmorillonite		chlorite		vermiculite, mica, kaolinite, quartz, interstratified vermiculite-chlorite

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELUANA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 08 00	GLEYED ELUVIATED MELANIC BRUNISOL(1978)	% TYPE: 3.0
LONGITUDE(W): 122 16 02		CLASS: COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 6		STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 23	ABRUPT	10.0YR4.0/1.5 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
A EJ	23- 35	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILTY CLAY LOAM	WEAK PLATY	WEAK MEDIUM SUBANGULAR BLOCKY
B MGJ	35- 55	DIFFUSE	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.5/3.0 MATRIX DRY		MODERATE MEDIUM SUBANGULAR BLOCKY	
BC 1	55- 80	GRADUAL	10.0YR4.5/2.0 MATRIX MOIST 10.0YR6.5/3.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	
BC 2	80- 98	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	VERY FINE SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II C GJ	98-			FINE SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 23	FRIABLE	PLENTIFUL	
A EJ	23- 35	FIRM	FEW	FEW FINE FAINT
B MGJ	35- 55	FIRM	FEW	COMMON MEDIUM 10.0YR5.0/6.0
BC 1	55- 80	FIRM		COMMON MEDIUM 10.0YR5.0/4.0
BC 2	80- 98	FRIABLE		COMMON FINE 10.0YR5.0/6.0
II C GJ	98-	LOOSE		FEW FINE FAINT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0- 23	2	1	5.4	4.06	.33	10.30	1.60	.10	.30	30.2
A EJ 23- 35	2	1	5.5	1.10	.12	8.40	1.40	.20	.10	23.0
B MGJ 35- 55	2	1	5.8	.52	.06	10.20	2.20	.20	.10	20.5
BC 1 55- 80	2	1	5.6	.70	.07	9.80	2.20	.20	.10	19.7
BC 2 80- 98	2	1	5.8			6.90	1.80	.10	.80	15.2
II C GJ 98-	2	1	6.2			1.80	.80	.10	.00	5.1

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P 0- 23	48.0	122.0
A EJ 23- 35	16.1	63.0
B MGJ 35- 55	11.2	45.0
BC 1 55- 80	8.4	28.0
BC 2 80- 98	9.0	30.0
II C GJ 98-	40.6	70.0



# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELUANA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>	
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LATITUDE(N): 49 10 47	GLEIYED ELUVIATED MELANIC BRUNISOL(1978)	% TYPE: 3.0	
LONGITUDE(W): 122 04 17		CLASS: COMPLEX	
PRECISION (SEC): 05	STATUS: MODAL SOIL		UNDULATING
ELEVATION (M): 7			

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**PARENT MATERIAL & LANDFORM**  
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<b>UPPER STRATIGRAPHIC UNIT</b>	<b>MIDDLE STRATIGRAPHIC UNIT</b>
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SPEC. CLASTIC I: SILTY GENETIC MAT.: FLUVIAL SURFACE EXPRES.: VENEER	SPEC. CLASTIC I: SANDY GENETIC MAT.: FLUVIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

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**ADDITIONAL NOTES**  
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THE A EJGJ IS SLIGHTLY VESICULAR.

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**PROFILE DESCRIPTION**  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
A EJGJ	15- 30	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B MGJ	30- 55	CLEAR	10.0YR4.0/3.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	
BC	55- 73	ABRUPT	10.0YR4.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	WEAK MEDIUM SUBANGULAR BLOCKY
II C G	73-		10.0YR5.5/2.0 MATRIX MOIST	SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 15	FRIABLE	ABUNDANT	
A EJGJ	15- 30	FRIABLE	PLENTIFUL	COMMON FINE FAINT 7.5YR4.0/4.0
B MGJ	30- 55	FRIABLE	PLENTIFUL	MANY MEDIUM FAINT 7.5YR4.0/4.0
BC	55- 73	FRIABLE	PLENTIFUL	MANY FINE DISTINCT 5.0YR4.0/4.0
II C G	73-	LOOSE	FEW	FEW FINE

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**PHYSICAL & CHEMICAL DATA**  
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HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 15	2	1	5.3	2	4	5.1	2.20	.20
A EJGJ 15- 30	2	1	5.5	2	4	5.3	.93	.10
B MGJ 30- 55	2	1	6.0	2	4	5.5	.58	.06
BC 55- 73	1	1	6.1	2	4	5.5	.23	.04
II C G 73-	2	1	6.3	2	4	5.3		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.
	CA	MG	NA	K				
A P 0- 15	4.34	1.44	.11	.15	17.8	1.2	125.0	1.5
A EJGJ 15- 30	4.30	1.42	.11	.16	15.5	.8	144.0	3.0
B MGJ 30- 55	4.08	1.43	.10	.15	13.2	.5	125.0	1.5
BC 55- 73	3.18	1.08	.08	.11	10.5	1.2	129.0	1.5
II C G 73-	1.74	.63	.07	.07	6.0	2.1	88.0	2.0

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>	
LATITUDE(N): 49 11 28	GLEEYED ELUVIATED MELANIC BRUNISOL(1978	%	1.0
LONGITUDE(W): 121 49 05	STATUS: MODAL SOIL	TYPE:	COMPLEX
ELEVATION (M): 13		CLASS:	GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: VERY SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B HGJ1	17- 35	GRADUAL	10.0YR4.5/2.0 MATRIX MOIST	SILTY CLAY LOAM	WEAK TO MODERATE SUBANGULAR BLOCKY	
B HGJ2	35- 65	CLEAR	10.0YR5.0/3.0 MATRIX MOIST	VERY FINE SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II CB	65-		10.0YR5.0/3.0 MATRIX MOIST	LOAMY SAND	STRATIFIED	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE	FEW	
B HGJ1	17- 35	FRIABLE	PLENTIFUL	COMMON DISTINCT 10.0YR5.0/8.0
B HGJ2	35- 65	FRIABLE	FEW	MANY DISTINCT 10.0YR5.0/8.0
II CB	65-	VERY FRIABLE		MANY DISTINCT 10.0YR5.0/8.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	1	5.5	3.38	.33	7.19	3.86	.18	.28	26.4
B HGJ1	17- 35	2	5.5	.38	.08	6.85	3.77	.18	.35	18.7
B HGJ2	35- 65	2	5.8	.38	.05	4.12	3.29	.18	.20	12.1
II CB	65-	1	6.0	.35	.04	1.91	2.30	.21	.20	6.5

HORIZON-DEPTH(CM.)	D1	DDM.
A P	0- 17	2.0
B HGJ1	17- 35	5.0
B HGJ2	35- 65	7.0
II CB	65-	7.0

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>	
LATITUDE(N): 49 13 57	GLEVED ELUVIATED MELANIC BRUNISOL(1978)	% TYPE: 2.0	COMPLEX
LONGITUDE(W): 121 49 15	STATUS: MODAL SOIL	CLASS: GENTLY UNDULATING	
PRECISION (SEC): 05			
ELEVATION (M): 12			

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 PERVIOUSNESS: MODERATE

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	MODERATE FINE SUBANGULAR BLOCKY
B MGJ	22- 37	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
BC	37- 52	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
A HB	52- 57	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C GJ1	57- 77	GRADUAL	10.0YR4.5/4.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO	
C GJ2	77-		10.0YR4.0/4.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 22	FRIABLE	ABUNDANT		
B MGJ	22- 37	FRIABLE	ABUNDANT	COMMON FINE FAINT 5.0YR4.0/6.0	7.5YR4.0/4.0
BC	37- 52	FIRM	PLENTIFUL	COMMON MEDIUM DISTINCT 5.0YR4.0/4.0	
A HB	52- 57	FRIABLE	PLENTIFUL		
C GJ1	57- 77	FIRM	FEW	COMMON MEDIUM DISTINCT 5.0YR3.5/4.0	
C GJ2	77-	FIRM	FEW	MANY MEDIUM PROMINENT 5.0YR3.0/4.0	5.0YR4.0/8.0

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 22	2	1	6.1	2.26	.19	12.13	2.04	.10	.13	21.6
B MGJ	22- 37	2	1	6.3	.87	.08	9.36	1.48	.09	.10	16.2
BC	37- 52	2	1	6.3	.59	.06	10.59	1.47	.11	.18	17.1
A HB	52- 57	2	1	6.2	2.26	.15	13.61	1.22	.13	.14	24.7
C GJ1	57- 77	2	1	6.4	.70	.07	8.35	1.08	.10	.09	17.5
C GJ2	77-	2	1	6.3			9.26	1.40	.09	.13	15.1

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 22	6.5
B MGJ	22- 37	10.5
BC	37- 52	2.5
A HB	52- 57	4.5
C GJ1	57- 77	33.0
C GJ2	77-	5.5

# FAIRFIELD

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

<u>LOCATION</u>	<u>CLASSIFICATION</u>	
LATITUDE (N): 49 07 55		
LONGITUDE (W): 122 14 51	GLEEDED ELUVIATED MELANIC BRUNISOL (1978)	
PRECISION (SEC): 05		
ELEVATION (M): 6	STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
GENETIC MAT. I: FLUVIAL  
SURFACE EXPRES. I: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
GENETIC MAT. I: FLUVIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1		METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
	SAMPLE STATE					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0-20	2		4	5.1	1.15	40.3	13.7	30.9	36.6	52.8
B mgj 20-51	2		4	5.3	1.26	38.9	11.0	30.2	29.8	41.4
BC 51-102	2		4	5.3	1.33	36.4	9.0	31.3	27.9	33.4
IICg 102-127	2		4	5.3	1.41	7.0	2.9	29.5		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-20	2.55	2.67	93.5	35.0	36.8	24.5					100.0	98.0	95.0	28.2
Bmgj	20-51	2.63	2.76	101.2	31.0	32.8	19.2					100.0	97.3	95.3	22.3
BC	51-102	2.65	2.75	106.4	32.3	33.7	17.0					100.0	96.8	90.9	15.9
IICg	102-127	2.66	2.71	102.6	29.5	30.2	11.3					100.0	17.4	7.0	1.0

# FELLOWS

DATE OF SURVEY: 70 SURVEYOR: MAL KELDNA, B.C.M.A., & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 20 53	ORTHO FERRO-MUNIC PODZOL(1978)	% TYPE: 5.0
LONGITUDE(W): 122 46 26		CLASS: VERY GENTLY SLOPING
PRECISION (SEC): 10	STATUS: MODAL SOIL	ASPECT (DEG): 90
ELEVATION (M): 200		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: LACUSTRINE  
 SURFACE EXPRES. 1: BLANKET  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	15- 13		ABRUPT			ORGANIC	
M	13- 0		ABRUPT	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	
A HE	0- 4	1- 5	ABRUPT	5.0YR5.0/2.0 MATRIX MOIST		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF	4- 14		CLEAR	5.0YR3.0/4.0 MATRIX MOIST	5.0YR2.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F1	14- 32		DIFFUSE	10.0YR3.0/4.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F2	32- 50		DIFFUSE	10.0YR3.5/4.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
BC GJ1	50- 80		DIFFUSE	5.0Y4.0/2.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
BC GJ2	80-100		GRADUAL	5.0Y4.0/1.5 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
II C 1	100-128		GRADUAL	5.0Y4.5/1.0 MATRIX MOIST		LOAMY FINE SAND	MASSIVE
II C 2	128-180			5.0Y4.5/1.0 MATRIX MOIST		FINE SAND	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LF	15- 13			FEW		
M	13- 0		FRIABLE	ABUNDANT		
A HE	0- 4		FRIABLE	PLENTIFUL		
B HF	4- 14		FRIABLE	PLENTIFUL		
B F1	14- 32		FRIABLE	PLENTIFUL		
B F2	32- 50		FIRM	PLENTIFUL		
BC GJ1	50- 80	BEDDED(> 1 CM THICK)	FIRM	FEW	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0	WEAKLY CEMENTED DISCONTINUOUS
BC GJ2	80-100	BEDDED(> 1 CM THICK)	FIRM	FEW	COMMON MEDIUM PROMINENT 10.0YR4.0/4.0	WEAKLY CEMENTED DISCONTINUOUS
II C 1	100-128	BEDDED(> 1 CM THICK)	FIRM	FEW FINE FAINT		
II C 2	128-180	SINGLE GRAIN	LOOSE			

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LF	15-13	2	3.9	2	4	3.2	56.00	1.33	
H	13-0	2	3.6	2	4	2.9	56.00	1.72	
A ME	0-4	1	3.7	4	4	3.9	6.44	.26	
B HF	4-14	1	4.8	4	4	4.5	14.27	.55	
B F1	14-32	1	5.3	4	4	5.0	3.77	.16	
B F2	32-50	1	5.4	4	4	5.2	2.26	.10	
BC GJ1	50-80	1	5.8	4	4	5.2	.35	.02	
BC GJ2	80-100	1	6.0	4	4	5.4		.02	
II C 1	100-128	1	5.7	4	4	5.3			
II C 2	128-180	2	5.6	2	4	5.4			

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	15-13	11.86	2.82	.13	.82	104.3			
H	13-0	4.83	1.49	.26	.90	114.6			
A ME	0-4	.41	.12	.06	.08	21.2	1	0.3	3
B HF	4-14	.22	.02	.05	.10	59.8	1	1.8	3
B F1	14-32	.21	.00	.03	.02	23.2	1	0.7	3
B F2	32-50	.21	.00	.05	.01	14.6	1	0.4	3
BC GJ1	50-80	.30	.01	.05	.02	5.2	1	0.4	3
BC GJ2	80-100	.30	.01	.05	.03	6.6	1	0.4	3
II C 1	100-128						1	0.4	3
II C 2	128-180						1	0.1	3

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(X)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	METHOD	RESULT	METHOD	RESULT					
LF	15-13				24.5	30.1	102.9	25.2	61.1
H	13-0				15.1	26.2	31.5	16.3	53.4
A ME	0-4	1	0.3	3	0.2	2.2	3.4	6.4	5.9
B HF	4-14	1	2.8	3	2.5	17.4	42.2	19.4	19.7
B F1	14-32	1	2.1	3	1.5	31.2	91.5	26.7	13.2
B F2	32-50	1	1.5	3	1.0	48.0	147.0	15.7	11.9
BC GJ1	50-80	1	0.8	3	0.3	35.4	81.4	13.9	21.5
BC GJ2	80-100	1	1.0	3	0.3	44.2	120.9	21.6	22.9
II C 1	100-128	1	0.6	3	0.2				17.1
II C 2	128-180	1	0.4	3	0.1				17.6

# GIBSON

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 06 03	TERRIC MESISOL (1978)	% 00.0
LONGITUDE (W): 122 14 40	STATUS: MODAL SOIL	TYPE: COMPLEX
PRECISION (SEC): 05		CLASS: NEARLY LEVEL
ELEVATION (M): 7		ASPECT (DEG): 000

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER  
 DESCRIPTOR 1: FEN

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	90- 82	CLEAR	10.0YR2.5/2.0 MATRIX MOIST	ORGANIC MUCKY		VERY FRIABLE	ABUNDANT
O M1	82- 75	CLEAR	10.0YR3.0/2.5 MATRIX MOIST	ORGANIC		FRIABLE	PLENTIFUL
O M2	75- 50	GRADUAL	10.0YR3.0/2.5 MATRIX MOIST	ORGANIC		FRIABLE	PLENTIFUL
O M3	50- 25	DIFFUSE	10.0YR2.0/1.5 MATRIX MOIST	ORGANIC		FRIABLE	FEW
O M	25- 00	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	ORGANIC MUCKY		FRIABLE	
C G	-		2.5Y5.0/0.0 MATRIX MOIST	SILTY CLAY	MASSIVE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
O HP	90- 82	2	5.5	27.49	1.44	30.80	2.20	.30	.30	82.3
O M1	82- 75	2	5.1	40.19	2.86	30.80	2.00	.20	.30	139.1
O M2	75- 50	2	4.7	33.70	2.57	15.10	2.50	.30	.30	132.1
O M3	50- 25	2	4.7	44.02	2.40	17.00	2.50	.20	.20	113.8
O M	25- 00	2	5.0	41.06	2.28	19.60	1.40	.20	.40	108.7
C G	-									

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
O HP	90- 82	25.2
O M1	82- 75	6.6
O M2	75- 50	5.6
O M3	50- 25	11.9
O M	25- 00	19.0
C G	-	

# GIBSON

UNIT TYPE: SERIES

DATE OF SURVEY: 51 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): 49 08 47 LONGITUDE (W): 121 53 37 PRECISION (SEC): 05 ELEVATION (M): 10	CLASSIFICATION ----- TERRIC MESISOL (1978) STATUS: MODAL SOIL	SLOPE ----- TYPE: SIMPLE CLASS: DEPRESSIONAL TO LEVEL
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT ----- GENETIC MAT.: ORGANIC SURFACE EXPRES.: VENEER DESCRIPTOR 1: FEN	MIDDLE STRATIGRAPHIC UNIT ----- SPEC. CLASTIC 1: SILTY GENETIC MAT.: FLUVIAL
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DRAINAGE: POORLY DRAINATED  
 RUNOFF: SLOW

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 PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	55- 33	CLEAR	10.0YR2.0/1.0 MATRIX MOIST	ORGANIC MUCKY		VERY FRIABLE	ABUNDANT
O M	33- 0		5.0YR3.0/3.0 MATRIX MOIST	ORGANIC		FRIABLE	FEW
C G	0-		2.5Y5.0/0.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE		

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 THICKNESS MOTTLES 1  
 HORIZON DEPTH (CM)

O HP	55- 33	
O M	33- 0	
C G	0-	FEW DISTINCT 5.0YR5.0/6.0

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 PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
O HP	55- 33	2	4.3	48.08	2.39	30.03	4.35	.23	.23	124.1
O M	33- 0	2	4.3	41.47	1.96	16.26	3.23	.28	.07	114.2
C G	0-	1	4.8	.59	.04	7.86	2.95	.10	.11	22.6

\*\*\*\*\*  
 HORIZON-DEPTH (CM.)  
 P1  
 DPM.

O HP	55- 33	8.0
O M	33- 0	8.0
C G	0-	3.0



# GIBSON

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELDOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 08 04	TERRIC MESISOL(1978)	TYPE: SIMPLE
LONGITUDE(W): 121 52 15	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 11		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER  
 DESCRIPTOR 1: FEN

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	105- 80	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST	ORGANIC MUCKY	WEAK MEDIUM GRANULAR	VERY FRIABLE	ABUNDANT
O M1	80- 55	GRADUAL	2.5YR2.0/2.0 MATRIX MOIST	ORGANIC		FRIABLE	
O M2	55- 0		2.5YR2.0/4.0 MATRIX MOIST	ORGANIC			
C G	0-		2.5Y5.0/0.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
O HP	105- 80	2	2	4.8	47.15	2.58	53.99	5.64	.18	.31	122.2
O M1	80- 55	2	2	4.7	53.12	2.48	47.68	5.32	.27	.09	131.8
O M2	55- 0	2	2	4.8	57.30	2.80	53.68	4.06	.42	.09	137.5
C G	0-	2	1	4.8	.57	.04	7.86	2.95	.10	.11	22.6

HORIZON-DEPTH(CM.)	D1 PPM.
O HP 105- 80	20.0
O M1 80- 55	14.0
O M2 55- 0	8.0
C G 0-	3.0

# GIBSON

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELDUNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 15 47	TERRIC MESISOL (1978)	TYPE: SIMPLE
LONGITUDE (W): 121 50 15	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELFVIATION (M): 12		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
GENETIC MAT.: ORGANIC	SPEC. CLASTIC: SILTY
SURFACE EXPRES.: VENEER	GENETIC MAT.: FLUVIAL
DESCRIPTOR 1: FEN	

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O H	142-132	CLEAR	2.5Y2.0/0.0 MATRIX MOIST		ORGANIC	WEAK FINE GRANULAR
O M1	132-122	GRADUAL	5.0YR3.0/2.5 MATRIX MOIST		ORGANIC	STRATIFIED
O M2	122- 97	DIFFUSE	5.0YR3.0/3.0 MATRIX MOIST		ORGANIC	STRATIFIED
O M3	97- 80	CLEAR	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	STRATIFIED
O F	80- 52	GRADUAL	5.0YR5.0/4.0 MATRIX MOIST	5.0YR4.0/6.0 MATRIX MOIST	ORGANIC	MASSIVE
O M4	52- 20	CLEAR	7.5YR3.0/2.0 MATRIX MOIST	10.0YR3.0/3.0 MATRIX MOIST	ORGANIC	MASSIVE
O M2	20- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	2.5Y2.0/0.0 MATRIX MOIST	ORGANIC MUCKY	MASSIVE
C G	0-		5.0GY4.5/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
O H	142-132	FIRM	ABUNDANT	
O M1	132-122	FIRM HARD	ABUNDANT	
O M2	122- 97	VERY FIRM	FEW	
O M3	97- 80		FEW	
O F	80- 52		VERY FEW	
O M4	52- 20			
O M2	20- 0			
C G	0-	PLASTIC		FEW FINE FAINT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
O H	142-132	2	3.9	58.00	2.23	28.83	5.17	.15	.24	146.1
O M1	132-122	2	3.7	58.00	1.85	27.24	3.47	.15	.13	137.0
O M2	122- 97	2	3.5	58.00	1.71	28.40	3.86	.16	.09	144.6
O M3	97- 80	2	5.4	33.12	.84	22.38	2.84	.16	.12	55.1
O F	80- 52	2	3.7	57.07	2.39	15.72	1.11	.17	.04	96.7
O M4	52- 20	2	3.1	49.59	1.56	20.49	4.59	.10	.03	82.9
O M2	20- 0	2	3.6	20.53	.84	24.83	6.40	.10	.09	77.7
C G	0-	2	4.7	1.39	.09	14.19	2.83	.11	.19	27.4

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
O H	142-132	19.0
O M1	132-122	3.5
O M2	122- 97	5.5
O M3	97- 80	2.0
O F	80- 52	3.0
O M4	52- 20	1.5
O M2	20- 0	11.0
C G	0-	3.5

# GLEN VALLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELDWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): 49 11 56 LONGITUDE (W): 122 42 07 PRECISION (SEC): 05 ELEVATION (M): 3	CLASSIFICATION ----- TYPIC FIBRISOL (1978) STATUS: MODAL SOIL	SLOPE ----- TYPE: SIMPLE CLASS: DEPRESSIONAL TO LEVEL
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR 1: FEN

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLO  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES  
 -----

SITE LOCATION: NEAR CENTER OF BARNSTON ISLAND.  
 O F3 CONTAINS OCCASIONAL SICL BANDS UP TO 3CM THICK, COLOR 5Y5.0/1.0.

PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	0- 13	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	ORGANIC	WEAK FINE GRANULAR	FRIABLE	ABUNDANT
O M1	13- 27	CLEAR	5.0YR3.0/3.0 MATRIX MOIST	ORGANIC	STRATIFIED	FRIABLE HARD	PLENTIFUL
O M2	27- 40	CLEAR	5.0YR2.0/2.0 MATRIX MOIST	ORGANIC	STRATIFIED	FIRM HARD	PLENTIFUL
O F1	40- 65	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST	ORGANIC	MASSIVE	VERY FIRM HARD	FEW
O F2	65- 95	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST	ORGANIC	MASSIVE	VERY FIRM	
O F3	95-			ORGANIC	STRATIFIED		

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
O HP	0- 13	2	2	4.0	22.45	1.33	2.20		.19	.08	56.2
O M1	13- 27	2	2	4.1	49.94	2.53	1.84	.23	.20	.06	90.4
O M2	27- 40	2	2	4.6	47.91	2.43	6.45	.31	.15	.06	92.6
O F1	40- 65	2	2	4.8	50.46	2.04	7.81	2.58	.31	.06	91.0
O F2	65- 95	2	2	5.0	23.43	.84	7.33	2.62	.27	.05	60.2
O F3	95-	2	2	4.8	30.33	.97	7.46	2.52	.33		73.6

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
O HP	0- 13	7.5
O M1	13- 27	5.0
O M2	27- 40	3.5
O F1	40- 65	3.0
O F2	65- 95	5.0
O F3	95-	10.0

# GLEN VALLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 06 08	TYPIC FIBRISOL(1978)	% TYPE: 00.0
LONGITUDE (W): 122 14 30	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 02		DEPRESSIONAL TO LEVEL
ELEVATION (M): 7		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 DESCRIPTOR 1: FEN

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED SOUTH OF EAST END OF HARRIS RD., MATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O MP	167-155	CLEAR	2.5YR2.0/3.0 MATRIX MOIST	2.5YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY
O F1	155-140	CLEAR	5.0YR3.0/3.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O F2	140-117	CLEAR	2.5YR2.0/2.0 MATRIX MOIST	5.0YR2.0/2.5 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O F3	117- 95	CLEAR	5.0YR2.5/3.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O F4	95- 42	DIFFUSE	5.0YR3.0/4.0 MATRIX MOIST	5.0YR3.0/3.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O F5	42- 0	CLEAR	5.0YR3.0/4.0 MATRIX MOIST	7.5YR3.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
A H	0- 22	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST		SILTY CLAY	MASSIVE
C G	22-		5.0GY5.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
O MP	167-155		FRIABLE	ABUNDANT
O F1	155-140	STATIFIED		PLENTIFUL
O F2	140-117			FEW
O F3	117- 95			
O F4	95- 42	STATIFIED		
O F5	42- 0	STATIFIED		
A H	0- 22			
C G	22-			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O MP	167-155	2	3.9	2	4	3.6	57.54	2.91
O F1	155-140	2	4.6	2	4	4.1	58.00	1.55
O F2	140-117	2	4.7	2	4	4.0	58.00	2.30
O F3	117- 95	2	4.7	2	4	4.1	58.00	2.57
O F4	95- 42	2	4.9	2	4	4.3	58.00	2.07
O F5	42- 0	2	5.2	2	4	4.5	50.00	1.72
A H	0- 22	1	5.4	2	4	4.7	12.76	
C G	22-	1	5.5	2	4	4.8	3.60	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C.						
	CA	MG	NA	K	DETERMINED	P1 PPM,	P2 PPM,	S PPM,	CU PPM,	ZN PPM,	
O MP	167-155	30.35	4.89	.14	.55	12.9	18.8	21.3	92.0	10.0	36.8
O F1	155-140	58.55	9.16	.16	.15	150.7	4.0	9.4	128.0	5.7	11.8
O F2	140-117	46.12	8.59	.13	.09	135.2	6.4	7.1	122.0	5.3	8.2
O F3	117- 95	40.51	7.99	.15	.06	119.5	3.5	4.4	152.0	9.2	33.4
O F4	95- 42	46.56	10.28	.12	.04	135.5	3.3	3.3	207.0	7.9	16.9
O F5	42- 0									26.7	53.9
A H	0- 22									62.2	89.1
C G	22-									41.0	81.8

# GLEN VALLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 02 02	TYPIC FIBRISOL (1978)	TYPE: SIMPLE
LONGITUDE (W): 122 35 22	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 80		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR 1: FEN

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION IS 800 METERS EAST AND 200 METERS NORTH OF THE NORTH BLUFF-BIGGAR RDS. INTERSECTIONS.  
 THE O F3 HORIZON CONTAINS COMMON DEAD ROOTS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O HP	0- 12	ABRUPT	5.0YR2.0/1.5 MATRIX MOIST 5.0YR2.0/1.5 MATRIX DRY		ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY
O M1	12- 27	CLEAR	2.5YR2.0/2.0 MATRIX MOIST		ORGANIC	MODERATE COARSE SUBANGULAR BLOCKY
O M2	27- 42	CLEAR	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	MODERATE COARSE SUBANGULAR BLOCKY
O F1	42- 52	GRADUAL	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	WEAK STRATIFIED
O F2	52- 82	DIFFUSE	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	WEAK STRATIFIED
O F3	82-115	DIFFUSE	5.0YR2.5/2.5 MATRIX MOIST	5.0YR3.0/3.0 MATRIX MOIST	ORGANIC	MASSIVE
O F4	115-160	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST		ORGANIC	MASSIVE
O F5	160-		5.0YR4.0/4.0 MATRIX MOIST		ORGANIC	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1
O HP	0- 12	VERY FRIABLE	ABUNDANT
O M1	12- 27	FRIABLE HARD	ABUNDANT
O M2	27- 42	FRIABLE HARD	ABUNDANT
O F1	42- 52		FEW
O F2	52- 82		FEW
O F3	82-115		
O F4	115-160		
O F5	160-		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	pH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE						CA	MG	NA	K	
O HP	0- 12	2	N	3.8	55.39	2.98	10.35	3.02	.10	.26	109.7
O M1	12- 27	N	N	3.9	64.03	2.42	5.94	1.95	.12	.23	105.5
O M2	27- 42	N	N	4.1	85.55	1.76	11.32	2.70	.20	.16	107.7
O F1	42- 52	N	N	4.3	83.23	1.36	22.16	4.70	.20	.20	117.3
O F2	52- 82	N	N	4.5	62.18	1.19	24.83	5.11	.20	.09	123.1
O F3	82-115	N	N	4.7	66.38	1.11	27.48	7.76	.20	.09	136.4
O F4	115-160	N	N	5.0	62.18	2.28	19.28	5.80	.21	.09	110.0
O F5	160-	N	N	5.1	57.25	2.27	15.69	4.96	.21	.11	98.3

HORIZON=DEPTH (CM.)	P1 PPM.	P2 PPM.	
O HP	0- 12	30.5	45.0
O M1	12- 27	5.5	7.0
O M2	27- 42	4.0	6.0
O F1	42- 52	4.5	6.0
O F2	52- 82	3.0	3.0
O F3	82-115	1.5	2.0
O F4	115-160	1.0	2.0
O F5	160-	1.0	2.0

# GLEN VALLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION		CLASSIFICATION
LATITUDE(N):	49 06 08	TYPIC FIBRISOL(1978)
LONGITUDE(W):	122 14 05	
ELEVATION (M):	7	
		STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
SURFACE EXPRES.: BLANKET  
DESCRIPTOR 1: FEV

PHYSICAL & CHEMICAL DATA

MORIZON-DEPTH(CM.)	BULK DENSITY
D M 170-157	
O F1 157-142	.13
O F2 142-119	.11
O F3 119- 68	.10
O F4 68- 43	.10
O F5 43- 0	.18
C G 0- 33	

# GOLDEN EARS

DATE OF SURVEY: 69 SURVEYOR: MAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 19 37	DURIC FERRO-HUMIC PD20L(1978)	% TYPE: 20.0
LONGITUDE (W): 122 43 41	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC): 05		STEEPLY SLOPING
ELEVATION (M): 850		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

**ADDITIONAL NOTES**

SITE LOCATED ON BURKE MOUNTAIN, COQUITLAM.  
 H HORIZON IS WATTED, MYCELIAL; H 2 IS AMORPHOUS.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	20- 19	ABRUPT			ORGANIC	
H 1	19- 8	CLEAR	5.0YR2.0/1.0 MATRIX MOIST	2.5YR2.0/2.0 MATRIX MOIST	ORGANIC	
H 2	8- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST	2.5YR2.0/2.0 MATRIX MOIST	ORGANIC	
A E	0- 8	ABRUPT	5.0YR4.5/1.0 MATRIX MOIST		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B MF	8- 17	CLEAR	10.0YR2.0/1.0 MATRIX MOIST	10.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F1	17- 30	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST	7.5YR5.0/8.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F2	30- 50	GRADUAL	7.5YR5.0/8.0 MATRIX MOIST	7.5YR5.0/8.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ	50- 62	GRADUAL	10.0YR5.0/6.0 MATRIX MOIST	5.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B CGJ1	62- 80	DIFFUSE	2.5Y5.0/0.0 MATRIX MOIST		SANDY LOAM	MASSIVE
B CGJ2	80-112		10.0YR5.0/4.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
LF	20- 19			FEW		
H 1	19- 8		FRIABLE	ABUNDANT		
H 2	8- 0		FRIABLE	ABUNDANT		
A E	0- 8		FRIABLE	ABUNDANT		
B MF	8- 17		FIRM	PLENTIFUL		
B F1	17- 30		FRIABLE	FEW		
B F2	30- 50		FIRM	FEW		
B FGJ	50- 62		VERY FIRM		FEW FINE FAINT	
B CGJ1	62- 80	STRONG MEDIUM SUBANGULAR BLOCKY	VERY FIRM		COMMON FINE FAINT	
B CGJ2	80-112	STRONG MEDIUM SUBANGULAR BLOCKY	VERY FIRM		COMMON FINE DISTINCT 7.5YR5.0/4.0	5.0YR2.0/2.0

HORIZON	THICKNESS DEPTH(CM)	CEMENTATION AGENT/DESCRIP.
LF	20- 19	
H 1	19- 8	
H 2	8- 0	
A E	0- 8	
B MF	8- 17	
B F1	17- 30	
B F2	30- 50	
B FGJ	50- 62	
B CGJ1	62- 80	STRONGLY CEMENTED CONTINUOUS
B CGJ2	80-112	STRONGLY CEMENTED CONTINUOUS

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LF	20-19	2	3.9	2	4	3.1	58.00	1.38	
H 1	19-8	2	3.5	2	4	2.9	58.00	1.23	
H 2	8-0	2	3.6	2	4	2.8	58.00	1.17	
A E	0-8	1	4.0	2	4	3.2	2.84	.06	
B HF	8-17	1	4.6	2	4	3.8	7.77	.19	
B F1	17-30	1	5.1	2	4	4.4	2.96	.08	
B F2	30-50	1	5.3	2	4	4.8	1.58	.05	
B FGJ	50-62	1	5.4	2	4	4.6	1.74	.06	
B CGJ1	62-80	1	5.4	2	4	4.7		.06	
B CGJ2	80-112	1	5.4	2	4	4.7		.06	

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	20-19	12.13	4.67	.15	.77	120.6			
H 1	19-8	11.54	6.76	.20	.59	157.0			
H 2	8-0	3.01	.76	.22	.54	150.2			
A E	0-8	.51	.19	.03	.05	11.5			
B HF	8-17	.45	.24	.03	.11	38.5	1	2.2	3
B F1	17-30	.26	.08	.03	.07	28.3	1	1.9	3
B F2	30-50	.15	.04	.03	.08	16.6	1	1.1	3
B FGJ	50-62	.16	.03	.03	.09	14.2			
B CGJ1	62-80	.13	.03	.06	.09	12.5			
B CGJ2	80-112						1	0.4	3

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
LF	20-19				11.8	14.3	52.0	18.9	72.9	
H 1	19-8				11.1	25.1	0.0	13.4	56.8	
H 2	8-0				17.4	22.6	0.0	9.0	29.8	
A E	0-8									
B HF	8-17	1	2.4	3	0.1	1.8	2.8	2.5	4.6	6.9
B F1	17-30	1	4.6	3	1.5	1.1	7.9	36.8	16.7	26.6
B F2	30-50	1	3.2	3	0.8	5.0	7.0	200.0	24.3	27.8
B FGJ	50-62				0.8	6.3	16.3	162.5	22.2	27.7
B CGJ1	62-80					10.3	22.9	16.3	24.7	26.8
B CGJ2	80-112	1	1.1	3	0.5					



# GOLDEN EARS

DATE OF SURVEY: 27 9 76      SURVEYOR: AJG VAN RES STN PED UNIT AG CAN.  
 SAMPLING PURPOSE: RESEARCH

LOCATION ----- LATITUDE(N):      49 21 12 LONGITUDE(W):    122 20 28 PRECISION (SEC):    30 ELEVATION (M):      870	CLASSIFICATION ----- DURIC FERRO-HUMIC PODZOL(1978)	SLOPE ----- X                    18.0 TYPE:                COMPLEX ASPECT (DEG):      205 MICROTOPOGRAPHY: SEVERELY MOUNDED
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

SEEPAGE:                    PRESENT                    DRAINAGE:                MODERATELY WELL DRAINED  
 RUNOFF:                    SLOW                      PERVIOUSNESS: MODERATE

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 PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	38- 37					
F 1	37- 17	CLEAR WAVY				
F 2	17- 6	CLEAR WAVY	10.0R3.0/4.0 MATRIX MOIST 10.0R4.0/6.0 MATRIX DRY	10.0R2.0/2.0 MATRIX DRY	ORGANIC	STRONG MEDIUM GRANULAR
H	6- 0	CLEAR WAVY	7.5R2.0/2.0 MATRIX MOIST 7.5R2.0/2.0 MATRIX DRY		ORGANIC	STRONG FINE TO MEDIUM GRANULAR
A E	0- 4	ABRUPT IRREGULAR	10.0YR5.0/3.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY		FINE SANDY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
B F	4- 12	CLEAR IRREGULAR	2.5YR2.0/2.0 MATRIX MOIST 5.0YR4.0/3.0 MATRIX DRY	2.5YR3.0/4.0 MATRIX MOIST 10.0YR7.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B HF1	12- 27	CLEAR IRREGULAR	7.5YR2.0/0.0 MATRIX MOIST 7.5YR2.0/0.0 MATRIX DRY		SANDY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B HF2	27- 42	CLEAR IRREGULAR	2.5YR2.0/4.0 MATRIX MOIST 7.5YR6.0/6.0 MATRIX DRY	5.0YR3.0/4.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B FGJ	42- 59	CLEAR IRREGULAR	10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	10.0YR4.0/2.0 MATRIX DRY	SANDY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B CGJ	59- 80	CLEAR IRREGULAR	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.0/4.0 MATRIX DRY	2.5Y5.0/4.0 MATRIX MOIST 2.5Y5.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE TO STRONG MEDIUM PLATY
C	80- 95	CLEAR WAVY	10.0YR4.0/4.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	2.5Y6.0/4.0 MATRIX DRY	SANDY LOAM	MASSIVE
C GJ1	95-131	GRADUAL WAVY	2.5Y4.0/4.0 MATRIX MOIST 2.5Y7.0/2.0 MATRIX DRY	2.5Y8.0/4.0 MATRIX DRY	SANDY LOAM	MASSIVE
C GJ2	131-		2.5Y4.0/4.0 MATRIX MOIST 2.5Y7.0/2.0 MATRIX DRY	2.5Y8.0/4.0 MATRIX DRY	SANDY LOAM GRAVELLY	MASSIVE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	PORES 1	MOTTLES 1	CLAY FILMS 1
L	38- 37						
F 1	37- 17			ABUNDANT MEDIUM RANDOM			
F 2	17- 6			ABUNDANT COARSE RANDOM EX PED			
H	6- 0			ABUNDANT MEDIUM RANDOM EX PED			
A E	0- 4	STRONG MEDIUM GRANULAR	NON STICKY FRIABLE HARD SLIGHTLY PLASTIC	PLENTIFUL FINE VERTICAL IN PED	ABUNDANT FINE RANDOM		
B F	4- 12	STRONG FINE TO MEDIUM GRANULAR	NON STICKY FRIABLE SLIGHTLY HARD NONPLASTIC	PLENTIFUL MEDIUM VERTICAL IN PED	VERY FEW FINE RANDOM IN PED		
B HF1	12- 27	MODERATE FINE GRANULAR	NON STICKY FRIABLE SOFT NONPLASTIC	PLENTIFUL FINE VERTICAL IN PED	PLENTIFUL MICRO RANDOM IN PED		FEW VERY THIN ON PED FACES- UNSPECIFIED
B HF2	27- 42	STRONG FINE GRANULAR	NON STICKY FRIABLE SOFT NONPLASTIC	PLENTIFUL FINE VERTICAL IN PED	PLENTIFUL FINE RANDOM IN PED		FEW VERY THIN IN VOIDS AND OR CHANNELS ONLY
B FGJ	42- 59	STRONG FINE GRANULAR	NON STICKY FRIABLE SOFT SLIGHTLY PLASTIC	PLENTIFUL FINE VERTICAL IN PED	PLENTIFUL FINE RANDOM IN PED	FEW FINE PROMINENT	FEW VERY THIN IN VOIDS AND OR CHANNELS ONLY
B CGJ	59- 80	STRONG COARSE PLATY	NON STICKY FRIABLE VERY HARD SLIGHTLY PLASTIC	VERY FEW FINE OBLIQUE EX PED	PLENTIFUL MICRO RANDOM IN PED	MANY MEDIUM PROMINENT	COMMON VERY THIN VISIBLE BRIDGES BETWEEN SAND GRAINS
C	80- 95	STRONG MEDIUM ANGULAR BLOCKY	SLIGHTLY STICKY FRIABLE VERY HARD PLASTIC	VERY FEW FINE OBLIQUE EX PED	FEW MICRO RANDOM IN PED	MANY FINE DISTINCT	COMMON THIN ON PED FACES- UNSPECIFIED
C GJ1	95-131	MEDIUM TO COARSE ANGULAR BLOCKY	NON STICKY FRIABLE SLIGHTLY HARD PLASTIC		PLENTIFUL MEDIUM RANDOM IN PED	COMMON MEDIUM DISTINCT	FEW VERY THIN IN VOIDS AND OR CHANNELS ONLY
C GJ2	131-	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	FRIABLE SLIGHTLY HARD PLASTIC		PLENTIFUL MEDIUM RANDOM IN PED	MANY COARSE DISTINCT	FEW VERY THIN IN VOIDS AND OR CHANNELS ONLY

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1	CEMENTATION AGENT/DESCRIP.	FIELD PH
L	38- 37			
F 1	37- 17			EXTREMELY ACID
F 2	17- 6			EXTREMELY ACID
H	6- 0			EXTREMELY ACID
A E	0- 4		WEAKLY CEMENTED CONTINUOUS	EXTREMELY ACID
B F	4- 12	COMMON FINE THROUGHOUT MATRIX SPHERICAL	WEAKLY CEMENTED CONTINUOUS	EXTREMELY ACID
B HF1	12- 27	COMMON FINE THROUGHOUT MATRIX SPHERICAL		EXTREMELY ACID
B HF2	27- 42	COMMON FINE THROUGHOUT MATRIX SPHERICAL		EXTREMELY ACID
B FGJ	42- 59			EXTREMELY ACID
B CGJ	59- 80		STRONGLY CEMENTED CONTINUOUS	VERY STRONGLY ACID
C	80- 95			VERY STRONGLY ACID
C GJ1	95-131			VERY STRONGLY ACID
C GJ2	131-			VERY STRONGLY ACID

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GOLDEN EARS (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	38-37							
F 1	37-17	2	2	3.9	2	3.3	22.64	.59
F 2	17-6	2	2	3.4	4	2.9	41.22	.85
H	6-0	2	2	3.2	4	2.7	54.02	1.54
A E	0-4	1	1	3.3	4	2.8	5.63	.18
B F	4-12	1	1	4.0	4	3.4	6.95	.32
B MF1	12-27	2	2	4.8	4	4.0	7.87	.23
B MF2	27-42	1	1	5.0	4	4.3	5.51	.17
B FGJ	42-59	1	1	5.1	4	4.5	3.64	.09
B CGJ	59-80	1	1	5.3	4	4.7	.61	.02
C	80-95	2	2	5.5	4	4.9	.45	.01
C GJ1	95-131	2	1	5.8	4	4.9	.19	.00
C GJ2	131-	2	1	5.7	4	4.6	.11	.00

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L	38-37									
F 1	37-17	.75	.28	.12	.38	76.0	1	1.0	J	.8
F 2	17-6	9.81	2.08	.25	.45	125.1	1	0.3	J	.3
H	6-0	13.11	3.62	.44	.33	177.5	1	0.1	J	.0
A E	0-4	.44	.10	.06	.07	18.5	1	0.6	J	.2
B F	4-12	.28	.11	.05	.08	34.9	1	1.0	J	.9
B MF1	12-27	.23	.03	.03	.02	67.7	1	1.0	J	.8
B MF2	27-42	.18	.02	.03	.06	40.7	1	.8	J	.6
B FGJ	42-59	.13	.02	.02	.05	25.3	1	.5	J	.2
B CGJ	59-80	.01	.01	.02	.02	8.7	1	.4	J	.1
C	80-95	.14	.01	.03	.03	6.0	1	.1	J	.0
C GJ1	95-131	.24	.01	.04	.05	7.7	1	.1	J	.0
C GJ2	131-	1.58	.01	.07	.07	7.3	1	.2	J	.0

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				PARTICLE SIZE(%)						
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	BULK DENSITY	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	
L	38-37										
F 1	37-17	1	1.1	J	1.0	5.1	9.5				
F 2	17-6	1	.4	J	.3	4.2	7.9				
H	6-0	1	.2	J	.2	5.4	8.2				
A E	0-4	1	.1	J	.1	1.3	3.0	1.19	55	39	6
B F	4-12	1	.5	J	.5	5.2	8.1	1.06			
B MF1	12-27	1	3.7	J	2.2	8.4	8.8	1.07	67	29	4
B MF2	27-42	1	2.9	J	1.8	5.8	10.5	1.32	62	35	3
B FGJ	42-59	1	2.0	J	1.3	10.8	24.1	1.31	71	27	2
B CGJ	59-80	1	.8	J	.3	20.2	48.3	1.80	64	33	3
C	80-95	1	.6	J	.2	45.0	91.0	1.84	55	43	2
C GJ1	95-131	1	.3	J	.2	67.5	119.5	1.90	70	27	3
C GJ2	131-	1	.3	J	.1	46.8	72.7		71	25	4

HORIZON=DEPTH(CM.)	PARTICLE SIZE(%) COARSE FRAGMENTS				
	.2U CLAY TOTAL	% VOL	GRAVEL %	COBBLE %	STONE %
L	38-37				
F 1	37-17			3	
F 2	17-6			5	
H	6-0			5	
A E	0-4	1		5	
B F	4-12			5	
B MF1	12-27			5	5
B MF2	27-42			15	10
B FGJ	42-59			5	
B CGJ	59-80			20	10
C	80-95			20	10
C GJ1	95-131	1	50	20	10
C GJ2	131-	1	55	25	20

# GOLDEN EARS

SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 DURIC FERRO-HUMIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED

ADDITIONAL NOTES  
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LOCATED NORTHWEST OF GIBSONS.  
 .....

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHDD	VALUE	SAMPLE STATE	METHDD	VALUE		
HF 18- 0	2	2	3.3	2	4	2.8	65.71	.56
A E 0- 8	1	1	3.5	2	4	3.1	2.08	.06
B HF1 8- 15	2	2	4.1	2	4	3.4	15.87	.46
B HF2 15- 35	2	1	5.0	2	4	4.4	8.47	.24
B HFGJ 35- 45	2	1	5.0	2	4	4.3	8.29	.24
B CGJ 45- 78	2	1	5.4	2	4	5.0	.77	
BC 78-125	2	1	5.4	2	4	5.2		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
HF 18- 0									
A E 0- 8	1.02	.34	.04	.26	11.7	1	.2	3	.1
B HF1 8- 15	2.06	.90	.08	.36	67.7	1	3.6	3	3.0
B HF2 15- 35	.22	.11	.04	.16	45.5	1	1.3	3	.4
B HFGJ 35- 45	.27	.13	.07	.14	25.7	1	.8	3	.4
B CGJ 45- 78	.21	.05	.04	.08	7.6	1	.5	3	.0
BC 78-125	.20	.05	.03	.18	7.7	1	.5	3	.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	B PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT					
HF 18- 0					11.5	14.6	2.8	1.8	5.6
A E 0- 8	1	.1	3	.0	3.2	5.1	.8	.2	2.6
B HF1 8- 15	1	1.2	3	1.1	2.2	5.4	25.5	.9	1.6
B HF2 15- 35	1	4.1	3	2.0	1.3	4.7	54.4	.2	.5
B HFGJ 35- 45	1	4.0	3	2.2	3.4	8.5	22.8	.4	.3
B CGJ 45- 78	1	1.0	3	.3	30.8	77.1	12.9		.5
BC 78-125	1	1.1	3	.2	64.2	97.9	18.0	.9	

# GOUDY

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 05 04	TERRIC HUMISOL(1978)	TYPE: SIMPLE
LONGITUDE(W): 122 59 00	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 800 METERS SOUTH AND 400 METERS WEST OF INTERSECTION OF LADNER TRUNK AND SMITH ROADS.  
 CLASSIFICATION PHASE IS SALINE.  
 O HP AND O H1 HAVE <10% RUBBED FIBRE DEVELOPED WHEN DRY.  
 VERTICAL CRACKS UP TO 2CM WIDE AND ABOUT 25CM APART.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
D HP	53- 36	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/1.5 MATRIX DRY		ORGANIC	MODERATE VERY COARSE SUBANGULAR BLOCKY
O H1	36- 18	GRADUAL	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	STRATIFIED
O H2	18- 0	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST	5.0YR2.0/2.0 MATRIX MOIST	ORGANIC	STRATIFIED
C SG1	0- 7	GRADUAL	5.0Y3.0/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C SG2	7- 32	DIFFUSE	5.0Y3.5/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C SG3	32- 62		5.0Y3.5/2.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
D HP	53- 36	MODERATE FINE SUBANGULAR BLOCKY	FRIABLE HARD	ABUNDANT
O H1	36- 18		FIRM HARD	ABUNDANT
O H2	18- 0		FIRM SLIGHTLY PLASTIC	PLENTIFUL
C SG1	0- 7		SLIGHTLY PLASTIC	FEW
C SG2	7- 32		SLIGHTLY PLASTIC	
C SG3	32- 62		SLIGHTLY PLASTIC	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
D HP 53- 36	2	1	4.1	2	4	3.9	35.84	1.84
O H1 36- 18	2	1	4.1	2	4	3.6	49.65	2.97
O H2 18- 0	2	1	3.6	2	4	3.2	58.00	3.91
C SG1 0- 7	2	1	4.2	2	4	2.1	12.40	.62
C SG2 7- 32	2	1	3.1	2	4	3.2		
C SG3 32- 62	2	1	3.8	2	4	3.1		

EXCHANGEABLE CATIONS BUFF.(ME/100G)

HORIZON-DEPTH(CM.)	CA				DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPM	P2 PPM	S PPM	CU PPM
	CA	MG	NA	K						
D HP 53- 36	6.37	9.20	4.78	.51	85.0	18.9	35.4	221.1	47.2	
O H1 36- 18	7.79	7.53	6.17	.53	117.8	9.7	10.8	397.4	39.3	
O H2 18- 0	8.55	9.70	10.28	.54	152.1	9.0	10.0	500.0	32.0	
C SG1 0- 7	6.97	7.05	5.48	.43	37.0	16.90	22.8	72.3	102.9	
C SG2 7- 32						12.70	17.4	67.8	500.0	
C SG3 32- 62						10.10	4.8	47.1	500.0	

HORIZON-DEPTH(CM.)	ZN PPM
D HP 53- 36	29.8
O H1 36- 18	29.9
O H2 18- 0	38.7
C SG1 0- 7	40.3
C SG2 7- 32	41.2
C SG3 32- 62	46.1

# GOUDY

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 04 48	TERRIC HUMISOL (1978)	TYPE:	SIMPLE
LONGITUDE (W):	122 51 05		CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05			
ELEVATION (M):	1	STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: ABOUT 50 METERS SOUTHEAST OF THE GREAT NORTHERN RAILWAY  
 GRADE ABOUT 100 METERS FROM THE MUD BAY DYKE, SURREY.  
 CLASSIFICATION PHASE IS SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
D HP	53- 33	ABRUPT	10.0YR2.0/1.0 MATRIX MDIST 10.0YR3.5/1.0 MATRIX DRY	ORGANIC	WEAK FINE TO MEDIUM GRANULAR	WEAK COARSE SUBANGULAR BLOCKY
D M	33- 20			ORGANIC	MASSIVE	
D HS	20- 0		10.0YR4.0/1.0 MATRIX MOIST 10.0YR2.0/2.0 MATRIX DRY	ORGANIC	MASSIVE	
C GS1	0- 8		10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
C GS2	8-		5.0Y4.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	NOTTLES 1
D HP	53- 33	VERY FRIABLE SOFT	ABUNDANT	
D M	33- 20	VERY HARD	ABUNDANT FINE	
D HS	20- 0	FRIABLE	FEW	
C GS1	0- 8	NON STICKY FRIABLE SLIGHTLY PLASTIC		FEW DISTINCT
C GS2	8-	FRIABLE		FEW DISTINCT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
D HP	53- 33	2	2	4.5	27.85	1.61	10.16	9.38	2.87	.17	79.3
D M	33- 20	2	2	3.6	58.00	2.55	3.26	4.34	1.34	.05	142.0
D HS	20- 0	2	2	3.5	47.10	2.03	3.44	6.72	3.03	.11	114.9
C GS1	0- 8	2	1	3.5	3.13	.22	2.78	9.43	4.81	1.05	15.6
C GS2	8-	2	1	4.2	1.69	.06	2.26	6.81	3.80	.42	26.0

HORIZON=DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	P1 PPM.
D HP	53- 33	5.6
D M	33- 20	3.6
D HS	20- 0	9.49
C GS1	0- 8	10.40
C GS2	8-	13.05

# GREVELL

UNIT TYPE: SERIES

DATE OF SURVEY: 6J SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 10 03	ORTHIC REGOSOL (1978)	% TYPE: 2.0
LONGITUDE (W): 122 27 07	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC):		
ELEVATION (M): 6		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

300 METERS NORTHEAST OF CORNER OF LEFEUVRE AND RIVER RDS., GLEN VALLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	1- 0	ABRUPT		ORGANIC			
C 1	0- 22	ABRUPT	10.0YR4.5/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SAND	SINGLE GRAIN	LOOSE	PLENTIFUL
C 2	22- 30	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	LOAMY FINE SAND	WEAK FINE SUBANGULAR BLOCKY PSEUDO	VERY FRIABLE	FEW
C 6J	30- 55	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SAND	SINGLE GRAIN	LOOSE	FEW
C 3	55-		10.0YR5.0/3.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SAND	SINGLE GRAIN	LOOSE	

THICKNESS BOTTLES 1

HORIZON	THICKNESS DEPTH (CM)	BOTTLES 1
LH	1- 0	
C 1	0- 22	
C 2	22- 30	
C 6J	30- 55	FEW FINE PAINT
C 3	55-	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	1- 0										
C 1	0- 22	2	1	7.1	.12	.02	5.30		.10	.20	4.3
C 2	22- 30	2	1	7.3	.23	.02	8.00		.10	.20	7.8
C 6J	30- 55	2	1	7.6	.41	.04	4.40	.80	.10	.10	5.7
C 3	55-	2	1	7.6	.12	.01	3.60		.10	.10	3.5

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
LH	1- 0	
C 1	0- 22	2.5
C 2	22- 30	2.2
C 6J	30- 55	2.5
C 3	55-	2.2

# GREVELL

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 12 19	ORTHIC REGOSOL (1978)	%
LONGITUDE (W): 121 51 28	STATUS: MODAL SOIL	TYPE: 2.0
PRECISION (SEC): 05		CLASS: COMPLEX
ELEVATION (M): 11		GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: FLUVIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

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PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 25	10.0YR4.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
C	25- 47	10.0YR4.0/2.0 MATRIX MOIST	LOAMY SAND	SINGLE GRAIN	LUDSE	PLENTIFUL
C GJ1	47- 60	10.0YR4.0/2.0 MATRIX MOIST	FINE SANDY LOAM	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO	FRIABLE SLIGHTLY HARD	FEW
C GJ2	60-	10.0YR4.0/2.0 MATRIX MOIST	SANDY LOAM	STRATIFIED		

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
A P	0- 25	
C	25- 47	
C GJ1	47- 60	FEW FAINT
C GJ2	60-	FEW FAINT

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PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 25	2	1	5.7	1.06	.12	5.34	3.06	.13	.23	15.9
C	25- 47	2	1	6.1	.29	.10	2.90	2.15	.13	.20	4.4
C GJ1	47- 60	2	1	6.1	.32	.05	6.26	2.15	.15	.20	13.9
C GJ2	60-	2	1	6.2	.19	.02	3.34	1.91	.10	.13	9.8

HORIZON=DEPTH(CM.)	P1 DPM.	
A P	0- 25	5.0
C	25- 47	5.0
C GJ1	47- 60	2.0
C GJ2	60-	5.0



# GREVELL

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 47 03	URTHIC REGOSOL (1978)	% TYPE: 2.0
LONGITUDE (W): 121 42 43	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 18		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 11 SANDY  
 GENETIC MAT. 1 FLUVIAL  
 SURFACE EXPRES. 1 LEVEL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	4- 0	ABRUPT				
A MJ	0- 4	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
C 1	4- 10	DIFFUSE	10.0YR4.0/3.0 MATRIX MOIST	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY PSEUDO	
C 2	10- 27	DIFFUSE	2.5Y4.0/2.0 MATRIX MOIST	FINE SAND	SINGLE GRAIN	
C 3	27-		2.5Y4.0/2.0 MATRIX MOIST	FINE SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
LH	4- 0			
A MJ	0- 4	VERY FRIABLE	ABUNDANT	
C 1	4- 10	VERY FRIABLE	ABUNDANT	
C 2	10- 27	LOOSE	PLENTIFUL	
C 3	27-	VERY FRIABLE	FEW	FEW FINE FAINT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	4- 0	2	5.9	40.14	1.75					
A MJ	0- 4	2	5.9	2.72	.19	9.08	2.49	.13	.25	18.5
C 1	4- 10	2	5.5	.64	.06	3.07	1.44	.11	.10	8.9
C 2	10- 27	2	6.0	.35	.02	2.02	.90	.10	.09	4.6
C 3	27-	2	6.2	.17	.02	3.34	.89	.09	.15	6.1

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
LH	4- 0	38.0
A MJ	0- 4	40.5
C 1	4- 10	57.5
C 2	10- 27	42.5
C 3	27-	63.5

# GRIGG

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 08 44	GLEVED GRAY LUVISOL(1978)	%	2.0	
LONGITUDE (W):	122 00 28		TYPE:	SIMPLE	
PRECISION (SEC):	05	STATUS:			
ELEVATION (M):	10	MODAL SOIL			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NORTHWEST OF LICKMAN RD. OVERPASS OVER HWY 401, CHILLIWACK  
 FARREL RD AND TSANWASSEN HIGHWAY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR4.0/1.0 10.0YR5.5/2.0 MATRIX DRY		SILTY CLAY	MODERATE TO STRONG FINE ANGULAR BLOCKY
A EGJ	15- 32	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.5 MATRIX DRY		SILTY CLAY	MODERATE MEDIUM ANGULAR BLOCKY
BA	32- 55	DIFFUSE	10.0YR5.5/1.0 MATRIX MOIST 10.0YR6.5/2.0 MATRIX DRY		SILTY CLAY	WEAK COARSE PRISMATIC
B TGJ	55- 82	DIFFUSE	10.0YR5.5/1.0 MATRIX MOIST		CLAY	MODERATE COARSE PRISMATIC
B TG	82-107	DIFFUSE	10.0YR6.0/1.0 MATRIX MOIST	5.0Y6.0/1.0 MATRIX MOIST	SILTY CLAY	MODERATE COARSE PRISMATIC
BC	107-132	DIFFUSE	10.0YR5.0/1.0 MATRIX MOIST	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM TO COARSE ANGULAR BLOCKY
C G	132-150		5.0Y5.0/1.0 MATRIX MOIST	10.0YR5.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG MEDIUM MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 15		FIRM HARD	ABUNDANT		
A EGJ	15- 32	STRONG FINE ANGULAR BLOCKY	FIRM HARD	ABUNDANT	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0	
BA	32- 55	STRONG COARSE ANGULAR BLOCKY	FIRM HARD PLASTIC	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	THIN ON PED FACES- UNSPECIFIED
B TGJ	55- 82	STRONG COARSE ANGULAR BLOCKY	FIRM HARD PLASTIC	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/8.0	COMMON THICK ON PED FACES- UNSPECIFIED
B TG	82-107	STRONG COARSE ANGULAR BLOCKY	FIRM HARD PLASTIC	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/8.0	COMMON THICK ON PED FACES- UNSPECIFIED
BC	107-132		FIRM HARD PLASTIC		MANY MEDIUM PROMINENT 5.0YR4.0/8.0	FEW
C G	132-150	MODERATE MEDIUM ANGULAR PSEUDO BLOCKY	FIRM HARD		MANY MEDIUM PROMINENT 5.0YR4.0/6.0	FEW

GRIGG (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0= 15	2	1	5.6	2	4	4.7	5.51	.42
A EGJ 15= 32	2	1	5.5	2	4	4.6	2.61	.19
BA 32= 55	2	1	5.4	2	4	4.7	1.04	.09
B TGJ 55= 82	2	1	5.8	2	4	5.4		.05
B TG 82=107	2	1	5.9	2	4	5.3		
BC 107=132	2	1	6.0	2	4	5.4		
C G 132=150	2	1	6.1	2	4	5.7		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED					
	CA	MG	NA	K		P1 DPM.	P2 DPM.	S DPM.	CU DPM.	ZN DPM.	MN DPM.
A P 0= 15	11.10	2.44	.14	.19	30.8	51.9	80.9	3.9	41.5	134.8	14.5
A EGJ 15= 32	7.53	2.33	.10	.11	25.8	15.7	31.9	10.6	40.8	104.5	6.2
BA 32= 55	8.85	4.43	.12	.14	21.4	6.9	15.1	12.4	45.0	102.9	14.4
B TGJ 55= 82	12.91	9.09	.24	.21	24.2	6.7	12.0	3.1	40.5	87.8	7.2
B TG 82=107	12.87	9.73	.24	.20	24.3	7.7	19.4	2.8	45.8	94.8	5.7
BC 107=132	13.24	10.20	.28	.22	27.8				46.0	90.5	4.7
C G 132=150	19.28	9.04	.23	.16	21.8				41.6	69.9	6.7

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)			
	62-2 U SILT	50-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
A P 0= 15	1	43	56	19
A EGJ 15= 32				
BA 32= 55				
B TGJ 55= 82		40	60	18
B TG 82=107		47	53	17
BC 107=132				
C G 132=150		71	29	12

# GROUSE

DATE OF SURVEY: 71 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b> LATITUDE (N): 49 27 30 LONGITUDE (W): 123 10 13 PRECISION (SEC): 02 ELEVATION (M): 1250	<b>CLASSIFICATION</b> GLEYED SOMBRIC FERRO-HUMIC PODZOL(1978) STATUS: MODAL SOIL	<b>SLOPE</b> %: 15.0 TYPE: SIMPLE CLASS: STRONGLY SLOPING ASPECT (DEG): 180
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**PARENT MATERIAL & LANDFORM**

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
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GENETIC MAT.: COLLUVIAL SURFACE EXPRES.: VENEER	GENETIC MAT.: BEDROCK
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**BEDROCK**

TYPE: INTRUSIVE ACID	DRAINAGE: IMPERFECTLY DRAINED RUNOFF: MEDIUM
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**ADDITIONAL NOTES**

SITE LOCATED ON RIDGE CREST BETWEEN LIONS AND ENCHANTMENT LAKE.  
 CLASSIFICATION PHASE IS "LITHIC".

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
HF	25- 10	CLEAR	5.0YR2.0/2.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	ORGANIC		FRIABLE SLIGHTLY HARD	ABUNDANT
H	10- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST 10.0YR3.5/2.0 MATRIX DRY	ORGANIC		FRIABLE SLIGHTLY HARD	ABUNDANT
A H	0- 10	GRADUAL	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/2.0 MATRIX DRY	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE SLIGHTLY HARD	PLENTIFUL
A HE	10- 15	CLEAR	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B HFGJ	15- 20	ABRUPT	7.5YR3.0/2.0 MATRIX MOIST 10.0YR4.0/3.0 MATRIX DRY	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
R	20-						

**THICKNESS MOTTLES 1**

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
HF	25- 10	
H	10- 0	
A H	0- 10	
A HE	10- 15	
B HFGJ	15- 20	FEW MEDIUM DISTINCT
R	20-	

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
HF	25- 10	2	1	4.6	2	4	47.44	1.13
H	10- 0	2	1	5.1	2	4	22.16	.58
A H	0- 10							
A HE	10- 15	2	1	5.6	2	4	5.86	.32
B HFGJ	15- 20	2	1	5.3	2	4	7.37	.41
R	20-							

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
HF	25- 10								
H	10- 0								
A H	0- 10								
A HE	10- 15	.32	.05	.11	.02	17.9	1	0.6	3
B HFGJ	15- 20	.64	.03	.12	.03	24.6	1	0.7	3
R	20-								

HORIZON-DEPTH(CM.)	EXTRACTABLE AL (%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
HF	25- 10				2.7	3.4	9.3	30.9	29.8	2.2
H	10- 0				2.1	2.1	20.8	52.0	32.0	0.5
A H	0- 10									
A HE	10- 15	1	2.8	3	0.9					
B HFGJ	15- 20	1	3.8	3	0.8					
R	20-									

# GUICHON

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELUWA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
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LATITUDE (N): 49 02 55	ORTMIC HUMIC GLEYSOL (1978)	% TYPE: 1.0
LONGITUDE (E): 123 03 21	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC): 02		
ELEVATION (M): 2		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

**MIDDLE STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

**ADDITIONAL NOTES**

SITE LOCATION: 800 METERS SOUTH AND 200 METERS EAST OF INTERSECTION OF FARREL ROAD AND TSAWASSEN HIGHWAY.  
 CLASSIFICATION PHASE IS SALINE, SULPHUR VALUES FROM A PS DOWN ARE >100 PPM.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 15	CLEAR	10.0YR2.5/1.5 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	FIRM HARD	ABUNDANT
A PS	15- 22	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	FIRM HARD	ABUNDANT
B TJS G1	22- 35	CLEAR	5.0Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE PRISMATIC	VERY FIRM VERY HARD	PLENTIFUL
B TJS G2	35- 42	DIFFUSE	5.0Y5.0/1.5 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE PRISMATIC	FIRM	PLENTIFUL
II BC	42- 57	DIFFUSE	5.0Y5.0/1.5 MATRIX MOIST	LOAM	MODERATE MEDIUM PRISMATIC	FIRM	FEW
II C SG1	57- 87	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	FRIABLE	FEW
II C SG2	87-		5.0Y4.0/2.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	FRIABLE	

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 15			
A PS	15- 22			
B TJS G1	22- 35	MANY MEDIUM PROMINENT 5.0YR3.0/4.0	5.0YR5.0/8.0	COMMON THIN ON PED FACES= UNSPECIFIED
B TJS G2	35- 42	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0	5.0YR5.0/6.0	COMMON THIN ON PED FACES= UNSPECIFIED
II BC	42- 57	COMMON MEDIUM PROMINENT 7.5YR5.0/6.0		
II C SG1	57- 87	FEW MEDIUM PROMINENT 7.5YR4.0/4.0	7.5YR5.0/8.0	
II C SG2	87-	FEW MEDIUM PROMINENT 7.5YR4.0/4.0	7.5YR5.0/6.0	

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A P	0= 15	2	1	5.3	2	4	4.5	4.99	.39
A PS	15= 22	2	1	5.2	2	4	4.6	3.60	.29
B TJSG1	22= 35	2	1	5.5	2	4	5.0	.84	.06
B TJSG2	35= 42	2	1	6.0	2	4	5.4	.35	.04
II BC	42= 57	2	1	6.4	2	4	5.7	.41	.03
II C SG1	57= 87	2	1	7.0	2	4	6.2	.23	.02
II C SG2	87=	2	1	6.9	2	4	6.3	.46	.02

EXCHANGEABLE CATIONS BUFF.(ME/100G)

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K						
A P	0= 15	7.86	6.15	1.58	.32	26.5				
A PS	15= 22	7.09	7.48	1.70	.29	23.6	4.20	5.7	65.1	26.1
B TJSG1	22= 35	3.82	6.59	2.55	.37	18.1	10.10	4.4	82.2	19.9
B TJSG2	35= 42	3.05	6.01	4.02	.48	14.9	9.60	2.0	166.3	24.3
II BC	42= 57	2.93	5.68	3.38	.51	14.8	10.10	1.5	160.6	26.5
II C SG1	57= 87	2.06	3.52	2.66	.54	9.6	10.10	1.8	147.6	26.1
II C SG2	87=	2.10	3.48	2.54	.65	9.3	11.30	4.6	159.7	29.9

HORIZON=DEPTH(CM.)	ZN PPM.	
A P	0= 15	61.4
A PS	15= 22	65.5
B TJSG1	22= 35	72.3
B TJSG2	35= 42	60.5
II BC	42= 57	59.8
II C SG1	57= 87	62.8
II C SG2	87=	62.8

# GUICHON

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELDONA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 03 13	URTHIC HUMIC GLEYSOL (1978)	% TYPE: CLASS:
LONGITUDE (W): 123 02 33	STATUS: MODAL SOIL	COMPLEX NEARLY LEVEL
PRECISION (SEC): 09		
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE,  
 THE SAND IN THE II C G AND II C GS IS MAINLY MICACEOUS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	10.0YR3.5/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	
B G	18- 33	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	COARSE PRISMATIC STRATIFIED	COARSE PLATY
BC	33- 47	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
II C G	47-105		5.0Y4.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	FINE SANDY LOAM	MASSIVE	
II C GS	105-		2.5Y4.0/1.0 MATRIX MOIST 2.5Y6.0/0.0 MATRIX DRY	LOAMY FINE SAND	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 18	FIRM HARD	ABUNDANT FINE	
B G	18- 33	SLIGHTLY STICKY FIRM PLASTIC	PLENTIFUL FINE	MANY PROMINENT 7.5YR4.0/4.0
BC	33- 47	NON STICKY FRIABLE SLIGHTLY PLASTIC	FEW FINE	COMMON PROMINENT 7.5YR4.0/4.0
II C G	47-105	VERY FRIABLE		COMMON DISTINCT 10.0YR4.0/4.0
II C GS	105-			COMMON DISTINCT 10.0YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 18	2	1	5.5	7.61	.38	5.23	7.93	2.56	.60	30.2
B G	18- 33	2	1	6.2	.23		2.21	5.42	4.31	.52	14.6
BC	33- 47	2	1	6.9	.26		1.70	4.77	5.01	.55	13.3
II C G	47-105	2	1	6.7	.76		1.42	3.29	4.87	.59	8.3
II C GS	105-	2	1	4.0							

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHOS/CM)	pH
A P	0- 18	1.25
B G	18- 33	1.45
BC	33- 47	2.30
II C G	47-105	2.55
II C GS	105-	7.00

# HALLERT

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 12 03	REGU GLEYSOL(1978)		
LONGITUDE(W):	122 42 44			
PRECISION (SEC):	05	PHASE: PEATY	% TYPE: CLASS:	1.0 SIMPLE DEPRESSIONAL TO LEVEL
ELEVATION (M):	3			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
GENETIC MAT.: ORGANIC	SPEC. CLASTIC 1: SILTY
SURFACE EXPRES.: VENEER	GENETIC MAT.: FLUVIAL
	SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NEAR CENTER OF BARNSTON ISLAND.  
 THE C G1 HAS SCATTERED THIN BANDS OF ORGANIC MATERIAL OCCASIONAL VERTICAL CRACKS.  
 THE C G2 AND C G3 CONSIST OF ALTERNATING BANDS OF PEAT AND SILT.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
D HP	22- 8	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR3.5/1.5 MATRIX DRY		ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY
D H	8- 0	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 MATRIX MOIST	ORGANIC	WEAK PLATY
C G1	0- 32	CLEAR	10.0YR3.0/2.0 MATRIX MOIST	7.5YR4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO
D M	32- 45	GRADUAL	10.0YR3.0/3.0 MATRIX MOIST		ORGANIC	MASSIVE
C B2	45- 77		10.0YR3.5/2.0 MATRIX MOIST		SILT LOAM	STRATIFIED
						STRATIFIED

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	FIELD PH
D HP	22- 8	WEAK MEDIUM GRANULAR	VERY FRIABLE	ABUNDANT	
D H	8- 0		FIRM HARD	ABUNDANT	
C G1	0- 32		FIRM	PLENTIFUL	
D M	32- 45			FEW	
C B2	45- 77				STRONGLY ACID

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
D HP	22- 8	2	2	4.0	27.03	1.39	.72	.26	.22	.15	68.1
D H	8- 0	2	2	4.2	34.10	1.62	1.59	.20	.20	.09	87.5
C G1	0- 32	2	1	4.5	16.18	.81	.71	.89	.22	.05	86.2
D M	32- 45	2	2	4.9	19.83	.87	5.46	1.27	.15	.08	62.0
C B2	45- 77	2	1	5.0	16.40	.63	10.73	3.82	.17	.14	61.1
		2	2	4.5	35.79	1.13	6.77	1.56	.33	.07	79.5

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
D HP	22- 8	32.5
D H	8- 0	7.0
C G1	0- 32	3.5
D M	32- 45	3.0
C B2	45- 77	3.5
		4.0



# HALLERT

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 06 07	REGO GLEYSOL(1978)	TYPE: SIMPLE
LONGITUDE(W): 122 17 47	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 6		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

THE O M CONTAINS SEVERAL THIN BANDS OF SILTY MATERIAL. THE C G1 AND C G2 CONTAIN SEVERAL THIN BANDS OF ORGANIC MATERIAL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 17	GRADUAL	10.0YR2.5/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT MUCKY	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
O M	17- 43	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	ORGANIC	WEAK STRATIFIED	FIRM	PLENTIFUL
C G1	43- 65	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	FRIABLE	PLENTIFUL
C G2	65- 85	DIFFUSE	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	FRIABLE	FEW
C G3	85-		10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.5/1.0 MATRIX DRY	SILT LOAM	MASSIVE	FRIABLE	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
A P	0- 17	
O M	17- 43	FEW FINE FAINT
C G1	43- 65	COMMON FINE FAINT 10.0YR5.0/4.0
C G2	65- 85	COMMON FINE DISTINCT 10.0YR5.0/4.0
C G3	85-	COMMON FINE DISTINCT 10.0YR5.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 17	2	2	5.0	15.95	.93	7.00	1.90	.20	.20	57.7
O M	17- 43	2	2	5.0	17.63	1.07	19.20	4.50	.20	.20	65.1
C G1	43- 65	2	1	5.4	7.13	.40	12.10	8.60	.20	.10	39.9
C G2	65- 85	2	1	5.4	3.71	.24	9.80	6.40	.20	.20	28.7
C G3	85-	2	1	5.4	3.36	.27	10.10	5.80	.20	.10	26.2

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 17	8.6
O M	17- 43	5.0
C G1	43- 65	2.1
C G2	65- 85	4.7
C G3	85-	2.6

# HAMMOND

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 14 57	REGO HUMIC GLEYSOL (1978)	%	2.0	
LONGITUDE (W):	122 35 56	STATUS:	TYPE:	COMPLEX	
PRECISION (SEC):	05	MDDAL SOIL	CLASS:	GENTLY	UNDULATING
ELEVATION (M):	6				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED: 800 METERS NORTH OF 134 AVE. ON 224 ST., MAPLE RIDGE.  
 MOTTLING IS MAINLY RESTRICTED TO ALONG OLD ROOT CHANNELS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	10.0YR3.0/3.5 MATRIX MOIST	SILT LOAM		
C G1	20- 37	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	WEAK SUBANGULAR BLOCKY PSEUDO
C G2	37- 55	GRADUAL	5.0Y5.0/3.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G3	55- 72	CLEAR	5.0Y5.0/2.5 MATRIX MOIST	LOAM	MASSIVE	
C G4	72-102	ABRUPT	5.0Y5.0/2.0 MATRIX MOIST	LOAM	MASSIVE	
II C G	102-		5.0Y5.0/1.5 MATRIX MOIST	SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	ABUNDANT	FEW FINE DISTINCT 2.5YR3.0/6.0
C G1	20- 37	FRIABLE	PLENTIFUL	COMMON FINE PROMINENT 5.0YR4.0/6.0
C G2	37- 55	FRIABLE	PLENTIFUL	COMMON FINE PROMINENT 5.0YR5.0/8.0
C G3	55- 72	FRIABLE	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR5.0/8.0
C G4	72-102	FRIABLE	FEW	FEW MEDIUM PROMINENT 7.5YR5.0/8.0
II C G	102-	LOOSE		FEW COARSE PROMINENT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 20	2	1	5.1	2	4	4.5	16.99	.48
C G1 20- 37	2	1	5.5	2	4	4.9	3.13	.17
C G2 37- 55	2	1	5.6	2	4	5.0	2.15	.14
C G3 55- 72	2	1	5.6	2	4	5.3	.06	
C G4 72-102	2	1	5.5	2	4	5.3		
II C G 102-	2	1	5.4	2	4	5.3		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C.				
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
A P 0- 20	1.59	.16	.08	.11	29.8	6.6	17.3	20.5	26.4	39.5
C G1 20- 37	1.04	.06	.09	.01	17.9	12.7	40.0	11.5	27.1	36.5
C G2 37- 55	1.17	.06	.09	.01	15.5	17.8	40.6	8.6	30.2	33.3
C G3 55- 72	.65	.06	.07	.01	8.6	30.9	71.7	8.7	25.4	26.1
C G4 72-102						40.6	98.0	9.4	26.9	31.7
II C G 102-						43.6	72.7	15.8	17.8	35.6

# HANEY

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 15 40	ORTHO MUND-FERRIC PDDZOL(1978)	% 20.0
LONGITUDE(W): 122 30 20	STATUS: MODAL SOIL	TYPE: COMPLEX
ELEVATION (M): 100		CLASS: STRONGLY ROLLING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: HUMMOCKY  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLD  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION APPROXIMATELY 1600 METERS NORTH OF HANEY CORRECTIONAL INSTITUTE, MAPLE RIDGE. PROFILE IS STRONGLY CEMENTED BELOW 2 METERS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	10- 5		CLEAR			ORGANIC	
HF	5- 0		ABRUPT	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	
A E	0- 3	1- 5	ABRUPT	5.0YR4.5/1.5 MATRIX MOIST 5.0YR6.0/1.0 MATRIX DRY		LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY
B F1	3- 25		GRADUAL	5.0YR3.0/4.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY		LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY
B F2	25- 55		DIFFUSE	5.0YR3.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY		SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY
B M	55- 95		DIFFUSE	7.5YR5.0/7.0 MATRIX MOIST		SAND GRAVELLY	SINGLE GRAIN
BC 1	95-120		DIFFUSE	2.5Y5.5/2.0 MATRIX MOIST	7.5YR5.0/8.0 MATRIX MOIST	SAND GRAVELLY	SINGLE GRAIN
BC 2	120-145		DIFFUSE	2.5Y5.5/2.0 MATRIX MOIST	7.5YR5.0/4.0 MATRIX MOIST	SAND GRAVELLY	SINGLE GRAIN
C	145-					SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
LF	10- 5			PLENTIFUL
HF	5- 0		FRIABLE	ABUNDANT
A E	0- 3	SINGLE GRAIN	VERY FRIABLE	ABUNDANT
B F1	3- 25		VERY FRIABLE	ABUNDANT
B F2	25- 55	SINGLE GRAIN	VERY FRIABLE	ABUNDANT
B M	55- 95		LOOSE	ABUNDANT
BC 1	95-120		LOOSE	PLENTIFUL
BC 2	120-145		LOOSE	PLENTIFUL
C	145-		LOOSE	FEW

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LF	10= 5	2	3.8	2	4	3.2	54.93	1.07	
HF	5= 0	2	3.6	2	4	2.8	55.39	1.07	
A E	0= 3	1	5.3	2	4	4.6	1.85	+13	
B F1	3= 25	1	5.7	2	4	4.9	3.71	+10	
B F2	25= 55	1	5.9	2	4	5.5	2.67	.04	
B M	55= 95	1	6.0	2	4	5.6			
BC 1	95=120	1	5.9	2	4	5.6			
BC 2	120=145	1	5.9	2	4	5.6			
C	145=	1	5.8	2	4	5.7			

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	10= 5	9.07	2.68	+36	2.27	100.1			
HF	5= 0	8.01	1.81	+32	1.05	121.6			
A E	0= 3	.20	.06	.04	.06	22.4	1	1.1	3
B F1	3= 25	.26	.05	.04	.05	15.9	1	0.8	3
B F2	25= 55	.15	.02	.04	.02	13.5	1	0.4	3
B M	55= 95								
BC 1	95=120						1	0.3	3
BC 2	120=145						1	0.3	3
C	145=						1	0.3	3

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)		METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT										
LF	10= 5						27.2	203.0	93.0	15.9	79.4	
HF	5= 0						17.2	22.0	52.0	11.7	45.8	
A E	0= 3	1	3.4	3	0.8		22.6	42.0	36.8	18.3	34.4	
B F1	3= 25	1	2.6	3	0.4		19.9	43.0	18.0	19.7	32.8	
B F2	25= 55	1	2.5	3	0.4		15.8	41.8	75.3	28.2	27.5	
B M	55= 95									33.5	58.9	
BC 1	95=120	1	1.8	3	0.2					27.0	35.5	41.2
BC 2	120=145	1	2.1	3	0.2					34.8	27.1	49.5
C	145=	1	1.3	3	0.2					31.3	28.5	81.5

HORIZON=DEPTH(CM.)	COARSE FRAGMENTS			
	% VOL	GRAVEL %	COBBLE %	STONE %
LF	10= 5			
HF	5= 0			
A E	0= 3			
B F1	3= 25	60	20	20
B F2	25= 55	60	20	20
B M	55= 95	80	20	30
BC 1	95=120	80	20	30
BC 2	120=145	80	20	30
C	145=	80	20	30

# HARRISON

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 11 17	ORTHIC HUMID-FERRIC PODZOL (1978)		% TYPE:	5.0 SIMPLE
LONGITUDE (W):	122 13 48			ASPECT (DEG):	270
PRECISION (SEC):	05	STATUS: MODAL SOIL			
ELEVATION (M):	30				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: HATZIC VALLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	1- 0	ABRUPT		ORGANIC		
A E	0- 2	ABRUPT	5.0YR4,0/1.0 MATRIX MOIST 5.0YR6,0/1.0 MATRIX DRY	LOAM	WEAK FINE PLATY	
B F1	2- 13	GRADUAL	7.5YR4,0/2.0 MATRIX MOIST 7.5YR5,0/5.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	13- 25	GRADUAL	7.5YR4,0/2.0 MATRIX MOIST 10.0YR4,0/4.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M	25- 32	CLEAR	7.5YR4,0/2.0 MATRIX MOIST 10.0YR5,0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN
II C 1	32- 47			SAND GRAVELLY	SINGLE GRAIN	
II C 2	47-			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIP. 1
LH	1- 0		ABUNDANT	
A E	0- 2	FRIABLE	ABUNDANT	
B F1	2- 13	FRIABLE	ABUNDANT	FEW FINE SPHERICAL
B F2	13- 25	FRIABLE	ABUNDANT	FEW FINE SPHERICAL
B M	25- 32	VERY FRIABLE	ABUNDANT	
II C 1	32- 47	LOOSE	PLENTIFUL	
II C 2	47-	LOOSE	FEW	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH	1- 0	2	2	5.2	2	4	4.7	25.29
A E	0- 2	2	1	5.4	2	4	4.4	4.29
B F1	2- 13	2	1	5.6	2	4	4.8	2.32
B F2	13- 25	2	1	5.6	2	4	4.9	1.57
B M	25- 32	2	1	5.6	2	4	5.0	1.21
II C 1	32- 47	2	1	5.6	2	4	5.1	
II C 2	47-	2	1	5.7	2	4	5.4	

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LH	1- 0	12.66	3.10	.12	1.22	72.0				119.0
A E	0- 2	.41	.03	.04	.06	13.0				57.5
B F1	2- 13	.22	.09	.03	.06	16.6	1	1.0	1	1.2
B F2	13- 25	.20	.04	.02	.04	15.9	1	.7	1	1.1
B M	25- 32	.27	.04	.02	.04	8.2	1	.2	1	.4
II C 1	32- 47							.7	1	.8
II C 2	47-							.7	1	1.4

HORIZON-DEPTH (CM.)	COARSE FRAGMENTS					
	P2 PPM.	S PPM.	% VUL	GRAVEL %	COBBLE %	STONE %
LH	1- 0	218.0				
A E	0- 2	105.0	4.5			
B F1	2- 13	427.0	9.3	10		
B F2	13- 25	163.0	11.5	10		
B M	25- 32	154.0	12.0	30		
II C 1	32- 47	118.0	9.0	65	25	20
II C 2	47-	96.0	5.5	65	25	20

# HARRISON

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 21 12	ORTHIC HUMID-FERRIC PODZOL(1978)	% TYPE: 3.0
LONGITUDE (W): 121 36 32	STATUS: MUDAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		ASPECT (DEG): 180
ELEVATION (M): 30		GENTLY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: WELL DRAINED  
 RUNOFF: SLD  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	2= 0	ABRUPT		ORGANIC		
A E	0= 2	ABRUPT	5.0YR4.0/1.0 MATRIX MOIST 5.0YR6.0/1.0 MATRIX DRY	LOAM	WEAK FINE PLATY	
B F1	2= 12	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST 7.5YR5.0/5.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	12= 25	GRADUAL	7.5YR4.0/2.0 MATRIX MOIST 10.0YR4.0/4.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M	25= 32	CLEAR	7.5YR4.0/2.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN
II C 1	32= 47	DIFFUSE		SAND GRAVELLY	SINGLE GRAIN	
II C 2	47=			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1
LH	2= 0		ABUNDANT	
A E	0= 2	FRIABLE	ABUNDANT	
B F1	2= 12	FRIABLE	ABUNDANT	FEW FINE SPHERICAL
B F2	12= 25	FRIABLE	ABUNDANT	FEW FINE SPHERICAL
B M	25= 32	VERY FRIABLE	ABUNDANT	
II C 1	32= 47	LOOSE	FEW	
II C 2	47=	LOOSE	VERY FEW	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	2= 0	2	2	5.2	25.29	.80	12.66	3.10	.12	1.22	72.0
A E	0= 2	2	1	5.4	8.29	.12	.41	.41	.03	.09	13.0
B F1	2= 12	2	1	5.6	2.32	.11	.42	.09	.03	.06	16.6
B F2	12= 25	2	1	5.6	1.57	.08	.20	.04	.02	.04	15.9
B M	25= 32	2	1	5.6	1.22	.10	.27	.04	.02	.04	8.2
II C 1	32= 47	2	1	5.6							
II C 2	47=	2	1	5.7							

HORIZON-DEPTH(CM.)	EXTRACTABLE FE(X) METHOD	RESULT	EXTRACTABLE AL(X) METHOD	RESULT	P1 DPM.	P2 DPM.	S DPM.	COARSE FRAGMENTS			
								% VDL	GRAVEL %	COBBLE %	STONE %
LH	2= 0				119.0	218.0					
A E	0= 2				57.5	105.0	4.5				
B F1	2= 12	1.0			184.0	427.0	9.3	20			
B F2	12= 25	.7			48.0	163.0	11.5	30			
B M	25= 32	.2			45.5	154.0	12.0	40			
II C 1	32= 47	.2			50.0	118.0	9.0	80	30	25	25
II C 2	47=	.7			48.0	96.0	5.5	80	30	25	25

# HATZIC

UNIT TYPE: SERIES

DATE OF SURVEY: 07 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 11 13	ORTHIC LUVIC GLEYSOL(1978)		%	1.0
LONGITUDE(W):	122 14 39			TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	4				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT. I: FLUVIAL  
 SURFACE EXPRES. I: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 800 METERS NORTH OF HATZIC LAKE.  
 THE C G1 HAS VERTICAL CRACKS 10 TO 25CM APART.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 13	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
A EG	13- 17	CLEAR	2.5Y4.0/2.0 MATRIX MOIST		SILTY CLAY	MODERATE FINE PRISMATIC
B TG	17- 32	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE TO STRONG MEDIUM TO COARSE PRISMATIC
BC	32- 40	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST		SILTY CLAY	MODERATE MEDIUM TO COARSE PRISMATIC
C G1	40- 60	DIFFUSE	2.5Y5.0/0.0 MATRIX MOIST		SILTY CLAY	MASSIVE
C G2	60-		2.5Y5.0/0.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 13		FIRM PLASTIC	ABUNDANT			
A EG	13- 17	MODERATE COARSE SUBANGULAR BLOCKY	VERY FIRM PLASTIC	ABUNDANT	COMMON FINE DISTINCT 7.5YR5.0/6.0		
B TG	17- 32		VERY FIRM VERY PLASTIC	ABUNDANT	COMMON MEDIUM PROMINENT 7.5YR5.0/6.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	32- 40		VERY FIRM VERY PLASTIC	PLENTIFUL	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	5.0YR5.0/6.0	COMMON THIN ON PED FACES- UNSPECIFIED
C G1	40- 60		VERY FIRM VERY PLASTIC	FEW	MANY MEDIUM PROMINENT 7.5YR5.0/6.0		
C G2	60-		VERY FIRM VERY PLASTIC		MANY MEDIUM PROMINENT 5.0YR4.0/8.0	7.5YR5.0/6.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 13	2	1	5.2	2	4	4.7	6.50	.54
A EG 13- 17	2	1	5.4	2	4	4.7	2.15	.21
B TG 17- 32	2	1	5.5	2	4	5.0	1.04	.11
BC 32- 40	2	1	5.7	2	4	5.2		.09
C G1 40- 60	2	1	5.8	2	4	5.4		
C G2 60-	2	1	6.0	2	4	5.5		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.
	CA	MG	NA	K				
A P 0- 13	6.77	1.47	.10	.11	39.8	12.5	50.0	15.3
A EG 13- 17	9.26	2.46	.09	.11	31.4	15.5	49.0	9.5
B TG 17- 32	4.62	3.46	.05	.09	28.7	8.0	45.0	6.0
BC 32- 40	5.04	4.51	.13	.10	28.9	9.0	44.0	6.5
C G1 40- 60	14.95	5.81	.13	.10	35.3	3.5	6.0	7.0
C G2 60-	14.94	6.53	.13	.10	29.6		9.0	6.0

# HATZIC

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 11 13  
 LONGITUDE (W): 122 14 39 URTIC LUVIC GLEYSOL(1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 4 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

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 PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-20	2	4	4.6	.88	54.4	27.7	48.9	59.1	77.9
B TG 20-43	2	4	4.9	1.00	47.7	25.8	41.5	39.6	64.3
BC 43-101	2	4	5.3	1.31	46.7	26.0	42.2	35.8	62.7
C G 101-127	2	4	5.8	1.19	46.6	14.4	51.1	28.4	48.7

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Optimum Moisture %	Particle Size %						
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry			>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm
Ap	0-20	2.42	2.61	75.2	46.5	49.5	40.0						99.0	98.0	58.0
Btg	20-43	2.56	2.74	90.6	31.5	34.1	28.0						99.5	97.0	51.0
BC	43-101	2.53	2.71		25.3	27.9							100.0	92.0	58.0
Cg	101-127	2.61	2.76		29.0	31.1							100.0	100.0	31.0



# HAZELWOOD

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: HAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 05 03  
 LONGITUDE (W): 122 16 08  
 PRECISION (SEC): 02  
 ELEVATION (M): 5

CLASSIFICATION: ORTHIC HUMIC GLEYSOL (1978)  
 STATUS: MODAL SOIL

SLOPE: 1.0  
 TYPE: COMPLEX

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 160 METERS NORTHEAST OF THE BELL-CLAYBURN RD JUNCTION, MATSQUI.

PROFILE DESCRIPTION

HORIZON DEPTH (CM)	THICKNESS	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	HEAVY CLAY	WEAK MEDIUM SUBANGULAR BLOCKY	MEDIUM GRANULAR
AB	22- 35	ABRUPT	2.5Y3.5/0.0 MATRIX MOIST 2.5Y4.5/0.0 MATRIX DRY	HEAVY CLAY	STRONG MEDIUM SUBANGULAR BLOCKY	
B GTJ	35- 60	GRADUAL	10.0YR5.0/1.0 MATRIX MOIST 2.5Y7.0/0.0 MATRIX DRY	SILTY CLAY	STRONG COARSE ANGULAR BLOCKY	COARSE SUBANGULAR BLOCKY
C G	60- 73	GRADUAL	10.0YR5.5/1.0 MATRIX MOIST 7.5Y7.0/0.0 MATRIX DRY	SILT LOAM	MASSIVE	
II C G1	73- 90	GRADUAL	10.0YR5.0/1.5 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	VERY FINE SANDY LOAM	MASSIVE	
II C G2	90-			LOAMY SAND	SINGLE GRAIN	

HORIZON DEPTH (CM)	THICKNESS	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 22	FRIABLE	ABUNDANT		
AB	22- 35	VERY FIRM	FEW		
B GTJ	35- 60	VERY FIRM	FEW	MANY MEDIUM DISTINCT 5.0YR4.0/4.0	COMMON THIN ON PED FACES- UNSPECIFIED
C G	60- 73	FIRM		MANY MEDIUM DISTINCT 5.0YR4.0/4.0	
II C G1	73- 90	FRIABLE		FEW MEDIUM DISTINCT 10.0YR5.0/6.0	
II C G2	90-	LOOSE		FEW MEDIUM DISTINCT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 22	2	1	4.8	14.67	.98	5.50	1.80	.30	.30	59.3
AB	22- 35	2	1	5.1	6.73	.32	10.10	3.60	.20	.10	39.8
B GTJ	35- 60	2	1	5.2	1.50	.10	11.80	5.20	.20	.20	30.7
C G	60- 73	2	1	5.5	.63	.06	7.10	3.60	.10	.10	17.6
II C G1	73- 90	2	1	5.7	.45	.06	4.30	2.30	.10		10.2
II C G2	90-	2	1	5.9	.63	.06	3.10	2.00	.10		7.4

HORIZON-DEPTH (CM.)	D1 PPM.	D2 PPM.	PARTICLE SIZE (%)				
			TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL	
A P	0- 22	21.3	41.0	2	35	63	17
AB	22- 35	6.3	12.0	33	67	18	
B GTJ	35- 60	4.4	11.0	1	46	53	14
C G	60- 73	4.1	21.0	23	52	25	7
II C G1	73- 90	5.4	23.0				
II C G2	90-	5.4	24.0				

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 μ)				
	>5% est.	40-6% est.	20-40% est.	<20% est.	Trace	>5% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg (60-73)			vermiculite, nontronillonite	illite, interstratified vermiculite-illite, kaolinite	plagioclase feldspars	nontronillonite			vermiculite, chlorite, illite, kaolinite, quartz	

# HAZELWOOD

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 LATITUDE (N): 49 05 03  
 LONGITUDE (W): 122 16 08 UPTIC HUMIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 5 STATUS: MUDAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1 FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VAL JE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-23	2	4	4.3	.81	57.5	32.4	44.0	67.7	88.2
B T J G 23-48	2	4	4.5	1.24	54.9	23.5	40.0	42.2	65.5
BC 48-63	2	4	4.7	1.30	49.6	26.3	46.1	40.1	66.8
C G 1 63-102	2	4	5.1	1.30	40.6	11.7	36.7	27.6	40.2
C G 2 102-127	2	4	5.2	1.38	35.5	9.7	37.4	27.4	35.7

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-23	2.28	2.48		59.5	63.0							100.0	91.0	36.0
Bgtj	23-48	2.47	2.71		35.8	39.4							100.0	100.0	57.0
BC	48-63	2.45	2.66		29.1	32.4							100.0	95.0	60.0
Cg1	63-102	2.63	2.78		28.4	30.4							99.0	85.0	16.0
Cg2	102-127	2.66	2.79		27.3	29.0							100.0	93.0	79.0

# HENDERSON

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 08 03				
LONGITUDE (W):	122 03 43	GLEVED GRAY	SRON LUVISOL(1978)	% TYPE:	3.0
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:	COMPLEX
ELEVATION (M):	8				UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 200 METERS SOUTH OF HIGHWAY 401 ON CONNOR RD., CHILLIWACK.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	CLEAR	10.0YR2.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE TO STRONG MEDIUM TO FINE SUBANGULAR BLOCKY
A M1	17- 37	GRADUAL	10.0YR2.0/1.5 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY		SILTY CLAY LOAM	WEAK FINE PRISMATIC
A M2	37- 55	CLEAR	10.0YR2.0/2.0 MATRIX MOIST 10.0YR5.0/1.5 MATRIX DRY		SILTY CLAY	WEAK MEDIUM PRISMATIC
B T	55- 73	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY		SILTY CLAY	MODERATE TO STRONG MEDIUM PRISMATIC
B TGJ	73-100	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG MEDIUM TO COARSE PRISMATIC
BC 1	100-137	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SILT LOAM	WEAK COARSE PRISMATIC
BC 2	137-155	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	WEAK COARSE PRISMATIC
C G	155-175		2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	PORES 1	MOTTLES 1	MOTTLES 2
A P	0- 17		FIRM SLIGHTLY HARD	ABUNDANT		
A M1	17- 37	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM SLIGHTLY HARD	ABUNDANT		
A M2	37- 55	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM SLIGHTLY HARD	ABUNDANT		
B T	55- 73		VERY FIRM HARD	ABUNDANT		
B TGJ	73-100		FIRM HARD	PLENTIFUL	MANY FINE PROMINENT 7.5YR5.0/6.0	
BC 1	100-137	MODERATE COARSE SUBANGULAR BLOCKY	FIRM	PLENTIFUL	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	
BC 2	137-155	MODERATE COARSE SUBANGULAR BLOCKY	FIRM	FEW	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	
C G	155-175		FIRM		MANY MEDIUM PROMINENT 5.0YR3.0/4.0	5.0YR3.0/4.0

PROFILE DESCRIPTION

HORIZON	DEPTH(CM)	THICKNESS	CLAY FILMS
A P	0- 17		
A H1	17- 37		
A H2	37- 55		
B T	55- 73		COMMON MOD. THICK IN ALL VOID AND ON ALL VERTICAL AND HORIZONTAL PED FACES
B TGJ	73-100		COMMON MOD. THICK ON PED FACES- UNSPECIFIED
BC 1	100-137		COMMON THIN ON PED FACES- UNSPECIFIED
BC 2	137-155		FEW THIN
C G	155-175		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 17	2	1	5.6	2	4	4.9	.37
A H1	17- 37	2	1	5.7	2	4	5.05	.40
A H2	37- 55	2	1	5.7	2	4	5.48	.35
B T	55- 73	2	1	5.6	2	4	4.78	.14
B TGJ	73-100	2	1	5.6	2	4	.69	.05
BC 1	100-137	2	1	5.8	2	4	.63	.03
BC 2	137-155	2	1	6.0	2	4		
C G	155-175	2	1	6.1	2	4	5.2	

EXCHANGEABLE CATIONS BUFF. (ME/100G)

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED				
	CA	MG	NA	K	D1 PPM.	D2 PPM.	S PPM.	CU PPM.	ZN PPM.
A P	13.84	2.60	.14	.16	31.2	10.7	33.8	7.5	41.4
A H1	13.88	2.73	.15	.14	35.0	9.8	18.8	9.1	40.7
A H2	9.74	2.84	.12	.10	34.3	6.4	9.8	9.7	53.7
B T	10.38	3.79	.15	.10	28.3	2.4	3.7	7.0	64.9
B TGJ	9.56	3.53	.13	.10	19.8	1.8	2.9	5.1	38.3
BC 1	9.21	3.07	.11	.07	15.2	6.1	11.6	4.9	72.7
BC 2						8.1	17.9	5.1	35.8
C G									30.6

PARTICLE SIZE(%)

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)			
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	+2U CLAY TOTAL
A P				
A H1				
A H2		53	47	14
B T		42	58	14
B TGJ	1	64	35	10
BC 1				
BC 2				
C G	7	80	13	4

# HERON

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 04 44	REGO HUMIC GLEYSOL(1978)	% TYPE: 2.0
LONGITUDE(W): 122 42 22		COMPLEX
PRECISION (SEC): 05	STATUS: MODAL SOIL	GENTLY UNDULATING
ELEVATION (M): 9		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC : SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC : CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: SOUTHEAST OF JUNCTION OF HALLS PRAIRIE AND WADE ROADS,  
 SURREY.  
 THE III C G1 CONSISTS OF ALTERNATING BANDS OF SAND AND CLAY LOAM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	5- 3	ABRUPT		ORGANIC			
F	3- 0	ABRUPT		ORGANIC			ABUNDANT
A H	0- 15	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	FINE SANDY LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
AC	15- 20	DIFFUSE	10.0YR4.0/2.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
II C G	20- 40	CLEAR	10.0YR5.0/2.0 MATRIX MOIST	SAND	SINGLE GRAIN	LOOSE	FEW
III C G1	40- 62	DIFFUSE	10.0YR5.0/2.0 MATRIX MOIST	LOAM	STRATIFIED	FRIABLE	FEW
III C G2	62-		2.5Y5.0/2.0 MATRIX MOIST	CLAY LOAM	MASSIVE	FIRM SLIGHTLY PLASTIC	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	MOTTLES 2	CONCRETION AND NODULE DESCRIPT. 1	CEMENTATION AGENT/DESCRIP.
L	5- 3				
F	3- 0				
A H	0- 15			FEW FINE SPHERICAL	
AC	15- 20				
II C G	20- 40	COMMON MEDIUM FAINT 10.0YR4.0/4.0			WEAKLY CEMENTED DISCONTINUOUS
III C G1	40- 62	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	5.0YR4.0/8.0		
III C G2	62-	COMMON MEDIUM DISTINCT			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
L	5- 3	2	4.7	30.80	3.06					
F	3- 0	2	5.0	4.35	0.34					
A H	0- 15	1	5.0	5.8	0.08	3.10	1.10	.20	.30	17.8
AC	15- 20	1	5.8	2.3	0.03	1.80	.40	.20	.10	8.1
II C G	20- 40	2	5.8	.23	.03	1.10	.20	.10	.10	5.3
III C G1	40- 62	1	5.5	.12	.02	4.50	1.80	.20	.10	10.7
III C G2	62-	1	5.4	.17	.02	7.70	5.50	.30	.20	19.0

# HERON

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 09 02	ORTHIC HUMIC GLEYSOL (1978)		TYPE:	COMPLEX
LONGITUDE (W):	122 54 39			CLASS:	GENTLY UNDULATING
PRECISION (SEC):	05	STATUS: MODAL SOIL			
ELEVATION (M):	80				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
SPEC. CLASTIC 1: SANDY GENETIC MAT. 1: MARINE SURFACE EXPRES.: VENEER	SPEC. CLASTIC 1: CLAYEY GENETIC MAT. 1: MARINE DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

THE EXCHANGEABLE CA VALUES INCLUDE MG.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
L	5- 3					
F	3- 0		ORGANIC			
A H	0- 20	2.5Y2.0/0.0 MATRIX MOIST 2.5Y5.0/2.0 MATRIX DRY	FINE SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY		FRIABLE
AC	20- 30	2.5Y3.0/2.0 MATRIX MOIST 2.5Y5.0/5.0 MATRIX DRY	LOAMY FINE SAND	MASSIVE	SINGLE GRAIN	VERY FRIABLE
B G	30- 43	2.5Y4.0/4.0 MATRIX MOIST 2.5Y6.0/4.0 MATRIX DRY	LOAMY FINE SAND	MASSIVE	SINGLE GRAIN	VERY FRIABLE
C G1	43- 58	2.5Y7.0/2.0 MATRIX MOIST 2.5Y5.5/2.0 MATRIX DRY	FINE SAND	MASSIVE		VERY FRIABLE
C G2	58- 71	2.5Y7.0/0.0 MATRIX MOIST 2.5Y8.0/2.0 MATRIX DRY	FINE SAND	SINGLE GRAIN		LOOSE
II C G	71-	2.5Y5.0/4.0 MATRIX MOIST 2.5Y8.0/4.0 MATRIX DRY	SILTY CLAY	MASSIVE		STICKY FIRM PLASTIC

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1
L	5- 3		
F	3- 0		
A H	0- 20	ABUNDANT	
AC	20- 30	ABUNDANT	
B G	30- 43	ABUNDANT	COMMON FINE DISTINCT
C G1	43- 58	FEW	FAINT
C G2	58- 71		FAINT
II C G	71-		PROMINENT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)		C. E. C. DETERMINED
						CA	K	
L	5- 3							
F	3- 0							
A H	0- 20	2	4.7	32.26	1.87	2.16	.05	48.8
AC	20- 30	2	5.7	5.57	.32	1.10	.02	26.0
B G	30- 43	2	5.9	1.62	.08	.94	.02	17.2
C G1	43- 58	2	6.1	.93	.05	.79	.03	8.6
C G2	58- 71	2	6.2	.41	.02	2.18	.03	4.8
II C G	71-	2	5.9	.06	.01	17.55	.09	41.2

HORIZON-DEPTH(CM.)	P1 DPM.
L	5- 3
F	3- 0
A H	0- 20
AC	20- 30
B G	30- 43
C G1	43- 58
C G2	58- 71
II C G	71-

# HERON

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE (N): 49 02 01		REGU HUMIC GLEYSOL(1976)	TYPE: COMPLEX
LONGITUDE (W): 122 38 55			CLASS: GENTLY UNDULATING
PRECISION (SEC): 05		STATUS: MODAL SOIL	
ELEVATION (M): 65			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC II: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR I: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR2.0/1.5 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
C G1	20- 37	CLEAR	10.0YR4.5/2.0 MATRIX MOIST		SAND	VERY WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
C G2	37- 57	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST		SAND	SINGLE GRAIN
II C G1	57- 77	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE
II C G2	77-102	DIFFUSE	10.0YR4.0/2.0 MATRIX MOIST	2.5Y4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE
II C G3	102-		10.0YR4.0/2.0 MATRIX MOIST	2.5Y4.0/2.0 MATRIX MOIST	CLAY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 20		FRIABLE	ABUNDANT		
C G1	20- 37	SINGLE GRAIN	VERY FRIABLE	PLENTIFUL	MANY COARSE DISTINCT 7.5YR4.0/4.0	
C G2	37- 57		LOOSE	FEW	MANY COARSE DISTINCT 7.5YR4.0/4.0	10.0YR4.0/4.0
II C G1	57- 77	MODERATE MEDIUM ANGULAR BLOCKY PSEUDO	VERY FIRM		COMMON MEDIUM PROMINENT 10.0YR4.0/4.0	10.0YR5.0/6.0
II C G2	77-102	STRONG MEDIUM TO COARSE ANGULAR BLOCKY PSEUDO	VERY FIRM		COMMON MEDIUM FAINT 10.0YR4.0/4.0	
II C G3	102-		VERY FIRM		COMMON MEDIUM FAINT 10.0YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0- 20	2	1	5.9	3.42	.29	13.38	1.72	.09	.19	28.2
C G1 20- 37	2	1	5.9	.23	.03	2.36	.79	.00	.05	5.1
C G2 37- 57	2	1	6.3		.03	2.56	1.58	.00	.05	5.9
II C G1 57- 77	2	1	6.1		.03	15.18	8.16	.22	.41	29.7
II C G2 77-102	2	1	6.2			14.13	8.11	.25	.41	26.6
II C G3 102-	2	1	6.5							

HORIZON-DEPTH(CM.)	D1 DPH.	D2 PDM.
A P 0- 20	59.0	117.0
C G1 20- 37	19.5	34.0
C G2 37- 57	10.0	32.0
II C G1 57- 77	16.0	52.0
II C G2 77-102	12.5	108.0
II C G3 102-		

# HJORTH

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 13 44	ORTHIC HUMIC GLEYSOL(1978)		%	2.0
LONGITUDE(W):	122 45 11			TYPE:	COMPLEX
PRECISION (SEC):	02	STATUS: MODAL SOIL		CLASS:	GENTLY UNDULATING
ELEVATION (M):	3				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED NEAR WESTERN TIP OF PITT MEADOWS.  
 II C G1 CONSISTS OF ALTERNATING THIN BANDS OF SAND AND SILT LOAM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B G	20- 42	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
BC	42- 75	CLEAR	5.0Y5.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE
II C G1	75-110	DIFFUSE	5.0Y4.5/2.0 MATRIX MOIST		SANDY LOAM	STRATIFIED
II C G2	110-		5.0Y5.0/2.0 MATRIX MOIST		COARSE SAND	STRATIFIED

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 20	FIRM	ABUNDANT		
B G	20- 42	FIRM	PLENTIFUL	COMMON FINE PROMINENT 5.0YR4.0/8.0	
BC	42- 75	FRIABLE	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/8.0	
II C G1	75-110	VERY FRIABLE		COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	5.0YR4.0/8.0
II C G2	110-	VERY FRIABLE		COMMON COARSE PROMINENT 5.0YR4.0/2.0	5.0YR4.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 20	2	1	6.0	2	4	5.6		
B G 20- 42	2	1	5.5	2	4	4.6	6.50	.49
BC 42- 75	2	1	5.6	2	4	4.8	.66	.07
II C G1 75-110	2	1	5.8	2	4	5.5		
II C G2 110-	2	1	5.1	2	4	5.2		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED					
	CA	MG	NA	K	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
A P 0- 20	15.71	.48	.96	.16	41.9	25.1	49.0	20.5	32.3	126.7
B G 20- 42	4.93	.67	.20	.10	18.3	15.4	40.7	41.5	42.1	189.8
BC 42- 75	5.53	1.28	.08	.06	13.6	11.1	30.8	30.3	40.9	66.6
II C G1 75-110						17.2	49.7	11.4	27.6	53.3
II C G2 110-						23.5	82.3	6.4	25.3	54.3



# HJORTH

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 11 45	ORTHIC HUMIC GLEYSOL(1978)	%	2.0	
LONGITUDE(W):	122 43 37		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING	
ELEVATION (M):	3				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	1- 0	ABRUPT		ORGANIC			
A H	0- 15	CLEAR	10.0YR2.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO FINE ANGULAR BLOCKY	FRIABLE	PLENTIFUL
B G	15- 40	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM ANGULAR BLOCKY	FRIABLE	FEW
C G	40- 60	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	FEW
II C G	60-		10.0YR4.0/1.0 MATRIX MOIST	SANDY LOAM	MASSIVE	VERY FRIABLE	FEW

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
L	1- 0	
A H	0- 15	
B G	15- 40	COMMON DISTINCT
C G	40- 60	MANY DISTINCT 2.5YR3.0/6.0
II C G	60-	MANY DISTINCT 2.5YR3.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE						CA	MG	NA	K	
L	1- 0										
A H	0- 15	2	1	5.4	5.52	.36	10.28	3.18	.35	.54	30.4
B G	15- 40	2	1	5.4	.89	.09	5.13	2.00	.16	.09	13.6
C G	40- 60	2	1	5.3	.73	.05	4.52	2.53	.16	.05	10.5
II C G	60-	2	1	5.3		.04					

HORIZON-DEPTH(CM.)	D1	PPM.
L	1- 0	
A H	0- 15	17.6
B G	15- 40	15.8
C G	40- 60	7.8
II C G	60-	

# HJORTH

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 11 34	ORTHC HUMIC GLEYSOL(1978)	% TYPE: 2.0
LONGITUDE(W): 122 40 53	STATUS: MODAL SOIL	COMPLEX GENTLY UNDULATING
PRECISION (SEC):		
ELEVATION (M):		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY GENETIC MAT.: FLUVIAL SURFACE EXPRES.: VENEER

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	10.0YR2.0/1.5 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B G	20- 37	CLEAR	10.0YR4.0/3.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C G1	37- 58	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G2	58- 92	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
II C G	92-		10.0YR4.0/1.0 MATRIX MOIST	LOAMY FINE SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FIRM	ABUNDANT	
B G	20- 37	FIRM	ABUNDANT	MANY FINE DISTINCT 5.0YR4.5/7.0
C G1	37- 58	FIRM	FEW	COMMON MEDIUM DISTINCT 7.5YR5.0/7.0
C G2	58- 92	FIRM	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/6.0
II C G	92-	VERY FRIABLE		MANY COARSE DISTINCT 5.0YR3.0/3.5

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0- 20	2	1	5.5	5.34	.38	4.38	2.07	.11	.40	33.3
B G 20- 37	2	1	5.9	1.51	.14	4.75	1.68	.15	.09	21.2
C G1 37- 58	2	1	6.0	.41	.05	4.67	1.32	.09	.05	11.6
C G2 58- 92	2	1	5.9			4.32	1.18	.10	.05	10.6
II C G 92-	2	1	5.8							

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
A P 0- 20	14.0	38.0
B G 20- 37	10.0	21.0
C G1 37- 58	24.5	42.0
C G2 58- 92	18.5	33.0
II C G 92-		

# HJORTH

UNIT TYPE I SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELUWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 10 18	ORTHC MUMIC GLEYSOL(1978)		%	2.0
LONGITUDE(W):	122 10 48	STATUS:	MODAL SOIL	TYPE:	COMPLEX
PRECISION (SEC):	05			CLASS:	GENTLY UNDULATING
ELEVATION (M):	7				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 17	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST	SILT LOAM	WEAK TO MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B G1	17- 21	ABRUPT	5.0Y6.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM	FEW
A MB	21- 25	ABRUPT	2.5YR2.5/0.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	FEW
B G2	25- 35	CLEAR	5.0Y5.5/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM	FEW
BC	35- 82	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	FEW
C G	82-108		5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM	

THICKNESS MOTTLES 1

HORIZON DEPTH(CM)	MOTTLES 1
A P 0- 17	
B G1 17- 21	MANY FINE DISTINCT 5.0YR5.0/8.0
A MB 21- 25	
B G2 25- 35	MANY FINE PROMINENT 5.0YR5.0/6.0
BC 35- 82	MANY MEDIUM PROMINENT 5.0YR5.0/4.0
C G 82-108	MANY MEDIUM PROMINENT 5.0YR4.5/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 17	2	1	5.0	2	4	5.2	3.13	.26
B G1 17- 21	2	1	6.1	2	4	5.3	.81	.09
A MB 21- 25	2	1	5.8	2	4	5.0	3.07	.24
B G2 25- 35	2	1	6.3	2	4	5.3	.46	.07
BC 35- 82	2	1	6.3	2	4	5.5	.35	.05
C G 82-108	2	1	5.8	2	4	5.6	.23	.05

EXCHANGEABLE CATIONS BUFF.(ME/100G)

HORIZON-DEPTH(CM.)	C. E. C.				D1 DPM.	D2 DPM.	S DPM.
	CA	MG	NA	K			
A P 0- 17	5.72	.91	.10	.14	22.1	6.7	95.0
B G1 17- 21	4.53	1.30	.09	.14	17.3	2.7	82.0
A MB 21- 25	4.97	1.53	.10	.13	24.2	5.9	67.0
B G2 25- 35	3.55	1.30	.10	.12	9.9	4.0	84.0
BC 35- 82	4.53	2.21	.16	.15	9.9	4.9	113.0
C G 82-108	6.56	3.27	.24	.24	12.7	4.8	144.0

# HJORTH

UNIT TYPE: SERIES

DATE OF SURVEY: 08 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 14 53	ORTHC HUMIC GLEYSOL (1978)		%
LONGITUDE (W):	121 50 05			TYPE:
PRECISION (SEC):		STATUS: VARIANT SOIL		CLASS:
ELEVATION (M):	12	DEVIATION: SOLUM THICKNESS		2.0 COMPLEX GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
SPEC. CLASTIC: SILTY GENETIC MAT.: FLUVIAL SURFACE EXPRES.: VENER	SPEC. CLASTIC: SANDY GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR3.0/1.5 MATRIX MOIST 10.0YR3.0/2.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B G	17- 30	CLEAR	2.5Y4.5/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	
BC	30- 42	ABRUPT	2.5Y4.5/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	
II C G1	42- 60	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	SAND	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	SINGLE GRAIN
II C G2	60- 80	DIFFUSE		SAND	SINGLE GRAIN	
II C G3	80-			COARSE SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FIRM	ABUNDANT	
B G	17- 30	FIRM	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR4.5/6.0
BC	30- 42	FIRM	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR4.5/6.0
II C G1	42- 60	LOOSE	FEW	COMMON MEDIUM DISTINCT 7.5YR5.0/6.0
II C G2	60- 80	LOOSE	FEW	
II C G3	80-	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	1	4.9	4.23	3.02	.56	.05	.08	28.3
B G	17- 30	2	1	5.6	1.04	3.32	.81	.05	.03	16.7
BC	30- 42	2	1	5.7	.35	4.62	1.16	.05	.03	12.0
II C G1	42- 60	2	1	6.0						
II C G2	60- 80	2	1	6.0						
II C G3	80-	2	1	5.7						

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.	S PPM.
A P	0- 17	81.9	139.0
B G	17- 30	315.5	588.5
BC	30- 42	273.5	424.0
II C G1	42- 60	108.0	167.5
II C G2	60- 80		4.0
II C G3	80-		4.8

# HOLLYBURN

DATE OF SURVEY: 71 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 44 59	ORTHIC HUMO-FERRIC PODZOL(1978)	% TYPE: 15.0
LONGITUDE(W): 122 29 42	STATUS: MODAL SOIL	COMPLEX STRONGLY ROLLING
PRECISION (SEC): 20		
ELEVATION (M): 1200		
<b>PARENT MATERIAL &amp; LANDFORM</b>		
<b>UPPER STRATIGRAPHIC UNIT</b>		
<b>MIDDLE STRATIGRAPHIC UNIT</b>		
GENETIC MAT.: COLLUVIAL SURFACE EXPRES. I VENEER		
GENETIC MAT.: BEDROCK		
<b>BEDROCK</b>		
TYPE: INTRUSIVE ACID	DRAINAGE: RUNOFF:	MODERATELY WELL DRAINED MEDIUM

**ADDITIONAL NOTES**

SITE LOCATION: NEAR SMALL LAKE WEST OF OBELISK PEAK.  
 CLASSIFICATION PHASE: LITHIC.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LM	5- 0	ABRUPT	5.0YR2.0/1.5 MATRIX MOIST 10.0YR3.0/1.0 MATRIX DRY	10.0YR5.0/1.0 MATRIX DRY	ORGANIC	MASSIVE
B F	0- 13	CLEAR	7.5YR3.0/2.0 MATRIX MOIST 10.0YR4.5/4.0 MATRIX DRY		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B M	13- 17	CLEAR	10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.5/3.0 MATRIX DRY		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
C	17- 30	ABRUPT	5.0Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY		LOAMY SAND	MASSIVE
R	30-					

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1
LM	5- 0	FRIABLE	ABUNDANT
B F	0- 13	FRIABLE	ABUNDANT
B M	13- 17	VERY FRIABLE	PLENTIFUL
C	17- 30	LOOSE	FEW
R	30-		

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LM 5- 0	2	2	4.5	2	4	3.9	22.21	.65
B F 0- 13	2	1	5.1	2	4	4.7	4.23	.19
B M 13- 17	2	1	5.3	2	4	5.0	1.74	.11
C 17- 30	2	1	5.5	2	4	5.4	.64	.28
R 30-								

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K			METHOD	RESULT	METHOD	RESULT
LM 5- 0										
B F 0- 13	.00	.05	.06	.03	18.8	1	1.0	3	0.6	
B M 13- 17	.31	.05	.09	.02	15.4	1	0.8	3	0.2	
C 17- 30	.80	.03	.13	.05	4.4	1	0.3	3	0.0	
R 30-										

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1	P2	S	CU	ZN	MN
	METHOD	RESULT	METHOD	RESULT	PPM	PPM	PPM	PPM	PPM	PPM
LM 5- 0										
B F 0- 13	1	2.0	3	1.3	6.1	7.4	5.8	1.0	2.0	3.0
B M 13- 17	1	1.9	3	0.8	3.2	12.3	12.6	0.8	1.9	0.0
C 17- 30	1	0.0	3	0.3	51.2	100.4	6.5	0.3	0.6	0.0
R 30-										

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS		
	% VOL	GRAVEL %	CUBBLE %
LM 5- 0			
B F 0- 13			
B M 13- 17	20	10	10
C 17- 30	20	10	10
R 30-	20	10	10

# HOOVER

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 15 20	ORTHIC HUMO-FERRIC DUDZOL (1978)	X TYPE: 35.0 SIMPLE
LONGITUDE (W): 122 18 48		
PRECISION (SEC): 05		
ELEVATION (M): 330		
STATUS: MODAL SOIL		ASPECT (DEG): 90

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MDRAINAL  
 SURFACE EXPRES.: VENEER

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NORTH END OF MCCOOMBS RD., MISSION.  
 WELL DEFINED ROOT MAT IN THE C GJ2.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	8- 0	ABRUPT					ABUNDANT
A E	0- 5	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.5 MATRIX DRY	ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
B F1	5- 9	CLEAR	7.5YR5.0/6.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B F2	9- 27	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	SANDY LOAM	MODERATE FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B F3	27- 40	CLEAR	10.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
BC GJ	40- 50	CLEAR	10.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	FEW
C GJ1	50- 67	CLEAR	5.0Y4.0/1.5 MATRIX MOIST	SANDY LOAM GRAVELLY	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY PSEUDO	FRIABLE	FEW
C GJ2	67- 75	ABRUPT	5.0Y4.0/1.5 MATRIX MOIST	SANDY LOAM GRAVELLY	MODERATE COARSE SUBANGULAR BLOCKY PSEUDO	FRIABLE	PLENTIFUL
II C GJ	75- 95	ABRUPT	5.0Y4.5/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MASSIVE	VERY FIRM	
R	95-						

HORIZON	THICKNESS DEPTH(CM)	NOTES 1
LH	8- 0	
A E	0- 5	
B F1	5- 9	
B F2	9- 27	
B F3	27- 40	
BC GJ	40- 50	COMMON FINE FAINT 7.5YR4.0/4.0
C GJ1	50- 67	MANY MEDIUM PROMINENT 5.0YR4.0/8.0
C GJ2	67- 75	MANY COARSE PROMINENT 5.0YR4.0/6.0
II C GJ	75- 95	FEW MEDIUM FAINT
R	95-	

HOOVER (Continued)

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LH	8- 0	2	3.9	2	4	3.3	57.25	1.00	
A E	0- 5	2	4.4	2	4	3.8	1.04	.04	
B F1	5- 9	1	5.5	2	4	4.7	4.38	.12	
B F2	9- 27	2	5.7	2	4	4.9	4.47	.13	
B F3	27- 40	2	5.7	2	4	5.0	4.35	.12	
BC GJ	40- 50	2	5.7	2	4	5.0	4.12	.13	
C GJ1	50- 67	1	5.7	2	4	5.1	2.73	.12	
C GJ2	67- 75	2	5.7	2	4	5.1	3.25	.14	
II C GJ	75- 95	2	6.2	2	4	5.7	.23	.01	
R	95-								

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		D1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LH	8- 0	8.93	2.02	.22	.60	119.5				72.9
A E	0- 5	.21	.04	.04	.05	5.3	1	.2	1	.2
B F1	5- 9	.32	.05	.03	.09	26.6	1	1.5	1	3.0
B F2	9- 27	.27	.05	.03	.06	26.6	1	1.0	1	3.6
B F3	27- 40	.17	.03	.03	.05	26.5	1	.8	1	3.6
BC GJ	40- 50	.12	.03	.03	.05	27.1	1	.7	1	3.4
C GJ1	50- 67	.10	.02	.03	.04	20.9	1	.7	1	3.3
C GJ2	67- 75	.10	.02	.03	.04	27.3	1	.6	1	3.6
II C GJ	75- 95	.28	.02	.03	.05	3.2	1	.3	1	3.2
R	95-									28.8

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS					
	P2 PPM.	S PPM.	% VOL	GRAVEL %	COBBLE %	STONE %
LH	8- 0	104.0				
A E	0- 5	13.0				
B F1	5- 9	51.0	4.3			
B F2	9- 27	51.0	34.5	30		
B F3	27- 40	39.0	38.0	45	25	10
BC GJ	40- 50	24.0	49.3	45	25	10
C GJ1	50- 67	24.0	49.5	55	25	15
C GJ2	67- 75	19.0	42.0	60	30	15
II C GJ	75- 95		43.5	60	30	15
R	95-					

# HOPEDALE

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 06 15  
 LATITUDE(N): 122 01 51  
 LONGITUDE(W): REGO GLEYSOL(1978)  
 PRECISION (SEC): 02  
 ELEVATION (M): 8  
 CLASSIFICATION: MODAL SOIL  
 SLOPE: 2.0  
 TYPE: COMPLEX

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 90 METERS WEST OF CORNER OF HOPEDALE AND KEITH-WILSON RDS.  
 CHILLIWACK  
 MOTTLING FROM THE II C G1 DOWN IS CONFINED MAINLY TO OLD ROOT CHANNELS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
C G1	15- 32	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM MASSIVE
C G2	32- 45	CLEAR	5.0Y5.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE
II C G1	45- 55	CLEAR	5.0Y5.0/2.0 MATRIX MOIST		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
II C G2	55- 82	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SAND	
II C G3	82-125	ABRUPT	5.0Y5.0/1.0 MATRIX MOIST		SAND	MASSIVE
C G3	125-145	ABRUPT	N4.5/0.0 MATRIX MOIST		SILT LOAM	MASSIVE
II C G4	145-175		N4.0/0.0 MATRIX MOIST		SANDY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 15		FRIABLE	ABUNDANT			
C G1	15- 32	MODERATE MEDIUM TO COARSE ANGULAR BLOCKY PSEUDO	FRIABLE	ABUNDANT	COMMON FINE FAINT		COMMON THIN ON PED FACES= UNSPECIFIED
C G2	32- 45	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO	FRIABLE	ABUNDANT	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0		COMMON THIN ON PED FACES= UNSPECIFIED
II C G1	45- 55		FRIABLE	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0		
II C G2	55- 82	SINGLE GRAIN	VERY FRIABLE	PLENTIFUL	COMMON COARSE PROMINENT 7.5YR5.0/7.0	5.0YR4.0/7.0	
II C G3	82-125		VERY FRIABLE	PLENTIFUL	COMMON COARSE PROMINENT 7.5YR4.0/4.0		
C G3	125-145		SLIGHTLY STICKY FRIABLE	FEW	FEW MEDIUM 5.0YR4.0/7.0		
II C G4	145-175		FRIABLE		COMMON MEDIUM PROMINENT 5.0YR4.0/6.0		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A P	0- 15	2	1	5.8	2	4	5.2	3.91	.27
C G1	15- 32	2	1	5.8	2	4	5.1	2.04	.16
C G2	32- 45	2	1	5.9	2	4	5.1	.79	.06
II C G1	45- 55	2	1	5.9	2	4	5.2	.60	.04
II C G2	55- 82	2	1	5.9	2	4	5.3		.03
II C G3	82-125	2	1	5.9	2	4	5.1		
C G3	125-145	2	1	5.6	2	4	5.2		
II C G4	145-175	2	1	5.5	2	4	4.9		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.					
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
A P	0- 15	9.25	1.10	.10	.12	19.7	9.4	33.2	3.6	45.2	138.2
C G1	15- 32	6.64	.79	.09	.07	15.6	26.1	58.2	3.6	39.6	122.6
C G2	32- 45	5.60	.78	.05	.05	11.3	6.0	50.5	4.6	37.4	86.5
II C G1	45- 55	3.84	.51	.07	.03	7.1	4.4	71.8	2.0	31.1	66.5
II C G2	55- 82	2.77	.54	.05	.03	4.9	5.3	65.0	1.0	28.0	56.7
II C G3	82-125									27.8	60.5
C G3	125-145									39.5	76.1
II C G4	145-175									34.1	66.5



# ISAR

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 16 16	ORTHIC REGOSOL (1978)	X 4.0
LONGITUDE (W): 122 13 30		TYPE: SIMPLE
PRECISION (SEC): 05		ASPECT (DEG): 270
ELEVATION (M): 100	STATUS: MODAL SOIL	

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: FAN

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

**ADDITIONAL NOTES**

SITE LOCATION: CASCADE CREEK FAN EAST OF SYLVESTER RD., MIRACLE VALLEY.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	6- 5	ABRUPT		ORGANIC			
M	5- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	ORGANIC	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
A HJ	0- 8	CLEAR	10.0YR4.5/2.0 MATRIX MOIST	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
II C 1	8- 32	DIFFUSE		SAND GRAVELLY	SINGLE GRAIN	LOOSE	ABUNDANT
II C 2	32- 65	DIFFUSE		SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	6- 5	2	2	5.1	2	4	4.4	54.58
M	5- 0	2	2	4.3	2	4	3.5	29.87
A HJ	0- 8	2	1	4.4	2	4	4.1	5.10
II C 1	8- 32							1.29
II C 2	32- 65							1.18

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K							
L	6- 5	50.39	2.55	.06	1.48	113.0	89.2	115.0		22.8	91.0
M	5- 0	20.13	3.44	.11	.70	82.9	53.1	77.0		22.2	61.6
A HJ	0- 8	1.50	.21	.07	.16	22.4	17.6	30.0	14.2	27.2	51.8
II C 1	8- 32					5.4	13.1	21.0	2.5	23.0	39.1
II C 2	32- 65					4.0	3.8	23.0	8.2	26.5	41.6

**COARSE FRAGMENTS**

HORIZON-DEPTH (CM.)	% VOL	GRAVEL %	COBBLE %	STONE %
L	6- 5			
M	5- 0			
A HJ	0- 8			
II C 1	8- 32	80	30	25
II C 2	32- 65	80	30	25

# ISAR

DATE OF SURVEY: 66 SURVEYOR: MAL KELUANA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 21 57	ORTHIC REGOSOL (1978)	% TYPE: 2.0
LONGITUDE (W): 121 28 15	STATUS: MODAL SOIL	SIMPLE GENTLY SLOPING
PRECISION (SEC): 05		CLASS: 360
ELEVATION (M): 30		ASPECT (DEG): 360

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LF	3- 0	ABRUPT		ORGANIC		
C 1	0- 17	CLEAR	10.0YR4.0/2.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	LOAMY FINE SAND	WEAK MEDIUM SUBANGULAR BLOCKY	SINGLE GRAIN
C 2	17- 35	DIFFUSE	10.0YR4.0/3.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	SAND GRAVELLY	SINGLE GRAIN	
C 3	35- 60	DIFFUSE		COARSE SAND GRAVELLY	SINGLE GRAIN	
C 4	60-			COARSE SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1
LF	3- 0		
C 1	0- 17	VERY FRIABLE	ABUNDANT
C 2	17- 35	LOOSE	ABUNDANT
C 3	35- 60	LOOSE	PLENTIFUL
C 4	60-	LOOSE	FEW

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LF	3- 0	2	5.2	38.92	.86	23.54	3.85	.12	2.37	89.7
C 1	0- 17	2	5.7	1.86	.07	1.27	.23	.03	.11	11.7
C 2	17- 35	2	5.7	.75	.03	.29	.04	.02	.07	5.8
C 3	35- 60	2	5.7			.16	.02	.02	.05	3.5

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.	COARSE FRAGMENTS			
			% VOL	GRAVEL %	COBBLE %	STONE %
LF	3- 0	81.9	139.0			
C 1	0- 17	315.5	588.5	40	20	10
C 2	17- 35	273.5	424.0	80	30	25
C 3	35- 60	106.0	167.5	90	30	30
C 4	60-					

# ISAR

DATE OF SURVEY: 63 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 URTHIC REGOSOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLO  
 PERVIOUSNESS: RAPID

\*\*\*\*\*  
 PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	5-	ABRUPT					
C 1	0- 10	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT FINE
C 2	10- 33	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	FEW
C 3	33-			SAND GRAVELLY		LOOSE	FEW

THICKNESS FIELD PH  
 HORIZON DEPTH(CM)

LH	5-	
C 1	0- 10	MEDIUM ACID
C 2	10- 33	MEDIUM ACID
C 3	33-	

PHYSICAL & CHEMICAL DATA  
 -----

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	% VOL	GRAVEL %	COBBLE %
LH	5-		
C 1	0- 10	10	
C 2	10- 33	20	
C 3	33-	30	20 10

# JUDSON

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE (N):	49 00 12		
LONGITUDE (W):	122 21 15	TERRIC MESISOL (1978)	
PRECISION (SEC):	05		
ELEVATION (M):	48	STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
GENETIC MAT.: ORGANIC	SPEC. CLASTIC II SILTY
SURFACE EXPRES.: VENEER	GENETIC MAT.: EOLIAN
DESCRIPTOR II: FEN	

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 200 METERS EAST OF TOWNLINE RD ON 49TH PARALLEL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O HP	115- 97	GRADUAL	2.5YR2.0/2.0 MATRIX MOIST		ORGANIC MUCKY	WEAK COARSE SUBANGULAR BLOCKY
O H	97- 80	DIFFUSE	2.5YR3.0/2.0 MATRIX MOIST	2.5YR3.0/2.0 MATRIX MOIST	ORGANIC MUCKY	
O M1	80- 42	DIFFUSE	7.5YR3.0/2.0 MATRIX MOIST		ORGANIC MUCKY	
O M2	42- 0	ABRUPT	7.5YR4.0/2.0 MATRIX MOIST	7.5YR4.0/4.0 MATRIX MOIST	ORGANIC MUCKY	
II C G	0-+		10.0YR5.0/1.0 MATRIX MOIST		SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	FIELD PH
O HP	115- 97	FRIABLE	ABUNDANT		EXTREMELY ACID
O H	97- 80	FRIABLE	PLENTIFUL		EXTREMELY ACID
O M1	80- 42	FRIABLE	FEW		EXTREMELY ACID
O M2	42- 0	FRIABLE	FEW		EXTREMELY ACID
II C G	0-+	FIRM		FEW FINE 10.0YR5.0/4.0	

# KATZIE

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 09 28	ORTHC MUMIC GLEYSOL (1978)	% TYPE: 3.0 COMPLEX
LONGITUDE (W): 122 35 17		
PRECISION (SEC): 02		
ELEVATION (M): 3		
STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1 FLUVIAL  
 SURFACE EXPRES. 1 LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: NEAR SALMON RIVER, SOUTH OF FT LANGLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR3.5/1.0 MATRIX MOIST	10.0YR2.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A H	20- 37	ABRUPT	10.0YR2.5/2.0 MATRIX MOIST	10.0YR3.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY
B G	37- 55	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	10.0YR4.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE COARSE PRISMATIC
C G1	55- 80	DIFFUSE	5.0Y5.0/1.5 MATRIX MOIST		SILTY CLAY	MASSIVE
C G2	80-105	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SILTY CLAY	MASSIVE
C G3	107-		5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 20	MODERATE MEDIUM GRANULAR	FRIABLE	ABUNDANT		
A H	20- 37		FIRM	ABUNDANT		
B G	37- 55		VERY FIRM	PLENTIFUL	COMMON FINE DISTINCT 7.5YR5.0/7.0	
C G1	55- 80		VERY FIRM	FEW	MANY FINE PROMINENT 7.5YR5.0/6.0	
C G2	80-105		VERY FIRM			COMMON MEDIUM PROMINENT 7.5YR5.0/6.0
C G3	107-		VERY FIRM			MANY MEDIUM PROMINENT 7.5YR5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P 0- 20	2	1	1	5.5	0.24	.75	7.29	1.10	.14	.23	50.2
A H 20- 37	2	1	1	6.5	2.90	.22	7.34	2.13	.14	.07	38.1
B G 37- 55	2	1	1	5.7	.64	.07	9.81	4.56	.17	.08	24.4
C G1 55- 80	2	1	1	5.9	.50	.05	12.67	6.16	.30	.10	29.3
C G2 80-105	2	1	1	6.1			11.44	8.27	.20	.10	27.5
C G3 107-	2	1	1	6.3			11.96	7.56	.20	.10	28.2

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
A P 0- 20	16.7	33.0
A H 20- 37	12.2	18.0
B G 37- 55	6.1	9.0
C G1 55- 80	6.8	11.0
C G2 80-105	7.8	35.0
C G3 107-	7.8	28.0

# KENNEDY

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYDR: HAL KELDONNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 00 16	PODZOLIC GRAY LUVISOL (1978)	%
LONGITUDE (W): 122 12 18		
PRECISION (SEC): 05		
ELEVATION (M): 9		
	STATUS: VARIANT SOIL	9.0 COMPLEX

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: RIDGED

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 400 METERS SOUTH OF THE SOUTH END OF FADDEN RD., SUMAS.  
 THE II AE 3 CONTAINS A TOTAL OF 10 CM OF II BT 3 AS THIN LAMELLAE.  
 THE II AE 4 CONTAINS A TOTAL OF 20 CM OF II BT 4 AS THIN LAMELLAE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A H	0- 2			FINE SANDY LOAM		
B F	2- 30	GRADUAL	7.5YR4.0/3.0 MATRIX MOIST 10.0YR5.0/5.0 MATRIX DRY	FINE SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
A E	30- 50	CLEAR	10.0YR4.5/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	FINE SANDY LOAM	WEAK TO MODERATE FINE SUBANGULAR BLOCKY	
II A E1	50- 62	ABRUPT	10.0YR4.0/2.5 MATRIX MOIST 10.0YR6.0/2.5 MATRIX DRY	FINE SAND	SINGLE GRAIN	
II B T1	62- 67	ABRUPT	10.0YR3.5/3.5 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	
II B T1	62- 67	ABRUPT	10.0YR3.5/3.5 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN
II B T2	90- 95	ABRUPT	10.0YR3.5/3.5 MATRIX MOIST	LOAMY SAND	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	
II A E3	95-145	ABRUPT		SAND	SINGLE GRAIN	
II B T3	10-		10.0YR3.0/2.0 MATRIX MOIST 10.0YR4.0/4.0 MATRIX DRY	LOAMY SAND	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	
II A E4	145-250	ABRUPT		SAND	SINGLE GRAIN	
II B T4	20-		10.0YR3.0/2.0 MATRIX MOIST 10.0YR4.0/4.0 MATRIX DRY	LOAMY SAND	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	
II C	360-+			SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIP. 1
A H	0- 2			
B F	2- 30	VERY FRIABLE	ABUNDANT	
A E	30- 50	FRIABLE SLIGHTLY HARD	ABUNDANT	FE FINE SPHERICAL
II A E1	50- 62	VERY FRIABLE SOFT	ABUNDANT	
II B T1	62- 67	FRIABLE HARD	PLENTIFUL	
II B T1	62- 67	VERY FRIABLE SOFT	PLENTIFUL	
II B T2	90- 95	FRIABLE HARD	PLENTIFUL	
II A E3	95-145	LOOSE	FE*	
II B T3	10-	FRIABLE HARD	FE*	
II A E4	145-250	LOOSE		
II B T4	20-	FRIABLE HARD		
II C	360-+	LOOSE		

KENNEDY (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CH.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A H	0- 2								
B F	2- 30	2	1	5.7	2	4	4.9	2.52	.14
A E	30- 50	2	1	6.2	2	4	5.4	.42	.03
II A E1	50- 62	2	1	6.1	2	4	5.4	.43	.03
II B T1	62- 67	2	1	6.3	2	4	5.4	.36	.03
II B T1	62- 67	2	1	6.3	2	4	5.6		.02
II B T2	90- 95	2	1	6.5	2	4	5.7		.03
II A E3	95-145	2	1	6.4	2	4	5.8		
II B T3	10-	2	1	6.5	2	4	5.9		
II A E4	145-250	2	1	6.5	2	4	5.8		
II B T4	20-	2	1	6.4	2	4	5.9		
II C	360-+	2	1	6.5	2	4	5.9		

  

HORIZON-DEPTH(CH.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT		
A H	0- 2								
B F	2- 30	4.08	1.43	.08	.12	14.6	1.1	J	.4
A E	30- 50	3.53	2.29	.14	.05	8.4	1.0	J	.1
II A E1	50- 62	4.33	2.11	.10	.05	6.8	1.0	J	.1
II B T1	62- 67	4.56	3.95	.12	.07	10.6	1.8	J	.1
II B T1	62- 67	2.72	3.13	.07	.05	6.6	.8	J	.1
II B T2	90- 95	3.34	4.84	.09	.11	9.5	1.3	J	.1
II A E3	95-145						.9	J	.1
II B T3	10-						1.3	J	.1
II A E4	145-250						.1	J	.0
II B T4	20-						1.2	J	.1
II C	360-+						.8	J	.1

  

HORIZON-DEPTH(CH.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
	METHOD	RESULT	METHOD	RESULT						
A H	0- 2									
B F	2- 30	1	1.0	3	.4	6.2	13.7	1.3	19.4	101.9
A E	30- 50	1	.7	3	.1	.5	14.3		20.9	59.3
II A E1	50- 62	1	.8	3	.1	1.7	18.1	.8	14.6	42.0
II B T1	62- 67	1	.8	3	.1	1.5	20.5	1.3	27.1	48.9
II B T1	62- 67	1	.6	3	.1	1.8	45.9		18.6	41.1
II B T2	90- 95	1	.6	3	.0	1.3	36.3		24.5	44.2
II A E3	95-145	1	.4	3	.1				16.1	36.2
II B T3	10-	1	.6	3	.0				23.5	48.2
II A E4	145-250	1	.5	3	.0				15.6	41.0
II B T4	20-	1	.7	3	.0				21.7	46.0
II C	360-+	1	.4	3					13.8	39.4

# KENWORTHY

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION ----- LATITUDE(N): 49 12 23 LONGITUDE(W): 122 17 59 PRECISION (SEC): 05 ELEVATION (M): 300	CLASSIFICATION ----- ORTHIC HUMO-FERRIC PODZOL(1978) STATUS: MODAL SOIL	SLOPE ----- % TYPE: 80.0 SIMPLE ASPECT (DEG): 45
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PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES  
 -----

SITE LOCATION: PLOT #17 NORTHEAST CORNER OF MISSION TREE FARM.

PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
L	9- 8	ABRUPT		ORGANIC		
HF	8- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	ORGANIC		
A HEJ	0- 1	ABRUPT	5.0YR3.0/2.0 MATRIX MOIST 10.0YR4.0/2.5 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B HF	1- 5	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F1	5- 25	GRADUAL	5.0YR4.0/5.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	25- 62	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
BC 1	62- 80	ABRUPT	10.0YR4.0/4.0 MATRIX MOIST 7.5YR5.5/4.0 MATRIX DRY	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
BC 2	80- 90	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SANDY LOAM	MASSIVE	SINGLE GRAIN
BC 3	90-122	ABRUPT	10.0YR4.0/3.5 MATRIX MOIST 10.0YR4.0/4.0 MATRIX DRY	LOAM	MASSIVE	SINGLE GRAIN
C GJ	122-			SANDY LOAM GRAVELLY	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1
L	9- 8				
HF	8- 0		ABUNDANT		
A HEJ	0- 1	VERY FRIABLE	ABUNDANT		
B HF	1- 5	FRIABLE	PLENTIFUL		FEW FINE SPHERICAL
B F1	5- 25	FRIABLE	PLENTIFUL		FEW FINE SPHERICAL
B F2	25- 62	FRIABLE	ABUNDANT		
BC 1	62- 80	FRIABLE	PLENTIFUL		
BC 2	80- 90	FRIABLE	PLENTIFUL		
BC 3	90-122	FRIABLE	PLENTIFUL	FEW FINE	
C GJ	122-	VERY FRIABLE	FEW	COMMON MEDIUM DISTINCT 5.0YR5.0/8.0	



KENWORTHY (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	9= 8	2	4.7	2	4	4.2	58.00	1.37
HF	8= 0	2	4.3	2	4	3.5	51.74	1.38
A HEJ	0= 1	1	4.8	2	4	4.2	8.53	.31
B HF	1= 5	1	5.3	2	4	4.6	6.84	.27
B F1	5= 25	1	5.7	2	4	5.1	2.49	.10
B F2	25= 62	1	5.6	2	4	5.4	3.02	.12
BC 1	62= 80	1	6.0	2	4	5.4	5.15	.08
BC 2	80= 90	1	5.9	2	4	5.4	3.07	.11
BC 3	90= 122	1	6.0	2	4	5.5	2.49	.08
C GJ	122=	1	6.0	2	4	5.6	2.67	.11

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L	9= 8	15.31	2.40	.17	1.62					33.7
HF	8= 0	8.18	.92	.23	.60					11.7
A HEJ	0= 1	4.04	.25	.11	.10	1	.8	1	.4	.9
B HF	1= 5	1.35	.11	.07	.08	1	1.1	1	1.9	3.8
B F1	5= 25	.49	.04	.04	.04	1	.9	1	2.4	3.8
B F2	25= 62	.22	.03	.05	.04	1	.9	1	2.7	3.1
BC 1	62= 80	.43	.04	.06	.05	1	.9	1	2.5	1.2
BC 2	80= 90	.83	.06	.07	.07	1	1.0	1	3.6	2.8
BC 3	90= 122	.79	.05	.07	.06	1	.9	1	3.0	1.5
C GJ	122=					1	1.1	1	5.2	3.6

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS								
	P2 PPM.	S PPM.	% VOL	GRAVEL %	KIND	COBBLE %	KIND	STONE %	KIND
L	9= 8	46.0							
HF	8= 0	20.0							
A HEJ	0= 1	78.0	6.0						
B HF	1= 5	8.0	16.3	20	2				
B F1	5= 25	6.0	22.0	20	2				
B F2	25= 62	11.0	58.8	30	2				
BC 1	62= 80	11.0	98.8	35	2	10		10	2
BC 2	80= 90	11.0	110.0	85	2	30		30	2
BC 3	90= 122	19.0	108.3	80	2	30		30	2
C GJ	122=	26.0	97.0	85	2	30		30	2

# KEYSTONE

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 11 05	DURIC HUMD-FERRIC PODZOL(1978)	%	5.0
LONGITUDE (W):	122 22 28		TYPE:	SIMPLE
PRECISION (SEC):	05			
ELEVATION (M):	140	STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: EAST END OF SCHOOL RD., MISSION.  
 WELL DEVELOPED ROOT MAT IN LOWER PART OF II B GJ.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LF	6- 3	ABRUPT		ORGANIC		
M	3- 0	ABRUPT	7.5YR2.0/0.0 MATRIX MOIST	ORGANIC		
A E	0- 4	ABRUPT	10.0YR4.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F1	4- 8	CLEAR	5.0YR3.0/2.5 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B F2	8- 15	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	LOAM	MODERATE FINE SUBANGULAR BLOCKY	
B F3	15- 25	CLEAR	5.0YR3.5/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B F4	25- 30	ABRUPT	5.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
II B M	30- 52	GRADUAL		SAND GRAVELLY	SINGLE GRAIN	
II B GJ	52- 70	ABRUPT		SAND GRAVELLY	SINGLE GRAIN	
II B C	70-			SAND GRAVELLY	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCRIP. 1	CEMENTATION AGENT/DESCRIP.
LF	6- 3					
M	3- 0		ABUNDANT			
A E	0- 4	VERY FRIABLE	PLENTIFUL			
B F1	4- 8	FRIABLE	ABUNDANT		FEW MEDIUM SPHERICAL	
B F2	8- 15	FRIABLE	ABUNDANT		FEW MEDIUM SPHERICAL	
B F3	15- 25	FRIABLE	PLENTIFUL		NONE FINE SPHERICAL	
B F4	25- 30	VERY FRIABLE	FEW			
II B M	30- 52	LOOSE	FEW	COMMON FINE FAINT		
II B GJ	52- 70	LOOSE	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR5.0/8.0		
II B C	70-	VERY FIRM				STRONGLY CEMENTED CONTINUOUS

KEYSTONE (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CH.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF	6- 3	2	4.2	2	4	3.9	57.19	1.30
H	3- 0	2	3.9	2	4	3.9	52.37	1.38
A E	0- 4	2	4.5	2	4	3.7	1.57	.09
B F1	4- 8	1	5.3	2	4	4.6	4.06	.21
B F2	8- 15	1	5.6	2	4	4.9	3.82	.15
B F3	15- 25	1	5.7	2	4	5.2	2.15	.10
B F4	25- 30	1	5.8	2	4	5.3	1.28	.07
II B H	30- 52	1	5.9	2	4	5.3	.64	.02
II B GJ	52- 70	1	6.0	2	4	5.6	.41	.02
II B C	70-	1	6.0	2	4	5.3	.41	.02

HORIZON-DEPTH(CH.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)		EXTRACTABLE AL(X)		DI PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LF	6- 3	17.24	4.39	.20	2.47	126.5				65.2
H	3- 0	9.52	3.78	.30	2.17	136.2				65.2
A E	0- 4	.50	.23	.05	.11	11.9	1	.3	1	29.9
B F1	4- 8	.33	.10	.04	.11	28.3	1	1.6	1	76.6
B F2	8- 15	.27	.06	.03	.06	28.4	1	1.6	1	13.7
B F3	15- 25	.24	.05	.03	.05	19.5	1	1.3	1	8.8
B F4	25- 30	.22	.04	.03	.04	12.2	1	1.0	1	12.2
II B H	30- 52	.20	.03	.03	.02	4.7	1	.4	1	59.0
II B GJ	52- 70	.16	.02	.03	.03	4.9	1	.5	1	47.3
II B C	70-	.15	.02	.03	.07	3.5	1	.4	1	56.9

HORIZON-DEPTH(CH.)	COARSE FRAGMENTS		
	P2 PPM.	S PPM.	% VOL
LF	6- 3		
H	3- 0	123.0	
A E	0- 4	41.0	4.8
B F1	4- 8	167.0	23.8
B F2	8- 15	46.0	17.5
B F3	15- 25	46.0	27.8
B F4	25- 30	42.0	41.5
II B H	30- 52	185.0	7.8
II B GJ	52- 70	122.0	44.3
II B C	70-	170.0	7.0

# KITTER

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 05 47			
LONGITUDE(W):	122 55 19	ORTHIC GLEYSOL(1978)	%	3.0
PRECISION (SEC):	02		TYPE:	COMPLEX
ELEVATION (M):	2	STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 800 METERS WEST AND 100 METERS SOUTH OF LADNER TRUNK AND OLIVER RDS INTERSECTION, DELTA. C G1 AND C G2 HAVE WIDELY SPACED VERTICAL CRACKS. IN THE C G3 THERE ARE HARD, BROWNISH TUBULES AROUND SOME OLD ROOT CHANNELS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR3.5/2.5 MATRIX MOIST 10.0YR4.5/4.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY
B TJG	20- 37	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST 10.0YR5.0/2.2 MATRIX DRY	5.0Y5.0/2.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM PRISMATIC
B G	37- 50	CLEAR	2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM PRISMATIC
C G1	50- 62	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	WEAK STRATIFIED
C G2	62- 87	DIFFUSE	2.5Y4.0/2.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
C G3	87-112		2.5Y4.0/2.0 MATRIX MOIST	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 20		FRIABLE	ABUNDANT			
B TJG	20- 37	MODERATE MEDIUM ANGULAR BLOCKY	FIRM HARD	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR3.5/5.0		COMMON THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL RED FACES
B G	37- 50	WEAK MEDIUM SUBANGULAR BLOCKY	FIRM	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR3.5/5.0		
C G1	50- 62		FRIABLE	FEW	COMMON MEDIUM DISTINCT 7.5YR4.5/5.0		
C G2	62- 87		FRIABLE	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/5.0		
C G3	87-112		FRIABLE		COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	6.0	2	4	5.2	3.36
B TJG	20- 37	2	1	5.8	2	4	5.1	1.04
B G	37- 50	2	1	5.6	2	4	4.8	1.04
C G1	50- 62	2	1	5.1	2	4	4.4	1.62
C G2	62- 87	2	1	4.4	2	4	3.8	
C G3	87-112	2	1	3.8	2	4	3.6	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K						
A P	0- 20	12.78	1.80	.16	.27	22.3	11.8	85.0	5.2	58.3
B TJG	20- 37	6.40	3.51	.20	.22	16.3	7.2	85.1	18.1	61.9
B G	37- 50	3.50	4.42	.33	.22	16.9	13.4	90.0	63.8	63.5
C G1	50- 62	2.28	3.67	.37	.22	17.3	12.0	101.4	12.7	74.1
C G2	62- 87						8.6	44.6	99.8	57.0
C G3	87-112						14.6	40.8	54.0	51.8

# KITTER

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELONNA, B.C.M.A. & R.A.H.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 05 23	ORTHC GLEYSOL (1978)	%	2.0
LONGITUDE (W):	122 51 05		TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
 GENETIC MAT. IS FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

THE B G HORIZON WHEN DRY HAS CRACKS 2CM WIDE EVERY 25CM WHICH EXTEND VERTICALLY THROUGH THE HORIZON. THE C G1 IS FINELY STRATIFIED WITH SAND.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	10.0YR4.0/2.5 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY	FRIABLE HARD	PLENTIFUL FINE
B G	20- 40	CLEAR	5.0Y4.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILT LOAM	WEAK COARSE SUBANGULAR BLOCKY	FIRM HARD	PLENTIFUL
C G1	40- 58		10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	FINE STRATIFIED	FRIABLE HARD	FEW
C G2	58-100		10.0YR6.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	FRIABLE	VERY FEW
C G3	100-		10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE		

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
A P	0- 20	FEW FAINT 10.0YR5.0/6.0
B G	20- 40	MANY PROMINENT
C G1	40- 58	COMMON DISTINCT
C G2	58-100	COMMON 10.0YR5.0/6.0
C G3	100-	PROMINENT 5.0Y7.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 20	2	1	5.9	3.93	.33	9.59	3.12	.23	.23	26.0
B G	20- 40	2	1	5.9	1.37	.12	5.66	4.59	.21	.21	18.0
C G1	40- 58	2	1	4.7	2.67	.22	1.10	1.60	.16	.07	20.9
C G2	58-100	2	1	3.6	2.31	.17	.81	1.35	.17	.12	19.8
C G3	100-										

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHOS/CM)	PI PPM.
A P	0- 20	.30
B G	20- 40	.27
C G1	40- 58	.36
C G2	58-100	2.27
C G3	100-	19.1

# KITTER

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 05 33	ORTHIC GLEYSOL(1978)	%	2.0	
LONGITUDE(W):	122 54 54		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING	
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
A P	0- 25	2.5Y5.0/2.0 MATRIX DRY	SILT LOAM	WEAK FINE TO COARSE SUBANGULAR BLOCKY		FRIABLE
B G1	25- 47	10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	COARSE PRISMATIC	WEAK FINE SUBANGULAR BLOCKY	NON STICKY FRIABLE SLIGHTLY PLASTIC
BC	47- 60	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	WEAK STATIFIED	FRIABLE
C G1	60-100	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	WEAK STATIFIED	FRIABLE
C G2	100-	10.0YR4.0/1.0 MATRIX MOIST	VERY FINE SANDY LOAM	MASSIVE	WEAK STATIFIED	VERY FRIABLE

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 25	ABUNDANT		
B G1	25- 47	PLENTIFUL	COMMON PROMINENT 7.5YR4.0/4.0	5.0YR3.0/4.0
BC	47- 60	VERY FEW FINE	COMMON DISTINCT 7.5YR4.0/4.0	
C G1	60-100	VERY FEW FINE	FEW FAINT	
C G2	100-		FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 25	2	1	5.2	5.93	.35	6.20	5.00	.23	.34	26.3
B G1	25- 47	2	1	5.6	.66		4.25	6.02	.35	.18	16.1
BC	47- 60	2	1	5.0	.99	.02	.67	2.97	.26	.09	14.7
C G1	60-100	2	1	4.2	1.78		1.54	.32	.21	.13	19.4
C G2	100-	2	1	3.6	1.30		1.72	1.46	.47	.30	8.1

HORIZON-DEPTH(CM.)	D1 DPM.	
A P	0- 25	19.8
B G1	25- 47	2.8
BC	47- 60	2.8
C G1	60-100	12.4
C G2	100-	8.8

# LADNER

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 04 07			
LONGITUDE (W):	123 02 48	HUMIC LUVIC GLEYSOL (1978)	X	1.0
PRECISION (SEC):	05			
ELEVATION (M):	2	STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
 GENETIC MAT. IS FLUVIAL  
 SURFACE EXPRES. IS LEVEL

DRAINAGE: POORLY DRAINED INED

ADDITIONAL NOTES

SITE LOCATION: 100 METERS WEST OF THE GOUDY RD = 36TH AVE.  
 INTERSECTION, DELTA.  
 ORGANIC STAINING IN THE AB AND B TG2. THIN LENSES OF FINE SAND IN C G AND  
 THERE ARE HARD REDDISH BROWN TUBULES AROUND OLD ROOT CHANNELS IN C GS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST		SILT LOAM	MODERATE FINE SUBANGULAR BLOCKY
A EGJ	15- 20	CLEAR	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	STRONG MEDIUM ANGULAR BLOCKY
AB	20- 25	CLEAR	5.0Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE TO STRONG MEDIUM PRISMATIC
B TG1	25- 42	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE TO MEDIUM PRISMATIC
B TG2	42- 57	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST		SILT LOAM	STRONG COARSE PRISMATIC
BC	57- 75	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST		SILT LOAM	MODERATE COARSE TO MEDIUM PRISMATIC
C G	75-100	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	PLATY PSEUDO
C GS	100-		5.0Y4.0/1.0 MATRIX MOIST		SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 15		FIRM	ABUNDANT			
A EGJ	15- 20		STICKY VERY FIRM	ABUNDANT	COMMON MEDIUM DISTINCT		
AB	20- 25	STRONG MEDIUM ANGULAR BLOCKY	VERY FIRM SLIGHTLY PLASTIC	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR3.5/5.0		
B TG1	25- 42		VERY FIRM PLASTIC	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR3.5/4.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
B TG2	42- 57		VERY FIRM PLASTIC	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR3.5/4.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	57- 75		VERY FIRM SLIGHTLY PLASTIC	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/5.0		
C G	75-100		FIRM	FEW	COMMON MEDIUM PROMINENT 5.0YR5.0/6.0	5.0YR4.0/4.0	
C GS	100-		FIRM		COMMON MEDIUM DISTINCT 5.0Y7.0/4.0		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0=15	2	1	5.6	2	4	4.7	10.85	.77
A EGJ 15=20	2	1	6.0	2	4	4.9	1.80	.14
AB 20=25	2	1	5.9	2	4	5.0	1.04	.10
B TG1 25=42	2	1	6.3	2	4	5.4	.75	.08
B TG2 42=57	2	1	6.1	2	4	5.4		
BC 57=75	2	1	4.9	2	4	4.2		
C G 75=100	2	1	4.2	2	4	3.9		
C GS 100=	2	1	3.5	2	4			

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K						
A P 0=15	1.06	7.37	.22	1.45	36.3	52.6	136.8	32.9	28.9	
A EGJ 15=20	5.59	6.33	.15	1.29	18.0	4.1	156.7	14.1	12.8	
AB 20=25	4.73	7.30	.25	1.13	18.5	3.9	164.4	16.7	16.7	
B TG1 25=42	5.37	9.66	.45	.86	21.3	6.8	156.7	16.7	30.3	
B TG2 42=57	5.02	10.70	.43	.82	21.1	1.2	187.8	38.0	36.7	
BC 57=75	1.31	5.98	.64	.50	18.3	1.7	194.9	75.6	48.7	
C G 75=100	1.90	7.17	.62	.31	18.4		107.6	100.0	44.8	
C GS 100=	2.92	5.22	2.86	.62	34.5	5.60	52.1	96.5	100.0	36.5

HORIZON=DEPTH(CM.)	ZN PPM.	PARTICLE SIZE (%)			
		TOTAL SAND	62=2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL
A P 0=15	51.3	5	68	27	7
A EGJ 15=20	76.9	5	72	23	8
AB 20=25	75.8				
B TG1 25=42	86.1	4	69	27	10
B TG2 42=57	96.5	12	65	23	8
BC 57=75	123.1				
C G 75=100	85.8	11	67	22	9
C GS 100=	73.0				

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Traco	>6% est.	40-6% est.	20-40% est.	<20% est.	Traco
Cg (75-100)	montmorillonite	nica	vermiculite, interstratified vermiculite-chlorite	chlorite, quartz, plegoclase feldspars		montmorillonite		chlorite, mica, quartz		kaolinite, interstratified vermiculite-chlorite



# LADNER

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 03 48	HUMIC LUVIC GLEYSOL(1978)	% TYPE: .5
LONGITUDE(W): 123 07 28		COMPLEX
PRECISION (SEC): 05	STATUS: MODAL SOIL	CLASS: GENTLY UNDULATING
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

HARD TUBULES AROUND OLD ROOT CHANNELS IN C G2 AND C G3.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CH)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	
B TG	17- 33	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY	MODERATE COARSE PRISMATIC	COARSE ANGULAR BLOCKY
BC	33- 47	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY	WEAK COARSE ANGULAR BLOCKY	
C G1	47- 75		4.0Y5.0/1.5 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
C G2	75-105		10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	
C G3	105-		2.5Y4.0/0.0 MATRIX MOIST 2.5Y6.0/0.0 MATRIX DRY	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CH)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE HARD	ABUNDANT FINE	
B TG	17- 33	STICKY FIRM PLASTIC	PLENTIFUL FINE	COMMON MEDIUM DISTINCT 7.5YR4.0/4.0
BC	33- 47	SLIGHTLY STICKY FRIABLE PLASTIC	FEW	COMMON MEDIUM DISTINCT 10.0YR4.0/4.0
C G1	47- 75	SLIGHTLY STICKY FRIABLE SLIGHTLY PLASTIC	VERY FEW	MANY DISTINCT 10.0YR5.0/6.0
C G2	75-105	SLIGHTLY STICKY FRIABLE PLASTIC		FAINT 2.5Y5.0/4.0
C G3	105-			PROMINENT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CH.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	5.3	7.67	.44	11.86	4.69	.45	.27	35.4
B TG	17- 33	2	5.1	1.10		4.71	5.46	.39	.20	19.6
BC	33- 47	2	4.3	.99		2.95	4.64	.52	.25	13.7
C G1	47- 75	2	4.2	.30		1.83	4.08	.65	.20	12.6
C G2	75-105	2	3.9	.48		2.04	3.95	1.14	.31	13.1
C G3	105-	2	4.6							

HORIZON-DEPTH(CH.)	ELECT. COND. (MMHOS/CM)	P1 DPM.
A P	0- 17	.95
B TG	17- 33	.20
BC	33- 47	.65
C G1	47- 75	1.02
C G2	75-105	2.05
C G3	105-	3.20

# LADNER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL URC

LOCATION

LATITUDE (N): 49 04 07  
 LONGITUDE (W): 123 02 48  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

CLASSIFICATION

HUMIC LUVIC GLEYSOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-18	2	4	5.1	1.25	41.0	14.3	17.2	31.8	46.5
B TG1 18-41	2	4	4.4	1.30	38.2	18.3	22.8	27.2	42.9
BC 2 41-66	2	4	3.9	1.33	40.4	10.9	32.3	25.7	39.1
C G1 66-102	2	4	3.8	1.19	37.8	9.0	45.7	25.5	35.2
C GS42 102-127	2	4	3.3	1.18	47.6	10.8	47.0	31.3	40.6

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-18	2.58	2.72	100.6	24.5	26.5	19.8					100.0	98.0	96.0	25.0
Btg	18-41	2.61	2.74	104.2	22.4	24.1	18.8					100.0	98.0	98.0	26.0
BC	41-66	2.61	2.72	106.4	21.6	23.1	18.0					100.0	94.3	98.0	24.0
Cg	66-102	2.59	2.69	103.8	35.4	36.7	19.0						85.0	86.0	21.0
Cgs	102-127	2.57	2.70	98.8	22.4	24.2	22.0						91.0	86.0	19.0

# LADNER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION

LATITUDE (N): 49 03 58  
 LONGITUDE (W): 123 03 16  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

CLASSIFICATION

HUMIC LUVIC GLEYSOL (1978)

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-20	2	1	6.0	1.10	38.8	14.0	17.6		
AB 20-41	2	1	6.2	1.56	34.9	11.7	16.8	29.0	40.5
B TG 41-61	2	1	6.6	1.45	35.8	11.8	21.3		
C G 61-102	2	1	6.6	1.29	34.7	10.3	27.7	25.3	37.2
C GS 102-140	2	1	3.5	1.10	45.6	11.2	53.7	33.6	42.0

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-20	2.53	2.65		30.0	31.8						100.0	97.4	93.6	26.1
AB	20-41	2.65	2.76		21.6	23.1						100.0	97.7	94.0	25.7
Btg	41-61	2.68	2.77		21.1	22.3						100.0	97.2	98.8	27.0
Cg	61-102	2.67	2.77		23.6	25.0						100.0	94.7	94.0	23.8
Cgs	102-127	2.65	2.77		35.4	37.0						100.0	95.3	95.6	21.3

# LANGDALE

SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ORTHIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

SLOPE  
 -----  
 % 10.0  
 TYPE: SIMPLE  
 ASPECT (DEG): 180

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF 8= 3	2	2	4.6	2	4	4.2	53.89	1.01
FH 3= 0	2	2	4.5	2	4	4.0	2.32	.43
A E 0= 6	1	1	4.7	2	4	4.1	2.38	.05
B F1 6= 15	2	2	5.6	2	4	4.8	2.78	.09
B F2 15= 37	2	2	5.9	2	4	5.3	3.07	.06
B CJ 37= 50	2	1	5.8	2	4	5.4	3.13	.02
B MCJ1 50= 75	2	1	5.8	2	4	5.6	3.25	.02
B MCJ2 75= 95	2	1	5.7	2	4	5.5	3.19	
B GJ 95=105	2	1	5.8	2	4	5.6	3.25	
BC 1 105=125	2	1	5.7	2	4	5.5	3.19	
BC 2 125=162	2	1	5.8	2	4	5.5	3.19	
C 162=	2	1	5.5	2	4	4.6	2.78	

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF 8= 3	19.94	5.34	.27	3.37	79.2				
FH 3= 0	12.64	2.39	.16	1.90	55.5				
A E 0= 6	1.14	.18	.07	.06	61.0	1	.1	3	.0
B F1 6= 15	1.85	.14	.06	.06	21.4	1	1.0	3	.2
B F2 15= 37	2.02	.14	.05	.03	14.9	1	.7	3	.1
B CJ 37= 50	.45	.06	.05	.02	8.3	1	.4	3	.0
B MCJ1 50= 75	.45	.06	.06	.02	4.9	1	.4	3	.0
B MCJ2 75= 95	.44	.06	.05	.01	3.0	1	.2	3	.0
B GJ 95=105	.45	.09	.06	.02	7.2	1	.6	3	.0
BC 1 105=125						1	.1	3	.0
BC 2 125=162						1	.2	3	.0
C 162=									

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	METHOD	RESULT	METHOD	RESULT					
LF 8= 3					48.3	57.9	107.0	25.0	77.3
FH 3= 0					14.3	24.2	70.0	6.4	36.7
A E 0= 6	1	.1	3	.1	2.2	2.8	3.3	1.8	6.8
B F1 6= 15	1	3.0	3	.7	1.9	5.5	20.8	4.7	17.3
B F2 15= 37	1	2.5	3	.4	2.6	10.2	35.0	4.4	15.4
B CJ 37= 50	1	1.7	3	.3	3.1	9.3	52.5	5.2	13.7
B MCJ1 50= 75	1	1.2	3	.2	5.8	9.8	45.5	6.1	16.0
B MCJ2 75= 95	1	.8	3	.2	8.7	19.4	11.3	6.3	11.6
B GJ 95=105	1	.7	3	.2	3.3	13.1	66.0	6.1	12.0
BC 1 105=125	1	.4	3	.2				5.6	11.6
BC 2 125=162	1	.5	3	.1				6.8	15.1
C 162=								10.5	5.3

# LANGDALE

DATE OF SURVEY: 70 SURVEYOR: HAL UBC

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N):		
LONGITUDE(W):	ORTHIC HUMO-FERRIC PODZOL(1978)	X 10.0 ASPECT (DEG): 180

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
GENETIC MAT.: MODRINAL  
SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
RUNOFF: SLOW

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %		
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE			METHOD	VALUE
LF 8-0	2	2	3.9	2	4	3.2	57.30	.78
A E 0-7	2	1	3.8	2	4	3.3	3.53	.06
B FCJ 7-25	2	1	5.4	2	4	4.9	2.81	.08
B MCJ1 25-42	2	1	5.6	2	4	5.2	.93	.03
B MCJ2 42-60	2	1	5.6	2	4	5.2	.95	.03
BC 60-85	2	1	5.5	2	4	5.1	.71	.02
C GJ 85-115	2	1	5.4	2	4	5.2		
C 115-145	2	1	5.6	2	4	5.4		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF 8-0									
A E 0-7	.41	.10	.04	.07	7.8	1	.1	3	.0
B FCJ 7-25	1.14	.12	.04	.05	18.9	1	.7	3	.2
B MCJ1 25-42	.41	.10	.02	.03	6.8	1	.3	3	.1
B MCJ2 42-60	.41	.10	.03	.04	7.7	1	.6	3	.0
BC 60-85	.30	.10	.04	.06	7.1	1	.5	3	.1
C GJ 85-115	.20	.07	.04	.06	3.0	1	.1	3	.0
C 115-145	.40	.12	.05	.06	1.6	1	.1	3	.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	B PPM.
	METHOD	RESULT	METHOD	RESULT				
LF 8-0					25.9	30.1	7.7	2.7
A E 0-7	1	.1	3	.1	2.0	6.1	1.0	.6
B FCJ 7-25	1	2.4	3	.8	1.3	7.3	9.6	.2
B MCJ1 25-42	1	1.1	3	.3	2.6	5.1	3.1	.3
B MCJ2 42-60	1	1.3	3	.3	2.1	12.1	5.1	.2
BC 60-85	1	1.1	3	.3	5.9	21.3	4.8	
C GJ 85-115	1	.5	3	.1	39.2	73.4	2.8	
C 115-145	1	.3	3	.1	40.1	46.4	3.3	.3

# LANGLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 08 03	HUMIC LUVIC GLEYSOL (1978)	%
LONGITUDE (W): 122 36 24	STATUS: MODAL SOIL	TYPE: 1.0
PRECISION (SEC): 02		COMPLEX
ELEVATION (M): 16		GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 200 METERS SOUTHWEST OF GLOVER-SPRINGBROOK RD  
 INTERSECTION, LANGLEY.  
 THERE ARE DARK BROWN COATINGS ON FRACTURE PLANES IN C G1 AND C G2

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 22	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/1.0 MATRIX DRY	SILTY CLAY	MODERATE MEDIUM GRANULAR	
A H	22- 37	CLEAR	10.0YR2.0/2.0 MATRIX MOIST 2.5Y3.0/2.0 MATRIX DRY	SILTY CLAY	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK FINE GRANULAR
A EG	37- 47	CLEAR	2.5Y4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY	
BA	47- 57	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE TO STRONG MEDIUM PRISMATIC	STRONG MEDIUM ANGULAR BLOCKY
B TG	57- 85	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST	HEAVY CLAY	STRONG MEDIUM PRISMATIC	STRONG MEDIUM ANGULAR BLOCKY
BC	85-100	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	HEAVY CLAY	MODERATE MEDIUM PRISMATIC	MODERATE MEDIUM ANGULAR BLOCKY
C G1	100-127	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST	HEAVY CLAY	STRONG MEDIUM TO COARSE ANGULAR BLOCKY PSEUDO	
C G2	127-		5.0Y5.0/1.0 MATRIX MOIST	HEAVY CLAY	STRONG MEDIUM TO COARSE ANGULAR BLOCKY PSEUDO	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 22	FRIABLE	ABUNDANT		
A H	22- 37	FRIABLE	ABUNDANT		
A EG	37- 47	FRIABLE	ABUNDANT	FE# FINE FAINT	
BA	47- 57	VERY FIRM	PLENTIFUL	COMMON FINE PROMINENT 10.0YR5.0/6.0	FE# THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
B TG	57- 85	VERY FIRM	FE#	COMMON FINE PROMINENT 10.0YR5.0/7.0	COMMON THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	85-100	VERY FIRM		COMMON FINE DISTINCT 10.0YR4.5/5.0	COMMON THIN ON PED FACES= UNSPECIFIED
C G1	100-127	VERY FIRM		COMMON FINE PROMINENT 7.5YR4.5/5.0	
C G2	127-	VERY FIRM		COMMON FINE PROMINENT 7.5YR4.5/5.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P 0= 22	2	1	5.5	16.90	.82	9.57	3.87	.19	.31	66.1
A H 22= 37	2	1	5.8	7.31	.52	3.00	2.45	.27	.14	48.8
A EG 37= 47	2	1	5.7	2.78	.18	4.63	4.49	.41	.09	37.0
BA 47= 57	2	1	5.6	.70	.07	8.51	9.44	.68	.10	35.4
B TG 57= 85	2	1	6.0	.46	.04	11.80	12.15	1.20	.28	44.5
BC 85=100	2	1	6.5	.35	.03	15.23	15.71	2.24	.48	42.3
C G1 100=127	2	1	6.5	.23	.03	13.49	14.42	2.93	.53	38.2
C G2 127=	2	1	6.8			11.71	12.33	3.30	.61	39.6

PARTICLE SIZE (X)

HORIZON=DEPTH (CM.)	D1 PPM.	D2 PPM.	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	+2U CLAY TOTAL
A P 0= 22	4.9	9.0	2	45	53	16
A H 22= 37	4.9	10.0				
A EG 37= 47	4.8	8.0	5	53	42	12
BA 47= 57	1.6	2.0	2	54	44	11
B TG 57= 85	1.0	2.0	1	38	61	13
BC 85=100	3.2	63.0	1	38	61	13
C G1 100=127	3.7	165.0				
C G2 127=	5.8	187.0		36	64	20

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg1 (100-127)		vermiculite		mica, interstratified vermiculite-mica, chlorite, quartz	amphibole, plagioclase, kaolinite	montmorillonite		vermiculite, mica, interstratified vermiculite-mica, chlorite, quartz, plagioclase feldspars		

# LANGLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL UBC

LOCATION CLASSIFICATION  
 LATITUDE (N): 49 08 03  
 LONGITUDE (W): 122 36 24 HUMIC LUVIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 16 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

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PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-18	2	4	4.5	.75	54.1	35.3	36.5	64.7	75.9
A HE 18-30	2	4	4.6	.77	51.3	26.9	36.9	56.4	63.8
B TG 30-66	2	4	5.4	1.38	39.7	24.2	36.8	37.9	71.7
BC 66-102	2	4	6.2	1.43	38.1	20.7	27.6	26.9	69.7
C G 102-127	2	4	6.3	1.45	38.2	19.2	25.7	22.0	49.7

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-18	2.23	2.46		54.3	58.5						100.0	97.0	91.1	37.0
Ahe	18-30	2.34	2.59		71.6	75.8						100.0	98.0	98.0	31.0
Btg	30-66	2.53	2.76		23.1	26.4						100.0	99.5	97.0	50.0
BC	66-102	2.57	2.77		18.7	21.5						100.0	100.0	97.0	48.0
Cg	102-127	2.60	2.76		17.6	19.8						100.0	99.0	97.0	42.0

# LAXTON

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: HAL KELOWNA: B.C.M.A. & R.A.B.  
SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 02 07				
LONGITUDE(W):	122 18 40	ORTHIC HUMO-FERRIC PODZOL(1978)	%	30.0	COMPLEX
PRECISION (SEC):	05		TYPE:		
ELEVATION (M):	70	STATUS: MODAL SOIL	ASPECT (DEG):	90	

## PARENT MATERIAL &amp; LANDFORM

## UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
GENETIC MAT.: EDLIAN  
SURFACE EXPRES.: VENEER

## MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
GENETIC MAT.: EDLIAN  
SURFACE EXPRES.: MUMMOCKYDRAINAGE: RAPIDLY DRAINED  
RUNOFF: SLOW  
PERVIOUSNESS: RAPID

## ADDITIONAL NOTES

SITE LOCATION: 200 METERS EAST OF INTERSECTION OF GLADWIN RD AND HWY 401,  
MATSQUI.

## PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	3- 0	ABRUPT		ORGANIC			
A H	0- 2	CLEAR		LOAM		VERY FRIABLE	PLENTIFUL
B F1	2- 15	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/5.0 MATRIX DRY	LOAM	WEAK VERY FINE SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
B F2	15- 29	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/7.0 MATRIX DRY	VERY FINE SANDY LOAM	WEAK VERY FINE SUBANGULAR BLOCKY	VERY FRIABLE	FEW
II B M	29- 44	DIFFUSE	10.0YR5.0/6.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	LOAMY FINE SAND	SINGLE GRAIN	VERY FRIABLE	FEW
II BC 1	44- 74	DIFFUSE	2.5Y5.0/4.0 MATRIX MOIST 5.0Y6.0/3.0 MATRIX DRY	VERY FINE SAND GRAVELLY	SINGLE GRAIN	FRIABLE	FEW
II BC 2	74-		2.5Y5.5/4.0 MATRIX MOIST 5.0Y6.5/3.0 MATRIX DRY	FINE SAND	SINGLE GRAIN	LOOSE	

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
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LH	3- 0	
A H	0- 2	
B F1	2- 15	NONE MEDIUM THROUGHOUT MATRIX SPHERICAL
B F2	15- 29	
II B M	29- 44	
II BC 1	44- 74	
II BC 2	74-	

## PHYSICAL &amp; CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	3- 0										
A H	0- 2										
B F1	2- 15	MUN	1	5.7	10.67	.43	10.70	2.10	.10	.80	35.8
B F2	15- 29	MUN	1	6.1	1.80	.12	2.80	.50	.10	.10	18.2
II B M	29- 44	MUN	1	6.1	1.39	.08	2.00	.60	.10	.10	13.5
II BC 1	44- 74	MUN	1	6.1	.46	.04	1.00	.30	.10	.10	8.3
II BC 2	74-	MUN	1	6.1	.23	.02	.60	.10	.10	.10	6.7
							.70	.30	.10	.10	5.0

HORIZON=DEPTH(CM.)	P1 PPM.	
LH	3- 0	
A H	0- 2	154.5
B F1	2- 15	91.0
B F2	15- 29	19.5
II B M	29- 44	42.3
II BC 1	44- 74	56.3
II BC 2	74-	87.3



# LEHMAN

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: MAL KELOWNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): 49 00 11 LONGITUDE (W): 122 26 55 PRECISION (SEC): 02 ELEVATION (M): 45	CLASSIFICATION ----- ORTHIC HUMIC GLEYSOL (1978) STATUS: MODAL SOIL
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SILTY  
 GENETIC MAT. I: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT  
 -----

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT. I: FLUVIAL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES  
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SITE LOCATION: 100 METERS WEST OF THE BOUNDARY-LEFEUVRE RD JUNCTION  
 MATSQUI.

PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH (CM)	COLOUR I	TEXTURE	STRUCTURE I	CONSISTENCE	ROOTS I
LH	4- 0		ORGANIC			ABUNDANT
A M	0- 17	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B G	17- 27	2.5Y4.0/4.0 MATRIX MOIST 2.5YR6.0/2.0 MATRIX DRY	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM	PLENTIFUL
II C G1	27- 37	2.5Y5.0/4.0 MATRIX MOIST 2.5Y6.0/3.0 MATRIX DRY	LOAMY SAND	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	VERY FRIABLE	FEW
II C G2	37- 67		SAND GRAVELLY	SINGLE GRAIN	LOOSE	FEW
II C G3	67-		COARSE SAND GRAVELLY	SINGLE GRAIN	LOOSE	

THICKNESS MOTTLES I  
 HORIZON DEPTH (CM)

LH	4- 0	
A M	0- 17	
B G	17- 27	COMMON MEDIUM DISTINCT 7.5YR5.0/6.0
II C G1	27- 37	MANY COARSE DISTINCT 7.5YR5.0/6.0
II C G2	37- 67	MANY COARSE PROMINENT
II C G3	67-	MANY COARSE PROMINENT

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH (CM.)	PH I	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	4- 0	2	2	4.7	10.61	.69	7.30	1.30	.20	.40	31.3
A M	0- 17	2	1	4.6	5.45	.34	2.40	.20	.10	.10	22.3
B G	17- 27	2	1	5.0	1.74	.11	.70	.20	.10	.10	14.8
II C G1	27- 37	2	1	5.9	.99	.06					
II C G2	37- 67	2	1	5.9	.70	.04					
II C G3	67-	2	1	5.9	.58	.03					

COARSE FRAGMENTS

HORIZON-DEPTH (CM.)	D1 PDM.	% VOL
LH	4- 0	30.5
A M	0- 17	16.0
B G	17- 27	7.0
II C G1	27- 37	11.0
II C G2	37- 67	21.0
II C G3	67-	21.5

# LEHMAN

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, H.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 05 55	ORTHIC HUMIC GLEYSOL (1970)	%	1.0	
LONGITUDE (W):	122 31 40	STATUS: MODAL SOIL	TYPE:	COMPLEX	
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING	
ELEVATION (M):	88				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC IS GRAVELLY  
 GENETIC MAT. IS FLUVIAL  
 SURFACE EXPRES. IS TERRACED  
 DESCRIPTOR IS GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	3- 0	ABRUPT		ORGANIC		
A M	0- 15	CLEAR	10.0YR2.0/2.0 MATRIX MOIST	SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
A EJ	15- 25	CLEAR	10.0YR3.0/3.0 MATRIX MOIST	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II B G	25- 42	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	
II BC	42- 90	GRADUAL	2.5Y5.5/2.0 MATRIX MOIST	SAND GRAVELLY	SINGLE GRAIN	
II C G	90-			COARSE SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CEMENTATION AGENT/DESCRIP.
LH	3- 0					
A M	0- 15	FRIABLE	ABUNDANT			
A EJ	15- 25	FRIABLE	ABUNDANT			
II B G	25- 42	FIRM	PLENTIFUL	COMMON FINE PROMINENT 7.5YR5.0/6.0		
II BC	42- 90	LOOSE	PLENTIFUL	MANY COARSE PROMINENT 7.5YR5.0/6.0	10.0YR5.0/6.0	WEAKLY CEMENTED DISCONTINUOUS
II C G	90-	LOOSE		FEW FINE FAINT		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3- 0	2	4.8	57.01	1.93					
A M	0- 15	2	4.7	11.66	.62	1.85	.43	.28	.16	43.5
A EJ	15- 25	2	5.4	1.80	.16	.67	.19	.11	.00	27.9
II B G	25- 42	2	5.8		.04	.53	.18	.06	.00	6.1
II BC	42- 90	2	6.0		.02			.06	.00	2.4
II C G	90-	2	6.0							

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
LH	3- 0	
A M	0- 15	3.5
A EJ	15- 25	3.5
II B G	25- 42	13.0
II BC	42- 90	13.5
II C G	90-	24.0

LICKMAN

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA: B.C.M.A. & R.A.B.
SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE(N): 49 00 53, LONGITUDE(W): 122 13 20, PRECISION (SEC): 05, ELEVATION (M): 9
CLASSIFICATION: ELUVIATED EUTRIC BRUNISOL(1978), MODAL SOIL
SLOPE: % TYPE: 3.0, COMPLEX: SLOW, NEARLY LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY FLUVIAL SURFACE EXPRES.: VENEER

SPEC. CLASTIC: SANDY FLUVIAL

DRAINAGE: MODERATELY WELL DRAINED
RUNOFF: SLOW
PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 530 METERS SOUTH AND 400 METERS WEST OF CORNER OF WHATCOM AND VVE RDS NEAR SUMAS RIVER. CLAY ACCUMULATION IS B-TJ1, B-TJ2 AND II B-TJ OCCURS AS THIN, CLAY ENRICHED LAMELLAE.

PROFILE DESCRIPTION

Table with columns: HORIZON, THICKNESS DEPTH(CM), HORIZON BOUNDARY, COLOUR, TEXTURE, STRUCTURE 1, STRUCTURE 2. Rows include horizons A P, A EJ, AB, B TJ1, B TJ2, II B TJ, II BC, II C GJ.

Table with columns: HORIZON, THICKNESS DEPTH(CM), CONSISTENCE, ROOTS. Rows include horizons A P, A EJ, AB, B TJ1, B TJ2, II B TJ, II BC, II C GJ.

PHYSICAL & CHEMICAL DATA

Table with columns: HORIZON-DEPTH(CM.), PH 1 (SAMPLE STATE, METHOD, VALUE), PH 2 (SAMPLE STATE, METHOD, VALUE), ORGANIC CARBON %, NITROGEN %. Rows include horizons A P, A EJ, AB, B TJ1, B TJ2, II B TJ, II BC, II C GJ.

EXCHANGEABLE CATIONS BUFF. (ME/100G) C. E. C.

Table with columns: HORIZON-DEPTH(CM.), CA, MG, NA, K, DETERMINED, P1 PDM, P2 PDM, S PDM, CU PDM, ZN PDM. Rows include horizons A P, A EJ, AB, B TJ1, B TJ2, II B TJ, II BC, II C GJ.

# LICKMAN

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, H.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE (N): 49 05 22		EULVIATED EUTRIC BRUNISOL(1978)	% TYPE: 3.0
LONGITUDE (W): 122 21 29		STATUS: MODAL SOIL	CLASS: COMPLEX
PRECISION (SEC): 05			ASPECT (DEG): 45
ELEVATION (M): 9			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	CLEAR	10.0YR4.0/2.0 MATRIX MOIST 10.0YR5.5/3.0 MATRIX DRY	SILT LOAM	MODERATE FINE SUBANGULAR BLOCKY	MEDIUM GRANULAR
II B #1	17- 43	ABRUPT	10.0YR5.5/3.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	LOAMY FINE SAND	WEAK FINE SUBANGULAR BLOCKY	
B M	43- 55	ABRUPT	10.0YR5.0/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	FINE SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
BC	55- 70	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
C GJ	70-		10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	SANDY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE	PLENTIFUL	
II B #1	17- 43	VERY FRIABLE	PLENTIFUL	
B M	43- 55	FRIABLE	FEW	
BC	55- 70	FRIABLE	FEW	COMMON FINE FAINT 10.0YR5.0/6.0
C GJ	70-	FRIABLE		COMMON FINE 10.0YR5.0/7.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	6.3	4.70	.34			.30	.10	24.2
II B #1	17- 43	2	6.1	.87	.08	1.50	.30	.20	.10	10.9
B M	43- 55	2	5.7	.52	.05	1.20	.20	.20	.10	8.1
BC	55- 70	2	5.7	.46	.05	2.60	.70	.20	.00	10.0
C GJ	70-	2	5.8	.29	.04	2.60	.90	.20	.00	7.9

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 17	21.6
II B #1	17- 43	47.1
B M	43- 55	44.8
BC	55- 70	24.7
C GJ	70-	26.1

# LIONS

DATE OF SURVEY: 71 SURVEYOR: MAL KELOMA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 25 40	SUMERIC HUMU-FERRIC PODZOL(1978)	% 60.0
LONGITUDE(W): 122 19 20		TYPE: SIMPLE
PRECISION (SEC): 20		CLASS: VERY STEEPLY SLOPING
ELEVATION (M): 1100		STATUS: MODAL SOIL

**PARENT MATERIAL & LANDFORM**  
 -----  
**UPPER STRATIGRAPHIC UNIT**  
 -----  
 GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: PAN

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

**ADDITIONAL NOTES**  
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SITE LOCATED NORTH OF MT ROBIE RIED AND WEST OF TINGLE CREEK.

**PROFILE DESCRIPTION**  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
HF	13= 0	CLEAR		ORGANIC		
A M1	0= 6	CLEAR	10.OYR3.0/1.0 MATRIX MOIST 10.OYR4.0/2.0 MATRIX DRY	SANDY LOAM	WEAK MEDIUM GRANULAR	WEAK MEDIUM SUBANGULAR BLOCKY
A M2	6= 37	GRADUAL	7.SYR3.0/1.0 MATRIX MOIST 10.OYR4.0/3.5 MATRIX DRY	SANDY LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY	
B F	37= 75		10.OYR3.0/2.5 MATRIX MOIST 10.OYR4.5/4.0 MATRIX DRY	SANDY LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1
HF	13= 0	FRIABLE	ABUNDANT
A M1	0= 6	FRIABLE	ABUNDANT
A M2	6= 37	FRIABLE	ABUNDANT
B F	37= 75	FRIABLE	ABUNDANT

**PHYSICAL & CHEMICAL DATA**  
 -----

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
HF	13= 0	2	2	4.3	2	4	4.0	.60
A M1	0= 6	2	1	4.6	2	4	4.0	.72
A M2	6= 37	2	1	4.6	2	4	4.2	.60
B F	37= 75	2	1	4.8	2	4	4.4	.21

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
HF	13= 0									
A M1	0= 6	.10	.48	.07	.41	23.9	1	1.0	3	0.7
A M2	6= 37	.31	.21	.04	.13	25.2	1	1.2	3	0.8
B F	37= 75	.21	.07	.03	.04	19.8	1	1.1	3	0.8

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.	
	METHOD	RESULT	METHOD	RESULT							
HF	13= 0										
A M1	0= 6	1	1.0	3	0.8	1.5	25.7	38.5	1.0	1.0	14.7
A M2	6= 37	1	1.1	3	0.9	5.3	8.5	12.6	1.2	1.1	5.8
B F	37= 75	1	1.1	3	0.9	4.5	8.2	0.5	1.2	1.1	2.6

HORIZON=DEPTH(CM.)	COARSE FRAGMENTS		
	% VOL	GRAVEL %	STONE %
HF	13= 0		
A M1	0= 6	60	10
A M2	6= 37	70	10
B F	37= 75	80	10

# LIVINGSTONE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

<p>LOCATION ----- LATITUDE (N): 49 06 52 LONGITUDE (W): 122 38 35 PRECISION (SEC): 05 ELEVATION (M): 10</p>	<p>CLASSIFICATION ----- GLEDED SOMBRIC HUMO-FERRIC PODZOL(1978) STATUS: MODAL SOIL</p>
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC 1: SANDY  
GENETIC MAT.: MARINE  
SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT  
-----

SPEC. CLASTIC 1: CLAYEY  
GENETIC MAT.: MARINE

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PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0- 20	2	4	4.1	.84	41.5	16.0	48.2		
A HE 20- 33	2	4	4.6	1.25	23.4	9.9	22.3	31.3	32.0
B FGJ 33- 58	2	4	5.1	1.59	9.6		10.0		16.6
II A EG 58-102	2	4	6.1	1.42	39.5	20.2	31.6	24.4	56.2
II B TG 102-127	2	4	6.5	1.28	45.6	24.7	44.2	25.1	62.6

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0- 20	2.34	2.48		55.7	58.1						100.0	75.1	61.3	10.4
Ahe	20- 33	2.53	2.69		24.0	26.0						92.6	38.8	44.7	9.8
Bfgj	33- 58	2.69	2.77		22.0	23.0						100.0	23.4	21.8	8.1
IIAeg	58-102	2.64	2.81			19.0						100.0	97.9	94.0	45.1
Btg	102-127	2.62	2.80			18.0						100.0	98.5	99.7	54.4

# LIVINGSTONE

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 06 52	GLEYED SOMBRIC HUMO-FERRIC PODZOL(1978)		%	1.0
LONGITUDE (W):	122 38 35			TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS: MODAL SOIL		CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	10				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION NEAR THE JUNCTION OF GLOVER RD AND HIGHWAY BY-PASS NORTH OF LANGLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 18	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY		LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A ME	18- 25	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B FGJ	25- 37	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 7.5YR4.0/5.0 MATRIX DRY		LOAMY SAND	WEAK TO MODERATE MEDIUM PLATY
B G	37- 50	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST 2.5Y7.0/2.0 MATRIX DRY		LOAMY SAND	MODERATE TO STRONG MEDIUM ANGULAR BLOCKY
II A EG	50- 62	GRADUAL	5.0Y6.0/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY		SILTY CLAY LOAM	STRONG COARSE PRISMATIC
II B TG1	62- 80		5.0Y5.0/1.0 MATRIX MOIST			STRONG COARSE PRISMATIC
II B TG2	80-102	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY	STRONG COARSE PRISMATIC
II BC	102-125	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY	MODERATE TO STRONG COARSE PRISMATIC
II C G	125-162		5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 18		FRIABLE SLIGHTLY HARD	ABUNDANT			
A ME	18- 25		VERY FRIABLE SOFT	ABUNDANT			
B FGJ	25- 37	SINGLE GRAIN	FRIABLE SLIGHTLY HARD	PLENTIFUL	COMMON MEDIUM DISTINCT		
B G	37- 50		FRIABLE HARD	ABUNDANT	MANY MEDIUM DISTINCT 7.5YR5.0/6.0	5.0YR4.0/4.0	
II A EG	50- 62	STRONG COARSE ANGULAR BLOCKY	VERY FIRM VERY HARD	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR4.0/4.0	5.0YR4.0/6.0	
II B TG1	62- 80		VERY FIRM VERY HARD	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/6.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
II B TG2	80-102		VERY FIRM VERY HARD		COMMON FINE PROMINENT 7.5YR4.5/5.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
II BC	102-125		VERY FIRM VERY HARD		COMMON FINE PROMINENT 7.5YR4.5/5.0		
II C G	125-162		VERY FIRM VERY HARD		FEW FINE PROMINENT 7.5YR4.5/5.0		

HORIZON	THICKNESS DEPTH(CM)	CEMENTATION AGENT/DESCRIP.
A P	0- 18	
A ME	18- 25	
B FGJ	25- 37	WEAKLY CEMENTED DISCONTINUOUS
B G	37- 50	WEAKLY CEMENTED DISCONTINUOUS
II A EG	50- 62	
II B TG1	62- 80	
II B TG2	80-102	
II BC	102-125	
II C G	125-162	

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PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A P	0- 18	2	1	4.8	2	4	4.0	9.18	.67
A ME	18- 25	2	1	5.3	4	4	4.4	3.44	.25
B FGJ	25- 37	2	1	5.8	2	4	4.8	1.00	.05
B G	37- 50	2	1	6.1	4	4	5.4	.35	.02
II A EG	50- 62	2	1	6.1	4	4	5.9	.41	.04
II B TG1	62- 80	2	1	6.2	4	4	5.6		.03
II B TG2	80-102	2	1	6.5	4	4	6.0		.03
II BC	102-125	2	1	6.7	4	4	6.2		.02
II C G	125-162	2	1	6.8	2	4	6.4		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P	0- 18	2.80	.62	.14	.29	30.1	1	.4	3	.3
A ME	18- 25	2.57	.87	.14	.10	22.2	1	.9	3	.5
B FGJ	25- 37	1.52	.56	.14	.02	9.3	1	.9	3	.7
B G	37- 50	1.81	1.61	.26	.03	6.2	1	.8	3	.2
II A EG	50- 62	6.33	8.66	.97	.22	17.5	1	1.0	3	.1
II B TG1	62- 80	6.89	12.02	1.70	.41	23.0	1	1.1	3	.2
II B TG2	80-102	7.64	14.37	2.75	.58	26.6				
II BC	102-125	7.95	13.93	3.61	.79	27.8				
II C G	125-162	6.37	12.37	5.15	.81	28.4				

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				PARTICLE SIZE(N)						
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	TOTAL SAND	62-2 U SILT
A P	0- 18	1	.7	3	.6	30.7	46.7	15.6	19.7	23.9	
A ME	18- 25	1	1.2	3	.6	8.2	14.6	8.2	33.2	43.8	
B FGJ	25- 37	1	.8	3	.3	11.6	24.3	5.1	13.7	33.5	
B G	37- 50	1	.5	3	.1	4.3	14.3	2.0	12.1	29.0	
II A EG	50- 62	1	.6	3	.1	.8	1.7	4.6	38.0	57.9	17
II B TG1	62- 80	1	.6	3	.1	.3	2.1	6.4	39.8	63.7	8
II B TG2	80-102					3.1	17.0	3.5	58.1	76.6	17
II BC	102-125					10.5	161.0	9.8	60.6	91.8	49
II C G	125-162								60.4	89.9	1

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)		
	2U CLAY TOTAL	+2U CLAY TOTAL	
A P	0- 18		
A ME	18- 25		
B FGJ	25- 37		
B G	37- 50		
II A EG	50- 62	33	15
II B TG1	62- 80	43	21
II B TG2	80-102	33	15
II BC	102-125	43	21
II C G	125-162	46	23

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
II B TG2 (102-125)		vermiculite, chlorite		mica, kaolinite, quartz, plagioclase feldspars, montmorillonite				chlorite		kaolinite, vermiculite, mica, interstratified vermiculite, mica, montmorillonite, quartz



# LULU

UNIT TYPE: SERIES

DATE OF SURVEY: 07 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 07 07	TERRIC MESISOL (1978)		% TYPE:	1.0
LONGITUDE (W):	122 55 57			CLASS:	SIMPLE
PRECISION (SEC):	02	STATUS:	MODAL SOIL		DEPRESSIONAL TO LEVEL
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC !! SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 200 METERS EAST OF THE JUNCTION OF PECK AND KITTSOON RDS,  
 DELTA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O MP	87- 72	ABRUPT	5.0Y2.0/1.0 MATRIX MOIST		ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY
O M1	72- 47	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	5.0YR3.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M2	47- 27	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M3	27- 0	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE STRATIFIED
C G	0-		5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	% FIBRE
O MP	87- 72	FRIABLE	
O M1	72- 47	FIRM	RUBBED 35
O M2	47- 27	FIRM	RUBBED 30
O M3	27- 0	FIRM	RUBBED 20
C G	0-	PLASTIC	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O MP	87- 72	2	4.3	2	4	3.9	58.00	2.97
O M1	72- 47	2	4.0	2	4	3.7	58.00	3.13
O M2	47- 27	2	4.3	2	4	3.8	58.00	2.75
O M3	27- 0	2	4.5	2	4	4.1	58.00	2.08
C G	0-	2	4.3	2	4	4.1	3.19	.13

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	P1 DPM.	D2 DPM.	S DPM.	CU DPM.	ZN DPM.
	CA	MG	NA	K							
O MP	87- 72	42.39	8.23	.17	.32	146.4	114.7	134.7	77.9	25.9	16.8
O M1	72- 47	27.43	4.74	.22	.15	139.2	22.4	28.7	109.1	10.0	8.2
O M2	47- 27	12.53	2.38	.13	.05	60.6	10.0	14.3		7.5	8.2
O M3	27- 0						3.8	6.3	138.2	8.8	12.3
C G	0-						.5	111.1	456.5	75.7	29.4

# LULU

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELDUNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 04 37	TERRIC MESISOL(1978)	%	00.0	
LONGITUDE(W):	122 48 50		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	NEARLY LEVEL	
ELEVATION (M):	2		ASPECT (DEG):	000	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPT(M)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
D HP	104- 92	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST	ORGANIC	MODERATE MEDIUM GRANULAR	VERY FRIABLE	ABUNDANT FINE
D M1	92- 75		5.0YR2.0/2.0 MATRIX MOIST	ORGANIC	WEAK STRATIFIED	FRIABLE	FEW
D M2	75- 50		5.0YR2.0/2.0 MATRIX MOIST	ORGANIC	WEAK STRATIFIED		VERY FEW
D M3	50- 0		10.0YR3.0/3.0 MATRIX MOIST	ORGANIC	MASSIVE		
C GS	0-+		5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
D HP	104- 92	2	4.4	58.00	1.45	14.57	23.03	1.12	.58	139.5
D M1	92- 75	2	4.7	58.00	1.08	20.72	27.27	1.71	.32	145.0
D M2	75- 50	2	5.1	58.00	1.71	26.14	39.12	2.47	.26	148.3
D M3	50- 0	2	5.1	54.50	2.32	33.32	55.66	5.12	.32	147.5
C GS	0-+	1	4.2	9.90	.42	13.47	9.36	3.32	.67	33.1

HORIZON=DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	pI PPM.	
D HP	104- 92	.37	14.0
D M1	92- 75	.34	7.8
D M2	75- 50	.50	4.0
D M3	50- 0	3.64	1.5
C GS	0-+	7.04	2.5

# LUMBUM

UNIT TYPE: SERIES

DATE OF SURVEY: 07 SURVEYOR: MAL KELUWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 06 38	TYPIC MESISOL (1978)	% TYPE:	1.0	SIMPLE
LONGITUDE (W):	122 56 58	STATUS: MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL	
PRECISION (SEC):	05				
ELEVATION (M):	3				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SURFACE EXPRES.: BLANKET

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NORTH END OF MATHENS RD ON SOUTH SIDE OF BURNS BOG, DELTA.  
 O F IS MAINLY MOSS REMAINS; O M1 TO O M5 ARE MIXED MOSS AND SEDGE REMAINS.  
 O M5 DOMINANTLY SEDGE REMAINS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O F	0- 22	GRADUAL	5.0YR4.0/6.0 MATRIX MOIST	5.0YR3.0/4.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M1	22- 40	GRADUAL	2.5YR2.0/4.0 MATRIX MOIST	2.5YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M2	40- 73	GRADUAL	2.5YR3.0/4.0 MATRIX MOIST	2.5YR2.5/3.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M3	73- 95	GRADUAL	5.0YR3.0/3.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M4	95-125	DIFFUSE	10.0YR2.0/2.0 MATRIX MOIST	10.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O M5	125-162		10.0YR2.5/2.5 MATRIX MOIST		ORGANIC	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	% FIBRE
O F	0- 22		ABUNDANT	
O M1	22- 40	SLIGHTLY HARD	PLENTIFUL	RUBBED 40
O M2	40- 73	NON STICKY	FEW	RUBBED 30
O M3	73- 95	NON STICKY		RUBBED 20
O M4	95-125	NON STICKY		RUBBED 15
O M5	125-162	NON STICKY		RUBBED 20

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %	
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
O F	0- 22	2	2	3.3	2	4	2.8	58.00	1.28
O M1	22- 40	2	2	3.4	2	4	2.8	58.00	1.25
O M2	40- 73	2	2	3.3	2	4	2.9	58.00	1.15
O M3	73- 95	2	2	3.5	2	4	3.0	58.00	1.13
O M4	95-125	2	2	4.2	2	4	3.7	58.00	2.27
O M5	125-162	2	2	4.5	2	4	4.2	58.00	1.87

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
	CA	MG	NA	K							
O F	0- 22	5.43	16.30	.77	.69	178.5	35.1	40.0	104.9	13.6	6.5
O M1	22- 40	2.87	10.77	1.04	.19	173.9	8.8	13.2	62.8		
O M2	40- 73	1.91	9.47	.97	.17	164.7	9.7	17.0	100.1	10.3	3.6
O M3	73- 95								144.2	8.5	3.3
O M4	95-125								255.5	9.7	3.5
O M5	125-162						14.4	18.0		22.5	18.0

# LYNDEN

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 04 03	DRTHIC HUMO-FERRIC PODZOL(1978)	%	1.0	
LONGITUDE(W):	122 41 21	STATUS: MODAL SOIL	TYPE:	SIMPLE	
PRECISION (SEC):	02		CLASS:	DEPRESSIONAL TO LEVEL	
ELEVATION (M):	50				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: TERRACED  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLO+  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: JUST SOUTH OF THE OVERSEAS TRANSMITTER PROPERTY IN SURREY MUNICIPALITY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	RANGE	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
L	4= 0		ABRUPT		ORGANIC		
A E	0= 1	0= 5	ABRUPT	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	LOAMY SAND	SINGLE GRAIN	
B F1	1= 22		GRADUAL	7.5YR3.0/2.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	LOAMY SAND	VERY WEAK FINE TO MEDIUM GRANULAR	
B F2	22= 44			10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	LOAMY SAND	SINGLE GRAIN	
C 1	44= 87				COARSE SAND	MASSIVE	SINGLE GRAIN
C 2	87=				COARSE SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
L	4= 0			
A E	0= 1	LOOSE		
B F1	1= 22	VERY FRIABLE SOFT	PLENTIFUL	
B F2	22= 44	LOOSE	PLENTIFUL	
C 1	44= 87	SLIGHTLY HARD		WEAKLY CEMENTED DISCONTINUOUS
C 2	87=	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
L	4= 0										
A E	0= 1										
B F1	1= 22	2	1	6.2	.86	.34	.33	.27	.03	.10	10.6
B F2	22= 44	2	1	6.3	.59	.03	.10	.10	.08	.04	6.7
C 1	44= 87	2	1	6.4	.23	.01	.02	.17	.05	.02	3.3
C 2	87=	2	1	6.5							

HORIZON-DEPTH(CM.)	pH	PPM.
L	4= 0	
A E	0= 1	
B F1	1= 22	54.6
B F2	22= 44	17.9
C 1	44= 87	21.4
C 2	87=	21.4

# LYNDEN

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELUWA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 05 02	ORTHIC HUMO-FERRIC PODZOL (1978)	%
LONGITUDE (W): 122 39 03	STATUS: MODAL SOIL	TYPE: 1.0
PRECISION (SEC): 05		COMPLEX
ELEVATION (M): 50		GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: TERRACED  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	5= 0	ABRUPT		ORGANIC		
A E	0= 2	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.5 MATRIX DRY	LOAMY SAND	WEAK FINE PLATY	
B F1	2= 22	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY	
B F2	22= 45	GRADUAL	5.0YR5.0/6.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY	
B M	45= 55	CLEAR	10.0YR4.5/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SAND	MODERATE COARSE SUBANGULAR BLOCKY	SINGLE GRAIN
I1 C	55= 76	CLEAR		COARSE SAND GRAVELLY	SINGLE GRAIN	
C 2	76=			SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
LH	5= 0			
A E	0= 2	VERY FRIABLE	ABUNDANT	
B F1	2= 22	VERY FRIABLE	ABUNDANT	
B F2	22= 45	VERY FRIABLE	FEW	
B M	45= 55	VERY FRIABLE	FEW	WEAKLY CEMENTED DISCONTINUOUS
I1 C	55= 76	LOOSE	FEW	
C 2	76=	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	5= 0	2	5.1	33.81	1.53					
A E	0= 2	1	4.2	2.15	.07	1.01	.15	.05	.00	11.9
B F1	2= 22	2	1	3.6	.06	.61	.25	.05	.05	11.3
B F2	22= 45	2	1	3.9	.03	.39	.25	.05	.05	5.6
B M	45= 55	2	1	6.0	.17	.26	.19	.05	.00	3.0
I1 C	55= 76	2	1	6.0						
C 2	76=	2	1	6.0						

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
LH	5= 0	
A E	0= 2	15.5
B F1	2= 22	47.0
B F2	22= 45	26.5
B M	45= 55	49.5
I1 C	55= 76	118.0
C 2	76=	

# MARBLE HILL

UNIT TYPE: SERIES

DATE OF SURVEY: 05 SURVEYOR: MAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 05 26	ORTHIC HUMO-FERRIC PODZOL(1978)	% TYPE:	2.0
LONGITUDE (W):	122 32 52		CLASS:	COMPLEX
PRECISION (SEC):	05			GENTLY UNDULATING
ELEVATION (M):	90		STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 COMB. CLASTIC I: GRAVELLY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3- 0	ABRUPT				
B F1	0- 12	CLEAR	5.0YR3.0/3.0 MATRIX MOIST 10.0YR4.0/3.0 MATRIX DRY		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	12- 30	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F3	30- 42	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK TO MODERATE FINE SUBANGULAR BLOCKY
B M1	42- 50	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	10.0YR4.0/3.0 MATRIX MOIST	SILT LOAM	MASSIVE
B M2	50- 77	ABRUPT	2.5Y4.5/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY		SILT LOAM	MASSIVE
II B M	77- 85	ABRUPT	10.0YR6.0/3.0 MATRIX DRY		SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
II C 1	85-120	CLEAR			SAND	SINGLE GRAIN
II C 2	120-				COARSE SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
LH	3- 0					
B F1	0- 12		VERY FRIABLE	ABUNDANT	NONE FINE THROUGHOUT MATRIX	
B F2	12- 30		VERY FRIABLE	ABUNDANT	NONE THROUGHOUT MATRIX	
B F3	30- 42		VERY FRIABLE	PLENTIFUL		
B M1	42- 50	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL		
B M2	50- 77		FRIABLE	PLENTIFUL		
II B M	77- 85	SINGLE GRAIN	VERY FRIABLE	FEW		WEAKLY CEMENTED DISCONTINUOUS
II C 1	85-120		LOOSE	FEW		
II C 2	120-		LOOSE			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3- 0	2	4.7	34.92	1.46					
B F1	0- 12	2	5.5	4.06	.20	2.16	.62	.12	.18	22.2
B F2	12- 30	2	5.6	1.97	.12	.75	.11	.06	.08	16.1
B F3	30- 42	1	5.7	.87	.07			.05	.05	9.9
B M1	42- 50	2	5.8	.70	.05			.05	.00	9.1
B M2	50- 77	2	5.7	.52	.04			.10	.00	11.2
II B M	77- 85	2	5.7							
II C 1	85-120	2	5.9							
II C 2	120-	2	5.8							

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
LH	3- 0	
B F1	0- 12	46.0
B F2	12- 30	6.5
B F3	30- 42	5.0
B M1	42- 50	5.0
B M2	50- 77	7.0
II B M	77- 85	
II C 1	85-120	
II C 2	120-	

# MARBLE HILL

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOUNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 12 13	ORTHIC HUMO-FERRIC PODZOL(1978)	X	5.0
LONGITUDE (W):	122 02 11		TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS: MODAL SOIL	ASPECT (DEG):	160
ELEVATION (M):	50			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EDLIAN  
 SURFACE EXPRES.: BLANKET

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED  
 DESCRIPTOR: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: NEAR GRAVEL PIT EAST OF DEROCHE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	2- 0	ABRUPT				
A HJ	0- 3	CLEAR	5.0YR2.5/2.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F1	3- 15	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	15- 40	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F3	40- 65	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F4	65- 87	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST		SILT LOAM	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY
B M	87-112	CLEAR	10.0YR4.0/4.0 MATRIX MOIST		LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
II C 1	112-132	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST		SAND GRAVELLY	SINGLE GRAIN
II C 2	132-+				SAND VERY GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
LF	2- 0					
A HJ	0- 3	WEAK FINE GRANULAR	VERY FRIABLE	ABUNDANT		
B F1	3- 15		FRIABLE	ABUNDANT	FEW FINE SPHERICAL	
B F2	15- 40		FRIABLE	ABUNDANT	FEW FINE SPHERICAL	
B F3	40- 65		FRIABLE	ABUNDANT	FEW FINE SPHERICAL	
B F4	65- 87		FRIABLE	PLENTIFUL		
B M	87-112		FRIABLE	PLENTIFUL		
II C 1	112-132		LOOSE	FEW		WEAKLY CEMENTED DISCONTINUOUS
II C 2	132-+		LOOSE			

PHYSICAL & CHEMICAL DATA

PH 1				PH 2			ORGANIC CARBON %	NITROGEN %
HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF	2= 0	2	5.4	2	4	5.2	58.81	2.71
A HJ	0= 3	2	5.8		4	5.2	6.90	.40
B F1	3= 15	1	6.0		4	5.1	8.12	.23
B F2	15= 40	1	5.8		4	5.0	2.73	.18
B F3	40= 65	1	5.8		4	5.3	1.80	.13
B F4	65= 87	1	5.6		4	5.4	1.22	.09
B W	87=112	1	5.8		4	5.3	.58	.06
II C 1	112=132	1	5.5		4	5.2		
II C 2	132=+	2	5.7		4	5.1		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LF					31.6					9.2
A HJ	4.80	1.31	.07	.76	29.4	1	1.4	1	1.9	10.0
B F1	1.18	.34	.06	.43	20.0	1	1.2	1	1.9	36.6
B F2	.25	.06	.05	.18	14.9	1	1.3	1	1.8	7.8
B F3	.08	.03	.05	.12	11.3	1	1.1	1	1.7	3.4
B F4	.05	.03	.04	.11	7.6	1	.7	1	1.2	39.0
B W	.05	.03	.04	.06		1	.4	1	.6	59.3
II C 1										34.6
II C 2										

HORIZON=DEPTH(CM.)	P2 PPM.	S PPM.
LF	221.0	
A HJ	22.0	60.3
B F1	36.0	9.2
B F2	33.0	4.1
B F3		67.7
B F4	32.0	73.1
B W	42.0	7.3
II C 1	30.0	5.8
II C 2	35.0	7.2



# MARBLE HILL

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGH KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 00 53	ORTHIC HUMO-FERRIC PODZOL(1978)	% 3.0
LONGITUDE (W): 122 20 03	STATUS: MODAL SOIL	TYPE: COMPLEX
PRECISION (SEC):		CLASS: UNDULATING
ELEVATION (M): 60		ASPECT (DEG): 270

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT. 1: FLUVIAL  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A M	0- 4				LOAM	
B F1	4- 14	CLEAR	7.5YR5.0/6.0 MATRIX MOIST 10.0YR5.0/6.0 MATRIX DRY	10.0YR5.0/6.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	14- 32	GRADUAL	7.5YR5.0/4.0 MATRIX MOIST 10.0YR5.0/6.0 MATRIX DRY	7.5YR5.0/6.0 MATRIX MOIST 10.0YR5.0/6.0 MATRIX DRY	LOAM	WEAK VERY FINE SUBANGULAR BLOCKY
B F3	32- 44	DIFFUSE	5.0YR5.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	10.0YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK VERY FINE SUBANGULAR BLOCKY
B M1	44- 64	GRADUAL	7.5YR5.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		LOAM	WEAK SUBANGULAR BLOCKY
B M2	64- 79	ABRUPT	10.0YR5.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		LOAM GRAVELLY	WEAK SUBANGULAR BLOCKY
I1 C	79-				SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1
A M	0- 4			
B F1	4- 14	VERY FRIABLE	PLENTIFUL	
B F2	14- 32	VERY FRIABLE	PLENTIFUL	FEW FINE THROUGHOUT MATRIX SPHERICAL
B F3	32- 44	VERY FRIABLE	PLENTIFUL	FEW FINE THROUGHOUT MATRIX SPHERICAL
B M1	44- 64	VERY FRIABLE	FEW	
B M2	64- 79	VERY FRIABLE	FEW	
I1 C	79-	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A M	0- 4	2	5.8	14.56	.87	19.50	4.30	.20	.80	51.8
B F1	4- 14	2	5.9	3.02	.19	1.50	.30	.10	.10	24.1
B F2	14- 32	2	5.9	1.52	.11	.60	.30	.10	.10	16.1
B F3	32- 44	2	5.7	1.33	.09	.30	.30	.10	.10	14.4
B M1	44- 64	2	5.7	.93	.06	.30	.30	.10	.10	12.0
B M2	64- 79	2	5.7			.30	.20	.10	.00	9.8
I1 C	79-	2	5.8	.17	.02	.30	.20	.10	.00	4.9

HORIZON-DEPTH(CM.)	pH	
A M	0- 4	83.5
B F1	4- 14	35.7
B F2	14- 32	8.8
B F3	32- 44	9.1
B M1	44- 64	10.8
B M2	64- 79	19.7
I1 C	79-	84.0

# MARBLE HILL

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ORTHIC HUMU-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT  
 -----

COMM. CLASTIC I: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	2- 0	ABRUPT		ORGANIC			
B F1	0- 15	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B F2	15- 50	CLEAR	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M	50- 65	GRADUAL	10.0YR5.0/5.0 MATRIX MOIST	SANDY LOAM GRAVELLY	SINGLE GRAIN	VERY FRIABLE	FEW
II BC	65-		10.0YR5.0/3.0 MATRIX MOIST	LOAMY SAND GRAVELLY	SINGLE GRAIN	LOOSE	

HORIZON	THICKNESS DEPTH(CM)	FIELD PH
LH	2- 0	
B F1	0- 15	MEDIUM ACID
B F2	15- 50	MEDIUM ACID
B M	50- 65	MEDIUM ACID
II BC	65-	MEDIUM ACID

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	2- 0										
B F1	0- 15	2	1	5.8	2.77	.13	1.53	.37	.07	.97	16.0
B F2	15- 50	2	1	5.6	1.40	.07	.66	.22	.14	.32	11.7
B M	50- 65	2	1	5.6	.86	.05	.43	.15	.15	.08	9.3
II BC	65-	2	1	5.6	.24	.05	.65	.42	.09	.04	4.7

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	P1 PPM.	% VOL
LH	2- 0	
B F1	0- 15	19.0
B F2	15- 50	19.0
B M	50- 65	36.0
II BC	65-	66.0

# MARBLE HILL

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL UBC

LOCATION CLASSIFICATION  
 LATITUDE (N): 49 01 06  
 LONGITUDE (W): 122 16 53 ORTHIC MUND-FERRIC PODZOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 90 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EDLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: FLUVIAL  
 DESCRIPTOR: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0-20	2	4	5.0	1.08	38.2	11.2	18.0	38.8	41.7
B #1 20-53	2	4	5.3		30.9	8.0	20.3	31.0	33.0
B #2 53-71	2	4	5.3		31.0	7.8	22.4	28.4	30.6
B m 71-81	2	4	5.3		25.6	7.2	16.0	22.1	23.6
I1 BC 81-102	2	4	5.4	1.95	16.6	4.6	10.0	20.0	18.4
I1 C 102-127	2	4	5.4		16.4	5.1	13.3	15.8	16.5

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %										
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm			
Ap	0-20	2.50	2.67		48.5	50.9						100.0	97.0	80.0	10.0			
Bf1	20-53	2.60	2.74		43.3	45.3						100.0	98.0	88.0	3.0			
Bf2	53-71	2.60	2.73		4.03	42.1						100.0	96.0	89.0	4.0			
Bm	71-81	2.65	2.75		30.3	31.7						89.0	63.0	58.0	7.0			
I1BC	81-102	2.65	2.73		21.5	22.6		15.0	85.0	80.0	66.0	59.0	37.0	32.0	3.0			
I1C	102-120	2.65	2.73		20.8	21.9						100.0	88.0	66.6	59.0	33.0	34.2	2.0

# MARION

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 17 57	DURIC FERRO-HUMIC PUDZOL (1978)	%
LONGITUDE (W): 122 34 12	STATUS: MODAL SOIL	TYPE: 5.0
PRECISION (SEC): 05		SIMPLE
ELEVATION (M): 365		MODERATELY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION IS 400 METERS WEST OF LOON LAKE JUNCTION ON MAIN RD., UBC RESEARCH FOREST.  
 BC1 HORIZON IS SEEPAGE ZONE, ROOT MAT PRESENT.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	25- 17	CLEAR			ORGANIC	
HF	17- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST	2.5Y2.0/2.0 MATRIX MOIST	ORGANIC	MASSIVE
A E	0- 6	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 5.0YR6.0/1.0 MATRIX DRY		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B HFC	6- 22	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST	5.0YR3.0/2.0 MATRIX MOIST	LOAMY SAND GRAVELLY	STRONG COARSE SUBANGULAR BLOCKY
B CGJ1	22- 37	DIFFUSE	5.0Y5.0/3.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE
B CGJ2	37- 57	GRADUAL	5.0Y5.0/3.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE
B CGJ3	57- 70	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE
BC 1	70- 75	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY
BC 2	75-100		5.0Y5.0/1.5 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LF	25- 17			PLENTIFUL		
HF	17- 0		FRIABLE	ABUNDANT		
A E	0- 6		FRIABLE	ABUNDANT		
B HFC	6- 22		FIRM HARD	PLENTIFUL		WEAKLY CEMENTED DISCONTINUOUS
B CGJ1	22- 37	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM EXTREMELY HARD	PLENTIFUL	MANY COARSE PROMINENT 5.0YR3.5/4.0	STRONGLY CEMENTED CONTINUOUS
B CGJ2	37- 57	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM EXTREMELY HARD	FEW	MANY COARSE PROMINENT 5.0YR3.0/3.0	STRONGLY CEMENTED CONTINUOUS
B CGJ3	57- 70	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM	FEW	MANY MEDIUM PROMINENT 5.0YR3.5/4.5	STRONGLY CEMENTED CONTINUOUS
BC 1	70- 75		FIRM	ABUNDANT	MANY MEDIUM PROMINENT 5.0YR4.5/7.0	
BC 2	75-100		VERY FIRM		COMMON MEDIUM PROMINENT 7.5YR5.0/6.0	

MARION (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF 25= 17	2	2	3.4	2	4	2.6	58.00	1.40
MF 17= 0	2	2	3.3	2	4	2.3	58.00	1.14
A E 0= 6	2	1	3.8	2	4	3.2	2.20	.05
B MFC 6= 22	2	1	4.8	2	4	4.2	7.37	.16
B CGJ1 22= 37	2	1	5.2	2	4	4.4	3.36	.09
B CGJ2 37= 57	2	1	5.2	2	4	4.7	14.90	.10
B CGJ3 57= 70	2	1	5.5	2	4	5.1		
BC 1 70= 75	2	1	5.7	2	4	5.2		
BC 2 75=100	2	1	6.2	2	4	5.3		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)		EXTRACTABLE AL(X)		PI PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LF 25= 17	7.16	3.14	.20	1.40	67.9					11.3
MF 17= 0	3.31	3.10	.31	.67	79.5					
A E 0= 6	.10	.10	.02	.02	11.7					
B MFC 6= 22	.11	.05	.03	.03	43.2	1	1.4	1	2.4	
B CGJ1 22= 37	.11	.03	.03	.02	23.5	1	.9	1	3.2	
B CGJ2 37= 57	.17	.02	.04	.02	28.4	1	.8	1	3.9	2.1
B CGJ3 57= 70	.16	.03	.02	.02	31.1					2.7
BC 1 70= 75	.39	.06	.03	.02	9.3					6.9
BC 2 75=100	.68	.03	.08	.03	7.5					

HORIZON=DEPTH(CM.)	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
LF 25= 17			16.0	87.2
MF 17= 0			10.8	38.5
A E 0= 6		11.5	4.1	3.0
B MFC 6= 22		58.1	23.6	21.8
B CGJ1 22= 37		45.2	30.6	28.5
B CGJ2 37= 57		75.9	38.8	28.5
B CGJ3 57= 70	17.7	65.1	34.7	26.0
BC 1 70= 75	19.6	55.8	25.4	22.9
BC 2 75=100	17.5	51.4	51.4	32.7

# MATHEWS

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELDWNA, B.C.M.A. & R.A.P.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 04 16	ORTHIC HUMIC GLEYSOL(1978)	%	1.0
LONGITUDE(W):	122 58 00		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

THE B G IS STRATIFIED WITH TEXTURES OF LAYERS RANGING FROM FINE SAND TO SILT. CRACKS 1CM WIDE BEGIN AT TOP OF THIS HORIZON AND EXTEND TO 80CM. SAND FROM ABOVE IS SLUFFING INTO CRACKS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	LOAM	MODERATE MEDIUM GRANULAR	
A E J G	20- 30	ABRUPT	10.0YR6.0/2.0 MATRIX MOIST 10.0YR3.0/2.0 MATRIX DRY	LOAM	VERY FINE STRATIFIED	VERY WEAK SUBANGULAR BLOCKY
II AB	30- 47	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST	LOAMY SAND	SINGLE GRAIN	
B G	47- 67	ABRUPT	5.0Y5.0/2.0 MATRIX MOIST	LOAM	STRATIFIED	
C G 1	67- 72		5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	STRATIFIED	
C G 2	72-		5.0Y4.0/2.0 MATRIX MOIST	LOAM	STRATIFIED	

HORIZON DEPTH(CM)	THICKNESS	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	ABUNDANT FINE	
A E J G	20- 30	FRIABLE	PLENTIFUL	FEW FAINT
II AB	30- 47	LOOSE	PLENTIFUL	PROMINENT 7.5YR5.0/6.0
B G	47- 67	FRIABLE	PLENTIFUL	PROMINENT 7.5YR4.0/4.0
C G 1	67- 72	FRIABLE SLIGHTLY PLASTIC		
C G 2	72-	FRIABLE		COMMON MEDIUM 2.5Y5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 20	2	1	5.4	5.50	.34	5.73	2.55	.31	.17	26.9
A E J G	20- 30	2	1	5.9	3.18	.17	7.05	4.68	.70	.10	23.5
II AB	30- 47	2	1	6.5							
B G	47- 67	2	1	6.0							
C G 1	67- 72	2	1	5.7	.01		2.37	4.79	1.99	.32	10.7
C G 2	72-	2	1	5.7	.01		2.37	4.79	1.99	.32	10.7

HORIZON-DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	P1 PPM.
A P	0- 20	.23
A E J G	20- 30	.10
II AB	30- 47	.59
B G	47- 67	.59
C G 1	67- 72	.85
C G 2	72-	.85

# MATHEWS

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 04 02	ORTHOIC HUMIC GLEYSOL (1978)		X	2.0
LONGITUDE (W):	123 00 48			TYPE:	SIMPLE
PRECISION (SEC):	02	STATUS:	MODAL SOIL	CLASS:	VERY GENTLY SLOPING
ELEVATION (M):	3				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 2: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION IS 800 METERS EAST OF BENSON ROAD AND 800 METERS NORTH OF BOUNDARY BAY DYKE. THE C G CONSISTS OF ALTERNATING BANDS OF SILT AND FINE SAND.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P1	0- 13	GRADUAL	10.0YR2.0/1.0 MATRIX MOIST		LOAM	WEAK FINE SUBANGULAR BLOCKY
A P2	13- 25	ABRUPT	10.0YR2.0/2.0 MATRIX MOIST		LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
A EUG	25- 40	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK FINE PLATY
AB	40- 67	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST		FINE SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
II B TJG	67- 82	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST		SILTY CLAY LOAM	MODERATE MEDIUM PRISMATIC
C G	82-		5.0Y5.0/1.5 MATRIX MOIST		LOAM	STRATIFIED

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P1	0- 13	FINE GRANULAR	FRIABLE SLIGHTLY HARD	ABUNDANT			
A P2	13- 25		FRIABLE SLIGHTLY HARD	ABUNDANT			
A EUG	25- 40		FRIABLE HARD	PLENTIFUL	COMMON COARSE DISTINCT 10.0YR4.0/4.0		
AB	40- 67		FRIABLE SLIGHTLY HARD	FEW	COMMON COARSE PROMINENT 10.0YR4.0/4.0		
II B TJG	67- 82		FIRM SLIGHTLY PLASTIC	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	7.5YR4.0/4.0	COMMON THIN ON RED FACES- UNSPECIFIED
C G	82-		FIRM		COMMON MEDIUM PROMINENT 7.5YR4.0/4.0		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P1 0- 13	2	1	4.8	2	4	4.2	6.84	.62
A P2 13- 25	1	1	5.0	2	4	4.0	6.55	.62
A E J G 25- 40	2	1	5.7	2	4	4.5	6.58	.66
AB 40- 67	2	1	6.2	2	4	5.3	1.04	.03
II B T J G 67- 82	2	1	6.9	2	4	5.9		
C G 82-	2	1	5.8	2	4	5.2		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C.				
	CA	MG	NA	K	DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
A P1 0- 13	2.48	.95	.17	.49	27.3	40.7	105.7	73.5	50.2	32.2
A P2 13- 25	2.74	1.16	.15	.43	27.5	39.6	174.0	54.2	50.1	30.6
A E J G 25- 40	2.14	2.54	.20	.16	8.2	12.7	79.3	17.7	43.2	9.9
AB 40- 67	2.63	3.43	.32	.16	5.8	9.1	98.6	7.8	34.1	7.6
II B T J G 67- 82						21.1	192.3	18.8	89.6	35.3
C G 82-						11.3	148.9	35.0	80.1	35.4

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace
Cg (82+)	montmorillonite	vermiculite	mica, chlorite, kaolinite, quartz	plagioclase feldspars	montmorillonite	vermiculite	mica, interstratified vermiculite- chlorite, kaolinite, quartz			



# MATSQUI

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: MAL KELDONA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 07 53	ELUVIATED EUTRIC BRUNISOL(1978)	%	
LONGITUDE (W):	122 15 21		TYPE:	4.0
PRECISION (SEC):	02	STATUS: MODAL SOIL		COMPLEX
ELEVATION (M):	9			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC II SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 400 METERS NORTH OF PAGE RD ON SANDBURG RD MATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	CLEAR	10.0YR4.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
A EJ	20- 27	GRADUAL	10.0YR4.5/3.5 MATRIX MOIST 10.0YR6.5/3.0 MATRIX DRY	SILT LOAM	WEAK FINE PLATY	
B TJ	27- 37	CLEAR	10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.5/4.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II B M1	37- 52	CLEAR	10.0YR4.0/2.5 MATRIX MOIST	LOAMY SAND	WEAK MEDIUM SUBANGULAR BLOCKY	
II A EJ1	52- 65	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST	SAND	SINGLE GRAIN	
II B M2	65- 97	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II A EJ2	97-112	ABRUPT		SAND	SINGLE GRAIN	
II B MGJ	112-120	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II C GJ	120-157		10.0YR4.0/4.0 MATRIX MOIST	FINE SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 20	FRIABLE SLIGHTLY HARD	ABUNDANT		
A EJ	20- 27	FRIABLE SLIGHTLY HARD	ABUNDANT		COMMON THIN ON PED FACES- UNSPECIFIED
B TJ	27- 37	FRIABLE SLIGHTLY HARD	ABUNDANT		
II B M1	37- 52	VERY FRIABLE	ABUNDANT		COMMON VISIBLE BRIDGES BETWEEN SAND GRAINS
II A EJ1	52- 65	LOOSE	PLENTIFUL		
II B M2	65- 97	FRIABLE	PLENTIFUL		
II A EJ2	97-112	LOOSE	FEW		
II B MGJ	112-120	FRIABLE	FEW	FEW MEDIUM PROMINENT 5.0YR3.0/4.0	
II C GJ	120-157	LOOSE		COMMON COARSE DISTINCT 5.0YR4.0/7.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0-20	2	1	5.7	2	4	5.0	3.50	.30
A EJ 20-27	2	1	6.1	2	4	5.1	.99	.10
B TJ 27-37	2	1	6.4	2	4	5.2	.40	.04
II B M1 37-52	2	1	6.2	2	4	5.5	.35	.03
II A EJ1 52-65	2	1	6.1	2	4	5.1	.06	.01
II B M2 65-97	2	1	6.1	2	4	5.7		.01
II A EJ2 97-112	2	1	6.2	2	4	6.0		.01
II B MGJ 112-120	2	1	6.2	2	4	5.6		
II C GJ 120-157	2	1	6.1	2	4	5.3		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
A P 0-20	7.11	1.60	.10	.14	18.9	1	1.0	3	.7
A EJ 20-27	6.15	1.38	.10	.05	14.2	1	1.2	3	.6
B TJ 27-37	6.35	1.73	.16	.05	10.7	1	.9	3	.2
II B M1 37-52	2.31	.63	.08	.04	5.1	1	.9	3	.1
II A EJ1 52-65	1.21	.20	.04	.04	2.7	1	.5	3	.1
II B M2 65-97	2.56	.55	.05	.07	4.8	1	.5	3	.1
II A EJ2 97-112	1.10	.22	.04	.05	2.4	1	.4	3	.1
II B MGJ 112-120									
II C GJ 120-157									

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(X)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
A P 0-20	1	.6	3	.4	9.3	26.1	9.0	32.4	169.9	
A EJ 20-27	1	.7	3	.4	7.7	22.5	5.8	37.4	107.6	692.1
B TJ 27-37	1	.5	3	.2	3.7	20.5	2.5	33.8	68.3	688.5
II B M1 37-52	1	.3	3	.1	17.1	51.3		22.4	57.9	670.7
II A EJ1 52-65	1	.3	3	.1	19.2	43.2	2.0	20.1	55.3	281.4
II B M2 65-97	1	.3	3	.1	8.7	40.0	1.0	24.0	48.2	410.5
II A EJ2 97-112	1	.3	3	.1	8.7	35.4		19.8	40.6	
II B MGJ 112-120								22.2	43.2	
II C GJ 120-157								23.0	48.7	

MATSQUI

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION: 49 08 57  
 LONGITUDE (N): 122 12 17  
 PRECISION (SEC): 05  
 ELEVATION (M): 6  
 CLASSIFICATION: ELUVIATED EUTRIC BRUNISOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-23	2	4	5.2	1.12	46.8	14.3	12.9	38.6	53.8
B M 23-48	2	4	5.3	1.40	24.7	7.7	7.9	23.7	27.1
II C 1 48-102	2	4	5.3		3.6	1.5	3.6		
II C 2 102-127	2	4	5.4		5.6	1.7	8.7		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-23	2.55	2.68		36.6	38.5						100.0	99.5	91.0	31.0
Bm	23-48	2.66	2.74		23.2	24.3						100.0	79.0	63.0	14.0
IIC1	48-102	2.71	2.74									100.0	7.5	9.0	2.0
IIC2	102-127	2.71	2.75									100.0	7.0	5.0	1.0

# MATSQUI

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 07 27	ELUVIATED EUTRIC BRUNISOL(1978)	%	4.0	
LONGITUDE(W):	122 14 46		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	UNDULATING	
ELEVATION (M):	7				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC I: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	10.0YR5.0/3.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
A E J	20- 30	CLEAR	10.0YR4.5/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B M	30- 35	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST 10.0YR6.0/2.5 MATRIX DRY		SILT LJAM	WEAK FINE SUBANGULAR BLOCKY
II BC 1	35- 55	ABRUPT			FINE SAND	SINGLE GRAIN
II BC 2	55- 63	ABRUPT			SAND	SINGLE GRAIN
II B M	63- 75	ABRUPT	10.0YR6.0/3.5 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY			WEAK MEDIUM SUBANGULAR BLOCKY
II C	75-				FINE SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	ABUNDANT	
A E J	20- 30	FIRM	PLENTIFUL	
B M	30- 35	FRIABLE	FEW	
II BC 1	35- 55	LOOSE	PLENTIFUL	
II BC 2	55- 63	LOOSE	FEW	
II B M	63- 75	VERY FRIABLE		
II C	75-	LOOSE		FEW FINE FAINT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE						CA	MG	NA	K	
A P	0- 20	2	1	5.9	2.61	.18	10.40	1.00	.20	.20	21.4
A E J	20- 30	2	1	6.1	.99	.11	9.20	1.00	.10	.10	19.3
B M	30- 35	2	1	6.3	.59	.08	8.00	.80	.10	.10	19.1
II BC 1	35- 55	2	1	6.5	.52	.04	4.10	.40	.10	.20	6.8
II BC 2	55- 63	2	1	6.8	.35	.02	1.60	.40	.10	.10	3.1
II B M	63- 75	2	1	6.3			5.00	.80	.10	.10	8.1
II C	75-	2	1	6.7			3.10	.70	.10	.10	5.1

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 20	14.8
A E J	20- 30	2.8
B M	30- 35	3.8
II BC 1	35- 55	8.6
II BC 2	55- 63	9.0
II B M	63- 75	5.1
II C	75-	6.6

# MATSQUI

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 13 43	ELUVIATED EUTRIC BRUNISOL(1978)	% TYPE: 2.0
LONGITUDE(W): 121 44 20		COMPLEX
PRECISION (SEC): 05	STATUS: MODAL SOIL	GENTLY UNDULATING
ELEVATION (M): 18		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	DEPTH(CM)	THICKNESS	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A HJ	0-12		CLEAR	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK FINE TO MEDIUM GRANULAR
A EJ	12-27		GRADUAL	10.0YR4.0/2.5 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M	27-42		CLEAR	10.0YR4.0/3.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
II C 1	42-48		GRADUAL	10.0YR4.0/2.0 MATRIX MOIST	FINE SAND	VERY WEAK FINE SUBANGULAR BLOCKY PSEUDO	SINGLE GRAIN
II C 2	48-			10.0YR4.0/2.0 MATRIX MOIST	LOAMY FINE SAND	VERY WEAK FINE SUBANGULAR BLOCKY PSEUDO	

HORIZON	DEPTH(CM)	THICKNESS	CONSISTENCE	ROOTS 1
A HJ	0-12		FRIABLE	ABUNDANT
A EJ	12-27		FRIABLE	ABUNDANT
B M	27-42		FIRM	PLENTIFUL
II C 1	42-48		LOOSE	FEW
II C 2	48-		VERY FRIABLE	VERY FEW

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A HJ 0-12	2	1		6.0	5.10	.32	15.98	3.34	.10	.51	27.6
A EJ 12-27	2	1		6.2	1.04	.09	7.26	1.43	.06	.28	12.9
B M 27-42	2	1		5.9	.41	.08	6.28	1.35	.08	.18	12.7
II C 1 42-48	2	1		6.1	.23	.02	3.22	.64	.06	.13	6.2
II C 2 48-	2	1		6.0			3.96	.28	.05	.16	6.7

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A HJ 0-12	6.5	58.5
A EJ 12-27	6.0	74.0
B M 27-42	5.5	92.5
II C 1 42-48	14.5	72.5
II C 2 48-	24.5	78.5

# McELVEE

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELUWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE(N): 49 04 38, LONGITUDE(W): 122 15 34, PRECISION (SEC): 05, ELEVATION (M): 9  
 CLASSIFICATION: REGU GLEYSOL(1978), STATUS: MODAL SOIL  
 SLOPE: % TYPE: 2.0, ASPECT (DEG): 270, SIMPLE

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLD  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 200 METERS OF TRANS MOUNTAIN PIPELINE AND WRIGHT RD. INTERSECTION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	CLEAR	10.0YR3.0/2.5 MATRIX MOIST 10.0YR6.0/2.5 MATRIX DRY	LOAM	MODERATE MEDIUM GRANULAR	GRANULAR
C G1	15- 32	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	
II C G1	32- 40	ABRUPT	10.0YR6.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	LOAMY SAND	SINGLE GRAIN	
C G2	40- 70	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	SILT LOAM	MASSIVE	
II C G2	70- 75	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST 10.0YR7.0/2.0 MATRIX DRY	COARSE SAND	SINGLE GRAIN	
II C G3	75-		10.0YR5.0/2.0 MATRIX MOIST	SANDY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 15	FRIABLE	PLENTIFUL	FEW FINE FAINT
C G1	15- 32	FIRM	FEW	COMMON MEDIUM FAINT 10.0YR4.0/4.0
II C G1	32- 40	LOOSE	FEW	COMMON FINE PROMINENT 2.5YR3.0/6.0
C G2	40- 70	FIRM	FEW	MANY FINE PROMINENT 2.5YR3.0/6.0
II C G2	70- 75	LOOSE		MANY FINE DISTINCT 5.0YR4.0/6.0
II C G3	75-	FRIABLE		FEW FINE DISTINCT 7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 15	2	1	5.6	2.61	.22	4.20	.60	.20	.10	15.9
C G1	15- 32	2	1	5.8	.93	.05	3.50	.50	.20	.10	12.3
II C G1	32- 40	2	1	5.8	.52	.05	2.90	.60	.20	.10	7.8
C G2	40- 70	2	1	5.7	1.62	.15	6.70	1.00	.20	.10	20.3
II C G2	70- 75	2	1	5.8	.46	.06	2.40	.60	.10		7.5
II C G3	75-	2	1	5.8	.46	.06	2.40	.60	.10		7.5

HORIZON=DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 15	8.1
C G1	15- 32	16.1
II C G1	32- 40	11.2
C G2	40- 70	14.4
II C G2	70- 75	22.0
II C G3	75-	59.0

# McELVEE

UNIT TYPE: SERIES

DATE OF SURVEY: 01 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE(N):	49 06 08	REGD GLEYSOL(1978)	%	2.0
LONGITUDE(W):	122 02 52		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	8			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 15	CLEAR	2.5Y4.0/2.0 MATRIX MOIST 2.5Y5.0/2.0 MATRIX DRY	SILT LOAM	MASSIVE	FRIABLE	ABUNDANT
C G1	15- 40	DIFFUSE	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	PLENTIFUL
C G2	40- 63	ABRUPT	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	PLENTIFUL
C G3	63- 80	ABRUPT	5.0Y4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	FEW

HORIZON	THICKNESS DEPTH(CM)	PORES 1	MOTTLES 1
A P	0- 15		FEW FAINT 10.0YR5.0/8.0
C G1	15- 40	PLENTIFUL	COMMON FAINT 10.0YR5.0/8.0
C G2	40- 63	PLENTIFUL	MANY DISTINCT 5.0Y4.0/8.0
C G3	63- 80	PLENTIFUL	MANY FAINT 10.0YR5.0/8.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 15	2	5.6	4.74	.36	9.17	1.31	.22	.19	25.8
C G1	15- 40	2	6.3	.44	.08	7.65	2.16	.21	.09	15.8
C G2	40- 63	2	6.6	.36	.12	7.13	3.74	.33	.04	15.8
C G3	63- 80	2	6.7	.45	.09	8.58	5.74	.38	.07	18.9

HORIZON-DEPTH(CM.)	P1 PPM.	
A P	0- 15	23.0
C G1	15- 40	8.0
C G2	40- 63	9.0
C G3	63- 80	8.0

# McLELLAN

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 07 18	ORTHIC GLEYSOL (1978)	% TYPE: 3.0
LONGITUDE (W): 122 46 28		COMPLEX
PRECISION (SEC): 05		
ELEVATION (M): 5	STATUS: MODAL SOIL	

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 400 METERS NORTH OF HOSE RD SURREY.  
 THE B G AND BC G HAVE CRACKS UP TO 2CM WIDE WHEN DRY AT 25-40 CM INTERVAL  
 ROOTS IN THESE HORIZONS ARE MOSTLY ALONG CRACKS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE VERY COARSE SUBANGULAR BLOCKY	
B G	17- 32	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	SILTY CLAY	MASSIVE	STRONG VERY COARSE PRISMATIC
BC	32- 55	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	STRONG COARSE PRISMATIC
C G	55-		5.0Y4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FIRM VERY HARD	ABUNDANT	FEW FINE DISTINCT
B G	17- 32	SLIGHTLY STICKY FIRM SLIGHTLY PLASTIC	PLENTIFUL	MANY MEDIUM DISTINCT
BC	32- 55	SLIGHTLY STICKY FRIABLE SLIGHTLY PLASTIC	PLENTIFUL	COMMON MEDIUM DISTINCT
C G	55-	FRIABLE	FEW	COMMON MEDIUM DISTINCT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	5.0	10.50	.50	10.16	6.84	.22	.32	26.8
B G	17- 32	2	5.8	.77	.55	6.71	7.22	.24	.29	18.3
BC	32- 55	2	5.2	.81	.57	4.88	5.89	.34	.27	20.6
C G	55-	1	4.2	1.05	.73	2.26	4.06	.45	.32	17.4

HORIZON-DEPTH (CM.)	D1 PPM.	
A P	0- 17	7.0
B G	17- 32	2.4
BC	32- 55	3.5
C G	55-	10.8

# MILNER

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: PNS KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE(N): 49 05 58  
 LONGITUDE(W): 122 41 14  
 PRECISION (SEC): 05  
 ELEVATION (M): 6

CLASSIFICATION: LUVISOLIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

SLOPE: 3.0  
 TYPE: COMPLEX  
 CLASS: GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 600 METERS SOUTH HWY #10, EAST OF LATIMER RD.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	4- 0	ABRUPT			ORGANIC	
B FCC1	0- 10	CLEAR	7.5YR4.0/4.0 MATRIX MOIST	7.5YR3.0/2.0 MATRIX MOIST	LOAM	WEAK FINE GRANULAR
B FCC2	10- 30	CLEAR	10.0YR4.0/4.0 MATRIX MOIST		CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B M	30- 50	GRADUAL	2.5Y5.0/4.0 MATRIX MOIST		CLAY LJAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A E	50- 70		5.0Y5.5/3.0 MATRIX MOIST		CLAY	MODERATE MEDIUM ANGULAR BLOCKY
B T	70-		5.0Y4.0/2.0 MATRIX MOIST		CLAY	STRONG MEDIUM ANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCRIP. 1
LH	4- 0				
B FCC1	0- 10	VERY FRIABLE	ABUNDANT		MANY FINE
B FCC2	10- 30	FRIABLE	PLENTIFUL		COMMON FINE
B M	30- 50	FIRM SLIGHTLY PLASTIC	PLENTIFUL		
A E	50- 70	STICKY VERY FIRM PLASTIC	FEW	FEW FAINT	
B T	70-	STICKY VERY FIRM PLASTIC	FEW	FEW FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	4- 0	2	4.9	21.80	.55					
B FCC1	0- 10	2	5.5	1.76	.11	2.59	.43	.26	.23	15.1
B FCC2	10- 30	2	5.5	.82	.05	5.28	.26	.27	.15	15.4
B M	30- 50	2	5.0	.67	.04	6.80	1.84	.29	.15	20.0
A E	50- 70	2	4.7	.49	.03	7.73	2.92	.41	.21	22.9
B T	70-	2	4.9	.14	.01	18.31	2.59	.64	.29	19.9

HORIZON-DEPTH(CM.)	pH	pH
LH	4- 0	48.0
B FCC1	0- 10	48.0
B FCC2	10- 30	24.0
B M	30- 50	8.5
A E	50- 70	15.0
B T	70-	10.0



# MILNER

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 06 15	LUVISOLIC HUMO-FERRIC PODZOL(1978)	%
LONGITUDE(W): 122 41 00	STATUS: MODAL SOIL	TYPE: 5.0
PRECISION (SEC): 05		CLASS: COMPLEX
ELEVATION (M): 12		UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 400 METERS EAST OF #10 HWY AND LATIMER RD INTERSECTION.  
 SURVEY DARK COLORED COATINGS ON PED FACES IN C GJ1 AND C GJ2.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3= 0	ABRUPT			ORGANIC	
B HFCC	0= 8	CLEAR	7.5YR3.0/2.0 MATRIX MOIST 7.5YR4.5/2.0 MATRIX DRY		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B FCC	8= 22	CLEAR	5.0YR3.0/2.0 MATRIX MOIST 5.0YR4.0/6.0 MATRIX DRY	7.5YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B M1	22= 37	GRADUAL	10.0YR3.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		SILTY CLAY LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B M2	37= 55	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.5/4.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
A E	55= 70	CLEAR	5.0Y5.0/3.0 MATRIX MOIST 10.0YR7.0/1.5 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B T1	70= 92	DIFFUSE	10.0YR5.0/2.0 MATRIX MOIST		SILTY CLAY	MODERATE MEDIUM PRISMATIC
B T2	92=120	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SILTY CLAY	MODERATE MEDIUM PRISMATIC
BC	120=157	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SILTY CLAY	MASSIVE
C GJ1	157=197	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE
C GJ2	197+		2.5Y5.0/2.0 MATRIX MOIST			MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
LH	3= 0					
B HFCC	0= 8		FRIABLE SLIGHTLY HARD	ABUNDANT		
B FCC	8= 22		FRIABLE SLIGHTLY HARD	ABUNDANT		
B M1	22= 37		FRIABLE SLIGHTLY HARD	ABUNDANT		
B M2	37= 55		FIRM	PLENTIFUL		
A E	55= 70		FIRM	PLENTIFUL		
B T1	70= 92	STRONG MEDIUM ANGULAR BLOCKY	FIRM	FEW		MANY MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
B T2	92=120	STRONG MEDIUM ANGULAR BLOCKY	VERY FIRM	FEW	FEW FINE DISTINCT	MANY MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	120=157	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM		FEW FINE DISTINCT 10.0YR5.0/6.0	COMMON THIN
C GJ1	157=197	STRONG COARSE SUBANGULAR BLOCKY PSEUDO	VERY FIRM		COMMON FINE DISTINCT 10.0YR5.0/6.0	
C GJ2	197+	STRONG COARSE SUBANGULAR BLOCKY PSEUDO	VERY FIRM		COMMON FINE DISTINCT 10.0YR5.0/6.0	

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
LH	3- 0	
B HFCC	0- 8	COMMON SPHERICAL
B FCC	8- 22	COMMON SPHERICAL
B M1	22- 37	FEW FINE SPHERICAL
B M2	37- 55	FEW FINE SPHERICAL
A E	55- 70	
B T1	70- 92	
B T2	92-120	
BC	120-157	
C GJ1	157-197	
C GJ2	197+	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE				
LH 3- 0	2	2	5.2	2	4	5.0	49.01	1.63		
B HFCC 0- 8	2	1	5.0	2	4	4.6	5.10	.31		
B FCC 8- 22	2	1	5.4	2	4	4.6	3.42	.61		
B M1 22- 37	2	1	5.2	2	4	4.2	.87	.06		
B M2 37- 55	2	1	5.1	2	4	4.1	.52	.05		
A E 55- 70	2	1	5.1	2	4	4.2	.23	.03		
B T1 70- 92	2	1	6.6	2	4	5.7		.02		
B T2 92-120	2	1	6.9	2	4	6.1				
BC 120-157	2	1	7.0	2	4	6.2				
C GJ1 157-197	2	1	7.4	2	4	6.3				
C GJ2 197+	2	1	7.6	2	4	6.5				

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LH 3- 0	16.40	3.07	.11	.93	41.7				
B HFCC 0- 8	7.66	1.64	.07	.45	28.1	1	0.8	3	0.4
B FCC 8- 22	2.42	.71	.06	.37	26.1	1	1.3	3	0.5
B M1 22- 37	1.81	1.07	.06	.36	19.0	1	0.7	3	0.2
B M2 37- 55	2.47	3.04	.14	.31	22.5	1	0.8	3	0.2
A E 55- 70	4.37	6.47	.25	.21	26.2	1	1.1		
B T1 70- 92	10.52	10.16	.38	.23	21.3	1	0.7		
B T2 92-120	10.48	9.82	.42	.23	19.5	1	0.7		
BC 120-157	11.47	11.71	1.01	.29	20.8	1	0.5		
C GJ1 157-197	10.92	11.31	.75	.34	20.7	1	0.5		
C GJ2 197+	10.01	10.98	.94	.34	20.9	1	0.4		

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				D1 PPM.	D2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
LH 3- 0	1				53.3	76.2	39.0	18.5	96.7	
B HFCC 0- 8	1	0.5	3	0.3	11.4	18.3	9.3	18.2	76.6	
B FCC 8- 22	1	1.5	3	0.8	18.9	42.0	19.5	27.8	130.0	
B M1 22- 37	1	0.6	3	0.3	4.9	6.7	19.5	38.9	74.4	
B M2 37- 55	1	0.7	3	0.2	5.7	7.2	33.0	46.8	83.2	
A E 55- 70	1	0.9			3	5.4	17.5	52.7	83.4	214.1
B T1 70- 92	1	0.4			8.9	65.4	3.3	53.5	81.8	371.2
B T2 92-120	1	0.5			7.1	126.1	2.5	52.2	81.4	872.2
BC 120-157	1	0.3			7.7	170.6	2.0	52.3	81.4	819.0
C GJ1 157-197	1	0.3			6.3	227.5	3.8	53.8	86.6	920.2
C GJ2 197+	1	0.2			5.4	237.6	0.5	55.3	146.5	868.6

Horizon (Depth-m)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace	>65% est.	40-65% est.	20-40% est.	<20% est.	Trace
CgJ1 (157-197)	vernaculite	chlorite, mica, intersratifid	vernaculite-chlorite			kaolinite, amfiboles, feldspars, quartz	montmorillonite, vernaculite	mica	quartz, chlorite, plagioclase, feldspars, kaolinite	

# MILNER

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 10 52	LUVISOLIC HUMO-FERRIC PODZOL(1978)	% TYPE:	4.0	COMPLEX
LONGITUDE(W):	122 38 34		CLASS:	UNDULATING	
PRECISION (SEC):	05	STATUS:			
ELEVATION (M):	12	MUDAL SOIL			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

THE BC HAS OCCASIONAL, VERY DARK BROWN (10YR2.0/2.0) COATINGS ON CLEAVAGE PLANES.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
L	5- 3	ABRUPT		ORGANIC		
HF	3- 0	ABRUPT		ORGANIC		
B FCC1	0- 25	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B FCC2	25- 47	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR6.0/3.5 MATRIX DRY	SILTY CLAY LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	
B M	47- 57	CLEAR	10.0YR5.0/3.5 MATRIX MOIST 10.0YR6.5/4.0 MATRIX DRY	CLAY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY	
B T	57- 87	GRADUAL	10.0YR4.5/2.0 MATRIX MOIST	CLAY	MODERATE TO STRONG COARSE ANGULAR BLOCKY	MODERATE TO STRONG FINE TO MEDIUM ANGULAR BLOCKY
BC	87-		10.0YR4.0/1.0 MATRIX MOIST	CLAY	STRONG COARSE ANGULAR BLOCKY	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCRIP. 1
L	5- 3				
HF	3- 0		ABUNDANT		
B FCC1	0- 25	VERY FRIABLE	ABUNDANT		MANY FINE THROUGHOUT MATRIX SPHERICAL
B FCC2	25- 47	FRIABLE	ABUNDANT		MANY FINE THROUGHOUT MATRIX SPHERICAL
B M	47- 57	FIRM	PLENTIFUL	FEW FINE FAINT	
B T	57- 87	VERY FIRM	FEW	FEW FINE FAINT	
BC	87-	VERY FIRM			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
L	5- 3									
HF	3- 0	2	4.1	21.63	1.30					
B FCC1	0- 25	1	5.1	3.13	.20	1.23	.49	.09	.32	35.5
B FCC2	25- 47	1	5.2	2.03	.10	.29	.37	.09	.19	30.7
B M	47- 57	1	4.9	.52	.10	3.60	2.46	.14	.24	30.0
B T	57- 87	1	4.9		.00	10.07	8.52	.30	.32	35.0
BC	87-	1	5.4		.00	14.48	10.57	.41	.34	34.6

HORIZON-DEPTH(CM.)	P1 DDM.	P2 DDM.
L	5- 3	
HF	3- 0	65.9
B FCC1	0- 25	41.4
B FCC2	25- 47	18.5
B M	47- 57	18.8
B T	57- 87	16.9
BC	87-	6.3

# MILNER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION  
 LATITUDE (N): 49 06 04  
 LONGITUDE (W): 122 41 02  
 PRECISION (SEC): 05  
 ELEVATION (M): 9

CLASSIFICATION  
 LUVISOLIC HUMO-FERRIC PODZOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT.: MARINE

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS		
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT	SHRINKAGE LIMIT
B F1 0-20	2	1	4.2	.96	35.1	18.6	34.0	32.6	48.2	29.8
B F2 20-38	2	1	4.2	1.27	35.6	20.3	31.3	32.3	53.2	27.6
B M 38-74	2	1	5.9	1.70	35.7	18.4	27.2	24.4	48.4	23.4
A E 74-102	2	1	6.1	1.71	36.5	17.7	23.5	23.4	46.5	23.5
BA 102-140	2	1	6.3	1.61	41.3	21.5	28.1	24.0	50.3	22.5

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %									
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
Bf1	0-20																
Bf2	20-38	2.56	2.76		27.0	29.8						100.0	96.0	83.0		27.0	
Bm	38-74	2.58	2.78		24.9	27.6						100.0	98.0	90.0		32.0	
Ae	74-102	2.60	2.77		21.0	23.4						100.0	99.0	93.0		34.0	
BA	102-140	2.63	2.80		21.2	23.5						100.0	100.0	92.0		34.0	
Bt	140-165	2.61	2.79		20.0	22.5						100.0	100.0	96.0		39.0	

# MILNER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION  
 -----  
 LATITUDE (N): 49 07 09  
 LONGITUDE (W): 122 35 57  
 PRECISION (SEC): 05  
 ELEVATION (M): 20

CLASSIFICATION  
 -----  
 LUVISOLIC HUMO-FERRIC PODZOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC IS CLAYEY  
 GENETIC MAT. IS MARINE

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PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-25	2	4	4.5	.90	51.4	23.0	43.1		
B F 25-41	2	4	5.5	1.51	35.2	13.9	22.3	41.1	16.6
B M 41-69	2	4	7.0	1.55	37.7	18.1	27.0		
A E 69-102	2	4	7.3	1.52	37.3	17.7	25.4	48.0	26.0
B T 102-137	2	4	7.6	1.38	45.5	23.9	35.5	57.8	34.7

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-25	2.39	2.57								100.0	87.6	79.2	23.7	
Bf	25-41	2.64	2.77			22.0					100.0	88.3	77.5	24.8	
Bm	41-69	2.61	2.80								100.0	96.7	95.8	38.8	
Ae	69-102	2.63	2.80			18.0					100.0	95.1	88.1	35.8	
Bt	102-127	2.65	2.82			21.0					100.0	98.7	99.0	54.2	

# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 11 25	ELUVIATED EUTRIC BRUNISOL (1978)	%	3.0
LONGITUDE (W):	122 41 06			
PRECISION (SEC):	05			
ELEVATION (M):	5			
		STATUS: MODAL SOIL	TYPE: CLASS:	COMPLEX UNDLATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: MODERATELY WELL DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 10	ABRUPT	10.0YR2.5/2.5 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	MODERATE FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
A EJ	10- 37	CLEAR	10.0YR4.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY	FIRM	ABUNDANT
B M1	37- 60	CLEAR	10.0YR4.5/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FIRM	FEW
B M2	60- 75	CLEAR	10.0YR5.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	VERY FINE SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	FEW
BC	75- 95	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	MODERATE FINE TO COARSE SUBANGULAR BLOCKY	FIRM	FEW
C GJ	95-		10.0YR4.0/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	FIELD PH
A P	0- 10		STRONGLY ACID
A EJ	10- 37		MEDIUM ACID
B M1	37- 60		MEDIUM ACID.
B M2	60- 75	FEW FINE FAINT	MEDIUM ACID
BC	75- 95	COMMON FINE DISTINCT 5.0YR4.0/6.0	SLIGHTLY ACID
C GJ	95-	COMMON FINE DISTINCT 5.0YR5.0/6.0	MEDIUM ACID

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 10	2	1	5.5	5.86	.46	12.03	3.61	.12	1.36	30.8
A EJ	10- 37	2	1	5.8	1.27	.12	6.98	2.35	.17	.39	17.6
B M1	37- 60	2	1	5.8	.93	.08	7.22	1.89	.14	.30	17.4
B M2	60- 75	2	1	6.0							
BC	75- 95	2	1	6.1							
C GJ	95-	2	1	6.0							

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 10	8.0
A EJ	10- 37	6.7
B M1	37- 60	13.5
B M2	60- 75	61.0
BC	75- 95	
C GJ	95-	

# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELOANA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE
LATITUDE (N): 49 08 13		ELUVIATED EUTRIC BRUNISOL(1978)	% TYPE: 5.0
LONGITUDE (W): 122 15 42		STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05			UNDULATING
ELEVATION (M): 6			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION THE CORNER OF ANDUSON AVE. AND WALTERS ST., MATSQUI.  
 A P AND A EJ ARE VESICULAR, DUE IN PART TO EARTHWORKS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
A EJ	17- 35	GRADUAL	10.0YR4.5/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	WEAK FINE PLATY
B TJ	35- 47	CLEAR	10.0YR4.0/3.5 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B M1	47- 57	CLEAR	10.0YR4.0/3.0 MATRIX MOIST	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B M2	57- 80	DIFFUSE	10.0YR3.5/3.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B M3	80-112	ABRUPT	10.0YR4.0/3.5 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II A EJ	112-135	ABRUPT		SAND	SINGLE GRAIN	
B GJ	135-165		10.0YR4.0/3.0 MATRIX MOIST	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II C GJ	165-202			SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A P	0- 17	FRIABLE SLIGHTLY HARD	ABUNDANT		
A EJ	17- 35	FRIABLE SLIGHTLY HARD	ABUNDANT		
B TJ	35- 47	FRIABLE SLIGHTLY HARD	PLENTIFUL		COMMON THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
B M1	47- 57	VERY FRIABLE	PLENTIFUL		
B M2	57- 80	FRIABLE	PLENTIFUL		
B M3	80-112	FRIABLE	PLENTIFUL		
II A EJ	112-135	LOOSE	FEW		
B GJ	135-165	FRIABLE	FEW	FEW	
II C GJ	165-202	VERY FRIABLE		MEDIUM DISTINCT 7.5YR4.0/6.0 COMMON MEDIUM DISTINCT 7.5YR4.5/5.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0-17	2	1	5.5	2	4	4.8	3.25	.26
A EJ 17-35	2	1	5.8	2	4	5.1	1.04	.10
B TJ 35-47	2	1	5.9	2	4	4.9	.70	.07
B M1 47-57	2	1	5.8	2	4	5.2	.23	.05
B M2 57-80	2	1	6.0	2	4	5.1	.23	.03
B M3 80-112	2	1	6.4	2	4	5.1		.01
II A EJ 112-135	2	1	6.2	2	4	5.3		
B GJ 135-165	2	1	6.0	2	4	5.0		
II C GJ 165-202	2	1	6.1	2	4	5.3		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P 0-17	6.86	1.60	.09	.30	21.4	1	1.1	1	0.7	8.5
A EJ 17-35	5.34	.92	.10	.04	14.6	1	1.1	1	0.9	13.2
B TJ 35-47	4.39	.97	.08	.03	10.9	1	0.8	1	0.5	25.5
B M1 47-57	2.23	.49	.05	.02	6.2	1	0.6	1	0.4	36.4
B M2 57-80	3.46	1.22	.08	.03	9.8	1	0.7	1	0.3	18.3
B M3 80-112	6.10	2.29	.20	.04	10.9	1	0.7	1	0.3	8.7
II A EJ 112-135	1.20	.40	.06	.02	3.0	1	0.4	1	0.2	14.9
B GJ 135-165										
II C GJ 165-202										

HORIZON-DEPTH(CM.)	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
A P 0-17	24.8	7.0	32.3	152.2	116.4
A EJ 17-35	40.0	4.0	37.5	105.2	862.4
B TJ 35-47	62.3	3.8	37.3	74.1	735.5
B M1 47-57	86.0	3.3	29.9	55.2	558.7
B M2 57-80	56.0	4.5	38.7	63.1	634.8
B M3 80-112	43.3	2.5	36.7	65.0	734.0
II A EJ 112-135	42.2	2.0	16.6	33.1	341.4
B GJ 135-165			34.1	61.6	
II C GJ 165-202			27.1	44.3	



# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 08 27	ELUVIATED	EUTRIC BRUNISOL (1978)	%	4.0
LONGITUDE (W):	122 12 21	STATUS:	MODAL SOIL	TYPE:	COMPLEX
PRECISION (SEC):	05			CLASS:	GENTLY UNDULATING
ELEVATION (M):	6				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: WELL DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 25	ABRUPT	10.0YR4.0/1.5 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M	25- 70	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
II B M	70- 90	ABRUPT	10.0YR5.0/3.5 MATRIX MOIST	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	FEW
BC	90-102	ABRUPT	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	FEW
II C	102-			SAND	SINGLE GRAIN	LOOSE	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 25	2	1	5.5	2	4	5.0	2.84	.24
B M 25- 70	2	1	6.0	2	4	5.2	.46	.05
II B M 70- 90	2	1	6.7	2	4	3.5	.20	.02
BC 90-102	2	1	6.4	2	4	5.5	.20	.03
II C 102-	2	1	6.7	2	4	5.5		

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED			
	CA	MG	NA	K	P1 PPM.	P2 PPM.	S PPM.	
A P 0- 25	4.56	1.98	.09	.16	21.1	5.7	7.2	5.9
B M 25- 70	4.03	.91	.09	.14	14.8	4.7	8.4	3.1
II B M 70- 90	2.32	.65	.06	.10	8.2	7.9	144.0	2.0
BC 90-102	2.72	1.04	.08	.12	10.4	6.1	145.0	3.1
II C 102-	.74	.22	.06	.06	3.1	6.6		0.3

# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELDONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 11 33	ELUVIATED EUTRIC BRUNISOL(1978)	% TYPE: 3.0 COMPLEX GENTLY UNDULATING
LONGITUDE(W): 121 49 24		
PRECISION (SEC): 05		
ELEVATION (M): 14		
STATUS: MOQAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM GRANULAR	WEAK MEDIUM SUBANGULAR BLOCKY
A EJ	20- 35	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST	LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY	GRANULAR
B M	35- 62	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST	VERY FINE SANDY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY	
BC	62- 87	GRADUAL	10.0YR4.0/3.0 MATRIX MOIST	VERY FINE SANDY LOAM	MASSIVE	
C	87-102		10.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20	FRIABLE	P.ENTIFJL	
A EJ	20- 35	FRIABLE	FEW	
B M	35- 62	FRIABLE	VERY FEW	FAINT
BC	62- 87	VERY FRIABLE		FAINT
C	87-102	FRIABLE		FEW FINE FAINT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE	METHOD				CA	MG	NA	K	
A P 0- 20	2	1	6.1	2.77	.25	12.58	2.65	.19	.39	24.0
A EJ 20- 35	2	1	6.3	.76	.08	8.81	1.29	.13	.18	15.9
B M 35- 62	2	1	6.6	.44	.05	6.44	1.80	.11	.16	11.9
BC 62- 87	2	1	6.6	.35	.05	5.75	1.96	.11	.25	11.2
C 87-102	2	1	6.5	.29	.05	8.31	3.22	.14	.25	15.0

HORIZON-DEPTH(CM.)	P1 PPM.
A P 0- 20	23.0
A EJ 20- 35	7.0
B M 35- 62	16.0
BC 62- 87	16.0
C 87-102	10.0

# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 16 18	ELUVIATED EUTRIC BRUNISOL (1978)	% TYPE: 2.0
LONGITUDE (W): 121 42 45	STATUS: MODAL SOIL	COMPLEX: GENTLY UNDULATING
PRECISION (SEC): 05		
ELEVATION (M): 20		
<u>PARENT MATERIAL &amp; LANDFORM</u>		
<u>UPPER STRATIGRAPHIC UNIT</u>		
SPEC. CLASTIC 1: SILTY GENETIC MAT.: FLUVIAL SURFACE EXPRES.: LEVEL		
DRAINAGE: MODERATELY WELL DRAINED		
RUNOFF: MEDIUM		
PERVIOUSNESS: MODERATE		

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PROFILE DESCRIPTION

HORIZON	DEPTH (CM)	THICKNESS	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	5-	4	ABRUPT		ORGANIC			
H	4-	0	ABRUPT	10.0YR2.0/1.5 MATRIX MOIST	ORGANIC	WEAK FINE GRANULAR	VERY FRIABLE	ABUNDANT
A HJ	0-	10	GRADUAL	10.0YR3.0/2.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
A EJ	10-	25	DIFFUSE	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B M	25-	45	DIFFUSE	10.0YR4.0/2.5 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
BC	45-	67	DIFFUSE	10.0YR4.0/2.5 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
C GJ1	67-	90	DIFFUSE	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	FRIABLE	FEW
C GJ2	90-			10.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY	FIRM	VERY FEW

HORIZON	DEPTH (CM)	THICKNESS	MOTTLES 1	MOTTLES 2
L	5-	4		
H	4-	0		
A HJ	0-	10		
A EJ	10-	25		
B M	25-	45		
BC	45-	67	FEW FINE FAINT	
C GJ1	67-	90	COMMON MEDIUM FAINT	
C GJ2	90-		MANY MEDIUM DISTINCT 7.5YR4.0/4.0	5.0YR4.0/4.0

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PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
L	5- 4	2	5.9	48.55	1.78					
H	4- 0	2	5.9	25.58	1.24					
A HJ	0- 10	2	6.0	1.16	.10	7.61	1.18	.09	.34	14.8
A EJ	10- 25	2	5.8	.58	.05	5.20	1.27	.06	.33	10.9
B M	25- 45	2	5.4	.35	.04	4.41	1.17	.08	.25	11.0
BC	45- 67	2	5.4			6.03	1.32	.10	.20	11.9
C GJ1	67- 90	2	5.5			6.77	1.16	.10	.19	13.0
C GJ2	90-	2	5.5			8.05	2.15	.13	.15	17.0

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
L	5- 4	66.0
H	4- 0	42.5
A HJ	0- 10	45.5
A EJ	10- 25	17.7
B M	25- 45	119.0
BC	45- 67	12.0
C GJ1	67- 90	107.0
C GJ2	90-	10.5
		128.0
		111.0
		77.5

# MONROE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

<p>LOCATION ----- LATITUDE (N): 49 08 13 LONGITUDE (W): 122 14 55 PRECISION (SEC): 05 ELEVATION (M): 6</p>	<p>CLASSIFICATION ----- ELUVIATED EUTRIC BRUNISOL (1978) STATUS: MODAL SOIL</p>
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC 1: SILTY  
GENETIC MAT.: FLUVIAL  
SURFACE EXPRES.: LEVEL

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0- 20	2	4	4.9	1.14	41.8	11.9	30.1	36.0	48.6
B m 20- 58	2	4	5.1	1.04	40.3	11.6	32.3	33.0	42.8
BC 58- 97	2	4	5.3	1.46	21.3	6.8	23.0		26.4
C 97-127	2	4	5.4	1.40	19.0	5.4	23.1		26.3

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0- 20	2.56	2.68	90.7	30.8	32.5	24.0					100.0	98.0	95.0	25.0
Bm	20- 58	2.63	2.74	99.2	28.2	29.7	21.5					100.0	99.0	97.0	26.0
BC	58- 97	2.64	2.73	110.7	27.0	28.3	14.5					100.0	76.0	64.0	11.0
C	97-127	2.63	2.69	110.8	24.0	24.8	15.0					100.0	69.5	50.0	7.0

# MURRAYVILLE

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 07 46	GLEVED HUMO-FERRIC PODZOL(1978)		%	5.0
LONGITUDE (W):	122 35 15			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL		CLASS:	GENTLY UNDULATING
ELEVATION (M):	15				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: IMPERFECTLY DRAINIED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 200 METERS WEST OF INTERSECTION OF SALMON RIVER AND  
 SPRINGBROOK RD., LANGLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A H	0- 2	ABRUPT			LOAM	
B F1	2- 17	GRADUAL	5.0YR3.0/3.5 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	17- 32	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR4.5/4.0 MATRIX DRY		FINE SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B FGJ	32- 52	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	7.5YR4.0/4.0 MATRIX MOIST	LOAMY FINE SAND	WEAK FINE SUBANGULAR BLOCKY
II A EGJ	52- 62	CLEAR	10.0YR5.0/4.0 MATRIX MOIST	2.5Y5.0/4.0 MATRIX MOIST	CLAY LOAM	MODERATE TO STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY
II AB	62- 75	CLEAR	2.5Y5.0/4.0 MATRIX MOIST		CLAY	STRONG MEDIUM PRISMATIC
II B TG1	75- 92	GRADUAL	5.0Y4.0/2.0 MATRIX MOIST		CLAY	STRONG MEDIUM PRISMATIC
II B TG2	92-122	DIFFUSE	5.0Y4.5/2.0 MATRIX MOIST		CLAY	STRONG MEDIUM PRISMATIC
II B C	122-142	DIFFUSE	5.0Y5.5/1.5 MATRIX MOIST		CLAY	MODERATE MEDIUM PRISMATIC
II C G	142-		5.0Y4.5/2.0 MATRIX MOIST		CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
A H	0- 2		VERY FRIABLE			
B F1	2- 17		VERY FRIABLE	ABUNDANT		
B F2	17- 32		VERY FRIABLE	ABUNDANT		
B FGJ	32- 52	WEAK FINE GRANULAR	VERY FRIABLE	ABUNDANT		
II A EGJ	52- 62		FIRM	ABUNDANT	FEW FINE FAINT	
II AB	62- 75	STRONG ANGULAR BLOCKY	VERY FIRM	PLENTIFUL	FEW FINE DISTINCT 7.5YR5.0/6.0	
II B TG1	75- 92	STRONG ANGULAR BLOCKY	VERY FIRM	FEW	COMMON FINE PROMINENT 5.0YR5.0/8.0	COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
II B TG2	92-122	STRONG ANGULAR BLOCKY	VERY FIRM	FEW	COMMON FINE DISTINCT 5.0YR5.0/6.0	COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
II B C	122-142	MODERATE COARSE SUBANGULAR BLOCKY	VERY FIRM	VERY FEW	COMMON MEDIUM DISTINCT 5.0YR4.5/6.0	
II C G	142-	STRONG COARSE SUBANGULAR BLOCKY PSEUDO	VERY FIRM		COMMON MEDIUM DISTINCT 5.0YR4.0/7.0	

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
A H	0- 2	
B F1	2- 17	FEW FINE SPHERICAL
B F2	17- 32	FEW FINE SPHERICAL
B FGJ	32- 52	
II A EGJ	52- 62	
II AB	62- 75	
II B TG1	75- 92	
II B TG2	92-122	
II B C	122-142	
II C G	142-	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A H	0- 2									
B F1	2- 17	2	5.5	2.26	.13			.45	.10	16.5
B F2	17- 32	2	5.9	1.33	.08			.09	.05	11.5
B FGJ	32- 52	2	5.9	.81	.06			.14	.05	6.8
II A EGJ	52- 62	2	5.3	.52	.04	1.50	2.10	.19	.08	19.3
II AB	62- 75	2	5.2	.35	.03	3.02	3.78	.39	.16	24.3
II B TG1	75- 92	2	5.7	.35	.03	9.99	15.23	1.16	.36	38.5
II B TG2	92-122	2	7.1	.23	.03	11.32	18.36	1.68	.36	36.9
II B C	122-142	2	7.3	.17	.02	11.65	18.09	2.14	.38	37.2
II C G	142-	2								

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A H	0- 2	
B F1	2- 17	10.4
B F2	17- 32	15.0
B FGJ	32- 52	12.9
II A EGJ	52- 62	2.1
II AB	62- 75	1.0
II B TG1	75- 92	2.1
II B TG2	92-122	2.1
II B C	122-142	8.4
II C G	142-	52.0

# NEAVES

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: HAL KELUWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 16 15	REGO GLEYSOL (1978)	%	1.0
LONGITUDE (W):	122 40 39		TYPE:	COMPLEX
PRECISION (SEC):	02	STATUS: MUDAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED 800 METERS EAST OF HARRIS-MCNEIL RD INTERSECTION, PITT MEADOWS.  
 REMNANTS OF OLD ROOTS PENETRATE TO 100CM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	10.0YR3.5/2.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
C G1	20- 35	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	PLENTIFUL
C G2	35- 50	CLEAR	2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	PLENTIFUL
C G3	50- 75	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	FEW
C G4	75- 97	GRADUAL	2.5Y4.5/0.0 MATRIX MOIST	LOAM	MASSIVE	FIRM	
C G5	97-+		2.5Y4.5/0.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
A P	0- 20	
C G1	20- 35	
C G2	35- 50	FEW FINE FAINT 10.0YR5.0/6.0
C G3	50- 75	COMMON MEDIUM PROMINENT 5.0YR4.0/7.0
C G4	75- 97	MANY MEDIUM PROMINENT 7.5YR5.5/5.0
C G5	97-+	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	4.7	2	4	7.08	.49
C G1	20- 35	2	1	5.4	2	4	2.26	.16
C G2	35- 50	2	1	6.1	2	4	5.5	.11
C G3	50- 75	2	1	6.4	2	4	6.1	.04
C G4	75- 97	2	1	6.6	2	4	6.3	
C G5	97-+	2	1	6.6	2	4	6.0	

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	P1 DPM.	P2 DPM.	S DPM.	CU DPM.	ZN DPM.
	CA	MG	NA	K							
A P	0- 20	4.29	.58	.06	.10	23.0	19.7	30.6	25.2	13.8	38.4
C G1	20- 35	4.07	2.17	.08	.03	10.4	2.6	9.4	10.7	14.5	46.3
C G2	35- 50	4.83	3.46	.10	.04	10.4	1.5	68.6	4.3	18.0	53.4
C G3	50- 75	5.34	3.89	.11	.06	10.8	.5	116.9	8.4	24.1	65.3
C G4	75- 97						0.0	105.7	26.2	25.4	62.3
C G5	97-+						0.0	128.9	36.0	20.9	64.2

# NEPTUNE

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE (N): 49 02 12	CUMULIC REGOSOL (1978)	X TYPE: 2.0
LONGITUDE (W): 123 03 54	STATUS: MODAL SOIL	CLASS: COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 3		

**PARENT MATERIAL & LANDFORM**

<b>UPPER STRATIGRAPHIC UNIT</b>	<b>MIDDLE STRATIGRAPHIC UNIT</b>
GENETIC MAT.: ANTHROPOGENIC	SPEC. CLASTIC: SANDY GENETIC MAT.: MARINE SURFACE EXPRES.: SUBDUED

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

**ADDITIONAL NOTES**

THE AH HAS SCATTERED PIECES OF SHELLS AND BONES. THE C1 HAS SCATTERED GRAVELS AND BITS OF SHELLS. THE A HB HAS ABUNDANT CLAM AND OTHER SHELLS. AT THE TOP AND BOTTOM WITH BODD IN THE CENTER. IN THE C2 THE SAND BECOMES COARSER AND MORE GRAVELLY WITH DEPTH.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH (CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
A H	0- 18	10.0YR2.0/2.0 MATRIX MOIST	SAND	WEAK COARSE GRANULAR	SINGLE GRAIN	LOOSE
C 1	18- 37	2.5Y4.0/4.0 MATRIX MOIST 5.0Y6.0/2.0 MATRIX DRY	SAND	SINGLE GRAIN		LOOSE
A HB	37- 63	10.0YR2.0/2.0 MATRIX MOIST	SAND	WEAK COARSE GRANULAR	SINGLE GRAIN	
C 2	63-	5.0Y6.0/2.5 MATRIX MOIST	SAND	SINGLE GRAIN		LOOSE

HORIZON	THICKNESS DEPTH (CM)	ROOTS 1	FIELD PH
A H	0- 18	ABUNDANT	NEUTRAL
C 1	18- 37	FEW	MILDLY ALKALINE
A HB	37- 63	PLENTIFUL	
C 2	63-		MODERATELY ALKALINE



# NICHOLSON

UNIT TYPE: SERIES

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 04 32	PUDZOLIC GRAY LUVISOL (1978)	X TYPE: 6.0 CLASS: COMPLEX GENTLY ROLLING
LONGITUDE (W): 122 26 20		
PRECISION (SEC): 05		
ELEVATION (M): 110		
STATUS: MODAL SOIL		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 800 METERS WEST OF CORNER OF BRADNER AND DOWNES RDS.,  
 WATSOUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	CLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 10	CLEAR	5.0YR3.0/6.0 MATRIX MOIST 5.0YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	GRANULAR
B F1	10- 20	GRADUAL	5.0YR4.0/6.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	20- 30	CLEAR	5.0YR4.0/6.0 MATRIX MOIST 7.5YR5.0/7.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
II A E	30- 42	CLEAR	10.0YR5.0/4.0 MATRIX MOIST 10.0YR6.5/3.0 MATRIX DRY	SILTY CLAY LOAM	STRONG FINE TO MEDIUM SUBANGULAR BLOCKY	
II AB	42- 52	GRADUAL	10.0YR4.5/2.5 MATRIX MOIST	SILTY CLAY LOAM	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	
II B T1	52- 77	DIFFUSE	10.0YR5.0/1.5 MATRIX MOIST	SILTY CLAY LOAM	MODERATE COARSE PRISMATIC	STRONG COARSE ANGULAR BLOCKY
II B T2	77-100	DIFFUSE	10.0YR5.0/1.5 MATRIX MOIST	SILTY CLAY	MODERATE COARSE PRISMATIC	STRONG COARSE ANGULAR BLOCKY
BC	100-120	DIFFUSE	10.0YR4.5/2.5 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE ANGULAR BLOCKY	
C	120-150		10.0YR4.5/2.5 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE ANGULAR BLOCKY PSEUDO	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1	CONCRETION AND NODULE DESCRIP. 1
A P	0- 10	FRIABLE SOFT	ABUNDANT			COMMON FINE SPHERICAL
B F1	10- 20	FRIABLE SOFT	ABUNDANT			COMMON FINE SPHERICAL
B F2	20- 30	FRIABLE SOFT	ABUNDANT			
II A E	30- 42	FIRM HARD	ABUNDANT	COMMON FINE FAINT		
II AB	42- 52	VERY FIRM VERY HARD	PLENTIFUL			
II B T1	52- 77	VERY FIRM VERY HARD	PLENTIFUL		COMMON MDD, THICK ON PED FACES- UNSPECIFIED	
II B T2	77-100	VERY FIRM VERY HARD	FEW		COMMON THIN ON PED FACES- UNSPECIFIED	
BC	100-120	VERY FIRM EXTREMELY HARD			FEW THIN ON PED FACES- UNSPECIFIED	
C	120-150					

PHYSICAL & CHEMICAL DATA

PH 1				PH 2			ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0-10	2	5.4	2	4	4.6	4.18	.23
B F1	10-20	2	5.7	2	4	4.7	2.26	.11
B F2	20-30	2	5.8	2	4	4.9	2.26	.10
II A E	30-42	1	5.0	2	4	4.2	.52	.03
II AB	42-52	2	5.1	2	4	4.4	.17	.02
II B T1	52-77	1	6.2	2	4	5.9	.17	.01
II B T2	77-100	2	6.5	2	4	6.2		.02
BC	100-120	2	6.7	2	4	6.3		
C	120-150	1	6.7	2	4	6.4		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
A P	0-10	3.93	1.72	.05	.38	23.9			
B F1	10-20	1.55	.52	.04	.34	19.4	1	1.1	3
B F2	20-30	.72	.39	.05	.34	16.9	1	1.2	3
II A E	30-42	3.08	3.06	.10	.26	21.5	1	1.0	3
II AB	42-52	6.93	5.34	.20	.20	22.0	1	.8	3
II B T1	52-77	10.26	9.35	.27	.23	20.4	1	.7	3
II B T2	77-100	11.73	10.29	.26	.23	20.3	1	.8	
BC	100-120						1	.4	
C	120-150						1	.4	0.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)		METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT								
A P	0-10				9.9	16.9	7.4	18.9	65.1	13.4
B F1	10-20	1	1.5	3	4.8	6.9	3.1	21.7	66.3	2.6
B F2	20-30	1	1.7	3	5.6	8.3	19.6	24.5	63.1	1.5
II A E	30-42	1	1.0	3	0.7	1.4	19.5	37.4	66.7	3.1
II AR	42-52	1	.9	3	3.7	5.4	7.1	37.3	64.7	3.1
II B T1	52-77	1	.6	3	3.3	102.4	2.3	39.6	72.7	6.7
II B T2	77-100	1	.6		0.0	131.7	1.8	40.1	72.0	2.1
BC	100-120	1	.3					37.7	65.3	2.6
C	120-150	1	.3	3	.0			38.6	71.6	2.6

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)				
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	.2U CLAY TOTAL	
A P	0-10				
B F1	10-20	9	69	22	9
B F2	20-30				
II A E	30-42	15	55	28	10
II AB	42-52				
II B T1	52-77	18	50	32	12
II B T2	77-100				
BC	100-120				
C	120-150	18	50	32	12

# NICHOLSON

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL URC

<p>LOCATION</p> <p>LATITUDE (N): 49 03 37          LONGITUDE (W): 122 24 08          PRECISION (SEC): 05          ELEVATION (M): 113</p>	<p>CLASSIFICATION</p> <p>PODZOLIC GRAY LUVISOL (1978)          STATUS: MODAL SOIL</p>
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PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VAL JE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0-20	2	4	4.9	1.93	44.4	13.2	41.3	41.7	42.2
B FCC 20-36	2	4	5.0	1.01	45.3	13.0	43.4		
II A E 36-46	2	4	4.8	1.25	33.7	11.3	26.0		
II B T 46-102	2	4	4.9	1.74	29.0	13.5	21.6		
II C 102-127	2	4	6.0	1.88	29.9	14.7	19.2		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %			Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry	Optimum Moisture %	>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-20	2.47	2.66									100.0	79.3	77.2	11.1
Bfcc	20-36	2.54	2.76			37.0						100.0	84.3	78.1	7.6
IIAe	36-46	2.60	2.76									100.0	74.5	70.0	14.3
IIBt	46-102	2.65	2.78									100.0	82.8	80.0	26.2
IIC	102-127	2.64	2.79											82.3	30.7

# NICOMEKL

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: DNS KELUWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 05 46	ORTHIC HUMIC GLEYSOL (1978)	% TYPE: 2.0
LONGITUDE (W): 122 48 05	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		GENTLY SLOPING
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 60 METERS WEST OF JOHNSON RD 80 METERS NORTH OF SERPENTINE RIVER, SURREY.  
 THE B G HAS VERTICAL CRACKS 2CM WIDE AND 20CM TO 30CM APART WHEN DRY.  
 ORGANIC STAINING ON WALLS IN C G.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	GRANULAR
AB	17- 22	ABRUPT	10.0YR2.5/2.0 MATRIX MOIST 10.0YR5.5/1.0 MATRIX DRY	CLAY LOAM	MODERATE FINE TO MEDIUM ANGULAR BLOCKY	
B G	22- 60	GRADUAL	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	MODERATE COARSE PRISMATIC
C G	60-		10.0YR4.0/1.5 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 17	FRIABLE SLIGHTLY HARD	PLENTIFUL	
AB	17- 22	FRIABLE HARD	PLENTIFUL	
B G	22- 60	FIRM VERY HARD	FEW	FAINT
C G	60-	FRIABLE		DISTINCT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	D1 SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 17	2	5.5	15.40	.77	5.13	1.50	.23	.06	52.8
AB	17- 22	1	5.4	4.43	.29	1.26	1.27	.20	.02	32.2
B G	22- 60	1	5.0	.95	.07	2.78	1.99	.19	.14	15.9
C G	60-	1	4.3	3.81	.19	.68	2.23	.09	.01	22.3

HORIZON-DEPTH(CM.)	D1 DDM.	
A P	0- 17	24.8
AB	17- 22	59.1
B G	22- 60	31.7
C G	60-	25.1

# NIVEN

UNIT TYPE: SERIES

DATE OF SURVEY: SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 05 27	REGO MUMIC	GLEYSOL (1978)	% TYPE:	0.5
LONGITUDE (W):	122 17 23	STATUS:	VARIANT SOIL	CLASS:	COMPLEX
PRECISION (SEC):	05				NEARLY LEVEL
ELEVATION (M):	5				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

ADDITIONAL NOTES

SITE LOCATION: 100 METERS NORTHWEST OF THE HWY 11-TOWNSHIP LINE RD  
 JUNCTION, WATSOUI. THE C G1 CONTAINS SEVERAL THIN BANDS OF ORGANIC  
 MATERIAL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 15	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	SILTY CLAY	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
C G1	15- 40	CLEAR		SILT	STRATIFIED	FIRM	FEW
C G2	40- 50	ABRUPT	10.0YR5.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	
O M	50-			ORGANIC			

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
A P	0- 15	
C G1	15- 40	
C G2	40- 50	COMMON COARSE PROMINENT
O M	50-	

# NIVEN

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 11 46	REGO GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 41 18	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 02		DEPRESSIONAL TO LEVEL
ELEVATION (M): 3		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
SPEC. CLASTIC 1: SILTY GENETIC MAT.: FLUVIAL SURFACE EXPRES.: VENEER	GENETIC MAT.: ORGANIC

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLD#  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION NEAR SALMON RIVER SOUTH OF FT LANGLEY.  
 C G2 CONSISTS OF ALTERNATE STRATIFIED BANDS OF ORGANIC AND MINERAL MATERIAL. THE O H HAS LAYERS OF STRATIFIED ORGANIC AND MINERAL MATERIAL. THE O M3 HAS ALTERNATE STRATIFIED LAYERS OF PEAT AND SILT. THE MINERAL MATERIAL IS STRONGLY GLEYED.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 13	CLEAR	5.0Y4.5/1.0 MATRIX MOIST 2.5Y5.0/2.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY
C G1	13- 20	CLEAR	5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY PSEUDO
C G2	20- 30	CLEAR	5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	STRATIFIED
O H	30- 42	GRADUAL	10.0YR2.0/2.0 MATRIX MOIST	5.0Y5.0/1.0 MATRIX MOIST	ORGANIC	STRATIFIED
O M1	42- 52	GRADUAL	10.0YR2.5/2.0 MATRIX MOIST		ORGANIC	STRATIFIED
O M2	52- 67	GRADUAL	10.0YR3.0/3.0 MATRIX MOIST		ORGANIC	MASSIVE
O M3	67-				ORGANIC	STRATIFIED

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 13	VERY FIRM	ABUNDANT	COMMON FINE DISTINCT 7.5YR4.0/4.0
C G1	13- 20	VERY FIRM	ABUNDANT	COMMON FINE PROMINENT 7.5YR4.0/4.0
C G2	20- 30	VERY FIRM	ABUNDANT	COMMON FINE PROMINENT 7.5YR5.0/6.0
O H	30- 42	FIRM	PLENTIFUL	
O M1	42- 52	FIRM	VERY FEW	
O M2	52- 67	FIRM		
O M3	67-	FIRM		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE	2					CA	MG	NA	K	
A P	0- 13	2	1	5.2	5.94	.45	7.81	2.03	.15	.16	26.1
C G1	13- 20	2	1	5.2	5.45	.33	4.53	1.50	.10	.06	28.9
C G2	20- 30	2	1	5.2	7.42	.44	5.18	1.57	.12	.08	37.7
O H	30- 42	2	1	5.2	18.04	.85	8.56	3.04	.07	.09	59.3
O M1	42- 52				39.53	1.79	15.02	5.10	.16	.00	84.5
O M2	52- 67				30.33	1.53	10.74	3.19	.15	.09	70.7
O M3	67-				34.39	1.45	13.08	5.08	.23	.14	74.5

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P	0- 13	11.0
C G1	13- 20	10.0
C G2	20- 30	7.5
O H	30- 42	6.5
O M1	42- 52	3.5
O M2	52- 67	3.0
O M3	67-	2.5

# PAGE

UNIT TYPE: SERIES

DATE OF SURVEY: 49 12 27 SURVEYOR: MAL KELDNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: RECONNAISSANCE SURVEY

LOCATION: LATITUDE (N): 49 12 27  
 LONGITUDE (W): 122 43 22 ORTHIC GLEYSOL (1978)  
 PRECISION (SFC): 05 TYPE: COMPLEX  
 ELEVATION (M): 4 STATUS: MODAL SOIL CLASS: NEARLY LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 18	ABRUPT	10.0YR4.0/2.5 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
B G	18- 33	CLEAR	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C G1	33- 47	CLEAR	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G2	47- 65	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G3	65- 85	CLEAR	2.5Y4.0/2.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	
C G4	85- 98	ABRUPT	2.5Y3.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	
II C G	98-		10.0YR4.5/2.0 MATRIX MOIST	FINE SAND	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 18	FIRM	ABUNDANT	FEW FINE FAINT	
B G	18- 33	FIRM	PLENTIFUL	COMMON MEDIUM DISTINCT 5.0YR4.5/4.0	
C G1	33- 47	FIRM	FEW	MANY MEDIUM DISTINCT 7.5YR5.0/6.0	7.5YR4.0/4.0
C G2	47- 65	FRIABLE	FEW	MANY MEDIUM DISTINCT 7.5YR5.0/6.0	7.5YR4.0/4.0
C G3	65- 85	FRIABLE	FEW	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	2.5YR3.0/4.0
C G4	85- 98	FIRM		MANY MEDIUM PROMINENT 5.0YR4.0/6.0	
II C G	98-	VERY FRIABLE		MANY COARSE FAINT 10.0YR3.0/3.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 18	2	1	5.2	3.07	.27	2.96	1.20	.10	.31	24.7
B G	18- 33	2	1	5.5	.58	.07	4.60	1.36	.10	.31	17.4
C G1	33- 47	2	1	5.5	.35	.04	5.46	1.60	.09	.32	15.2
C G2	47- 65	2	1	5.7	.35		5.39	1.25	.16	.15	12.3
C G3	65- 85	2	1	5.7							
C G4	85- 98	2	1	5.7							
II C G	98-	2	1	5.7							

HORIZON-DEPTH(CM.)	D1 PPM.	D2 PPM.
A P	0- 18	27.0
B G	18- 33	19.0
C G1	33- 47	7.0
C G2	47- 65	8.5
C G3	65- 85	23.0
C G4	85- 98	
II C G	98-	

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE (N): 49 09 45  
 LONGITUDE (W): 122 08 13  
 PRECISION (SEC): 05  
 ELEVATION (M): 7  
 CLASSIFICATION: DRTHIC GLEYSOL(1978)  
 STATUS: MODAL SOIL  
 SLOPE: 2.0  
 TYPE: SIMPLE  
 CLASS: GENTLY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC IS SILTY  
 GENETIC MAT. IS FLUVIAL  
 SURFACE EXPRES. IS LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 150 METERS SOUTH OF THE NICOMEN ISLAND TRUNK-WARING RDS.,  
 INTERSECTION,  
 THE C G2 CONTAINS THIN BANDS OF SAND.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	ABRUPT	5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
B G	15- 57	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C G1	57-102	ABRUPT	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	MODERATE MEDIUM SUBANGULAR BLOCKY
C G2	102-117	ABRUPT	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	STRATIFIED	
II C G	117-			SAND	SINGLE GRAIN	

INTERRESISTANCE CONSISTENCE ROOTS 1 MOTTLING 1

HORIZON DEPTH(CM)	INTERRESISTANCE	CONSISTENCE	ROOTS 1	MOTTLING 1
A P 0- 15	FIRM	ABUNDANT	COMMON MEDIUM DISTINCT 10.0YRS.0/8.0	
B G 15- 57	FIRM	ABUNDANT	MANY MEDIUM PROMINENT 7.5YRS.0/6.0	
C G1 57-102	FIRM	ABUNDANT	MANY FINE PROMINENT 5.0Y4.0/4.0	
C G2 102-117	FRIABLE	FEW	COMMON FINE DISTINCT 7.5YRS.0/4.0	
II C G 117-	LOOSE		FEW FINE FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 15	2	1	5.6	2	4	5.1	2.43	.22
B G 15- 57	2	1	6.0	2	4	5.5	.52	.06
C G1 57-102	2	1	6.3	2	4	5.6	.41	.04
C G2 102-117	2	1	6.4	2	4	5.5		
II C G 117-	2	1	6.4	2	4	5.5		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.			PARTICLE SIZE(%)		
	CA	MG	NA	K		DETERMINED	P1 PPM.	P2 PPM.	S PPM.	TOTAL SAND	62-2 U SILT
A P 0- 15	4.84	1.26	.10	.20		19.6	1.5	161.0	9.2	1	74
B G 15- 57	4.52	1.41	.08	.20		18.7	.2	158.0	2.6	1	79
C G1 57-102	3.60	1.44	.07	.16		12.4	2.3	139.0	.5	11	75
C G2 102-117	2.05	.89	.05	.15		7.7	2.8	137.0	2.5		
II C G 117-	1.39	.25	.03	.13		4.8	3.0	96.0	3.5		

PARTICLE SIZE(%)

HORIZON=DEPTH(CM.)	2U CLAY TOTAL
A P 0- 15	25
B G 15- 57	20
C G1 57-102	14
C G2 102-117	
II C G 117-	

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 cm)				Fino Clay (<0.0002 m)					
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Bg (15-57)			mica, montmorillonite, chlorite, vermiculite	kaolinite	plagioclase feldspars	montmorillonite			vermiculite, chlorite, mica, interstratified vermiculite- mica	kaolinite



PAGE

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELDNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 06 25	ORTHIC GLEYSOL (1978)		TYPE:	SIMPLE
LONGITUDE (W):	122 20 05			CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05	STATUS:	MODAL SOIL		
ELEVATION (M):	4				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 15	ABRUPT	10.0YR3.5/2.0 MATRIX MOIST 10.0YR6.0/1.5 MATRIX DRY	10.0YR4.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	WEAK FINE SUBANGULAR BLOCKY
B G	15- 37	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY
BC	37- 67	DIFFUSE	10.0YR4.5/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY		SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C G1	67- 85	DIFFUSE	10.0YR5.5/1.0 MATRIX MOIST 7.5YR7.0/0.0 MATRIX DRY		SILTY CLAY LOAM	MASSIVE
C G2	85-		5.0Y5.0/1.0 MATRIX MOIST 7.5YR7.0/0.0 MATRIX DRY		SILTY CLAY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 15	WEAK MEDIUM GRANULAR	FIRM	ABUNDANT	FEW FINE FAINT	
B G	15- 37		VERY FIRM	FEW	MANY MEDIUM DISTINCT 10.0YR5.0/6.0	
BC	37- 67		VERY FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR4.0/4.0	10.0YR5.0/6.0
C G1	67- 85		FIRM		COMMON MEDIUM DISTINCT 10.0YR5.0/6.0	
C G2	85-		VERY FIRM		COMMON MEDIUM DISTINCT 10.0YR5.0/4.0	10.0YR5.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (4E/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 15	1	5.8	5.51	.38	12.60	2.50	.20	.20	42.1
B G	15- 37	2	5.7	.58	.09	9.80	4.50	.20	.20	26.2
BC	37- 67	1	5.7	.52	.06	12.80	7.90	.30	.20	29.9
C G1	67- 85	2	6.0	.52	.05	11.80	10.30	.30	.20	29.2
C G2	85-	1	6.0	.41	.05	10.60	13.30	.40	.20	32.6

HORIZON=DEPTH (CM.)	P1 PPM.	P2 PPM.
A P	0- 15	50.6
B G	15- 37	6.6
BC	37- 67	7.8
C G1	67- 85	7.2
C G2	85-	9.4

DATE OF SURVEY: 09 66 SURVEYOR: MAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 14 50  
 LATITUDE(N): 121 56 15  
 LONGITUDE(W): 05  
 PRECISION (SEC): 9  
 ELEVATION (M):  
 CLASSIFICATION: ORTHIC GLEYSOL(1978)  
 STATUS: MODAL SOIL  
 SLOPE: 1.0  
 TYPE: COMPLEX  
 CLASS: GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A H	0- 4	ABRUPT	10.0YR2.0/1.5 MATRIX MOIST	SILTY CLAY LOAM	WEAK FINE GRANULAR	
B G	4- 22	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C G1	22- 40	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
C G2	40- 87	GRADUAL	5.0Y4.5/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G3	87-102	GRADUAL	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	WEAK STRATIFIED	
C G4	102-		5.0Y4.0/2.0 MATRIX MOIST	VERY FINE SANDY LOAM	WEAK STRATIFIED	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A H	0- 4	FRIABLE SLIGHTLY PLASTIC	ABUNDANT		
B G	4- 22	FIRM PLASTIC	ABUNDANT	COMMON MEDIUM PROMINENT 5.0YR5.0/8.0	
C G1	22- 40	FIRM PLASTIC	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR5.0/8.0	
C G2	40- 87	FIRM PLASTIC	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/8.0	7.5YR5.0/6.0
C G3	87-102	FRIABLE	VERY FEW	MANY MEDIUM PROMINENT 5.0YR4.0/5.0	
C G4	102-	FRIABLE		MANY MEDIUM PROMINENT 5.0YR4.0/5.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A H	0- 4	2	1	5.1	10.50	.71	11.84	3.95	.17	.62	43.9
B G	4- 22	2	1	5.5	.81	.08	7.91	1.65	.15	.15	16.3
C G1	22- 40	2	1	5.6	.46	.05	8.27	2.30	.13	.17	15.2
C G2	40- 87	2	1	6.1	.23	.03	7.55	2.40	.12	.13	12.9
C G3	87-102	2	1	6.2			5.82	1.44	.13	.09	10.0
C G4	102-	2	1	6.1			5.33	1.33	.13	.08	9.1

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A H	0- 4	12.0
B G	4- 22	4.5
C G1	22- 40	4.5
C G2	40- 87	3.5
C G3	87-102	3.0
C G4	102-	4.4

DATE OF SURVEY: 72 SURVEYOR: WAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 09 13  
 LONGITUDE (W): 122 08 34 ORTHIC GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 5 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

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PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VAL JE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0-25	2	1	4.9	1.20	42.4	12.5	21.3	19.3	50.6
B g 25-64	2	1	5.1	1.26	41.7	11.8	25.1	31.3	46.5
IICg 64-89	2	1	5.3	1.35	40.6	2.1	8.9		
Cg 89-102	2	1	5.3	1.21	41.1	12.8	35.6	30.2	43.8

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
Ap	0-25	2.61	2.72		36.7	38.3							100.0	100.0	100.0	29.0
Bg	25-64	2.65	2.76		32.5	34.1							100.0	99.0		31.0
IICg	64-89	2.71	2.76										100.0	7.0	4.0	1.0
Cg	89-102	2.63	2.78		30.6	32.6							100.0	98.0	93.0	26.0

# PALISADE

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 23 32	ORTHIC FERRO-HUMIC PODZOL (1978)	% TYPE: 50.0
LONGITUDE (W): 123 11 25	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 10		VERY STEEPLY SLOPING
ELEVATION (M): 1200		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATED ON NORTH SIDE OF BLACK MOUNTAIN.  
 THE COLORS ARE VARIABLE DUE TO UNEVEN ORGANIC MATTER DISTRIBUTION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	17- 15	ABRUPT			ORGANIC	
H	15- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	2.5YR2.0/2.0 MATRIX MOIST	ORGANIC	WEAK MEDIUM SUBANGULAR BLOCKY
A HE	0- 10	ABRUPT	10.0YR5.0/3.5 MATRIX MOIST		LOAM GRAVELLY	WEAK MEDIUM TO FINE SUBANGULAR BLOCKY
B F1	10- 40	GRADUAL	5.0YR4.0/8.0 MATRIX MOIST	2.5YR2.0/2.0 MATRIX MOIST	LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
B F2	40- 67	DIFFUSE	7.5YR3.0/2.0 MATRIX MOIST	2.5YR2.0/2.0 MATRIX MOIST	LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY
B HFGJ	67- 97	GRADUAL	7.5YR3.0/2.0 MATRIX MOIST	5.0YR2.0/2.0 MATRIX MOIST	LOAM GRAVELLY	WEAK MEDIUM TO COARSE SUBANGULAR BLOCKY
B MGJ	97-132	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY
BC 1	132-165	DIFFUSE	2.5Y4.5/4.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
BC 2	165-200	DIFFUSE	2.5Y4.0/4.0 MATRIX MOIST	2.5YR5.0/2.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MASSIVE
C GJEJ	200-225		2.5Y5.0/2.0 MATRIX MOIST		LOAMY SAND GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
LF	17- 15			
H	15- 0		FRIABLE	ABUNDANT
A HE	0- 10		FRIABLE	ABUNDANT
B F1	10- 40		FRIABLE	PLENTIFUL
B F2	40- 67		FRIABLE	FEW
B HFGJ	67- 97		FRIABLE	FEW
B MGJ	97-132		FRIABLE	
BC 1	132-165	MODERATE COARSE SUBANGULAR BLOCKY	FIRM	
BC 2	165-200	MODERATE COARSE SUBANGULAR BLOCKY	FIRM	
C GJEJ	200-225		FIRM	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %		
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE			METHOD	VALUE
LF	17- 15	2	4.8	2	4	3.9	53.48	1.12
H	15- 0	2	4.0	2	4	3.1	58.00	1.60
A HE	0- 10	2	4.3	2	4	3.6	4.47	.15
B F1	10- 40	2	4.5	2	4	4.0	4.52	.16
B F2	40- 67	2	4.7	2	4	4.1	5.45	.18
B HFGJ	67- 97	2	4.8	2	4	4.2	7.42	.30
B MGJ	97-132	2	5.1	2	4	4.5	4.00	.15
BC 1	132-165	2	5.5	2	4	4.5		.06
BC 2	165-200	2	5.5	2	4	4.5	1.57	
C GJEJ	200-225	2	5.0	2	4	4.8		

PALISADE (Continued)

		EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C.	EXTRACTABLE FE(%)				
		CA	MG	NA	K	DETERMINED	METHOD	RESULT	METHOD	RESULT	
HORIZON=DEPTH(CM.)											
LF	17= 15	16.12	3.79	.21	3.05	90.1					
H	15= 0	8.97	2.95	.17	3.87	143.9					
A HE	0= 10	.61	.07	.03	.24	21.0	1	0.7	3	0.7	
B F1	10= 40	.42	.04	.04	.16	29.7	1	2.0	3	2.2	
B F2	40= 67	.31	.01	.03	.11	32.5	1	1.4	3	1.4	
B HFGJ	67= 97	.32	.01	.03	.07	41.2	1	1.4	3	1.1	
B HGJ	97=132	.42	.01	.06	.07	25.4	1	0.7	3	0.3	
BC 1	132=165					12.1	1	0.4	3	0.1	
BC 2	165=200	1.02	.01	.05	.07		1	0.4	3	0.1	
C GJEJ	200=225						1	0.3	3	0.1	
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EXTRACTABLE AL(%)											
		METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	% VOL GRAVEL %
HORIZON=DEPTH(CM.)											
LF	17= 15					20.0	30.5	41.4	32.7	101.8	
H	15= 0					17.9	25.5	18.5	18.2	59.7	
A HE	0= 10	1	0.5	3	0.4	1.7	4.1	12.8	25.5	59.4	60
B F1	10= 40	1	1.1	3	0.9	0.0	1.4	29.2	34.6	125.0	60
B F2	40= 67	1	1.9	3	0.4	0.4	3.3	29.9	57.7	188.9	60
B HFGJ	67= 97	1	2.6	3	0.4	2.9	40.8	87.0	291.9	60	
B HGJ	97=132	1	2.2	3	0.2	5.4	8.1	37.3	131.3	345.3	70
BC 1	132=165	1	1.3	3	0.6	11.8	32.6	21.5	83.4	283.5	70
BC 2	165=200	1	1.3	3	0.6				81.9	253.3	70
C GJEJ	200=225	1	2.0	3	0.7				116.3	424.0	85
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COARSE FRAGMENTS											
		COBBLE %	STONE %								
HORIZON=DEPTH(CM.)											
LF	17= 15										
H	15= 0										
A HE	0= 10										
B F1	10= 40										
B F2	40= 67										
B HFGJ	67= 97										
B HGJ	97=132	20	20								
BC 1	132=165	20	20								
BC 2	165=200	20	20								
C GJEJ	200=225	25	25								

# PATON

SAMPLING PURPOSE: SEMI-DETAILED SURVEY AL

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 16 15	ORTHIC FERRO-HUMIC PODZOL (1978)	% TYPE: 60.0
LONGITUDE (W): 122 14 25		SIMPLE
PRECISION (SEC): 20	STATUS: MODAL SOIL	CLASS: EXTREMELY SLOPING
ELEVATION (M): 300		ASPECT (DEG): 270

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: FAN

FLOOD HAZARD: NO HAZARD

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATED NORTHEAST OF DAVIS LAKE, NORTH OF HATZIG VALLEY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	3= 0	ABRUPT		ORGANIC		FRIABLE	FEW
A HE	0= 3	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR4.5/2.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B HF1	3= 30	GRADUAL	5.0YR3.0/3.5 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	SAND VERY GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B HF2	30= 67	CLEAR	7.5YR3.5/3.0 MATRIX MOIST	LOAMY SAND	SINGLE GRAIN	LOOSE	ABUNDANT
B F	67= 87	CLEAR	5.0YR3.5/4.0 MATRIX MOIST	GRAVELLY	SINGLE GRAIN	LOOSE	PLENTIFUL
BC 1	87=100	CLEAR	10.0YR4.0/4.0 MATRIX MOIST	GRAVELLY	SINGLE GRAIN	LOOSE	FEW
BC 2	100=135	DIFFUSE	10.0YR4.0/4.0 MATRIX MOIST	GRAVELLY	SINGLE GRAIN	LOOSE	FEW
BC 3	135=164	DIFFUSE	10.0YR4.0/4.0 MATRIX MOIST	GRAVELLY	SINGLE GRAIN	LOOSE	FEW
C	164=200			GRAVELLY	SINGLE GRAIN	LOOSE	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH	3= 0	2	2	4.8	2	4	4.3	.87
A HE	0= 3	2	1	4.7	2	4	4.5	.27
B HF1	3= 30	2	1	5.5	2	4	6.90	.32
B HF2	30= 67	2	1	5.7	2	4	8.00	.22
B F	67= 87	2	1	5.8	2	4	5.74	.14
BC 1	87=100	2	1	5.8	2	4	4.8	.09
BC 2	100=135	2	1	5.9	2	4	4.9	.10
BC 3	135=164	2	1	6.0	2	4	5.0	
C	164=200	2	1	5.9	2	4	4.8	

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LH	3= 0	10.22	2.99	.08	.51	53.8			
A HE	0= 3	4.62	2.25	.09	.18	22.9	1	0.4	3
B HF1	3= 30	3.22	.35	.15	.10	40.7	1	1.7	3
B HF2	30= 67	2.10	.13	.12	.04	27.0	1	1.1	3
B F	67= 87	1.35	.05	.10	.03	24.1	1	0.8	3
BC 1	87=100	1.03	.07	.07	.03	16.1	1	0.8	3
BC 2	100=135	1.25	.05	.10	.04	16.0	1	0.8	3
BC 3	135=164						1	0.6	3
C	164=200						1	0.4	3

HORIZON=DEPTH (CM.)	EXTRACTABLE AL (%)		METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	B PPM.
	METHOD	RESULT								
LH	3= 0				53.3	93.4	57.1	21.4	50.0	
A HE	0= 3	1	0.3	3	14.8	25.9	7.7	21.8	23.1	
B HF1	3= 30	1	2.5	3	11.0	34.8	12.9	42.9	46.9	
B HF2	30= 67	1	2.1	3	1.4	10.6	30.9	8.9	46.0	34.4
B F	67= 87	1	1.9	3	1.1	25.5	69.3	6.3	53.4	39.8
BC 1	87=100	1	1.7	3	0.9	27.4	92.0	6.2		12.9
BC 2	100=135	1	1.8	3	0.8	14.5	38.3	9.6	67.3	40.6
BC 3	135=164	1	1.3	3	0.6				66.8	39.3
C	164=200	1	1.2	3	0.6				52.6	36.9

HORIZON=DEPTH (CM.)	COARSE FRAGMENTS			
	% VOL	GRAVEL %	COBBLE %	STONE %
LH	3= 0			
A HE	0= 3			
B HF1	3= 30	50	10	20
B HF2	30= 67	80	30	20
B F	67= 87	85		
BC 1	87=100	85		
BC 2	100=135	85		
BC 3	135=164	85		
C	164=200	85		

# PEARDONVILLE

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 01 48	ORTHIC NUMB=FERRIC PODZOL(1978)	% TYPE: 7.0
LONGITUDE (W): 122 24 00		CLASS: SINGLE
PRECISION (SEC): 05	STATUS: MODAL SOIL	ASPECT (DEG): 90
ELEVATION (M): 110		MODERATELY SLOPING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: HUMMOCKY  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 800 METERS NORTH, 185 METERS EAST OF PEARDONVILLE-ROSS RD  
 JUNCTION, MATSOUI.  
 THE I I C HORIZONS CONTAIN FRAGMENTS AND LENSES OF SANDY LOAM TILL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR I	TEXTURE	STRUCTURE I	STRUCTURE 2
LH	3= 0	ABRUPT		ORGANIC		
B F 1	0= 15	CLEAR	10.0YR5.0/3.0 MATRIX MOIST 10.0YR3.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F 2	15= 30	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
II B M	30= 57	DIFFUSE	2.5Y4.0/4.0 MATRIX MOIST 2.5Y6.0/4.0 MATRIX DRY	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
II C 1	57=110	DIFFUSE	2.5Y4.5/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY PSEUDO	SINGLE GRAIN
II C 2	110=		2.5Y4.5/3.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS I	CONCRETION AND NODULE DESCRIPT. I
LH	3= 0			
B F 1	0= 15	VERY FRIABLE	ABUNDANT	
B F 2	15= 30	VERY FRIABLE	PLENTIFUL	FEW FINE THROUGHOUT MATRIX
II B M	30= 57	FRIABLE	FEW	
II C 1	57=110	LOOSE	FEW	
II C 2	110=	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3= 0	2	4.7	25.64	1.59					
B F 1	0= 15	1	5.4	3.48	.22	2.90	.60	.10	.10	23.0
B F 2	15= 30	1	5.5	2.61	.16	.50	.70	.00	.10	18.5
II B M	30= 57	1	5.9	.81	.05					
II C 1	57=110	1	6.1							
II C 2	110=	1	6.2							

HORIZON=DEPTH(CM.)	P1 DPH.	
LH	3= 0	214.5
B F 1	0= 15	233.0
B F 2	15= 30	99.0
II B M	30= 57	29.5
II C 1	57=110	53.0
II C 2	110=	90.0

# PELLEY

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 10 04	URTHIC HUMIC GLEYSOL(1978)	MODAL SOIL	%	1.0
LONGITUDE(W):	121 53 05				
PRECISION (SEC):	05				
ELEVATION (M):	13	STATUS:		TYPE:	SIMPLE
				CLASS:	DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 350 METERS SOUTHWEST OF BANFORD RD RAILWAY CROSSING, CHILLIWACK. C G2 HORIZON HAS THIN STREAKS OF ORGANIC MATTER. C G3 HAS ALTERNATE LAYERS OF COARSE SAND AND SILT LOAM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST		SILTY CLAY	WEAK MEDIUM GRANULAR
B G	20- 40	CLEAR	5.0Y4.5/1.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE
C G1	40- 48	CLEAR	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G2	48- 75	ABRUPT	5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE
C G3	75-		5.0Y5.0/1.0 MATRIX MOIST	5.0Y5.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 20		FRIABLE	ABUNDANT	
B G	20- 40	STRONG COARSE PRISMATIC	FIRM	FEW	FEW MEDIUM FAINT 10.0YR5.0/8.0
C G1	40- 48		VERY STICKY FRIABLE SLIGHTLY PLASTIC		COMMON MEDIUM PROMINENT 5.0YR4.0/6.0
C G2	48- 75		VERY STICKY FRIABLE SLIGHTLY PLASTIC		FEW MEDIUM DISTINCT 5.0YR4.0/6.0
C G3	75-		FIRM		FEW MEDIUM DISTINCT 5.0YR4.0/6.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHDD	VALUE	DRGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 20	2	1	5.7	7.35	.60	13.13	1.46	.18	.33	37.7
B G	20- 40	2	1	5.9	.66	.07	9.87	3.04	.20	.18	18.8
C G1	40- 48	2	1	6.1	.44	.06	15.81	8.67	.26	.18	27.9
C G2	48- 75	2	1	6.1	.41	.07	9.19	5.23	.25	.18	18.4
C G3	75-	2	1	5.9	.32	.05	9.69	5.01	.25	.18	23.4

HORIZON-DEPTH(CM.)	pH	PPM.
A P	0- 20	49.0
B G	20- 40	23.0
C G1	40- 48	16.0
C G2	48- 75	18.0
C G3	75-	18.0



# PITT

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 14 56			
LONGITUDE (W):	122 40 03	ORTHIC HUMIC GLEYSOL(1978)	%	2.0
PRECISION (SEC):	05		TYPE:	COMPLEX
ELEVATION (M):	2	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 800 METERS NORTH AND 140 METERS WEST OF MCKENZIE-DEWDNEY  
 TRUNK RDS INTERSECTION, PITT MEADOWS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B TJG	20- 35	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE TO MEDIUM PRISMATIC	VERY FIRM	ABUNDANT
B GTJ	35- 50	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	STRONG COARSE PRISMATIC	VERY FIRM	ABUNDANT
BC	50- 67	DIFFUSE	2.5Y4.5/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	PLENTIFUL
C G1	67- 92	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	FEW
C G2	92-		5.0Y4.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	CLAY FILMS 1
A P	0- 20		
B TJG	20- 35	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	COMMON THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
B GTJ	35- 50	COMMON MEDIUM PROMINENT 5.0YR5.0/8.0	FEW THIN IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	50- 67	COMMON MEDIUM PROMINENT 5.0YR4.5/7.0	
C G1	67- 92	COMMON MEDIUM DISTINCT 7.5YR4.0/4.0	
C G2	92-	COMMON MEDIUM DISTINCT 5.0YR4.0/7.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 20	2	1	4.5	2	4	4.1	12.88
B TJG	20- 35	2	1	5.1	2	4	4.6	1.45
B GTJ	35- 50	2	1	5.6	2	4	5.4	4.11
BC	50- 67	2	1	5.8	2	4	5.6	.35
C G1	67- 92	2	1	5.8	2	4	5.5	.04
C G2	92-	2	1	6.1	2	4	5.6	

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	D1 DDM.	D2 DDM.	S DDM.	CU DDM.	ZN DDM.
	CA	MG	NA	K							
A P	0- 20	2.43	.41	.04	.09	53.1	13.3	29.8	68.9	42.8	64.9
B TJG	20- 35	6.28	2.69	.06	.08	24.6	4.2	6.8	18.3	41.3	80.8
B GTJ	35- 50	8.06	5.85	.08	.14	18.7	2.1	4.2	18.7	38.6	66.3
BC	50- 67	8.02	5.83	.08	.13	18.6	3.8	15.5	11.4	38.3	62.1
C G1	67- 92						1.0	67.2	7.6	27.8	57.3
C G2	92-						2.5	145.0	6.9	31.5	66.9

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.002 mm)					Fine Clay (<0.002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg <sub>1</sub> (67-92)			chlorite, vermiculite, montmorillonite	mica, quartz	plagioclase feldspars	montmorillonite			vermiculite, chlorite, mica, Intersstratified vermiculite- mica, kaolinite, quartz	

## POIGNANT

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
SAMPLING PURPOSE: DETAILED SURVEY

LOCATION CLASSIFICATION SLOPE  
 LATITUDE(N): 49 18 22  
 LONGITUDE(W): 121 47 57 ORTHIC HUMO-FERRIC PODZOL(1978) % ASPECT( DEG): 50.0  
 PRECISION (SEC): 05  
 ELEVATION (M): 150 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: COLLUVIAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: WELL DRAINED

### PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	6- 5	ABRUPT		ORGANIC			
HF	5- 0	ABRUPT	5.0YR2.0/1.5 MATRIX MOIST	ORGANIC		VERY FRIABLE	ABUNDANT
B F1	0- 17	DIFFUSE	5.0YR3.0/4.0 MATRIX MOIST 5.0YR4.0/4.0 MATRIX DRY	SANDY LOAM	WEAK MEDIUM TO FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B F2	17- 46	CLEAR	5.0YR4.0/7.0 MATRIX MOIST 5.0YR5.0/7.0 MATRIX DRY	SANDY LOAM GRAVELLY	WEAK MEDIUM TO FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M	46- 83	CLEAR	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/5.0 MATRIX DRY	LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
II C	83-150	GRADUAL		SAND GRAVELLY			ABUNDANT
R	150-						

### PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
L	6- 5	2	2	6.3	25.69	.71	23.39	2.84	.10	1.51	84.6
HF	5- 0	2	2	6.4	21.34	.56	25.68	2.72	.10	1.12	72.1
B F1	0- 17	2	1	6.7	2.20	.11	5.69	.55	.07	.05	12.5
B F2	17- 46	2	1	6.7	1.58	.09	4.44	.31	.05	.06	13.9
B M	46- 83	2	1	6.8	.52	.06	3.11	.24	.07	.10	11.5
II C	83-150	2	1	6.8							
R	150-										

HORIZON-DEPTH(CM.)	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.	S PPM.	COARSE FRAGMENTS			
	METHOD	RESULT	METHOD	RESULT			% VOL	GRAVEL %	COBBLE %	STONE %
L	6- 5				117.0					
HF	5- 0				66.0					
B F1	0- 17	1	1.4	1	315.5	5.0	65	15	25	25
B F2	17- 46	1	1.6	1	143.0	4.0	80	20	30	30
B M	46- 83	1	1.0	1	105.5	4.5	80	20	30	30
II C	83-150	1	.3	1	22.0	3.3	90	20	35	35
R	150-									

# PORPOISE

SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
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LATITUDE(N):  
LONGITUDE(W):

CLASSIFICATION  
-----  
ELUVIATED DYSTRIC BRUNISOL(1978)  
STATUS: VARIANT SOIL

PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC 1: SANDY  
GENETIC MAT. 1: MORAINAL  
SURFACE EXPRES. 1: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
RUNOFF: SLOW

ADDITIONAL NOTES  
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SITE LOCATION WEST OF SECHLT.  
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## PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
FH 7- 0	2		3.9	2	4	3.3	66.59	.62
B F 0- 12	2		5.3	2	4	4.8	2.95	.09
B FH1 12- 30	1		5.8	2	4	5.3	1.95	.06
B FH2 30- 43	2		5.9	2	4	5.5	1.21	.04
BC 43- 60	2		6.0	2	4	5.8	.92	.04
CB 60- 77	1		5.9	2	4	5.6	.94	.04
C GJ 77-	2		5.8	2	4	5.3	.92	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
FH 7- 0						1	1.1	3	.2
B F 0- 12	1.85	.26	.06	.11	12.4	1	.9	3	.1
B FH1 12- 30	1.82	.28	.07	.10	16.7	1	.8	3	.0
B FH2 30- 43	1.85	.21	.07	.05	10.6	1	.7	3	.0
BC 43- 60	.80	.14	.07	.04	7.3	1	.7	3	.0
CB 60- 77						1	.7	3	.0
C GJ 77-						1	.4	3	.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	B PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT					
FH 7- 0					6.9	11.0	47.0		
B F 0- 12	1	1.9	3	.6	4.2	10.4	16.1	.6	15.7
B FH1 12- 30	1	2.1	3	.2	4.2	10.6	7.8	.2	.5
B FH2 30- 43	1	1.8	3	.2	2.1	12.8	9.9	.3	
BC 43- 60	1	1.5	3	.2	2.0	17.3	17.6	.1	.5
CB 60- 77	1	1.3	3	.2	4.1	23.2	8.9	.2	
C GJ 77-	1	.6	3	.3	10.3	35.7	11.4	.4	.5

# PREST

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 06 38	REGO GLEYSOL(1978)	TYPE: COMPLEX
LONGITUDE(W): 122 15 45	STATUS: MODAL SOIL	CLASS: NEARLY LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 3		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED

**ADDITIONAL NOTES**

SITE LOCATION: 800 METERS EAST AND 185 METERS SOUTH OF BELL AND GORE  
 RDS., MATSUJI.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
0 M	8= 0	ABRUPT		ORGANIC			
C G1	0= 25	CLEAR	10.0YR5.0/2.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY	VERY FIRM	PLENTIFUL
C G2	25= 45	ABRUPT	5.0Y5.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILTY CLAY	MASSIVE	VERY FIRM	FEW
II C G	45= 67	ABRUPT	2.5Y3.5/0.0 MATRIX MOIST 5.0Y5.5/1.0 MATRIX DRY	LOAMY FINE SAND	SINGLE GRAIN	FRIABLE	
C G3	67=		2.5Y5.0/0.0 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
0 M	8= 0	
C G1	0= 25	MANY COARSE PROMINENT 2.5YR3.0/6.0
C G2	25= 45	COMMON MEDIUM DISTINCT 10.0YR5.0/5.0
II C G	45= 67	
C G3	67=	

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
0 M	8= 0	2	1	4.5	39.56		6.60	2.90	.20	1.30	36.4
C G1	0= 25	2	1	5.4	2.49	.23	8.20	5.00	.20	.40	24.4
C G2	25= 45	2	1	5.7	1.45	.13	6.70	5.60	.20	.30	17.5
II C G	45= 67	2	1	6.4	.52	.11	4.00	3.00	.20	.10	7.0
C G3	67=										

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
0 M	8= 0	
C G1	0= 25	25.4
C G2	25= 45	5.4
II C G	45= 67	4.7
C G3	67=	3.8

# PREST

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 14 12	REGU GLEYSOL (1978)		TYPE:	SIMPLE
LONGITUDE (W):	121 51 14	STATUS:	MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05				
ELEVATION (M):	11				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
C G1	0- 20	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	5.0GY4.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE
C G2	20- 45	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST		SILTY CLAY	MASSIVE
C G3	45- 62	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE
C G4	62-		5.0Y4.5/1.0 MATRIX MOIST		SILTY CLAY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	FIELD PH
C G1	0- 20	FIRM SLIGHTLY PLASTIC	ABUNDANT	FEW MEDIUM PROMINENT 7.5YR5.0/6.0		SLIGHTLY ACID
C G2	20- 45	VERY FIRM PLASTIC	FEW	COMMON MEDIUM PROMINENT 5.0YR4.0/5.0		SLIGHTLY ACID
C G3	45- 62	STICKY FIRM	FEW	MANY MEDIUM PROMINENT 7.5YR4.0/4.0	5.0YR4.0/6.0	STRONGLY ACID
C G4	62-	STICKY		MANY MEDIUM PROMINENT 7.5YR4.0/4.0	5.0YR4.0/6.0	SLIGHTLY ACID

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
C G1 0- 20	2	1	1	6.3	.35	.04	7.19	2.13	.10	.18	12.0
C G2 20- 45	2	1	1	6.1	.45	.05	10.53	3.57	.13	.35	17.9
C G3 45- 62	2	1	1	5.2	.41	.09	6.69	2.31	.10	.34	15.7
C G4 62-	2	1	1	6.3	.41	.04	7.25	2.72	.11	.13	12.2

HORIZON-DEPTH (CM.)	P1 PPM.	P2 PPM.
C G1 0- 20	2.0	138.0
C G2 20- 45	2.5	171.0
C G3 45- 62	4.5	106.0
C G4 62-	1.5	126.0

# RICHMOND

UNIT TYPE1 SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELDNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>	
LATITUDE(N): 49 11 54	TERRIC HUMISOL(1978)	% TYPE1 CLASS:	1.0
LONGITUDE(W): 123 02 51	STATUS: MODAL SOIL		SIMPLE
PRECISION (SEC):			DEPRESSIONAL TO LEVEL
ELEVATION (M): 05			

PARENT MATERIAL & LANDFORM

<u>UPPER STRATIGRAPHIC UNIT</u>	<u>MIDDLE STRATIGRAPHIC UNIT</u>
GENETIC MAT.: ORGANIC	SPEC. CLASTIC 1: SILTY
SURFACE EXPRES.: VENEER	GENETIC MAT.: FLUVIAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 185 METERS SOUTH OF INTERSECTION OF C.N. RAILWAY TRACKS AND NO. 7 RD., NORTH RICHMOND.  
 THE O M HORIZON HAS A THIN BLACK BAND CONTAINING CHARCOAL IN LOWER PART.  
 THE O H1 AND O H2 ARE GREASY WHEN WET.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O M	80- 63	CLEAR	5.0YR3.0/4.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
O H1	63- 38	DIFFUSE	5.0YR3.0/2.0 MATRIX MOIST	5.0YR3.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
O H2	38- 0	CLEAR	5.0YR2.0/2.0 MATRIX MOIST	5.0YR2.0/2.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE
C G1	0- 20	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST		SILTY CLAY LDAM	MASSIVE
C G2	20-		5.0Y5.0/1.0 MATRIX MOIST		SILTY CLAY LDAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	% FIBRE
O M	80- 63	FRIABLE	ABUNDANT	RUBBED 25
O H1	63- 38	FRIABLE	PLENTIFUL	RUBBED 10
O H2	38- 0	FRIABLE	FEW	RUBBED 10
C G1	0- 20	FIRM PLASTIC		
C G2	20-	PLASTIC		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O M 80- 63	2	1	3.8	2	4	2.9	58.00	1.74
O H1 63- 38	2	1	3.7	2	4	2.9	58.00	1.69
O H2 38- 0	2	1	3.8	2	4	3.0	58.00	1.67
C G1 0- 20	2	1	4.5	2	4	3.8	6.73	.26
C G2 20-	2	1	4.1	2	4	3.8		.24

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.				
	CA	MG	NA	K	DETERMINED	P1 PPM	P2 PPM	S PPM	CU PPM	ZN PPM
O M 80- 63	9.70	4.85	.43	.49	154.0	25.5	26.8	295.0	36.1	10.5
O H1 63- 38	8.43	4.10	.46	.14	180.0	6.4	7.7	208.9	8.4	15.7
O H2 38- 0	8.85	4.56	.35	.16	178.1	20.1	48.3	140.8	11.1	14.1
C G1 0- 20	1.18	.54	.09	.06	37.9	50.0	118.3	45.7	63.7	27.4
C G2 20-	4.74	2.21	.17	.09	28.4	24.8	94.8	45.6	82.5	56.1

# RICHMOND

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: WAL UBC

<p>LOCATION</p> <p>LATITUDE (N): 49 04 33          LONGITUDE (W): 122 47 54          PRECISION (SEC): 05          ELEVATION (M): 2</p>	<p>CLASSIFICATION</p> <p>TERRIC HUMISOL (1978)</p>
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<p>PARENT MATERIAL &amp; LANDFORM</p> <p>UPPER STRATIGRAPHIC UNIT</p> <p>GENETIC MAT.: ORGANIC          SURFACE EXPRES.: VENEER          DESCRIPTOR 1: FEN</p>	<p>MIDDLE STRATIGRAPHIC UNIT</p> <p>SPEC. CLASTIC 1: SILTY          GENETIC MAT.: FLUVIAL</p>
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ADDITIONAL NOTES

CLASSIFICATION PHASE IS SALINE.

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
Ohp 68- 38				.35			65.4		
Oh 38- 0				.50					
Cgs1 0- 32	2	4	3.3	.85	52.9	14.9	78.9	28.8	49.0
Cgs2 32- 57	2	4	3.8	.95	46.6	12.5	68.4	26.6	42.5

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %									
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
Ohp	68- 38																
Oh	38- 0																
Cgs1	0- 32	2.59	2.74		41.3	43.4						100.0	100.0	95.0	26.0		
Cgs2	32- 57	2.66	2.77		34.7	36.2						100.0	100.0	99.0	22.0		

# ROACH

UNIT TYPE: SERIES

DATE OF SURVEY: D6 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 23 42	URTSTEIN FERRO-HUMIC PODZOL(1978)		%
LONGITUDE (W):	122 02 05	STATUS: MODAL SOIL		TYPE: 2.0
PRECISION (SEC):	05			CLASS: SIMPLE
ELEVATION (M):	330			ASPECT (DEG): 90

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: SOUTH OF CHEHALIS LAKE NEAR GRAVEL PIT.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	10- 8	CLEAR				
F H	8- 0	ABRUPT	5.0YR3.0/3.0 MATRIX MOIST		ORGANIC	
A E	0- 8	ABRUPT	5.0YR5.0/2.0 MATRIX MOIST 5.0YR7.5/1.0 MATRIX DRY		LOAMY SAND	WEAK MEDIUM TO FINE SUBANGULAR BLOCKY
B HF	8- 20	CLEAR	2.5YR2.5/4.0 MATRIX MOIST 5.0YR3.0/3.0 MATRIX DRY		SANDY LOAM GRAVELLY	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
B FC1	20- 52	DIFFUSE	5.0YR4.0/6.0 MATRIX MOIST 7.5YR5.0/8.0 MATRIX DRY	5.0YR3.0/3.0 MATRIX MOIST 5.0YR4.0/4.0 MATRIX DRY	SAND GRAVELLY	MASSIVE
B FC2	52- 82	DIFFUSE	5.0YR5.0/8.0 MATRIX MOIST 7.5YR6.0/7.0 MATRIX DRY		SAND GRAVELLY	MASSIVE
B C	82-112	DIFFUSE			SAND GRAVELLY	MASSIVE
BC	112-150	DIFFUSE			SAND GRAVELLY	SINGLE GRAIN
C	150-				SAND GRAVELLY	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
L	10- 8				
F H	8- 0		FRIABLE	ABUNDANT	
A E	0- 8		FRIABLE SUFT	ABUNDANT	
B HF	8- 20		FIRM SLIGHTLY HARD	ABUNDANT	
B FC1	20- 52		VERY FIRM EXTREMELY HARD	FEW	STRONGLY CEMENTED CONTINUOUS
B FC2	52- 82	SINGLE GRAIN	VERY FIRM EXTREMELY HARD	FEW	STRONGLY CEMENTED CONTINUOUS
B C	82-112	SINGLE GRAIN	FIRM HARD	FEW	
BC	112-150		LUOSE		
C	150-		LUOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	10- 8							
F 1	8- 0	2	2	3.8	2	4	3.0	
A E	0- 8	2	1	4.9	2	4	3.1	1.33
B HF	8- 20	2	1	5.0	2	4	4.1	5.86
B FC1	20- 52	2	1	5.8	2	4	4.6	2.61
B FC2	52- 82	2	1	5.9	2	4	5.0	.75
B C	82-112	2	1	5.9	2	4	5.9	
BC	112-150	2	1	5.9	2	4	5.4	.02
C	150-	2	1	5.8	2	4	5.4	



ROACH (Continued)

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(%E/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
L F H	10= 8				117.3				
A E	8= 0	6.85	6.36	.18	.66				
B HF	0= 8	.71	.22	.04	.05	1	.2	3	.0
B FC1	8= 20	.42	.13	.05	.06	1	1.3	3	.7
B FC2	20= 52	.42	.07	.02	.02	1	.8	3	.3
B C	52= 82	.10	.02	.02	.02	1	.3	3	.1
BC	82=112		.02	.02	.02	1	.4	3	.0
C	112=150					1	.3	3	.0
C	150=					1	.3	3	.0

  

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(X)		METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT								
L F H	10= 8				9.1	10.8	8.9			1.0
A E	8= 0		1	.0	1.2	2.3	6.3	12.4	33.5	13.7
B HF	0= 8		1	.7	50.7	95.0	10.8	11.3	32.2	12.0
B FC1	8= 20		1	.3	60.2	144.5	4.5	12.0	28.6	7.7
B FC2	20= 52		1	.1	19.9	66.5	11.5	14.7	25.3	1.5
B C	52= 82		1	.0	28.9	88.1	47.8	13.1	25.2	4.0
BC	82=112		1	.0				12.6	23.4	3.5
C	112=150		1	.0						
C	150=		1	.0						

  

HORIZON=DEPTH(CM.)	PARTICLE SIZE(X)			COARSE FRAGMENTS			
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	% VOL	GRAVEL %	COBBLE %	STONE %
L F H	10= 8						
A E	8= 0						
B HF	0= 8			40	20	10	10
B FC1	8= 20			80	40	20	20
B FC2	20= 52	63	12	5	80	40	20
B C	52= 82	91	7	2	80	40	20
BC	82=112	97	1	2	80	40	20
C	112=150	70	20	10			
C	150=						

# ROSS

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 02 20	REGD HUMIC GLEYSOL(1978)		%	1.0
LONGITUDE(W):	122 22 52			TYPE:	SIMPLE
PRECISION (SEC):	05	STATUS: TAXADJUNCT SOIL		CLASS:	DEPRESSIONAL TO LEVEL
ELEVATION (M):	55			ASPECT (DEG):	180

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 50 METERS SOUTHWEST OF JUNCTION OF MARSHALL=MT. LEHMAN RDS.  
 MATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A H	0- 22	GRADUAL	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
AC	22- 32	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
C G1	32- 55	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO	FIRM	FEW
C G2	55-		5.0Y4.5/1.0 MATRIX MOIST 5.0Y6.0/2.0 MATRIX DRY	SILTY CLAY	MASSIVE	VERY FIRM	

HORIZON	THICKNESS DEPTH(CM)	NOTES 1
A H	0- 22	FEW FINE FAINT
AC	22- 32	COMMON MEDIUM FAINT 7.5YR4.0/4.0
C G1	32- 55	MANY MEDIUM PROMINENT 7.5YR5.0/6.0
C G2	55-	FEW MEDIUM PROMINENT 7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1 SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A H 0- 22	2	1	4.7	7.19	.63	5.70	1.40	.20	.02	37.4
AC 22- 32	2	1	5.3	1.04	.15	5.20	1.90	.30	.00	23.3
C G1 32- 55	2	1	5.4	.29	.04	7.40	4.20	.50	.10	17.9
C G2 55-	2	1	6.2	.29	.04	12.60	8.90	.50	.10	24.1

HORIZON-DEPTH(CM.)	P1 PPM.
A H 0- 22	22.0
AC 22- 32	48.0
C G1 32- 55	15.0
C G2 55-	7.5

# RYDER

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 09 48	ORTHIC HUMO-FERRIC PODZOL(1978)	%	9.0
LONGITUDE (W):	122 15 45			
PRECISION (SEC):	05			
ELEVATION (M):	80			
		STATUS: MODAL SOIL	TYPE: CLASS:	COMPLEX MODERATELY ROLLING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION EAST OF DRAPER RD., MISSION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	ABRUPT	7.5YR3.0/2.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F1	17- 35	GRADUAL	5.0YR3.5/4.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	35- 52	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F3	52- 75	ABRUPT	5.0YR4.0/4.0 MATRIX MOIST	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
II B M	75- 98	DIFFUSE	10.0YR5.0/4.0 MATRIX MOIST		SANDY LOAM	STRONG COARSE SUBANGULAR BLOCKY
II C GJ1	98-125	CLEAR	2.5Y5.0/2.0 MATRIX MOIST		SANDY LOAM	STRONG COARSE SUBANGULAR BLOCKY PSEUDO
II C GJ2	125-		2.5Y5.0/2.0 MATRIX MOIST		SANDY LOAM	MODERATE COARSE PLATTY PSEUDO

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1
A P	0- 17	FRIABLE	ABUNDANT		
B F1	17- 35	FRIABLE	ABUNDANT		FEW FINE THROUGHOUT MATRIX SPHERICAL
B F2	35- 52	FRIABLE	ABUNDANT		FEW FINE THROUGHOUT MATRIX SPHERICAL
B F3	52- 75	FRIABLE	PLENTIFUL		FEW FINE THROUGHOUT MATRIX SPHERICAL
II B M	75- 98	FIRM	FEW		
II C GJ1	98-125	FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR5.0/7.0	
II C GJ2	125-	VERY FIRM		FEW COARSE PROMINENT 5.0YR4.0/6.0	

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARRON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
A P 0= 17	2	1	5.6	2	4	4.8	5.22	.31	
B F1 17= 35	2	1	5.7	2	4	4.7	3.25	.18	
B F2 35= 52	2	1	5.7	2	4	4.9	2.32	.14	
B F3 52= 75	2	1	5.7	2	4	5.0	1.68	.11	
II B M 75= 98	2	1	6.0	2	4	5.2			
II C GJ1 98=125	2	1	6.1	2	4	5.3			
II C GJ2 125=	2	1	6.3	2	4	5.0			

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)		EXTRACTABLE AL(X)		D1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P 0= 17	.23	.05	.06	.49	23.1					6.5
B F1 17= 35	.40	.05	.06	.10	21.1	1	1.4	1	1.5	.5
B F2 35= 52	.14	.02	.07	.07	17.2	1	1.0	1	1.5	1.4
B F3 52= 75	.12	.02	.06	.05	13.1	1	1.0	1	1.3	4.9
II B M 75= 98	.12	.02	.05	.02	6.9	1	0.6	1	1.1	17.4
II C GJ1 98=125	.16	.02	.07	.02	7.4					13.6
II C GJ2 125=										

HORIZON-DEPTH(CM.)	P2 PPM.	S PPM.
A P 0= 17	18.0	19.0
B F1 17= 35	8.0	21.4
B F2 35= 52	18.0	23.5
B F3 52= 75	20.0	27.1
II B M 75= 98	79.0	9.4
II C GJ1 98=125	56.0	12.2
II C GJ2 125=	147.0	

# RYDER

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELUWNA: B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 02 28	ORTHIC HUMO-FERRIC PODZOL(1978)	% TYPE: 6.0
LONGITUDE(W): 122 19 06	STATUS: MODAL SOIL	CLASS: MODERATELY SLOPING
PRECISION (SEC): 05		
ELEVATION (M): 70		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EDLIAN  
 SURFACE EXPRES.: VENER

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 100 METERS SOUTHWEST OF THE BEVAN-EMERSON RD JUNCTION;  
 MATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LM	2= 0			ORGANIC		
A H	0= 2	DIFFUSE		LOAM		
B F1	2= 9	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY	LOAM	WEAK FINE SUBANGULAR BLOCKY	
B F2	9= 39	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M1	39= 57	CLEAR	10.0YR5.0/5.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY	FINE SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY	
B M2	57= 77	ABRUPT	10.0YR6.0/3.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	FINE SANDY LOAM	MASSIVE	VERY WEAK FINE SUBANGULAR BLOCKY
II C	77=		10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SANDY LOAM GRAVELLY	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCRIP. 1
LM	2= 0			
A H	0= 2	FRIABLE		
B F1	2= 9	FRIABLE	ABUNDANT	FEW FINE SPHERICAL
B F2	9= 39	FRIABLE	PLENTIFUL	NONE FINE SPHERICAL
B M1	39= 57	FRIABLE	PLENTIFUL	
B M2	57= 77	FRIABLE	FEW	
II C	77=	FIRM HARD		

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LM	2= 0									
A H	0= 2	2	5.8	16.47	.82	19.30	3.80	.20	1.70	51.9
B F1	2= 9	2	6.1	2.55	.17	2.80	.90	.30	.40	23.8
B F2	9= 39	2	5.3	1.97	.12	1.20	.30	.10	.20	20.0
B M1	39= 57	2	5.9	.84	.05	.30	.40	.10	.10	10.8
B M2	57= 77	2	5.9	.17	.02	.0	.30	.00	.00	5.3
II C	77=	2	5.9	.12	.02	.10	.30	.10	.00	4.5

HORIZON=DEPTH(CM.)	P1 PPM.
LM	2= 0
A H	0= 2
B F1	2= 9
B F2	9= 39
B M1	39= 57
B M2	57= 77
II C	77=

# RYDER

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ORTHIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: WELL DRAINED  
 PERVIOUSNESS: MODERATE

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 PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	5- 3			ORGANIC			
FH	3- 0			ORGANIC			
B F1	0- 30	CLEAR	10.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	VERY WEAK COARSE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M1	30- 50	CLEAR	10.0YR5.0/4.0 MATRIX MOIST	SILT LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M2	50- 82	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
II C	82-+			LOAM	MASSIVE	FIRM	VERY FEW

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 PHYSICAL & CHEMICAL DATA  
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HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
L	5- 3										
FH	3- 0										
B F1	0- 30	2	1	6.2	.94	.11	1.88	.93	.08	.61	11.7
B M1	30- 50	2	1	5.8	1.02	.10	.71	.51	.07	.39	11.9
B M2	50- 82	2	1	6.0	.40	.06	2.11	1.08	.05	.51	9.2
II C	82-+	2	1	5.8	.17	.04	2.50	1.65	.06	.46	8.6

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 COARSE FRAGMENTS

HORIZON=DEPTH(CM.)	P1 PPM.	% VOL
L	5- 3	
FH	3- 0	
B F1	0- 30	118.0
B M1	30- 50	106.0
B M2	50- 82	28.0
II C	82-+	6.0

# RYDER

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 14 38	ORTHIC MUMO-FERRIC PODZOL(1978)	% 20.0
LONGITUDE(W): 121 44 46	STATUS: MODAL SOIL	ASPECT (DEG): 180
PRECISION (SEC): 05		
ELEVATION (M): 90		

PARENT MATERIAL & LANDFORM

BEDROCK

UPPER STRATIGRAPHIC UNIT

TYPE:

INTRUSIVE ACID

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: BLANKET

DRAINAGE: WELL DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A H	0- 4	ABRUPT	10.0YR3.0/2.5 MATRIX MOIST 10.0YR4.0/3.0 MATRIX DRY		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F1	4- 17	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	17- 42	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B M	42- 55	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	10.0YR4.0/3.0 MATRIX MOIST	LOAM	WEAK FINE SUBANGULAR BLOCKY
BC 1	55-125	DIFFUSE	10.0YR4.0/2.5 MATRIX MOIST		LOAM	MASSIVE
BC 2	125-200	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST		LOAM	MASSIVE
R	200-					

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1
A H	0- 4	WEAK FINE GRANULAR	FRIABLE	ABUNDANT	
B F1	4- 17		FRIABLE	ABUNDANT	
B F2	17- 42		FRIABLE	ABUNDANT	
B M	42- 55		FRIABLE	PLENTIFUL	FEW FINE FAINT
BC 1	55-125		FRIABLE	FEW	FEW FINE FAINT 10.0YR4.0/4.0
BC 2	125-200		FRIABLE	FEW	FEW FINE FAINT 7.5YR4.0/2.0
R	200-				

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A H	0- 4	2	6.0	4.64	.25	8.41	1.56	.03	.08	23.3
B F1	4- 17	2	6.2	1.37	.10		.63	.03	.09	14.0
B F2	17- 42	2	6.4	.07	.60	2.16	.31	.03	.09	9.6
B M	42- 55	2	6.4	.35		2.47	.46	.05	.09	7.1
BC 1	55-125	2	6.1			3.52	.84	.05	.08	7.2
BC 2	125-200	2	6.7			5.04	1.64	.06	.06	8.2
R	200-									

HORIZON-DEPTH(CM.)	METHOD	RESULT	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		
			METHOD	RESULT	P1 PDM.	S PDM.	
A H	0- 4	1	1.0	1	.6	204.0	16.0
B F1	4- 17	1	1.2	1	.8	223.0	3.8
B F2	17- 42	1	1.3	1	1.0	105.0	7.8
B M	42- 55	1	.9	1	.2	52.0	7.0
BC 1	55-125	1	.7	1	.4	13.0	5.8
BC 2	125-200	1	.7	1	.1	13.5	3.3
R	200-						

# RYDER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE(N): 49 01 27  
 LONGITUDE(W): 122 17 00 ORTHIC MUMU-FERRIC PODZOL(1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 90 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT MIDDLE STRATIGRAPHIC UNIT  
 -----  
 SPEC. CLASTIC: SILTY GENETIC MAT.: EDLIAN SURFACE EXPRES.: VENEER GENETIC MAT.: MORAINAL

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CH.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
AP 0-20	2	4	6.4	.90	40.5	15.9	37.1		
Bf1 20-46	2	4	5.9	.92	38.4	13.3	44.4		
Bf2 46-86	2	4	5.4	1.23	29.0	7.0	29.6	26.7	27.7
IIC 86-147	2	4	5.7		9.4	2.5	4.7		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
Ap	0-20	2.48	2.68										97.0	92.5	87.8	9.2
Bf1	20-46	2.52	2.72										100.0	91.1	82.2	6.0
Bf2	46-86	2.65	2.77			24.0							92.0	88.8	81.4	5.5
IIC	86-147	2.71	2.76					20.0	80.0	66.0	58.0	34.0	32.9	24.1	1.8	



# SANDEL

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 05 23	REGO GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 56 43		SIMPLE
PRECISION (SEC): 05	STATUS: MODAL SOIL	DEPRESSIONAL TO LEVEL
ELEVATION (M): 2		

**PARENT MATERIAL & LANDFORM**

**UPPER STRATIGRAPHIC UNIT**

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

**ADDITIONAL NOTES**

SITE LOCATION: 800 METERS EAST AND 100 METERS SOUTH OF LADNER TRUNK RD  
 AND HWY 401 OVERPASS.  
 CLASSIFICATION PHASE: IS SALINE.  
 FROM 40CM TO 95CM THERE ARE DARK REDISH BROWN COATINGS ON VERTICAL CRACKS  
 AND FORMING HARD TUBULES AROUND OLD ROOT CHANNELS.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 22	ABRUPT	10.0YR3.5/2.0 MATRIX MOIST 2.5Y4.0/2.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C G1	22- 40	GRADUAL	2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G2	40- 65	DIFFUSE	2.5Y4.5/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
C G3	65- 95	DIFFUSE	2.5Y4.0/2.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G5	95-		2.5Y4.0/2.0 MATRIX MOIST	5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 22		FRIABLE	ABUNDANT	FEW FINE FAINT	
C G1	22- 40	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO	FRIABLE	ABUNDANT	COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	7.5YR3.0/6.0
C G2	40- 65		FRIABLE	PLENTIFUL	COMMON MEDIUM DISTINCT 2.5YR7.5/6.0	
C G3	65- 95	STATIFIED	FRIABLE	FEW	COMMON MEDIUM DISTINCT 2.5Y8.0/6.0	7.5YR4.0/4.0
C G5	95-	STATIFIED	FRIABLE		COMMON MEDIUM PROMINENT 5.0YR4.0/6.0	

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P	0- 22	2	1	4.7	2	4	4.1	7.48
C G1	22- 40	2	1	4.2	2	4	3.8	2.09
C G2	40- 65	2	1	3.9	2	4	3.6	2.26
C G3	65- 95	2	1	3.7	2	4	3.5	
C G5	95-	2	1	3.1	2	4	3.3	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)						ELECT. COND. (MMHOS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K	C. E. C.						
A P	0- 22	6.82	2.71	.18	.16	33.9		15.2	64.9	25.7	75.2
C G1	22- 40	2.21	1.89	.39	.12	22.3		11.0	76.2	78.9	82.0
C G2	40- 65	1.06	1.38	.51	.12	20.1		8.5	44.5	245.0	51.9
C G3	65- 95							13.8	47.7		44.8
C G5	95-						4.20				39.9

HORIZON-DEPTH(CM.)	ZN PPM.	
A P	0- 22	24.9
C G1	22- 40	45.0
C G2	40- 65	35.0
C G3	65- 95	27.3
C G5	95-	22.7

# SANDEL

UNIT TYPE: SERIES

DATE OF SURVEY: 80 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 05 32	REGO GLEYSOL (1978)	%	2.0
LONGITUDE (W):	122 49 16		TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: FLUVIAL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

CLASSIFICATION PHASE IS SALINE.  
 THE A P HAS SOME ADMIXING OF MOTTLED SOIL FROM THE UNDERLYING  
 HORIZON. MOTTLES IN THE C G AND C GS ARE IN THE FORM OF SLIGHTLY  
 HARD TUBES AROUND ROOT CHANNELS AND COATINGS ON CLEAVAGES.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 15	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM TO COARSE ANGULAR BLOCKY	FRIABLE SLIGHTLY HARD	PLENTIFUL FINE
C G	15- 45		10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	STRATIFIED	FRIABLE SLIGHTLY HARD	PLENTIFUL
C GS	45-		10.0YR4.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILT LOAM	STRATIFIED	FRIABLE SLIGHTLY HARD	FEW

THICKNESS MOTTLES 1  
 HORIZON DEPTH (CM)

A P	0- 15	
C G	15- 45	FEW
C GS	45-	FAINT 10.0YR4.0/3.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHOS/CM)
A P 0- 15	
C G 15- 45	
C GS 45-	4.54

# SARDIS

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: \_\_\_\_\_ CLASSIFICATION: \_\_\_\_\_ SLOPE: \_\_\_\_\_  
 LATITUDE(N): \_\_\_\_\_ ORTHIC REGOSOL(1978) % 1.0  
 LONGITUDE(W): \_\_\_\_\_ STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: SOUTHERN LOWLANDS OF CHILLIWACK MUNICIPALITY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	ABRUPT	10.0YR3.0/3.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	GRANULAR
C 1	15- 62	CLEAR	10.0YR3.0/4.0 MATRIX MOIST	COARSE SAND	SINGLE GRAIN STRATIFIED	WEAK SUBANGULAR BLOCKY
C GJ	62-			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1
A P	0- 15	VERY FRIABLE	ABUNDANT
C 1	15- 62	FRIABLE	PLENTIFUL
C GJ	62-	LOOSE	FEW

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
A P	0- 15	2	1	5.7	1.50	.15	5.44	1.34	.20	.11	11.7
C 1	15- 62	2	1	6.2	.44	.04	4.75	1.59	.18	.08	8.6
C GJ	62-	2	1	6.2	.36	.03	3.72	1.51	.15	.08	7.6

HORIZON=DEPTH(CM.)	P1 DPH.
A P	0- 15 11.0
C 1	15- 62 10.0
C GJ	62- 11.0

# SARDIS

UNIT TYPE: SERIES

DATE OF SURVEY: 03 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION CLASSIFICATION SLOPE  
 -----  
 LATITUDE(N): GLEYED REGUSOL(1978) -----  
 LONGITUDE(W): STATUS: TAXADJUNCT SOIL TYPE: CLASS: COMPLEX  
 GENTLY UNDULATING

PARENT MATERIAL & LANDFORM  
 -----  
 UPPER STRATIGRAPHIC UNIT  
 -----  
 COMM. CLASTIC 1: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL  
 MODIFY. PROC.1: AVALANCHES

STONINESS: EXCEEDINGLY STONY  
 PERVIOUSNESS: RAPID

\*\*\*\*\*  
 PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR4.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK SUBANGULAR BLOCKY	GRANULAR
C GJ1	17- 32	GRADUAL		SAND GRAVELLY	SINGLE GRAIN	
C GJ2	32-+			SAND GRAVELLY	SINGLE GRAIN	

  

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	FIELD PH
A P	0- 17	FRIABLE	PLENTIFUL		MEDIUM ACID
C GJ1	17- 32	LOOSE	PLENTIFUL	COMMON FAINT	MEDIUM ACID
C GJ2	32-+		FEW	COMMON FAINT	MEDIUM ACID

# SAYRES

DATE OF SURVEY: 70 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<b>LOCATION</b>	<b>CLASSIFICATION</b>	<b>SLOPE</b>
LATITUDE(N): 49 23 43	URTHIC FERRO-HUMIC PODZOL(1978)	% 15.0
LONGITUDE(W): 123 11 38	STATUS: MODAL SOIL	TYPE: SIMPL
ELEVATION (M): 1000		CLASS: STEEPLY SLOPING
		ASPECT (DEG): 180

**PARENT MATERIAL & LANDFORM**

<b>UPPER STRATIGRAPHIC UNIT</b>	<b>MIDDLE STRATIGRAPHIC UNIT</b>
GENETIC MAT.: COLLUVIAL	GENETIC MAT.: BEDROCK
SURFACE EXPRES.: VENEER	

**BEDROCK**

TYPE: INTRUSIVE ACID

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

**ADDITIONAL NOTES**

SITE LOCATION IS IN CYPRESS BDWL, WEST VANCOUVER.  
 CLASSIFICATION PHASE IS LITHIC.  
 FROM 39CM TO 42CM IS SEEPAGE ZONE; THERE IS A WELL DEVELOPED ROOT MAT AND  
 THE HORIZON VARIES FROM 2CM TO 8CM IN THICKNESS.

**PROFILE DESCRIPTION**

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
M 1	19- 0	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST		ORGANIC	MASSIVE
A E	0- 5	ABRUPT	5.0YR5.0/1.0 MATRIX MOIST 5.0YR7.0/1.0 MATRIX DRY		LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY
B HF1	5- 22	GRADUAL	5.0YR2.0/2.0 MATRIX MOIST	5.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B HF2	22- 39	ABRUPT	5.0YR3.0/3.0 MATRIX MOIST	2.5YR2.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
M 2	39- 42		2.5YR2.0/2.0 MATRIX MOIST		SANDY LOAM	MASSIVE
R	42-					

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1
M 1	19- 0	WEAK COARSE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
A E	0- 5		VERY FRIABLE	ABUNDANT
B HF1	5- 22		FRIABLE	PLENTIFUL
B HF2	22- 39		FRIABLE	PLENTIFUL
M 2	39- 42	WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	PLENTIFUL
R	42-			

**PHYSICAL & CHEMICAL DATA**

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
M 1	19- 0	2	1	3.2	2	4	64.26	.90
A E	0- 5	2	1	4.0	2	4	1.97	.05
B HF1	5- 22	2	1	4.3	2	4	8.58	.26
B HF2	22- 39	2	1	4.9	2	4	9.69	.25
M 2	39- 42	2	1	4.9	2	4	19.37	.51
R	42-							

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
M 1	19- 0	5.20	4.95	4.14	1.18	166.8	1	0.2	3	0.1
A E	0- 5	.40	.12	.04	.09	8.0	1	1.9	3	1.7
B HF1	5- 22	.42	.07	.04	.17	43.5	1	1.2	3	1.2
B HF2	22- 39	.22	.02	.05	.11	50.3	1	1.2	3	1.2
M 2	39- 42	.47	.14	.08	.10	95.4	1	1.2	3	1.3
R	42-									

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	METHOD	RESULT	METHOD	RESULT					
M 1	19- 0				8.8	9.4	3.4	4.5	38.2
A E	0- 5	1	0.1	3	1.0	1.3	1.8	5.3	5.3
B HF1	5- 22	1	1.2	3	.9	.9	19.1	71.4	28.6
B HF2	22- 39	1	2.8	3	1.3	7.0	21.7	113.6	35.4
M 2	39- 42	1	4.2	3	.9	4.7	23.9	158.6	40.7
R	42-								

# SAYRES

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: HAL KELDWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE (N):  
 LONGITUDE (W):  
 ELEVATION (M): 1000  
 CLASSIFICATION: ORTHIC FERRO-HUMIC PODZOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT: MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT. I: MORAINAL VENEER  
 SURFACE EXPRES. I: GENETIC MAT. I: BEDROCK

BEDROCK

TYPE: INTRUSIVE ACID  
 DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE IS LITHIC.

## PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	15- 13	ABRUPT			ORGANIC	
HF	13- 0	ABRUPT	2.5YR2.0/2.0 MATRIX MOIST		ORGANIC MUCKY	
A E	0- 6	ABRUPT	5.0YR5.5/2.0 MATRIX MOIST		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF1	6- 22	GRADUAL	5.0YR2.0/1.0 MATRIX MOIST	5.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK TO MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
B HF2	22- 37	GRADUAL	5.0YR2.0/1.0 MATRIX MOIST	5.0YR4.0/4.0 MATRIX MOIST	LOAM	WEAK TO MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
H 1	37- 50	GRADUAL	2.5YR2.0/2.0 MATRIX MOIST	5.0YR4.0/4.0 MATRIX MOIST	ORGANIC MUCKY	MODERATE MEDIUM SUBANGULAR BLOCKY
H 2	50- 63	GRADUAL	2.5YR2.0/3.0 MATRIX MOIST		ORGANIC MUCKY	MODERATE MEDIUM SUBANGULAR BLOCKY
B HFGJ	63- 75	ABRUPT	10.0YR3.0/2.5 MATRIX MOIST		SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
R	75-					

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
L	15- 13		ABUNDANT	
HF	13- 0	FRIABLE	ABUNDANT	
A E	0- 6	FRIABLE	ABUNDANT	
B HF1	6- 22	FIRM	ABUNDANT	
B HF2	22- 37	FRIABLE	PLENTIFUL	
H 1	37- 50	FIRM	PLENTIFUL	
H 2	50- 63	FIRM	PLENTIFUL	
B HFGJ	63- 75	FIRM	FEW	COMMON FINE DISTINCT
R	75-			

## PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L 15- 13	2	2	5.0	2	4	3.9	29.17	1.18
HF 13- 0	2	1	3.5	2	4	2.3	58.00	1.98
A E 0- 6	2	1	3.9	2	4	3.3	4.12	.14
B HF1 6- 22	2	1	4.2	2	4	3.6	9.34	.38
B HF2 22- 37	2	1	4.4	2	4	4.0	13.57	.45
H 1 37- 50	2	1	4.7	2	4	4.2	17.69	.51
H 2 50- 63	2	1	4.8	2	4	4.4	22.68	.66
B HFGJ 63- 75	2	1	5.1	2	4	4.3	8.70	.22
R 75-	2	1	5.8	2	4	5.0	2.38	.09

HORIZON=DEPTH (CM)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L 15- 13	14.19	2.73	.05	1.09	80.4					
HF 13- 0	2.34	8.08	.23	1.22	178.2					52.7
A E 0- 6	.26	.10	.04	.06	20.2					.5
B HF1 6- 22	.39	.16	.05	.12	48.4	1	2.2	1	1.2	
B HF2 22- 37	.36	.09	.05	.07	65.2	1	2.1	1	2.8	2.2
H 1 37- 50	.26	.03	.05	.07	78.8	1	1.1	1	4.0	2.6
H 2 50- 63	.24	.04	.05	.08	105.4	1	1.2	1	6.6	3.6
B HFGJ 63- 75	.27	.09	.02	.09	36.6	1	.8	1	2.9	3.8
R 75-	.06	.01	.04	.08	17.5	1	0.7	1	2.8	4.7

HORIZON=DEPTH (CM)	COARSE FRAGMENTS				% VOL
	P2 PPM	S PPM	CU PPM	ZN PPM	
L 15- 13	131.0		16.4	48.6	
HF 13- 0	38.0		81.8	60.9	
A E 0- 6	4.0	8.9	63.8	11.5	40
B HF1 6- 22	3.0	18.0	11.5	30.7	40
B HF2 22- 37	6.0	23.6	13.3	47.2	40
H 1 37- 50	3.0	26.1	13.0	38.2	40
H 2 50- 63	2.0		15.2	25.0	40
B HFGJ 63- 75	7.0		21.8	49.8	50
R 75-	21.0	84.6			

# SAYRES

DATE OF SURVEY: 70 SURVEYOR: KELOWNA, B.C., M.A. & P.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ORTHIC FERRO-HUMIC PDZUL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----  
 UPPER STRATIGRAPHIC UNIT

BEDROCK  
 -----  
 TYPE: INTRUSIVE ACID

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: VENEER

DRAINAGE: MODERATELY WELL DRAINED

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
HF	13= 0	2	3.8	2	4	3.1	64.79	1.38
A E	0= 5	1	3.7	2	4	3.3	3.77	.14
B HF1	5= 15	2	4.8	2	4	3.8	13.43	.39
B HF2	15= 33	2	4.7	2	4	4.2	6.29	.21
B F	33= 45	1	4.6	2	4	4.4	4.78	.14
R	45=	2	5.1	2	4	4.6		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE PE(X)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
HF	13= 0				10.9	1	.5	3	.4
A E	0= 5	.70	.14	.05	.07	1	4.5	3	3.7
B HF1	5= 15	.44	.15	.03	.10	1	21.9	3	1.4
B HF2	15= 33	.21	.05	.02	.05	1	18.5	3	.5
B F	33= 45	.21	.03	.03	.05	1	13.3		
R	45=	.26	.10	.03	.07	1			

HORIZON=DEPTH(CM.)	EXTRACTABLE AL(X)				P1 PPM.	P2 PPM.	S PPM.
	METHOD	RESULT	METHOD	RESULT			
HF	13= 0				17.9	24.7	60.0
A E	0= 5	1	.3	3	.1	3.2	7.2
B HF1	5= 15	1	1.5	3	1.2	3.4	4.7
B HF2	15= 33	1	2.1	3	1.7	8.7	19.8
B F	33= 45	1	2.3	3	1.5	8.7	43.9
R	45=	1			19.6		15.2

# SCAT

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: LATITUDE(N): 49 06 53  
 LONGITUDE(W): 122 53 32  
 PRECISION (SEC): 05  
 CLASSIFICATION: ORTHIC HUMIC GLEYSOL(1978)  
 STATUS: MODAL SOIL  
 SLOPE: TYPE: CLASS: SIMPLE DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: BLANKET  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	4- 3		ORGANIC			
F	3- 0		ORGANIC			
A M1	0- 15	10.0YR2.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILT LOAM	MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
A H2	15- 35	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	SILT LOAM	MEDIUM SUBANGULAR BLOCKY	STICKY FRIABLE SLIGHTLY PLASTIC	FEW
B G	35- 45	5.0Y5.0/3.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	SILTY CLAY	MODERATE COARSE SUBANGULAR BLOCKY	STICKY FIRM PLASTIC	FEW
BC	45- 75	5.0Y7.0/2.0 MATRIX MOIST 5.0Y8.0/2.0 MATRIX DRY	SILTY CLAY	VERY WEAK PRISMATIC	STICKY FIRM PLASTIC	
C G	75-+	2.5Y7.0/4.0 MATRIX MOIST 5.0Y8.0/2.0 MATRIX DRY	SILTY CLAY	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
L	4- 3	
F	3- 0	
A M1	0- 15	
A H2	15- 35	
B G	35- 45	FAINT
BC	45- 75	FAINT
C G	75-+	PROMINENT

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)		C. E. C. DETERMINED
	SAMPLE STATE						CA	K	
L	4- 3								
F	3- 0	2	1	4.6	45.36	2.13			
A M1	0- 15	2	1	4.8	8.41	.57	5.94	.19	50.0
A H2	15- 35	2	1	5.0	3.89	.24	1.50	.10	42.2
B G	35- 45	2	1	5.4	1.39	.06	.92	.08	33.7
BC	45- 75	2	1	5.2	.17	.02	8.31	.11	19.4
C G	75-+	2	1	5.6	.06	.01	13.92	.11	26.2

HORIZON=DEPTH(CM.)	P1 PDM.
L	4- 3
F	3- 0
A M1	0- 15
A H2	15- 35
B G	35- 45
BC	45- 75
C G	75-+



# SCAT

UNIT TYPE I SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELONNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 05 47	ORTHIC HUMIC GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 35 51	STATUS: MODAL SOIL	CLASS: SIMPLE
PRECISION (SEC): 05		ASPECT (DEG): 180
ELEVATION (M): 50		DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MDRAINAL  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 400 METERS NORTH AND 65 METERS EAST OF CORNER OF SWAIN RD AND PRABER VALLEY HWY., LANGLEY. C G1 AND C G2 HAVE 10YR2.0/2.0 (H) COATINGS ALONG CLEAVAGE PLANES.

PROFILE DESCRIPTION

HORIZON	DEPTH(CM)	THICKNESS	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	1= 0		ABRUPT				
A M	0= 13		ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILTY CLAY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	WEAK MEDIUM GRANULAR
B G	13= 27		GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE MEDIUM TO COARSE ANGULAR BLOCKY	
BC	27= 45		GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MODERATE COARSE ANGULAR BLOCKY	
C G1	45= 65		GRADUAL	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	
C G2	65=			2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	WEAK STRATIFIED	MODERATE COARSE ANGULAR BLOCKY PSEUDO

HORIZON	DEPTH(CM)	THICKNESS	CONSISTENCE	ROOTS 1	MOTTLES 1
LH	1= 0				
A M	0= 13		FRIABLE	ABUNDANT	
B G	13= 27		FIRM	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR5.0/8.0
BC	27= 45		FIRM	FEW	COMMON MEDIUM DISTINCT 10.0YR4.0/4.0
C G1	45= 65		VERY FIRM	FEW	FEW MEDIUM DISTINCT 10.0YR5.0/4.0
C G2	65=		VERY FIRM		FEW MEDIUM DISTINCT 10.0YR5.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHUD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH 1= 0	2	2	4.4	43.62	1.06	3.81	1.21	.18	.26	46.1
A M 0= 13	2	1	5.3	10.96	.76	7.32	6.11	.19	.27	35.5
B G 13= 27	2	1	5.6	.41	.04	12.28	10.61	.29	.30	30.0
BC 27= 45	2	1	6.0		.03	14.43	12.55	.37	.32	31.6
C G1 45= 65	2	1	6.5		.03	12.31	12.12	.30	.31	29.4
C G2 65=	2	1	6.8		.02					

HORIZON-DEPTH(CM.)	PH 1	
	P1 PPM.	P2 PPM.
LH 1= 0		
A M 0= 13	70.0	187.0
B G 13= 27	1.0	2.0
BC 27= 45	3.0	7.0
C G1 45= 65	2.5	88.0
C G2 65=	1.5	205.0

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fino Clay (<0.0002 mm)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Bg (13-27)		chlorite	quartz	mica, chlorite, montmorillonite, plagioclase feldspars, kaolinite			vermiculite	montmorillonite, kaolinite, mica, interstratified vermiculite-chlorite	quartz	

# SCAT

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 08 08	URTHIC HUMIC GLEYSOL(1978)		%	2.0
LONGITUDE (W):	122 41 13			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	85			ASPECT (DEG):	90

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: BLANKET  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: NORTHWEST OF THE JUNCTION OF JERICHO AND NORFOLK RDS., IN SURREY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LF	3- 0	ABRUPT					
A H	0- 10	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B G	10- 30	GRADUAL	5.0Y5.0/2.0 MATRIX MOIST	LOAM	MODERATE MEDIUM ANGULAR BLOCKY	STICKY FIRM PLASTIC	FEW
C G	30-		2.5Y5.0/2.0 MATRIX MOIST	LOAM	MASSIVE	FIRM	FEW

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
LF	3- 0	
A H	0- 10	
B G	10- 30	MANY DISTINCT 7.5YR4.0/4.0
C G	30-	COMMON DISTINCT

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE	STATE					CA	MG	NA	K	
LF	3- 0	2	2	4.5	50.40	2.14	8.45	2.98	.44	.76	51.7
A H	0- 10	2	1	4.6	9.26	1.05	2.17	1.06	.20	.36	35.5
B G	10- 30	2	1	5.3	.19	.04	11.16	4.71	.30	.13	17.6
C G	30-	2	1	6.0		.02	12.83	7.80	.34	.16	18.4

HORIZON-DEPTH(CM.)	D1 PPH.	
LF	3- 0	31.8
A H	0- 10	26.0
B G	10- 30	.8
C G	30-	4.3

# SCAT

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION CLASSIFICATION SLOPE  
 LATITUDE (N): 49 22 47  
 LONGITUDE (W): 122 23 05 ORTHIC MUMIC GLEYSOL (1978) TYPE: SIMPLE  
 ELEVATION (M): 120 STATUS: MODAL SOIL CLASS: DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR: GLACIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: ABOUT 300 METERS EAST OF THE MACLURE-BRADNER RD JUNCTION,  
 NATSQUI.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR	TEXTURE	STRUCTURE	CONSISTENCE	ROOTS
LH	3- 0			ORGANIC			
A H	0- 25	DIFFUSE	10.0YR2.5/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
AB	25- 45	GRADUAL	10.0YR3.5/3.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
B G	45- 70	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	SILT LOAM	STRONG COARSE SUBANGULAR BLOCKY	FIRM	
C G	70-		10.0YR4.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	VERY FIRM	

THICKNESS MOTTLES

HORIZON	THICKNESS DEPTH (CM)	MOTTLES
LH	3- 0	
A H	0- 25	
AB	25- 45	COMMON FINE DISTINCT 5.0YR3.0/4.0
B G	45- 70	MANY MEDIUM PROMINENT 7.5YR4.0/4.0
C G	70-	MANY MEDIUM DISTINCT 7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	3- 0										
A H	0- 25	2	1	5.3	6.32	.44	5.90	2.10	.40	.20	33.2
AB	25- 45	2	1	5.9	1.80	.17	5.80	2.20	.40	.30	24.9
B G	45- 70	2	1	6.2	.29	.03	5.70	2.20	.30	.20	12.1
C G	70-	2	1	6.3	.23	.03	8.20	3.10	.40	.20	14.0

PARTICLE SIZE (%)

HORIZON-DEPTH (CM.)	D1 PPM.	PARTICLE SIZE (%)		
		TOTAL SAND	62-2 U SILT	2U CLAY TOTAL
LH	3- 0			
A H	0- 25	41.5	15	64
AB	25- 45	41.5	9	73
B G	45- 70	16.0	19	74
C G	70-	12.0	17	60

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Dg (45-70)	chlorite		illite, vermiculite	nontronite, quartz, amphiboles, palygoclose feldspers	orthoclose feldspers			chlorite	illite, nontronite, vermiculite, interstratified vermiculite, mica, quartz, kaolinite	

# SEABIRD

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 12 58	GLEVED REGOSOL(1978)	X	2.0
LONGITUDE (W):	121 45 05	STATUS: MODAL SOIL	TYPE:	SIMPLE
PRECISION (SEC):	05		CLASS:	VERY GENTLY SLOPING
ELEVATION (M):	6			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLO  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION NEAR FRASER RIVER IN MISSION AREA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
C	0- 10	CLEAR	2.5Y3.0/2.0 MATRIX MOIST		SAND	SINGLE GRAIN
C GJ1	10- 22	CLEAR	2.5Y3.0/2.0 MATRIX MOIST		LOAMY SAND	WEAK MEDIUM SUBANGULAR BLOCKY
C GJ2	22- 35	ABRUPT	2.5Y3.0/2.0 MATRIX MOIST		LOAMY FINE SAND	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
II C G1	35- 55	CLEAR	2.5Y4.0/2.0 MATRIX MOIST	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY PSEUDO
II C G2	55- 70	CLEAR	2.5Y4.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY PSEUDO
C GJ3	70-		2.5Y4.0/2.0 MATRIX MOIST		FINE SAND	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
C	0- 10		LOOSE	PLENTIFUL		
C GJ1	10- 22	SINGLE GRAIN	VERY FRIABLE	PLENTIFUL	FEW MEDIUM FAINT	
C GJ2	22- 35		VERY FRIABLE	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	7.5YR4.0/4.0
II C G1	35- 55		FIRM	FEW	COMMON MEDIUM PROMINENT 5.0YR3.5/4.0	
II C G2	55- 70		FRIABLE	FEW	COMMON MEDIUM DISTINCT 7.5YR4.0/4.0	
C GJ3	70-	SINGLE GRAIN	LOOSE	FEW	FEW MEDIUM FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	
						CA	MG	NA	K		
C	0- 10	2	1	6.9	.23	.02	4.47	.79	.06	.25	6.1
C GJ1	10- 22	2	1	7.3	.35	.02	6.12	1.46	.08	.26	7.9
C GJ2	22- 35	2	1	7.5	.52	.04	12.59	1.29	.08	.28	10.6
II C G1	35- 55	2	1	7.2			15.99	1.30	.10	.21	19.7
II C G2	55- 70	2	1	7.1			12.05	1.16	.10	.16	15.4
C GJ3	70-	2	1	7.2			4.50	.46	.06	.08	5.9

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
C	0- 10	11.0
C GJ1	10- 22	93.0
C GJ2	22- 35	117.0
C GJ2	22- 35	2.5
II C G1	35- 55	4.0
II C G2	55- 70	1.0
C GJ3	70-	3.5

# SEAVIEW

UNIT TYPE: SERIFS

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 01 08	REGO GLEYSOL (1978)	% TYPE: 2.0
LONGITUDE (W): 123 03 11	STATUS: MODAL SOIL	COMPLEX GENTLY UNDULATING
PRECISION (SEC): 02		
ELEVATION (M): 1		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MARINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED

ADDITIONAL NOTES

SITE LOCATION: 800 METERS SOUTH OF BEACH GROVE AND 90 METERS EAST OF BOUNDARY BAY RD.  
 C GS1 AND C GS2 HAVE VERTICAL CRACKS COATED WITH DARK REDDISH BROWN AND BROWN ORGANIC MATERIAL.  
 THE II C SG AND C SG3 HAVE FEW TO COMMON WHOLE AND BROKEN SMELLS.  
 CLASSIFICATION PHASE IS SALINE.  
 THE C SG3 CONSISTS OF THIN ALTERNATING BANDS OF SILT LOAM, SAND, AND ORGANIC MATERIAL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A M	0- 15	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY	
AC	15- 22	GRADUAL	10.0YR4.0/1.5 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
C GS1	22- 47	GRADUAL	5.0Y4.5/1.5 MATRIX MOIST	SILT LOAM	MODERATE COARSE PRISMATIC PSEUDO	
C GS2	47- 72	CLEAR	5.0Y3.5/1.0 MATRIX MOIST	SILT LOAM	MODERATE COARSE PRISMATIC PSEUDO	
II C SG	72- 92	CLEAR	7.5YR4.0/4.0 MATRIX MOIST	LOAMY SAND	MASSIVE	SINGLE GRAIN
C SG3	92-		5.0Y4.0/1.0 MATRIX MOIST	SANDY LOAM	STRATIFIED	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CEMENTATION AGENT/DESCRIP.
A M	0- 15	FRIABLE	ABUNDANT			
AC	15- 22	FRIABLE	ABUNDANT	COMMON FINE DISTINCT 5.0YR3.0/4.0	7.5YR5.0/6.0	
C GS1	22- 47	FIRM	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	7.5YR4.0/4.0	
C GS2	47- 72	FIRM	PLENTIFUL	COMMON MEDIUM PROMINENT 5.0YR3.5/5.0		
II C SG	72- 92	FIRM				WEAKLY CEMENTED
C SG3	92-	FRIABLE				

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A M 0- 15	2	1	3.9	2	4	3.7	12.93	.81
AC 15- 22	2	1	3.1	2	4	3.2	2.43	.25
C GS1 22- 47	2	1	3.1	2	4	3.1	1.86	.17
C GS2 47- 72	2	1	6.8	2	4	6.3		
II C SG 72- 92	2	1	6.8	2	4	6.7		
C SG3 92-	2	1	6.8	2	4	6.7		

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K						
A M 0- 15	3.83	6.20	3.06	.66	25.2		24.3	126.7	100.0	40.7
AC 15- 22	3.48	2.82	.65	.10	16.0	9.60	23.7	82.2	100.0	25.1
C GS1 22- 47	5.80	5.14	.65	.03	19.2		30.2	20.7	100.0	21.8
C GS2 47- 72					3.1		6.6	100.0	100.0	12.6
II C SG 72- 92					9.0	13.70	10.6	146.8	100.0	16.4
C SG3 92-										

HORIZON-DEPTH (CM.)	ZN PPM.
A M 0- 15	108.6
AC 15- 22	
C GS1 22- 47	59.3
C GS2 47- 72	76.4
II C SG 72- 92	43.0
C SG3 92-	55.2

# SEAVIEW

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PMS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 00 47	REGO GLEYSOL (1978)		TYPE:	SIMPLE
LONGITUDE (W):	123 02 37			CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05	STATUS:	MODAL SOIL		
ELEVATION (M):	1				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT	MIDDLE STRATIGRAPHIC UNIT
SPEC. CLASTIC 1: SILTY GENETIC MAT. 1: FLUVIAL SURFACE EXPRES.: VENEER	SPEC. CLASTIC 1: SANDY GENETIC MAT. 1: MARINE

DRAINAGE: VERY POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE, PALE YELLOWISH MOTTLE ON INSIDES OF PEDS IN C GS1, ALSO IRON COATINGS ON CLEAVAGE PLANES, A FEW SEA SMELLS IN C GS2.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
FL	3= 0						
A HJS	0= 15	ABRUPT	10.0YR5.0/1.0 MATRIX MOIST 10.0YR7.0/1.5 MATRIX DRY	SILT LOAM	MODERATE FINE TO MEDIUM GRANULAR	VERY FRIABLE	PLENTIFUL FINE
C GS1	15= 73	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.5/1.0 MATRIX DRY	SILT LOAM	MODERATE COARSE ANGULAR BLOCKY PSEUDO	VERY FRIABLE	PLENTIFUL
C GS2	73=100	ABRUPT	5.0Y3.0/1.0 MATRIX MOIST 5.0Y5.0/1.0 MATRIX DRY	SILT LOAM	MASSIVE	FRIABLE	
II C GS	100=			COARSE SAND			

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1	MOTTLES 2
FL	3= 0		
A HJS	0= 15	COMMON DISTINCT	
C GS1	15= 73	COMMON PROMINENT 5.0YR3.0/2.0	2.5YR4.0/4.0
C GS2	73=100	COMMON DISTINCT	
II C GS	100=		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
FL	3= 0										
A HJS	0= 15	2	1	4.3	4.45	.32	2.59	5.83	13.04	1.13	27.2
C GS1	15= 73	2	1	4.2	1.97	.16	2.09	3.74	8.87	.87	19.4
C GS2	73=100	2	1	3.9	1.65		2.24	4.47	12.38	.94	18.1
II C GS	100=			6.1							

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHOS/CM)	PI PPM.
FL	3= 0	
A HJS	0= 15	12.00
C GS1	15= 73	7.00
C GS2	73=100	15.00
II C GS	100=	46.4
		14.0
		4.9

# SECHELT

DATE OF SURVEY: 70 SURVEYOR:  
 SAMPLING PURPOSE: DETAILED SURVEY

KELDUNA, B.C.M.A. & R.A.B.

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 ELUVIATED DYSTRIC BRUNISOL(1978)

SLOPE  
 -----  
 % 5.0  
 TYPE: SIMPLE  
 ASPECT (DEG): 270

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: FLUVIAL  
 SURFACE EXPRES. 1: FAN

DRAINAGE: RAPIDLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES  
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SITE LOCATION: 1KM NORTH OF SECHELT.

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	8= 5	2	2	4.4	2	4	4.1	62.70
F	5= 0	2	2	3.8	2	4	3.4	62.70
A E	0= 3	1	1	4.2	2	4	3.9	1.28
B FJ	3= 18	2	1	5.4	2	4	4.8	1.18
B M1	18= 43	2	1	5.6	2	4	4.9	.97
B M2	43= 60	2	1	5.8	2	4	5.5	.71
BC	60= 78	2	1	6.1	2	4	5.7	
C 1	78= 97	2	1	6.0	2	4	5.7	
C 2	97= 97	2	1	6.3	2	4	5.6	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE PE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
L	8= 5								
F	5= 0								
A E	0= 3	.26	.07	.05	.11	6.2	1	.1	3
B FJ	3= 18	.36	.07	.03	.15	6.4	1	.3	3
B M1	18= 43	.41	.10	.03	.09	5.5	1	.3	3
B M2	43= 60	.35	.10	.03	.07	4.4	1	.2	3
BC	60= 78	.30	.10	.02	.05	3.2	1	.3	3
C 1	78= 97	.30	.10	.03	.04	2.1	1	.1	3
C 2	97= 97	.61	.14	.05	.14	4.2	1	.3	3

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(X)				P1	P2	S
	METHOD	RESULT	METHOD	RESULT			
L	8= 5				56.4	68.5	22.8
F	5= 0						7.9
A E	0= 3	1	.2	3	15.6	30.7	3.6
B FJ	3= 18	1	.7	3	43.8	95.6	4.4
B M1	18= 43	1	.7	3	58.4	110.2	5.1
B M2	43= 60	1	.8	3	56.0	113.1	6.6
BC	60= 78	1	.9	3	14.6	51.2	15.7
C 1	78= 97	1	.9	3	14.6	40.5	8.9
C 2	97= 97	1	.7	3	31.4	59.0	3.8

# SEYMOUR

DATE OF SURVEY: 70 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 20 25	GLEVED FERRO-HUMIC PODZOL (1978)	% TYPE: 2.0
LONGITUDE (W): 122 46 15	STATUS: MODAL SOIL	CLASS: COMPLEX
PRECISION (SEC):		GENTLY UNDULATING
ELEVATION (M): 130		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: TERRACED

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION NEAR JUNCTION OF DR CREEK AND COQUITLAM RIVER. VARIABLE COLORS FROM 15CM TO 95CM DUE TO UNEVEN ORGANIC MATTER DISTRIBUTION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LF	9- 8	ABRUPT		ORGANIC		
H	8- 0	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST	ORGANIC		
A E	0- 3	ABRUPT	5.0YR4.0/5.0 MATRIX MOIST	LOAMY SAND GRAVELLY	WEAK FINE SUBANGULAR BLOCKY	
B HF	3- 15	CLEAR	5.0YR2.5/2.0 MATRIX MOIST	SAND GRAVELLY	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY	
B F	15- 35	DIFFUSE	5.0YR3.0/3.0 MATRIX MOIST	SAND GRAVELLY	MASSIVE	SINGLE GRAIN
B FGJ1	35- 65	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	SAND GRAVELLY	MASSIVE	SINGLE GRAIN
B FGJ2	65- 95	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	SAND GRAVELLY	MASSIVE	SINGLE GRAIN
BC	95-145	DIFFUSE		SAND GRAVELLY	SINGLE GRAIN	
C GJ	145-			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	CEMENTATION AGENT/DESCRIP.
LF	9- 8			
H	8- 0	FRIABLE	ABUNDANT	
A E	0- 3	FRIABLE	PLENTIFUL	
B HF	3- 15	FIRM	PLENTIFUL	
B F	15- 35	FIRM	FEW	WEAKLY CEMENTED
B FGJ1	35- 65	FIRM	FEW	WEAKLY CEMENTED
B FGJ2	65- 95	FIRM		
BC	95-145	LOOSE		
C GJ	145-	LOOSE		



SEYMOUR (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LF 9- 8	2	2	3.9	2	4	3.2	53.36	1.50
H 8- 0	2	2	3.5	2	4	2.7	57.19	1.96
A E 0- 3	2	1	3.8	2	4	3.3	2.44	.13
B HF 3- 15	2	1	4.7	2	4	4.0	6.09	.24
B F 15- 35	2	1	5.4	2	4	4.6	3.42	.14
B FGJ1 35- 65	2	1	5.6	2	4	4.8	1.33	.07
B FGJ2 65- 95	2	1	5.6	2	4	4.8		.12
BC 95-145	2	1	5.5	2	4	4.8		
C GJ 145-								

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF 9- 8	8.89	2.80	.23	1.51	101.9				
H 8- 0	5.13	4.20	.25	.91	124.0				
A E 0- 3	1.20	.07	.03	.05	10.3	1	0.1	3	0.1
B HF 3- 15	.10	.04	.06	.05	36.5	1	0.9	3	0.9
B F 15- 35	.21	.01	.03	.01	28.8	1	0.8	3	0.4
B FGJ1 35- 65	.31	.01	.03	.02	16.5	1	0.8	3	0.2
B FGJ2 65- 95	.41	.01	.04	.03	13.2	1	0.6	3	0.3
BC 95-145						1	0.6	3	0.1
C GJ 145-									

HORIZON-DEPTH (CM.)	EXTRACTABLE AL (%)				COARSE FRAGMENTS						
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	% VDL	GRAVEL %
LF 9- 8					28.6	34.1	20.0	23.9	67.5		
H 8- 0					23.3	24.7	0.0	12.0	83.7		
A E 0- 3	1	0.3	3	0.1	1.6	2.5	2.5	3.0	11.1	40	20
B HF 3- 15	1	1.6	3	1.7	25.8	53.4	16.7	11.0	27.2	40	20
B F 15- 35	1	2.5	3	1.4	23.9	63.6	38.1	11.2	27.1	85	25
B FGJ1 35- 65	1	1.5	3	0.6	43.1	147.6	42.9	16.9	34.6	85	25
B FGJ2 65- 95	1	2.0	3	0.9	49.2	125.4	20.2	16.8	34.2	85	25
BC 95-145	1	0.6	3	0.3				16.2	34.1	85	25
C GJ 145-											

COARSE FRAGMENTS

HORIZON-DEPTH (CM.)	COARSE FRAGMENTS	
	COBBLE %	STONE %
LF 9- 8		
H 8- 0		
A E 0- 3	10	10
B HF 3- 15	10	10
B F 15- 35	30	30
B FGJ1 35- 65	30	30
B FGJ2 65- 95	20	40
BC 95-145	20	40
C GJ 145-		

# SHALISH

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 26 13	ORTHIC FERRO-HUMIC PODZOL (1978)	% ASPECT (DEG): 10.0
LONGITUDE (W): 122 58 14	STATUS: MODAL SOIL	
PRECISION (SEC): 05		
ELEVATION (M): 275		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

COMM. CLASTIC: GRAVELLY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: FAN

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION 450 METERS SOUTH OF SEYMOUR DAM.  
 52CM TO 87CM IS A SEEPAGE ZONE WITH ROOT MAT.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
LH	6- 0	ABRUPT		ORGANIC		
A E	0- 5	ABRUPT	5.0YR5.5/1.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	
B HF1	5- 13	GRADUAL	5.0YR2.5/2.5 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	
B HF2	13- 52	GRADUAL	5.0YR3.5/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	WEAK MEDIUM SUBANGULAR BLOCKY	
B HFGJ1	52- 87	DIFFUSE	5.0YR2.5/2.5 MATRIX MOIST	LOAMY SAND GRAVELLY	WEAK MEDIUM SUBANGULAR BLDCKY	
B HFGJ2	87-125	DIFFUSE	5.0YR2.5/2.0 MATRIX MOIST	LOAMY SAND GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY	
BC GJ	125-200			SAND GRAVELLY	MASSIVE	SINGLE GRAIN

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LH	6- 0	FRIABLE	ABUNDANT		
A E	0- 5	FRIABLE	ABUNDANT		
B HF1	5- 13	FRIABLE	ABUNDANT		
B HF2	13- 52	FRIABLE	ABUNDANT		
B HFGJ1	52- 87	FRIABLE	ABUNDANT	FEW MEDIUM FAINT	
B HFGJ2	87-125	FRIABLE	ABUNDANT	COMMON MEDIUM DISTINCT	
BC GJ	125-200	FIRM	FEW	MANY MEDIUM PROMINENT 7.5YR5.0/6.0	WEAKLY CEMENTED

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH	6- 0	2	2	4.2	2	4	4.0	.95
A E	0- 5	2	1	4.4	2	4	3.9	.04
B HF1	5- 13	2	1	4.9	2	4	4.4	.28
B HF2	13- 52	2	1	5.2	2	4	4.8	.23
B HFGJ1	52- 87	2	1	5.1	2	4	4.5	.47
B HFGJ2	87-125	2	1	5.0	2	4	4.4	.26
BC GJ	125-200	2	1	5.4	2	4	5.0	.04

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LH	6- 0	5.14	1.22	.19	1.03	62.1			
A E	0- 5	.31	.19	.04	.03	3.0			
B HF1	5- 13	.27	.14	.06	.07	36.2			
B HF2	13- 52	.41	.10	.06	.05	29.6		3	1.5
B HFGJ1	52- 87	.20	.09	.06	.05	32.9		3	0.7
B HFGJ2	87-125	.27	.06	.07	.05	31.2		3	0.7
BC GJ	125-200						1	0.4	

HORIZON-DEPTH (CM.)	EXTRACTABLE AL (%)				COARSE FRAGMENTS					
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	% VOL
LH	6- 0				11.7	15.2	55.0	18.9	61.2	
A E	0- 5				1.8	2.6	1.8	3.0	5.0	30
B HF1	5- 13		3	1.4	2.9	4.7	42.5	6.9	15.5	30
B HF2	13- 52		3	1.5	4.5	21.6	99.3	9.7	25.7	30
B HFGJ1	52- 87		3	1.6	2.7	8.2	34.3	8.3	24.6	70
B HFGJ2	87-125		3	2.0	2.1	6.5	26.3	8.3	27.6	70
BC GJ	125-200	1	1.6	3				8.7	29.9	80

# SIM

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 11 20	ORTHIC HUMIC GLEYSOL(1978)		%	2.0
LONGITUDE(W):	122 14 33			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	8				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 1300 METERS NORTH OF HAIZIE.  
 MOTTLES ARE CONFINED TO OLD ROOT CHANNELS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 25	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	
AB	25- 37	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST	SILTY CLAY LOAM	WEAK STRATIFIED	
B G	37- 50	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	MODERATE MEDIUM ANGULAR BLOCKY
C G1	50- 65	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	
C G2	65-		5.0Y5.0/1.5 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 25	FIRM	ABUNDANT		
AB	25- 37	FIRM	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	5.0YR5.0/6.0
B G	37- 50	FIRM	VERY FEW	COMMON FINE DISTINCT 7.5YR7.0/6.0	
C G1	50- 65	FIRM	VERY FEW	COMMON FINE DISTINCT 7.5YR4.0/4.0	7.5YR7.0/6.0
C G2	65-	FIRM	VERY FEW	COMMON FINE DISTINCT 7.5YR5.0/6.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0- 25	2	1	5.5	2	4	5.0	14.50	.97
AB 25- 37	2	1	5.3	2	4	4.8	4.47	.29
B G 37- 50	2	1	5.6	2	4	5.1	2.32	.16
C G1 50- 65	2	1	6.1	2	4	5.6	1.57	.14
C G2 65-	2	1	6.2	2	4	5.6	.64	.06

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C.		
	CA	MG	NA	K	DETERMINED	D1 PPM.	D2 PPM.	S PPM.
A P 0- 25	6.86	1.40	.09	.32	53.5	30.6	51.0	22.3
AB 25- 37	5.30	3.13	.25	.20	44.1	1.8	5.0	12.5
B G 37- 50	5.14	3.30	.35	.18	31.1	2.4	5.0	7.5
C G1 50- 65	4.75	2.61	.32	.14	20.9	1.5	9.0	4.4
C G2 65-	3.86	2.74	.29	.26	17.6	3.6	176.0	3.8

# SIM

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 09 38	ORTHIC HUMIC GLEYSOL(1978)	X	2.0
LONGITUDE (W):	122 28 34	STATUS: MODAL SOIL	TYPE:	COMPLEX
ELEVATION (M):	5		CLASS:	GENTLY UNDULATING

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A P	0- 20	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST 10.0YR4.5/1.0 MATRIX DRY	SILTY CLAY	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY	FIRM	ABUNDANT
AB	20- 27	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	SILTY CLAY	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM	ABUNDANT
B G	27- 47	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	STRONG COARSE TO MEDIUM SUBANGULAR BLOCKY	VERY FIRM	PLENTIFUL
BC	47- 65	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG COARSE SUBANGULAR BLOCKY	VERY FIRM	PLENTIFUL
C G1	65- 90	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	FIRM	FEW
C G2	90-		5.0Y5.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	FIRM	FEW

MOTTLES 1

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1
A P	0- 20	
AB	20- 27	FEW FINE PROMINENT 5.0YR4.0/6.0
B G	27- 47	COMMON FINE PROMINENT 5.0YR4.0/5.0
BC	47- 65	COMMON MEDIUM PROMINENT 5.0YR4.5/6.5
C G1	65- 90	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0
C G2	90-	COMMON MEDIUM PROMINENT 5.0YR4.0/8.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHUD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 20	1	5.2	8.52	.70	4.23	.87	.13	.19	47.8
AB	20- 27	2	5.4	2.67	.22	3.67	1.39	.18	.06	28.1
B G	27- 47	2	5.4	1.86	.14	7.70	2.66	.17	.08	29.7
BC	47- 65	2	5.2	.75	.06	7.17	3.97	.16	.09	24.8
C G1	65- 90	2	5.2	.58		6.72	5.54	.20	.13	25.1
C G2	90-	2	5.7			7.90	5.49	.23	.13	20.0

HORIZON-DEPTH(CM.)	P1 DPM.	P2 DPM.
A P	0- 20	49.3
AB	20- 27	55.5
B G	27- 47	37.3
BC	47- 65	8.9
C G1	65- 90	17.7
C G2	90-	13.9

# SIM

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 06 03	ORTMIC HUMIC GLEYSOL(1978)		%	3.0
LONGITUDE (W):	122 20 25			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	6				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: POORLY DRAINED

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 17	ABRUPT	10.0YR2.5/1.0 MATRIX MOIST 10.0YR4.0/1.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	GRANULAR
B G	17- 40	ABRUPT	10.0YR5.0/1.5 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	WEAK COARSE SUBANGULAR BLOCKY	
C G1	40- 63	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/1.5 MATRIX DRY	SILT LOAM	MASSIVE	
C G2	63-		10.0YR5.0/1.0 MATRIX MOIST 10.0YR6.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	FIELD PH
A P	0- 17	FRIABLE	PLENTIFUL		STRONGLY ACID
B G	17- 40	FIRM	FEW	MANY MEDIUM DISTINCT 10.0YR5.0/4.0	STRONGLY ACID
C G1	40- 63	FIRM	FEW	COMMON MEDIUM DISTINCT 5.0YR4.0/4.0	VERY STRONGLY ACID
C G2	63-	FIRM		FEW MEDIUM PROMINENT 7.5YR5.0/6.0	VERY STRONGLY ACID

# SPETIFORE

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELUANA, B.C.M.A. & R.A.R.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	89 00 28	REGO HUMIC	GLEYSOL (1978)	TYPE:	SIMPLE
LONGITUDE (E):	123 03 01	STATUS:	MODAL SOIL	CLASS:	DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05				
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
A PS	0- 20	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILT LOAM	COARSE SUBANGULAR BLOCKY	NON STICKY FRIABLE SLIGHTLY PLASTIC	PLENTIFUL FINE
C GS1	20- 35	CLEAR	10.0YR5.0/1.0 MATRIX MOIST 10.0YR7.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	STICKY FIRM PLASTIC	FEW
C GS2	35- 80	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST 5.0Y7.0/1.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE COARSE ANGULAR BLOCKY PSEUDO	SLIGHTLY STICKY FRIABLE SLIGHTLY PLASTIC	VERY FEW
C GS3	80-		2.5Y5.0/1.0 MATRIX MOIST 2.5Y6.5/0.0 MATRIX DRY	SILT LOAM	MASSIVE	SLIGHTLY STICKY SLIGHTLY PLASTIC	

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1	FIELD PH
A PS	0- 20		EXTREMELY ACID
C GS1	20- 35	COMMON DISTINCT 10.0YR5.0/7.0	EXTREMELY ACID
C GS2	35- 80	COMMON DISTINCT 5.0Y7.0/4.0	EXTREMELY ACID
C GS3	80-	FEW DISTINCT 2.5Y4.0/4.0	EXTREMELY ACID

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1	SAMPLE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A PS	0- 20	2	1	4.3	15.44	1.00	6.56	6.37	16.89	.74	48.8
C GS1	20- 35	2	1	3.8	4.20	.20	2.90	6.18	10.22	.56	26.8
C GS2	35- 80	2	1	3.5	1.43	.07	2.12	4.75	7.92	.50	22.0
C GS3	80-	2	1	3.8	1.70	.04	2.93	8.27	8.76	1.90	20.9

HORIZON=DEPTH (CM.)	ELECT. COND. (MMHOS/CM)	P1 PPM.
A PS	0- 20	14.00
C GS1	20- 35	9.50
C GS2	35- 80	7.20
C GS3	80-	8.00

# SPETIFORE

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE(N):	49 04 37	REGD MUNIC GLEYSOL(1978)	%	1-0
LONGITUDE(W):	123 03 15		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	NEARLY LEVEL
ELEVATION (M):	1			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC II SILTY  
 GENETIC MAT. I FLUVIAL  
 SURFACE EXPRES. I LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION 1500 METERS SOUTH AND 100 METERS EAST OF INTERSECTION OF  
 TSAWASSEN HWY. AND #10 HWY., DELTA.  
 THE C G61 AND C G63 HAVE WIDELY SPACED VERTICAL CRACKS WITH ORGANIC STAIN-  
 ING ON WALLS.  
 THE C G62 HAS COMMON, HARD, DARK BROWN TUBULES AROUND OLD ROOT CHANNELS  
 AND WIDELY SPACED VERTICAL CRACKS.  
 THE C G63 HAS SCATTERED, HARD, VERY DARK GRAY TO DARK REDDISH BROWN  
 TUBULES AROUND OLD ROOT CHANNELS.  
 CLASSIFICATION PHASE IS SALINE.  
 THE SULPHUR VALUES ARE ALL >100 P.P.M.  
 C G63 CONSISTS OF ALTERNATING THIN BANDS OF SILT LOAM, AND FINE SAND.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A PS	0- 17	ABRUPT	10.0YR2.5/2.0 MATRIX MOIST	SILTY CLAY LOAM	MODERATE MEDIUM TO FINE SUBANGULAR BLOCKY	MODERATE MEDIUM GRANULAR
C G61	17- 40	GRADUAL	10.0YR4.0/1.5 MATRIX MOIST	SILT LOAM	MASSIVE	
C G	40- 67	GRADUAL	10.0YR4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G62	67- 95	CLEAR	5.0Y4.5/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G63	95-115	ABRUPT	2.5Y3.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	
C G6	115-		2.5Y2.5/1.0 MATRIX MOIST	FINE SANDY LOAM	STRATIFIED	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A PS	0- 17	FRIABLE	ABUNDANT		
C G61	17- 40	FIRM	PLENTIFUL	FEW FINE DISTINCT 5.0YR3.0/4.0	2.5Y6.0/4.0
C G	40- 67	FIRM	FEW	COMMON MEDIUM PROMINENT 2.5Y5.0/4.0	2.5Y7.0/4.0
C G62	67- 95	FIRM	FEW	FEW FINE DISTINCT 2.5Y7.0/6.0	
C G63	95-115	FIRM		COMMON MEDIUM PROMINENT 5.0Y4.0/2.5	
C G6	115-	FRIABLE		COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	7.5YR3.0/2.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHUD	VALUE	SAMPLE STATE	METHOD	VALUE		
A PS 0-17	2	1	4.0	2	4	3.7	12.06	.61
C GS1 17-40	2	1	3.8	2	4	3.5	1.39	.10
C G 40-67	2	1	3.8	2	4	3.5	.99	.08
C GS2 67-95	2	1	3.8	2	4	3.5		
C GS3 95-115	2	1	4.9	2	4	4.7		

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	ELECT. COND. (MMHDS/CM)	P1 PPM.	P2 PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K						
A PS 0-17	1.62	2.56	1.02	.39	35.7	6.40	8.4	126.3	52.6	75.0
C GS1 17-40	1.49	2.83	.66	.23	22.2	4.50	4.2	76.2	32.8	81.4
C G 40-67	1.05	2.34	.32	.22	18.0	3.80	.5	66.8	25.7	68.1
C GS2 67-95	1.17	2.60	.33	.31	14.7	6.70		14.3	23.0	66.6
C GS3 95-115							52.3			
C SG 115-	2.26	3.54	2.20	.52	10.9	12.60	2.4	139.3	25.8	77.4

HORIZON-DEPTH (CM.)	PARTICLE SIZE (%)		
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL
A PS 0-17	1	71	28
C GS1 17-40	1	75	24
C G 40-67	6	75	19
C GS2 67-95			
C GS3 95-115			
C SG 115-			

Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 mm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
Cg1 (17-40)		montmorillonite, vermiculite, quartz, mica	chlorite, plagioclase, feldspars			montmorillonite	chlorite, mica	quartz, kaolinite, interstratified chlorite-vermiculite		



# SPETIFORE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION  
 -----  
 LATITUDE(N): 49 04 57  
 LONGITUDE(W): 123 02 19  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

CLASSIFICATION  
 -----  
 REGO HUMIC GLEYSOL(1978)

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

MIDDLE STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

SPEC. CLASTIC II: SANDY  
 GENETIC MAT.: FLUVIAL

ADDITIONAL NOTES  
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CLASSIFICATION PHASE: SALINE.

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-28	2	4	4.4	1.06	56.4	19.1	44.8	53.8	64.2
C GS1 28-53	2	4	3.7	1.23	42.3	10.9	37.6	28.3	39.6
C GS2 53-86	2	4	3.7	1.06	34.6	12.9	53.9	30.9	42.2
II C GS1 86-112	2	4	3.6	1.46	18.9	4.6	27.8		23.8
II C GS2 112-137	2	4	3.7	1.41	11.2	3.7	30.6		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
Ap	0-28	2.24	2.37	71.8	51.9	54.3	36.0							98.5	98.0	24.0
Cgs1	28-53	2.63	2.75	103.4	24.2	25.9	21.0							98.0	94.0	22.0
Cgs2	53-86	2.65	2.76	100.5	24.5	26.0	22.4							95.0	92.0	21.0
IICgs1	86-112	2.67	2.72	111.0	22.9	23.6	13.5							33.2	28.0	6.0
IICgs2	112-137	2.69	2.74	105.6	26.9	27.6	13.5							30.0	23.0	7.0

# STAVE

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.N.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>	
LATITUDE(N): 49 10 51	ORTHIC HUMO-FERRIC PODZOL(1978)	X	5.0
LONGITUDE(W): 122 21 51	STATUS: MODAL SOIL	TYPE:	SINGLE
PRECISION (SEC): 05		CLASS:	MODERATELY SLOPING
ELEVATION (M): 150			

PARENT MATERIAL & LANDFORM

<u>UPPER STRATIGRAPHIC UNIT</u>	<u>MIDDLE STRATIGRAPHIC UNIT</u>
SPEC. CLASTIC I: SILTY GENETIC MAT. I: EOLIAN SURFACE EXPRES.: VENEER	SPEC. CLASTIC I: SANDY GENETIC MAT. I: FLUVIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION NEAR INTERSECTION OF KEYSTONE AND SHAW RDS., MISSION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	4- 0	ABRUPT				
A E	0- 3	ABRUPT	5.0YR5.0/1.5 MATRIX MOIST 10.0YR5.5/1.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B F1	3- 15	GRADUAL	5.0YR3.5/4.0 MATRIX MOIST 7.5YR5.0/5.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	15- 37	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	10.0YR5.0/4.0 MATRIX DRY	LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F3	37- 47	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.5/4.0 MATRIX DRY		LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B M	47- 60	DIFFUSE	10.0YR4.5/3.5 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY		LOAM	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
II BC GJ	60- 87		5.0Y5.0/3.0 MATRIX MOIST		LOAMY SAND	MODERATE MEDIUM TO COARSE SUBANGULAR BLOCKY
II C GJ	87-				COARSE SAND GRAVELLY	

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
LH	4- 0			ABUNDANT		
A E	0- 3		FRIABLE	ABUNDANT		
B F1	3- 15		FRIABLE	ABUNDANT		
B F2	15- 37		FRIABLE	PLENTIFUL		
B F3	37- 47		FRIABLE	PLENTIFUL		
B M	47- 60		FRIABLE	FEW	FEW FINE FAINT	
II BC GJ	60- 87		FIRM	VERY FEW	COMMON MEDIUM PROMINENT 5.0YR4.5/7.0	5.0YR5.0/8.0
II C GJ	87-	SINGLE GRAIN				

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
LH	4- 0		
A E	0- 3		
B F1	3- 15	COMMON FINE SPHERICAL	
B F2	15- 37	FEW FINE SPHERICAL	
B F3	37- 47		
B M	47- 60		WEAKLY CEMENTED DISCONTINUOUS
II BC GJ	60- 87		WEAKLY CEMENTED DISCONTINUOUS
II C GJ	87-		WEAKLY CEMENTED CONTINUOUS

STAVE (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH 4- 0	2	1	4.0	2	4	3.4	52.26	1.32
A E 0- 3	2	1	4.2	2	4	3.7	3.07	.11
B F1 3- 15	2	1	5.4	2	4	4.8	5.05	.19
B F2 15- 37	2	1	5.7	2	4	5.3	2.15	.11
B F3 37- 47	2	1	5.9	2	4	5.6	.93	.06
B H 47- 60	2	1	5.8	2	4	5.4	.75	.04
II BC GJ 60- 87	2	1	5.8	2	4	5.4	.58	.03
II C GJ 87-	2	1	5.9	2	4	5.4		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)		EXTRACTABLE AL(X)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LH 4- 0	9.30	2.22	.23	1.72	160.9					33.5
A E 0- 3	.82	.16	.07	.05	17.6	1	0.4	1	0.4	4.8
B F1 3- 15	.19	.05	.03	.08	31.2	1	1.9	1	3.2	3.6
B F2 15- 37	.29	.04	.03	.10	16.8	1	1.0	1	2.7	1.2
B F3 37- 47	.22	.03	.03	.04	11.0	1	1.0	1	2.2	3.0
B H 47- 60	.31	.01	.03	.03	7.7	1	0.8	1	1.7	6.5
II BC GJ 60- 87	.15	.01	.03	.02	5.7	1	0.6	1	1.3	22.2
II C GJ 87-	.16	.01	.04	.03	6.0	1	0.9	1	2.0	31.1

HORIZON-DEPTH(CM.)	COARSE FRAGMENTS				
	P2 PPM.	S PPM.	% VOL	GRAVEL %	COBBLE %
LH 4- 0					
A E 0- 3	8.0	4.5			
B F1 3- 15	13.0	61.5			
B F2 15- 37	17.0	72.3			
B F3 37- 47	14.0				
B H 47- 60	17.0	50.8			
II BC GJ 60- 87	74.0	32.0			
II C GJ 87-	52.0	34.5	75	15	60

# STEELHEAD

DATE OF SURVEY: 66 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 13 16	DURIC FERRO-HUMIC PODZOL(1978)	K 8.0
LONGITUDE(W): 122 17 43	STATUS: MODAL SOIL	TYPE: SIMPLE
PRECISION (SEC): 10		CLASS: MODERATELY SLOPING
ELEVATION (M): 275		ASPECT (DEG): 180

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: SOUTH END OF CAMPBELL RD., MISSION TREE FARM.  
 THE B HF HAS SCATTERED PATCHES OF WEAK TO MODERATE CEMENTATION.  
 FROM 22CM TO 62CM THERE ARE SCATTERED STONES AND BOULDERS.  
 60-80CM SCATTERED STONES AND GRAVEL.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	15- 10	CLEAR				
F	10- 3	CLEAR	5.0YR2.0/2.0 MATRIX MOIST			
H	3- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	
A E	0- 3	ABRUPT	10.0YR5.0/1.5 MATRIX MOIST 10.0YR5.0/1.5 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF	3- 13	CLEAR	5.0YR2.0/1.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY	5.0YR3.0/3.0 MATRIX MOIST 7.5YR3.0/2.0 MATRIX DRY	SANDY LOAM	MODERATE COARSE SUBANGULAR BLOCKY
B FGJ1	13- 22	CLEAR	7.5YR6.0/6.0 MATRIX MOIST	5.0YR5.0/6.0 MATRIX MOIST	SANDY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ2	22- 47	CLEAR	10.0YR5.0/6.0 MATRIX MOIST		SANDY LOAM GRAVELLY	WEAK TO MODERATE FINE SUBANGULAR BLOCKY
B FGJ3	47- 62	GRADUAL	7.5YR4.0/3.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B MGJ	62- 80	ABRUPT	7.5YR4.0/3.0 MATRIX MOIST		LOAM	MODERATE VERY COARSE SUBANGULAR BLOCKY
B CGJ	80-+		5.0Y4.0/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
L	15- 10				
F	10- 3		FEW		
H	3- 0	FRIABLE	ABUNDANT		
A E	0- 3	FRIABLE	ABUNDANT		
B HF	3- 13	FRIABLE	PLENTIFUL		WEAKLY CEMENTED DISCONTINUOUS
B FGJ1	13- 22	FRIABLE	PLENTIFUL	FEW MEDIUM DISTINCT	
B FGJ2	22- 47	FRIABLE	PLENTIFUL	MANY MEDIUM DISTINCT 5.0YR4.0/8.0	
B FGJ3	47- 62	FRIABLE	ABUNDANT	COMMON MEDIUM DISTINCT 5.0YR4.0/8.0	
B MGJ	62- 80	FIRM	FEW	COMMON MEDIUM DISTINCT 5.0YR4.0/8.0	WEAKLY CEMENTED DISCONTINUOUS
B CGJ	80-+	VERY FIRM EXTREMELY HARD		FEW MEDIUM DISTINCT 5.0YR4.0/8.0	INDURATED CONTINUOUS

STEELHEAD (Continued)

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VAL JE			
L	15= 10	2	4.1	2	4	3.6	58.00	1.41	
F	10= 3	2	4.0	2	4	3.1		1.27	
H	3= 0	2	3.8	2	4	3.2	52.00	1.05	
A E	0= 3	1	4.1	2	4	3.5	1.97	.19	
B HF	3= 13	1	5.0	2	4	4.3	7.60	.13	
B FGJ1	13= 22	2	5.3	2	4	4.8	4.52	.10	
B FGJ2	22= 47	1	5.4	2	4	5.0	2.90	.15	
B FGJ3	47= 62	1	5.4	2	4	4.8	4.52	.09	
B NGJ	62= 80	1	5.8	2	4	5.0	2.38	.01	
B CGJ	80=+	2	6.0	2	4	5.7	.17		

  

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L	15= 10	7.99	1.43	.59	.92	111.9				18.4
F	10= 3	11.41	1.77	.77	.97	149.6				20.3
H	3= 0	9.02	1.14	.21	.57	138.4				13.5
A E	0= 3	.42	.09	.05	.04	15.5	1	.2	1	.9
B HF	3= 13	.20	.12	.06	.04	45.0	1	.9	1	.3
B FGJ1	13= 22	.10	.02	.06	.03	27.8	1	1.1	1	.8
B FGJ2	22= 47	.09	.02	.04	.02	21.8	1	.9	1	2.3
B FGJ3	47= 62	.05	.02	.05	.08	26.6	1	.7	1	2.4
B NGJ	62= 80	.06	.01	.04	.08	17.5	1	.7	1	4.7
B CGJ	80=+	.11	.01	.10	.01	2.1	1	.4	1	19.2

  

HORIZON-DEPTH(CM.)	PARTICLE SIZE(X)					COARSE FRAGMENTS			
	P2 PPM.	S PPM.	TOTAL SAND	62=2 U SILT	2U CLAY TOTAL	% VOL GRAVEL %	COBBLE %	STONE %	
L	15= 10								
F	10= 3	40.0							
H	3= 0	31.0							
A E	0= 3	26.0							
B HF	3= 13	3.0	4.5		7	20			
B FGJ1	13= 22	1.0	41.8	52	41	20			
B FGJ2	22= 47	14.0	73.5	52	42	6			
B FGJ3	47= 62	11.0	71.0	41	52	7			
B NGJ	62= 80	25.0	50.0	70	29	1	10	10	
B CGJ	80=+	21.0	88.8			20	10	10	
		13.0	27.0			40	20	15	

# STRACHAN

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, R.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 27 29	DURIC FERRO-HUMIC PODZOL(1978)	% TYPE: 30.0
LONGITUDE(W): 122 56 48	STATUS: MODAL SOIL	ASPECT (DEG): 270
PRECISION (SEC): 05		
ELEVATION (M): 300		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED

ADDITIONAL NOTES

SITE LOCATION 5 KM NORTH OF SEYMOUR DAM.  
 THERE IS ROOT MAT PRESENT IN THE B MGS HORIZON.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	10- 9	ABRUPT			ORGANIC	
H	9- 0	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	WEAK FINE SUBANGULAR BLOCKY
A E	0- 4	ABRUPT	5.0YR4.5/1.5 MATRIX MOIST		SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
B HF1	4- 14	CLEAR	5.0YR3.0/3.2 MATRIX MOIST	5.0YR2.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B HF2	14- 37	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	5.0YR3.0/3.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B F	37- 65	DIFFUSE	5.0YR3.0/4.0 MATRIX MOIST	7.5YR3.0/4.0 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ1	65- 95	DIFFUSE	5.0YR3.0/3.5 MATRIX MOIST		SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ2	95-130	DIFFUSE	5.0YR4.0/6.0 MATRIX MOIST	10.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY
B MGJ	130-155	ABRUPT	5.0Y5.0/3.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MODERATE MEDIUM SUBANGULAR BLOCKY
B CGJ	155-180	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
BC	180-205		5.0Y5.0/2.5 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LF	10- 9		PLENTIFUL		
H	9- 0	FRIABLE	ABUNDANT		
A E	0- 4	FRIABLE	PLENTIFUL		
B HF1	4- 14	FRIABLE	PLENTIFUL		
B HF2	14- 37	FRIABLE	PLENTIFUL		
B F	37- 65	FRIABLE	PLENTIFUL		
B FGJ1	65- 95	FRIABLE	PLENTIFUL	FEW FINE FAINT	
B FGJ2	95-130	FRIABLE	PLENTIFUL		
B MGJ	130-155	FRIABLE	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/6.0	
B CGJ	155-180	VERY FIRM	VERY FEW	COMMON COARSE PROMINENT 7.5YR4.5/5.0	INDURATED CONTINUOUS
BC	180-205	FIRM		FEW COARSE PROMINENT	STRONGLY CEMENTED CONTINUOUS

STRACHAN (Continued)

PHYSICAL & CHEMICAL DATA

PH 1					PH 2					ORGANIC CARRON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE					
LF	10= 9	2	3.9	2	4	3.5	58.00	1.47			
H	9= 0	2	3.5	2	4	2.9	58.00	1.77			
A E	0= 4	1	4.0	2	4	3.5	3.89	.21			
B HF1	4= 14	1	4.8	2	4	4.3	8.00	.29			
B HF2	14= 37	1	5.3	2	4	4.6	5.28	.20			
B F	37= 65	1	5.0	2	4	4.5	4.58	.18			
B FGJ1	65= 95	1	4.9	2	4	4.3	4.47	.22			
B FGJ2	95=130	1	5.2	2	4	4.3	5.10	.21			
B MGJ	130=155	1	5.1	2	4	4.5	1.97	.08			
B CGJ	155=180	1	5.3	2	4	4.7					
BC	180=205	1		2	4						

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	10= 9	7.58	2.35	.29	1.72	97.2			
H	9= 0	7.09	2.83	.27	1.22	131.2			
A E	0= 4	.45	.18	.06	.09	12.4	1	0.1	0.7
B HF1	4= 14	.27	.11	.06	.06	44.1	1	1.0	3
B HF2	14= 37	.52	.17	.08	.05	23.5	1	0.9	3
B F	37= 65	.46	.09	.07	.06	25.1	1	1.3	3
B FGJ1	65= 95	.26	.08	.04	.05	25.6	1	0.8	3
B FGJ2	95=130	.20	.06	.04	.03	27.1	1	0.7	3
B MGJ	130=155	.13	.03	.09	.02	11.6	1	0.5	3
B CGJ	155=180						1	0.2	3
BC	180=205						1	0.2	

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(X)				COARSE FRAGMENTS					
	METHOD	RESULT	METHOD	RESULT	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	% VOL
LF	10= 9				32.0	38.2	56.0	18.8	55.3	
H	9= 0				38.3	38.6		17.0	65.2	
A E	0= 4	1	0.2		7.1	8.7	8.5	5.1	12.7	
B HF1	4= 14	1	2.7	3	1.1	8.4	20.5	14.9	35.5	30
B HF2	14= 37	1	2.8	3	1.1	18.6	17.0	14.9	45.0	30
B F	37= 65	1	2.0	3	5.6	10.5	20.5	13.9	34.7	30
B FGJ1	65= 95	1	2.2	3	1.4	7.2	22.5	14.9	38.8	30
B FGJ2	95=130	1	2.2	3	1.6	13.2	19.5	12.9	41.4	50
B MGJ	130=155	1	1.2	3	0.6	4.5	26.2	18.4	36.0	50
B CGJ	155=180	1	0.6	3	0.1	10.9		18.4	42.6	50
BC	180=205	1	0.4					18.4	45.0	50

# STURGEON

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 17 38	REGO GLEYSOL (1978)	% TYPE CLASS: 1.0
LONGITUDE (W): 122 37 27	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05	PHASE: PEATY	GENTLY UNDULATING
ELEVATION (M): 2		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

MIDDLE STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION NEAR EASTERN END OF STURGEON SLOUGH RD., PITT POLDER.  
 THE D H1 AND D H2 CRACK VERTICALLY ON DRYING.  
 THERE IS EVIDENCE OF OLD DEAD ROOTS IN THE C G3 AND C G4 HORIZONS.  
 VERTICAL CRACKS IN C G1, C G2 CONTAIN ORGANIC MATERIAL FROM ABOVE.  
 CLASSIFICATION PHASE IS PEATY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
D HP	37- 25	ABRUPT	7.5YR2.0/0.0 MATRIX MOIST 10.0YR2.0/1.0 MATRIX DRY	ORGANIC	MODERATE MEDIUM GRANULAR	FRIABLE	ABUNDANT
D H1	25- 15	GRADUAL	10.0YR2.0/2.0 MATRIX MOIST	ORGANIC		FIRM	ABUNDANT
D H2	15- 0	CLEAR	10.0YR3.0/4.0 MATRIX MOIST	ORGANIC		FRIABLE	ABUNDANT
C G1	0- 20	DIFFUSE	2.5Y3.5/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	PLENTIFUL
C G2	20- 52	CLEAR	2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	FEW
C G3	52- 80	DIFFUSE	N4.0/0.0 MATRIX MOIST	SILT LOAM	MASSIVE	FRIABLE	
C G4	80-		N3.5/0.0 MATRIX MOIST	FINE SANDY LOAM	MASSIVE	FRIABLE	

THICKNESS MOTTLES 1  
 HORIZON DEPTH (CM)

D HP	37- 25	
D H1	25- 15	
D H2	15- 0	
C G1	0- 20	FEW FINE FAINT 10.0YR4.0/3.0
C G2	20- 52	FEW FINE FAINT 10.0YR4.0/3.0
C G3	52- 80	COMMON COARSE PROMINENT 7.5YR4.0/4.0
C G4	80-	COMMON COARSE PROMINENT 7.5YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
D HP	37- 25	2	2	4.2	2	4	3.8	3.52
D H1	25- 15	2	2	4.7	2	4	4.1	2.64
D H2	15- 0	2	2	4.9	2	4	4.3	1.42
C G1	0- 20	2	1	5.0	2	4	4.7	.16
C G2	20- 52	2	1	5.3	2	4	5.0	.13
C G3	52- 80	2	1	5.3	2	4	5.4	
C G4	80-	2	1	5.6	2	4	5.6	

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K						
D HP	37- 25	4.47	2.42	.09	1.07	132.7	54.9	66.8	103.8	20.9
D H1	25- 15	2.19	1.15	.09	.25	105.2	18.0	24.2	102.1	24.7
D H2	15- 0	1.89	.99	.12	.06	69.0	10.5	28.0	65.6	23.3
C G1	0- 20	3.59	1.83	.13	.04	14.5	4.4	25.4	10.5	18.2
C G2	20- 52	5.41	2.80	.15	.03	9.7	4.3	60.2	10.2	17.6
C G3	52- 80						1.7	121.7	48.6	27.1
C G4	80-						2.0	119.4	38.1	24.1



# SUMAS

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: HAL KELORNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 03 15	REGD GLEYSOL(1978)	% 00.0
LONGITUDE(W): 122 08 47		
PRECISION (SEC): 05	STATUS: MODAL SOIL	
ELEVATION (M): 5		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

MOTTLES MAINLY ALONG ROOT CHANNELS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 13	ABRUPT	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	LOAMY SAND	MASSIVE	
C G1	13- 22	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST	LOAMY SAND	MASSIVE	SINGLE GRAIN
C G2	22- 45	DIFFUSE	5.0Y5.0/2.0 MATRIX MOIST	LOAMY SAND	MASSIVE	SINGLE GRAIN
C G3	45-			COARSE SAND	SINGLE GRAIN	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1
A P	0- 13	VERY FRIABLE	ABUNDANT	FAINT
C G1	13- 22	VERY FRIABLE		FEW FINE FAINT
C G2	22- 45	VERY FRIABLE		FEW FINE FAINT
C G3	45-	LOOSE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
A P	0- 13	2	5.4	.94	.09	2.91	.05	.06	.06	6.7
C G1	13- 22	2	6.4	.39	.06	1.93	1.14	.08	.04	5.2
C G2	22- 45	2	6.7	.41	.06	2.25	.81	.10	.04	5.6
C G3	45-	2	6.7	.35	.01	1.07	1.28	.06	.03	3.3

HORIZON-DEPTH(CM.)	P1	PPM.
A P	0- 13	17.0
C G1	13- 22	8.0
C G2	22- 45	10.0
C G3	45-	7.0

# SUMAS

UNIT TYPE: SERIES

DATE OF SURVEY: 61 SURVEYOR: VKC KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 REGD GLEYSOL(1978)  
 STATUS: MODAL SOIL

SLOPE  
 -----  
 TYPE: CLASS:  
 SIMPLE DEPRESSIONAL TO LEVEL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

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 PROFILE DESCRIPTION  
 -----

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
A P	0- 13	10.0YR3.0/2.0 MATRIX MOIST 10.0YR5.0/2.0 MATRIX DRY	LOAMY SAND	MASSIVE	SINGLE GRAIN	VERY FRIABLE
C G1	13- 22	5.0Y5.0/2.0 MATRIX MOIST	LOAMY SAND	MASSIVE	SINGLE GRAIN	VERY FRIABLE
C G2	22- 45	5.0Y5.0/2.0 MATRIX MOIST	LOAMY SAND	SINGLE GRAIN		VERY FRIABLE
C G3	45-		COARSE SAND	SINGLE GRAIN		

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1
A P	0- 13	ABUNDANT	FINE FAINT
C G1	13- 22		COMMON DISTINCT
C G2	22- 45		FEW FAINT
C G3	45-		

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
A P	0- 13	2	1	5.4	.94	.09	2.91	.05	.06	.06	6.7
C G1	13- 22	2	1	6.4	.39	.06	1.93	1.14	.08	.04	5.2
C G2	22- 45	2	1	6.7	.41	.06	2.25	.81	.10	.04	5.6
C G3	45-	2	1	6.7	.35	.01	1.07	1.28	.06	.03	3.3

HORIZON-DEPTH(CM.)	P1 PPM.	
A P	0- 13	17.0
C G1	13- 22	8.0
C G2	22- 45	10.0
C G3	45-	7.0

# SUMMER

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 06 38	GLEEYED URSTSTEIN HUMO-FERRIC PODZOL 197	% 1.0
LONGITUDE (W): 122 39 45	STATUS: MODAL SOIL	TYPE: SINGLE
PRECISION (SEC): 05		CLASS: GENTLY SLOPING
ELEVATION (M): 12		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION: 40 METERS SOUTHEAST OF NORRIS-CARVOLTH RDS INTERSECTION, LANGLEY.  
 THE CB G HAS SCATTERED DARK OLIVE GREY TO BLACK, CEMENTED PATCHES WHICH MOIST ARE VERY FIRM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3- 0				ORGANIC	
A HE	0- 13	CLEAR	10.0YR3.0/1.0 MATRIX MOIST 10.0YR4.5/2.0 MATRIX DRY		FINE SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
A E	13- 22	ABRUPT	10.0YR5.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	7.5YR5.0/2.0 MATRIX MOIST	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY
B FC	22- 32	CLEAR	2.5YR2.0/2.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY		SANDY LOAM	MASSIVE
B FCGJ	32- 55	GRADUAL	7.5YR4.0/2.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	10.0YR4.0/3.0 MATRIX MOIST	LOAMY SAND	STRONG FINE TO MEDIUM SUBANGULAR BLOCKY
CB G	55- 70	GRADUAL	5.0Y4.0/2.0 MATRIX MOIST		FINE SAND	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
C G	70- 95	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST	5.0Y5.0/2.0 MATRIX MOIST	LOAMY FINE SAND	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO
II A E J G	95-115	DIFFUSE	5.0Y4.0/1.0 MATRIX MOIST		CLAY	MASSIVE
II B G	115-		5.0Y5.5/1.0 MATRIX MOIST		CLAY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LH	3- 0					
A HE	0- 13		VERY FRIABLE	ABUNDANT		
A E	13- 22	SINGLE GRAIN	VERY FRIABLE	PLENTIFUL		
B FC	22- 32	ANGULAR BLOCKY	VERY FIRM VERY HARD	FEW		STRONGLY CEMENTED CONTINUOUS
B FCGJ	32- 55		VERY FIRM	FEW	FEW FINE FAINT	STRONGLY CEMENTED CONTINUOUS
CB G	55- 70		LOOSE		COMMON MEDIUM PROMINENT	
C G	70- 95		VERY FRIABLE		COMMON MEDIUM PROMINENT 5.0YR4.0/5.0	
II A E J G	95-115		FIRM			
II B G	115-		VERY FIRM			

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3- 0	2	4.4	47.33	1.73					
A HE	0- 13	2	4.2	4.00	.26	1.54	.49	.06	.05	18.8
A E	13- 22	2	4.8	1.28	.10	1.01	.43	.05	.00	8.2
B FC	22- 32	2	5.3	3.31	.15	1.15	.37	.09	.00	18.2
B FCGJ	32- 55	2	5.5	1.74	.07	.67	.44	.11	.00	15.0
CB G	55- 70	2	5.6	.52	.03	.60	.41	.11	.00	6.7
C G	70- 95	2	5.8	.17	.02	2.04	1.18	.22	.00	6.9
II A E J G	95-115	2	5.9							
II B G	115-	2	6.2							

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
LH	3- 0	
A HE	0- 13	6.5
A E	13- 22	8.0
B FC	22- 32	3.5
B FCGJ	32- 55	8.5
CB G	55- 70	26.5
C G	70- 95	4.0
II A E J G	95-115	
II B G	115-	

# SUMMER

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION: 49 07 13  
 LONGITUDE (W): 122 53 37  
 PRECISION (SEC): 05  
 ELEVATION (M): 80

CLASSIFICATION: GLEYED ORTSTEIN HUMO-FERRIC PODZOL(197)  
 STATUS: MODAL SOIL

SLOPE: 1.0  
 TYPE: COMPLEX  
 CLASS: NEARLY LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT. I: MARINE  
 SURFACE EXPRES. I: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT. I: MARINE  
 DESCRIPTOR I: GLACIAL

ADDITIONAL NOTES

DRAINAGE: IMPERFECTLY DRAINED

THE EXCHANGEABLE CA VALUES INCLUDE MG.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
L	5- 3		ORGANIC			
FH	3- 0		ORGANIC MUCKY			
A E	0- 15	10.0YR6.0/2.0 MATRIX MOIST	SAND	VERY WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN	VERY FRIABLE
B FC	15- 23	5.0YR2.5/2.5 MATRIX MOIST	SANDY LOAM	MASSIVE	STRONG MEDIUM ANGULAR BLOCKY	VERY FIRM VERY HARD
B F	23- 33	10.0YR4.0/4.0 MATRIX MOIST	SAND	MASSIVE		FRIABLE
B FGJ	33- 48	10.0YR4.0/3.5 MATRIX MOIST	SAND	MASSIVE		FRIABLE
B MGJ	48- 80	10.0YR5.0/4.0 MATRIX MOIST	SAND	MASSIVE		FRIABLE HARD
BC	80-100	10.0YR6.0/4.0 MATRIX MOIST	SAND	MASSIVE		VERY FRIABLE
C G	100-120	5.0Y5.0/2.0 MATRIX MOIST	SAND	MASSIVE		FIRM
II C G	120-138	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE		PLASTIC
II C	138+	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE		STICKY VERY HARD PLASTIC

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1	MOTTLES 2	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
L	5- 3					
FH	3- 0	ABUNDANT				
A E	0- 15	ABUNDANT FINE				
B FC	15- 23	FEW				
B F	23- 33	FEW				STRONGLY CEMENTED CONTINUOUS
B FGJ	33- 48	FEW	MANY PROMINENT 5.0YR4.0/6.0	2.5YR3.0/6.0		WEAKLY CEMENTED DISCONTINUOUS
B MGJ	48- 80		COMMON MEDIUM 5.0YR3.0/4.0		FEW MEDIUM THROUGHOUT MATRIX	
BC	80-100		FEW 7.5YR4.0/4.0			
C G	100-120					
II C G	120-138		10.0YR5.0/3.0			
II C	138+					

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)		C. E. C. DETERMINED
						CA	K	
L	5- 3	2	4.7	54.93	2.43			
FH	3- 0	2	4.0	45.99	2.39			
A E	0- 15	2	8.0	1.80	.09			
B FC	15- 23	2	5.5	2.26	.11	1.17	.06	19.2
B F	23- 33	2	5.7	1.39	.06	.74	.04	30.6
B FGJ	33- 48	2	5.8	1.04	.05	.64	.03	29.0
B MGJ	48- 80	2	5.8	1.04	.05	.58	.03	22.0
BC	80-100	2	5.8	.17	.03	.10	.05	12.0
C G	100-120	2	5.7	.17	.01	.10	.04	4.5
II C G	120-138	2	5.7	.17	.01	.09	.05	3.5
II C	138+	2	5.9	.17	.01	.35	.15	12.6
						13.32	.30	29.4

HORIZON-DEPTH(CM.)	pH	pH <sub>m</sub>
L	5- 3	48.0
FH	3- 0	28.0
A E	0- 15	2.0
B FC	15- 23	12.0
B F	23- 33	12.0
B FGJ	33- 48	12.0
B MGJ	48- 80	11.0
BC	80-100	32.0
C G	100-120	53.0
II C G	120-138	12.0
II C	138+	12.0

# SUMMER

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 10 39	GLEYED URSTEIN HUMO-FERRIC PODZOL(197		% TYPE:	1.0
LONGITUDE (W):	122 41 30			CLASS:	SIMPLE
PRECISION (SEC):	05	STATUS: MODAL SOIL		DEPRESSIONAL TO LEVEL	
ELEVATION (M):	15				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	8= 0				ORGANIC	
A E	0= 15		10.0YR4.0/2.0 MATRIX MOIST		FINE SANDY LOAM	WEAK MEDIUM GRANULAR
B FC1	15= 30	ABRUPT	10.0YR3.0/4.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE
B FC2	30= 47	CLEAR	2.5Y5.0/4.0 MATRIX MOIST	10.0YR5.0/8.0 MATRIX MOIST	LOAMY FINE SAND	
C G1	47= 70	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST		LOAMY FINE SAND	SINGLE GRAIN
C G2	70=		2.5Y5.0/2.0 MATRIX MOIST		LOAMY FINE SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	NODULES 1	CEMENTATION AGENT/DESCRIP.
LH	8= 0					
A E	0= 15		VERY FRIABLE	PLENTIFUL		
B FC1	15= 30	STRONG COARSE PLATY	FIRM VERY HARD	FEW		STRONGLY CEMENTED CONTINUOUS
B FC2	30= 47		FIRM			STRONGLY CEMENTED DISCONTINUOUS
C G1	47= 70		LOOSE		COMMON DISTINCT 7.5YR4.0/4.0	
C G2	70=		LOOSE		MANY DISTINCT 7.5YR4.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS		BUFF. (ME/100G)		C. E. C. DETERMINED
							CA	MG	NA	K	
LH	8= 0	2	2	3.6		2.19	13.82	8.00			130.4
A E	0= 15	2	1	4.2	3.20	.17	1.27	.50	.22	.10	14.4
B FC1	15= 30	2	1	5.4	2.70	.09	.75	.89	.07	.04	18.3
B FC2	30= 47	2	1	5.9	.60	.03	1.00	.52	.05	.01	5.9
C G1	47= 70	2	1	6.4		.01	.86		.18	.02	3.6
C G2	70=	2	1	6.7		.00			.28	.03	5.3

HORIZON-DEPTH(CM.)	P1 PPM.	
LH	8= 0	24.0
A E	0= 15	0.0
B FC1	15= 30	0.0
B FC2	30= 47	20.0
C G1	47= 70	11.0
C G2	70=	0.0

# SUMMER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL UBC

<p>LOCATION ----- LATITUDE(N): 49 16 20 LONGITUDE(W): 123 13 39 PRECISION (SEC): 05 ELEVATION (M): 70</p>	<p>CLASSIFICATION ----- GLEYED ORTSTEIN HUMO-FERRIC PODZOL(197) STATUS: MODAL SOIL</p>
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PARENT MATERIAL & LANDFORM  
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<p>UPPER STRATIGRAPHIC UNIT ----- SPEC. CLASTIC I: SANDY GENETIC MAT.: MARINE SURFACE EXPRES.: VENEER</p>	<p>MIDDLE STRATIGRAPHIC UNIT ----- SPEC. CLASTIC I: CLAYEY GENETIC MAT.: MARINE</p>
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DRAINAGE: IMPERFECTLY DRAINED

PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS		
					1/3 BAR.	15 BAR.	% FIELD MOISTURE
LH 15- 0							
A Me 0- 10	2	4	4.2		18.2	4.7	29.0
B Fc 10- 36	2	4	5.0	1.24	11.5	4.9	21.0
B Fgj 36- 61	2	4	5.3	1.43	9.7	4.0	19.3
C G1 61-102	2	4	5.4	1.56	13.3	3.7	26.6
C G2 102-127	2	4	5.5	1.59	15.6	4.5	26.2

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %								
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm	
LH	15- 0															
Ahe	0- 10	2.60	2.65	105.7			16.4				98.0	23.5	24.0		3.0	
Bfc	10- 36	2.60	2.69	102.7			17.0				99.0	17.0			6.0	
Bfgj	36- 61	2.64	2.71	105.3			14.0					22.0	18.0		2.0	
Cg1	61-102	2.68	2.73	106.8			13.0					51.5	34.0		3.0	
Cg2	102-127	2.70	2.74	109.3			13.0					69.8	45.0		7.0	

# SUNSHINE

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 13 40	URTHIC HUMU-FERRIC PODZOL(1978)	%	TYPE:	2.0
LONGITUDE (W):	122 38 04			CLASS:	COMPLEX
PRECISION (SEC):	05	STATUS:			UNDULATING
ELEVATION (M):	25				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION NEAR CORNER OF 123 AVE. AND LAITY STREET, MAPLE RIDGE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 20	ABRUPT	5.0YR3.0/2.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	
B F1	20- 37	CLEAR	5.0YR3.5/4.0 MATRIX MOIST	LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY	
B F2	37- 57	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST	SAND	WEAK FINE SUBANGULAR BLOCKY	
B M1	57- 80	DIFFUSE	7.5YR5.0/6.0 MATRIX MOIST	SAND	WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN
B M2	80-112	DIFFUSE	10.0YR5.0/6.0 MATRIX MOIST	SAND	WEAK FINE SUBANGULAR BLOCKY	SINGLE GRAIN
C	112-			SAND	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	WOTTLES 1	CEMENTATION AGENT/DESCRIP.
A P	0- 20	VERY FRIABLE	ABUNDANT		
B F1	20- 37	VERY FRIABLE	ABUNDANT		WEAKLY CEMENTED DISCONTINUOUS
B F2	37- 57	LOOSE	PLENTIFUL		WEAKLY CEMENTED DISCONTINUOUS
B M1	57- 80	LOOSE	PLENTIFUL		
B M2	80-112	LOOSE		FE# MEDIUM DISTINCT	
C	112-	LOOSE		FE# MEDIUM PROMINENT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		PH 2		ORGANIC CARBON %	NITROGEN %		
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE			METHOD	VALUE
A P	0- 20	1	5.7	2	4	5.2	4.06	.21
B F1	20- 37	2	5.8	2	4	5.3	1.68	.10
B F2	37- 57	2	5.8	2	4	5.7	.75	.04
B M1	57- 80	2	5.9	2	4	5.9	.41	.02
B M2	80-112	2	5.9	2	4	5.9		
C	112-	2	5.9	2	4	5.9		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)				
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P	0- 20	2.86	.17	.03	.05	19.0	1	0.5	3	0.2
B F1	20- 37	.56	.10	.02	.04	14.9	1	1.0	3	0.2
B F2	37- 57	.32	.10	.01	.03	8.1	1	0.6	3	0.0
B M1	57- 80						1	0.3	3	0.0
B M2	80-112						1	0.3		
C	112-						1	0.2		

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
	METHOD	RESULT	METHOD	RESULT						
A P	0- 20	1	0.7	3	0.7	119.8	250.3	8.3	12.2	56.5
B F1	20- 37	1	1.2	3	0.6	22.5	61.9	8.9	9.4	50.3
B F2	37- 57	1	1.0	3	0.2	27.1	85.2	17.0	11.1	42.9
B M1	57- 80	1	0.7	3	0.2	63.4	179.5	11.2	10.1	36.8
B M2	80-112	1	0.7			74.3	202.2	18.5	10.1	29.3
C	112-	1	0.4			56.9	96.7	8.3	10.8	27.4

# SUNSHINE

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION  
 LATITUDE(N): 49 07 08  
 LONGITUDE(W): 122 53 46  
 PRECISION (SEC): 05

CLASSIFICATION  
 ORTHIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SANDY  
 GENETIC MAT. I: MARINE  
 SURFACE EXPRES.: BLANKET

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT. I: MARINE  
 DESCRIPTOR I: GLACIAL

DRAINAGE: WELL DRAINED

ADDITIONAL NOTES

THE EXCHANGEABLE CA VALUES INCLUDE MG.  
 THE AE IS DISCONTINUOUS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	RANGE	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
L	6- 5						
F	5- 0	3- 10					
A E	0- 3		7.5YR4.0/2.0 MATRIX MOIST 7.5YR6.0/2.0 MATRIX DRY	SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT ABUNDANT
B F1	3- 25		5.0YR3.0/4.0 MATRIX MOIST 5.0YR5.0/6.0 MATRIX DRY	SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B F2	25- 50		10.0YR5.0/4.0 MATRIX MOIST 10.0YR7.0/4.0 MATRIX DRY	SAND	SINGLE GRAIN	LOOSE	FEW
B CJ	50- 83		10.0YR6.0/3.0 MATRIX MOIST 10.0YR7.0/3.5 MATRIX DRY	SAND	MASSIVE		FEW
C GJ	83-116			SAND	MASSIVE	FRIABLE	
II C GJ	116-126		10.0YR6.0/3.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1	CEMENTATION AGENT/DESCIP.
L	6- 5			
F	5- 0			
A E	0- 3			
B F1	3- 25		FEW	
B F2	25- 50			
B CJ	50- 83	FEW		WEAKLY CEMENTED CONTINUOUS
C GJ	83-116	PROMINENT	FEW THROUGHOUT MATRIX	WEAKLY CEMENTED CONTINUOUS
II C GJ	116-126	MANY PROMINENT 10.0YR6.0/6.0		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)		C. E. C. DETERMINED
						CA	CEC	
L	6- 5							
F	5- 0							
A E	0- 3	2	4.4	50.29	1.74			
B F1	3- 25	2	4.7	1.04	.06	1.73		11.0
B F2	25- 50	2	5.4	1.97	.11	.78		26.0
B CJ	50- 83	2	5.7	1.28	.07	.37		22.6
C GJ	83-116	2	5.9	.52	.02	.26		18.4
II C GJ	116-126	2	6.0	.29	.01	.29		7.4
				.06	.01	4.63		11.8

HORIZON-DEPTH(CM.)	D1 PPM.
L	6- 5
F	5- 0
A E	0- 3
B F1	3- 25
B F2	25- 50
B CJ	50- 83
C GJ	83-116
II C GJ	116-126



# SUNSHINE

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: DNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 09 34	ORTHIC HUMO-FERRIC PODZOL (1978)		% TYPE:	1.0
LONGITUDE (W):	122 41 36			CLASS:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL		GENTLY UNDULATING	
ELEVATION (M):	12				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC !! SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC !! CLAYEY  
 GENETIC MAT.: MARINE

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	3= 0	ABRUPT			ORGANIC	
B F1	0= 25	GRADUAL	10.0YR3.0/4.0 MATRIX MOIST		SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F2	25= 50	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST		SANDY LOAM	VERY WEAK MEDIUM ANGULAR BLOCKY
B F3	50= 75	ABRUPT	10.0YR5.0/5.0 MATRIX MOIST	10.0YR5.0/6.0 MATRIX MOIST	LOAMY SAND	WEAK MEDIUM SUBANGULAR BLOCKY
B M	75= 95		10.0YR4.5/4.0 MATRIX MOIST		SAND	MASSIVE
C GJ	95=165		2.5Y5.0/4.0 MATRIX MOIST	5.0Y4.5/3.0 MATRIX MOIST	SANDY LOAM	MASSIVE
C	165=				COARSE SAND	SINGLE GRAIN

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
LF	3= 0					
B F1	0= 25		VERY FRIABLE SOFT	PLENTIFUL		
B F2	25= 50		VERY FRIABLE SOFT	PLENTIFUL		
B F3	50= 75		FRIABLE SLIGHTLY HARD	FEW		
B M	75= 95	SINGLE GRAIN	SLIGHTLY HARD	VERY FEW		
C GJ	95=165	SINGLE GRAIN	SLIGHTLY HARD		FEW 10.0YR3.5/4.0	10.0YR3.0/4.0
C	165=		LOOSE			

THICKNESS CEMENTATION  
 HORIZON DEPTH(CM) AGENT/DESCRIP.

LF	3= 0	
B F1	0= 25	
B F2	25= 50	
B F3	50= 75	
B M	75= 95	WEAKLY CEMENTED DISCONTINUOUS
C GJ	95=165	WEAKLY CEMENTED DISCONTINUOUS
C	165=	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	pH
					CA	MG	NA	K		
LF	3= 0			21.50						74.0
B F1	0= 25	2	5.7	2.25	1.37	.31	.12	.11	15.4	15.0
B F2	25= 50	2	5.7	1.47	.71	.17	.11	.08	11.7	12.0
B F3	50= 75	2	5.8	.57	.75	.30	.08	.04	7.3	13.0
B M	75= 95	2	5.7	.25	.36	.20	.09	.03	8.9	25.0
C GJ	95=165	2	6.0							21.0
C	165=									

# SUNSHINE

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION		SLOPE
LATITUDE(N): 49 03 06	URTHIC HUMO-FERRIC PODZOL(1978)		% ASPECT (DEG): 15.0
LONGITUDE(W): 122 27 25	STATUS: MODAL SOIL		
PRECISION (SEC): 05			
ELEVATION (M): 110			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: WELL DRAINED  
 RUNOFF: SLOW

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	4- 0				ORGANIC	
B F1	0- 10	CLEAR	5.0YR3.0/2.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY		LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F2	10- 33	GRADUAL	5.0YR4.0/3.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		LOAM	WEAK FINE SUBANGULAR BLOCKY
B F3	33- 55	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY	10.0YR5.0/6.0 MATRIX DRY	SANDY LOAM	WEAK FINE SUBANGULAR BLOCKY
II B M	55- 77	GRADUAL	5.0YR4.0/2.0 MATRIX MOIST 5.0YR6.0/2.0 MATRIX DRY		LOAMY SAND	WEAK FINE SUBANGULAR BLOCKY
II BC	77-108	ABRUPT			SAND	SINGLE GRAIN
III AB	108-		10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY		SILTY CLAY	MODERATE MEDIUM SUBANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	CONCRETION AND NODULE DESCIP. 1
LH	4- 0				
B F1	0- 10		VERY FRIABLE	ABUNDANT	FEW FINE THROUGHOUT MATRIX SPHERICAL
B F2	10- 33		VERY FRIABLE	ABUNDANT	FEW FINE THROUGHOUT MATRIX SPHERICAL
B F3	33- 55		VERY FRIABLE	ABUNDANT	
II B M	55- 77	SINGLE GRAIN	VERY FRIABLE	PLENTIFUL	
II BC	77-108		LOOSE	FEW	
III AB	108-		FRIABLE	FEW	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE						CA	MG	NA	K	
LH	4- 0	2	2	5.5	24.94	.98					
B F1	0- 10	2	1	5.8	2.55	.13	1.50	.90	.00	.30	17.9
B F2	10- 33	2	1	5.9	1.45	.08	1.00		.00	.20	14.6
B F3	33- 55	2	1	6.0	.75	.06	.80		.00	.20	9.6
II B M	55- 77	2	1	6.1	.35	.04	.80		.00	.10	5.7
II BC	77-108	2	1	6.1		.01	.30		.00	.10	2.7
III AB	108-	2	1	5.0		.03					

HORIZON-DEPTH(CM.)	P1 PPM.	
LH	4- 0	43.0
B F1	0- 10	24.0
B F2	10- 33	10.0
B F3	33- 55	20.5
II B M	55- 77	38.0
II BC	77-108	130.5
III AB	108-	8.5

# SUNSHINE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL UBC

LOCATION  
 -----  
 LATITUDE (N): 49 15 22  
 LONGITUDE (W): 123 13 59  
 PRECISION (SEC): 05  
 ELEVATION (M): 85

CLASSIFICATION  
 -----  
 ORTHIC HUMO-FERRIC PODZOL (1978)

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

MIDDLE STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: VENEER

GENETIC MAT. 1: MORAINAL

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	MOISTURE STATUS		
				1/3 BAR.	15 BAR.	% FIELD MOISTURE
Ae	0-5					23.6
Bf1	5-46	2	4.7	17.6	8.2	36.1
Bf2	46-71	2	4.6	12.7	7.1	27.9
Bm	71-81	2	4.9	15.8	5.0	18.2
C	81-101	2	5.1	15.7	4.2	25.1
IIC	101-127	2	5.5	20.1	7.1	13.8

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %												
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm					
Ae	0-5																100.0			
Bf1	5-46	2.43	2.57	99.5			21.2										100.0	22.5	20.0	3.0
Bf2	46-71	2.48	2.59	108.0			17.0										100.0	11.6	8.0	2.0
Bm	71-81	2.51	2.62	110.7			16.2										100.0	14.5	14.0	2.0
C	81-101	2.64	2.71	114.0	20.0	21.2	13.2										100.0	30.5	23.0	2.0
IIC	101-127	2.66	2.73	119.7	16.9	17.2	12.0										100.0	73.0	65.0	13.0

# SURREY

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 07 24	DURIC HUMU-FERRIC PODZOL (1978)	-----
LONGITUDE (W): 122 53 44	STATUS: MODAL SOIL	K
PRECISION (SEC): 05		TYPE:
ELEVATION (M): 85		CLASS:

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION IS 300 METERS WEST OF MID-POINT OF NICHOLSON RD., DELTA.  
 THE CA AND MG VALUES ARE COMBINED UNDER CA.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	8- 0	ABRUPT			ORGANIC	
A E	0- 1	ABRUPT	7.5YR5.0/2.0 MATRIX MOIST 7.5YR7.0/1.0 MATRIX DRY		SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY
B F1	1- 10	CLEAR	5.0YR3.0/4.0 MATRIX MOIST 7.5YR4.0/4.0 MATRIX DRY		SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY
B F2	10- 40	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 7.5YR6.0/6.0 MATRIX DRY		SANDY LOAM	VERY WEAK FINE SUBANGULAR BLOCKY
B FGJ	40- 62	DIFFUSE	7.5YR5.0/4.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY		SANDY LOAM	WEAK TO MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
B CGJ1	62- 67	DIFFUSE	7.5YR7.0/0.0 MATRIX MOIST	2.5YR5.0/2.0 MATRIX MOIST	SANDY LOAM	MASSIVE
B CGJ2	67-100	CLEAR	7.5YR7.0/0.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SANDY LOAM	MASSIVE
BC	100-		2.5Y6.0/0.0 MATRIX MOIST		SANDY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH (CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1
LF	8- 0			ABUNDANT FINE		
A E	0- 1					
B F1	1- 10		FRIABLE	ABUNDANT		COMMON FINE SPHERICAL
B F2	10- 40		FRIABLE	ABUNDANT		COMMON FINE SPHERICAL
B FGJ	40- 62		FRIABLE	ABUNDANT	COMMON MEDIUM DISTINCT 5.0YR3.0/4.0	
B CGJ1	62- 67	STRONG PLATY	FIRM	FEW	COMMON MEDIUM PROMINENT 5.0YR3.0/4.0	
B CGJ2	67-100		VERY FIRM	VERY FEW	COMMON MEDIUM DISTINCT	
BC	100-		VERY FIRM			

HORIZON	THICKNESS DEPTH (CM)	CEMENTATION AGENT/DESCIP.
LF	8- 0	
A E	0- 1	
B F1	1- 10	
B F2	10- 40	
B FGJ	40- 62	
B CGJ1	62- 67	STRONGLY CEMENTED CONTINUOUS
B CGJ2	67-100	INDURATED CONTINUOUS
BC	100-	

SURREY (Continued)

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)		PM 1	METHDD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)		C. E. C. DETERMINED
		SAMPLE STATE					CA	K	
LF	8= 0	2	2	4.5	34.10	1.41		1.10	77.3
A E	0= 1	2	1	5.3	1.16	.05	.66	.10	14.8
B F1	1= 10	2	1	5.4	2.96	.12	1.26	.11	42.0
B F2	10= 40	2	1	5.5	2.26	.09	.69	.08	33.0
B FGJ	40= 62	2	1	5.6	1.16	.05	.38	.05	26.6
B CGJ1	62= 67	2	1	5.6	.46	.02	.37	.04	14.8
B CGJ2	67=100	2	1	5.8	.46	.02	.41	.04	11.0
BC	100=	2	1	6.0	.12	.01	.47	.05	5.2

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	P1 DPM.	% VOL
LF	8= 0	30.0
A E	0= 1	6.0
B F1	1= 10	3.0
B F2	10= 40	25
B FGJ	40= 62	1.0
B CGJ1	62= 67	2.0
B CGJ2	67=100	12.0
BC	100=	45.0

# TRIGGS

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 07 54	TYPIC FIBRISOL(1978)		%
LONGITUDE(W):	122 58 23			TYPE:
PRECISION (SEC):	05	STATUS:	MODAL SOIL	CLASS:
ELEVATION (M):	3			1.0
				COMPLEX
				NEARLY LEVEL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLDW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: EAST CENTRAL PART OF BURNS BOG, DELTA.  
 ORGANIC MATERIAL CONSISTS OF MOSS REMAINS, SCATTERED REMAINS OF DEAD  
 TREE ROOTS TO 162 CM +.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
O F1	0= 20	GRADUAL	5.0YR5.0/5.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY	5.0YR4.5/4.0 RUBBED WET/OXIDIZED	ORGANIC	
O F2	20= 32	CLEAR	5.0YR4.0/6.0 MATRIX MOIST	5.0YR3.0/4.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O F3	32= 62	DIFFUSE	5.0YR3.0/4.0 MATRIX MOIST	2.5YR2.5/4.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE STRATIFIED
O F4	62= 85	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST	5.0YR3.0/3.0 RUBBED WET/OXIDIZED	ORGANIC	MASSIVE STRATIFIED
O F5	85=117	GRADUAL	5.0YR4.0/7.0 MATRIX MOIST	5.0YR3.0/4.0 RUBBED WET/OXIDIZED	ORGANIC	STRATIFIED
O F6	117=162		2.5YR3.0/2.0 MATRIX MOIST	5.0YR3.0/4.0 MATRIX MOIST	ORGANIC	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	ROOTS 1	% FIBRE
O F1	0= 20		PLENTIFUL	RUBBED 80
O F2	20= 32		FEW	RUBBED 75
O F3	32= 62	MASSIVE STRATIFIED	FEW	RUBBED 50
O F4	62= 85	MASSIVE STRATIFIED	FEW	RUBBED 50
O F5	85=117		FEW	RUBBED 80
O F6	117=162		FEW	RUBBED 50

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O F1	0= 20	2	2	4.0	2	4	2.8	58.00
O F2	20= 32	2	2	3.7	2	4	2.7	58.00
O F3	32= 62	2	2	3.6	2	4	2.6	58.00
O F4	62= 85	2	2	3.8	2	4	2.8	58.00
O F5	85=117	2	2	4.1	2	4	2.9	58.00
O F6	117=162	2	2	4.2	2	4	3.0	58.00

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)					C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K							
O F1	0= 20	12.26	5.39	.78	2.16	158.5	17.2		73.5	33.1	5.5
O F2	20= 32	5.30	7.71	.46	.39	163.2	7.2	7.2	54.2	6.0	4.8
O F3	32= 62	3.55	7.33	.57	.09	172.6	2.4	2.4	17.7	10.6	3.6
O F4	62= 85	5.73	9.90	.89	.16	178.5	7.8	10.4	7.8	29.3	3.9
O F5	85=117						5.0	5.0	18.6	18.6	3.7
O F6	117=162						1.3	7.8	35.0	15.6	3.9

# TRIGGS

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: DNS KELDONA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE(N):	49 11 45	TYPIC FIBRISOL(1978)	X	1.0
LONGITUDE(W):	122 44 16			
PRECISION (SEC):	05	STATUS: MODAL SOIL		
ELEVATION (M):	6			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR 1: BOG

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS	COLOUR	TEXTURE	STRUCTURE	ROOTS
DEPTH(CM)	(CM)	1		1	1
O P1	0- 10		ORGANIC		FEW
O M	10- 18	10.0YR3.0/3.0	ORGANIC		ABUNDANT
		MATRIX MOIST			
O P2	18-210	7.5YR4.5/5.0	ORGANIC	STRATIFIED	FEW
		MATRIX MOIST			

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
O P1	0- 10	2	2	3.9	56.60	.94	3.21	.35	.34	.35	138.6
O M	10- 18	2	2	3.8	58.00	1.48	8.79	2.90	.61	.56	138.6
O P2	18-210	2	2	4.0	58.00	.55	3.35	1.67	.38	.03	174.7

HORIZON=DEPTH(CM.)	04 PPM.
O P1	0- 10 29.0
O M	10- 18 31.5
O P2	18-210 2.3

# TRIGGS

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 09 20	TYPIC FIBRISOL (1978)	%	.5
LONGITUDE (W):	122 26 38	STATUS: MODAL SOIL	TYPE:	SIMPLE
PRECISION (SEC):	05		CLASS:	VERY GENTLY SLOPING
ELEVATION (M):	5			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR 1: 80G

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	ROOTS 1	FIELD PH
O F1	0- 12	CLEAR		ORGANIC	ABUNDANT	EXTREMELY ACID
U F2	12- 23	ABRUPT	7.5YR5.0/4.0 MATRIX MOIST	ORGANIC	ABUNDANT	EXTREMELY ACID
O F3	23- 35	CLEAR	2.5YR3.0/5.0 MATRIX MOIST	ORGANIC	PLENTIFUL	EXTREMELY ACID
O F4	35- 75	GRADUAL	2.5YR2.0/3.0 MATRIX MOIST	ORGANIC	PLENTIFUL	EXTREMELY ACID
O F5	75-		2.5YR3.0/3.0 MATRIX MOIST	ORGANIC	PLENTIFUL	EXTREMELY ACID



# TSAWWASSEN

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELDNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 02 19	ORTHIC REGOSOL(1978)	%	2.0	
LONGITUDE(W):	123 03 13		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	NEARLY LEVEL	
ELEVATION (M):	2				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: RAPID

ADDITIONAL NOTES

SITE LOCATION: 200 METERS NORTH OF BEACH GROVE.

PROFILE DESCRIPTION

HORIZON	THICKNESS	HORIZON	COLOUR	TEXTURE	STRUCTURE	CONSISTENCE	ROOTS
	DEPTH(CM)	BOUNDARY					
A H	0- 8	CLEAR	5.0YR2.0/1.0	SANDY LOAM	WEAK TO MODERATE FINE GRANULAR	VERY FRIABLE	ABUNDANT
C 1	8- 25	GRADUAL		SAND	SINGLE GRAIN	LOOSE	ABUNDANT
C 2	25- 52	GRADUAL		COARSE SAND GRAVELLY	SINGLE GRAIN	LOOSE	PLENTIFUL
C 3	52-			SAND	SINGLE GRAIN	LOOSE	FEW

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A H 0- 8	2	1	5.6	2	4	4.6	9.69	.55
C 1 8- 25	2	1	6.2	2	4	4.7		
C 2 25- 52	2	1	6.2	2	4	5.0		
C 3 52-	2	1	6.2	2	4	5.1		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K							
A H 0- 8	19.73	3.63	.09	.46	31.5	47.8	70.6	15.6	10.4	56.6	
C 1 8- 25	1.31	.30	.01	.05	3.2	72.4	80.0	7.5	6.3	37.7	
C 2 25- 52	1.02	.25	.01	.13	2.6	51.1	63.1	8.8	6.8	35.7	
C 3 52-	1.15	.20	.01	.18	2.7	29.1	35.1	10.0	6.8	35.1	

# TSAWWASSEN

UNIT TYPE: SERIES

DATE OF SURVEY: 58 SURVEYOR: PNS KELOWNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 00 40	ORTHC REGOSOL (1978)	%	3.0
LONGITUDE (W):	123 02 18		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	2			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SANDY  
 GENETIC MAT. 1: MARINE  
 SURFACE EXPRES. 1: SUBDUED

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF 1: SLOW  
 PERVIOUSNESS: RAPID

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A H	0- 7	CLEAR	10.0YR2.0/2.0 MATRIX MOIST	SAND	WEAK COARSE GRANULAR	SINGLE GRAIN
C 1	7- 25		2.5Y4.5/4.0 MATRIX MOIST	SAND	SINGLE GRAIN	
C 2	25-			SAND GRAVELLY	SINGLE GRAIN	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	FIELD PH
A H	0- 7	VERY FRIABLE	PLENTIFUL	MEDIUM ACID
C 1	7- 25	LOOSE	FEW FINE	MEDIUM ACID
C 2	25-	LOOSE		MEDIUM ACID

# TUNBRIDGE

UNIT TYPE: SERIES

DATE OF SURVEY: 67 SURVEYOR: MAL KELDONA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 10 02	LUVISOLIC FERRU-MUMIC PODZOL(1978)	%	3.0	
LONGITUDE(W):	122 18 45		TYPE:	COMPLEX	
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING	
ELEVATION (M):	150				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: LACUSTRINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION 200 METERS EAST AND 90 METERS NORTH OF CORNER OF CEDAR VALLEY AND ROSETTA RDS., INTERSECTION, MISSION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
L	9- 6	ABRUPT			ORGANIC	
HF	6- 4	ABRUPT			ORGANIC	
M	4- 0	ABRUPT	5.0YR2.0/2.0 MATRIX MOIST		ORGANIC	WEAK FINE SUBANGULAR BLOCKY
B HF	0- 8	CLEAR	5.0YR3.0/3.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F1	8- 22	GRADUAL	5.0YR4.0/6.0 MATRIX MOIST		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
B F2	22- 35	GRADUAL	5.0YR4.0/6.0 MATRIX MOIST	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
A EGJ	35- 55	CLEAR	10.0YR4.5/5.0 MATRIX MOIST		SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
II BA	55- 75	DIFFUSE	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
II B TG	75-		2.5Y5.5/2.0 MATRIX MOIST		SILTY CLAY LOAM	MODERATE COARSE PRISMATIC

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
L	9- 6						
HF	6- 4			ABUNDANT			
M	4- 0	WEAK FINE GRANULAR	FRIABLE	ABUNDANT			
B HF	0- 8		FRIABLE	ABUNDANT			
B F1	8- 22		FRIABLE	ABUNDANT			
B F2	22- 35		FRIABLE	PLENTIFUL	FEW FINE PAINT		
A EGJ	35- 55		FIRM	FEW	COMMON MEDIUM DISTINCT 7.5YR5.0/6.0	7.5YR5.0/6.0	
II BA	55- 75		VERY FIRM	FEW	MANY FINE 7.5YR5.0/6.0		
II B TG	75-	MODERATE MEDIUM SUBANGULAR BLOCKY	VERY FIRM		MANY MEDIUM PROMINENT 7.5YR5.0/6.0		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES

HORIZON	THICKNESS DEPTH (CM)	CEMENTATION AGENT/DESCRIP.
L	9- 6	
HF	6- 4	
H	4- 0	
B HF	0- 8	
B F1	8- 22	
B F2	22- 35	
A EGJ	35- 55	WEAKLY CEMENTED DISCONTINUOUS
II BA	55- 75	
II B TG	75-	

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 PHYSICAL & CHEMICAL DATA  
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HORIZON-DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
L	9- 6	2	2	4.7	2	4	4.4	58.00
HF	6- 4	2	2	4.2	2	4	4.0	49.42
H	4- 0	2	2	3.8	2	4	3.3	27.38
B HF	0- 8	2	1	3.9	2	4	3.8	9.45
B F1	8- 22	2	1	4.4	2	4	4.4	4.35
B F2	22- 35	2	1	4.6	2	4	4.5	4.35
A EGJ	35- 55	2	1	5.0	2	4	4.6	2.03
II BA	55- 75	2	1	5.5	2	4	4.8	1.04
II B TG	75-	2	1	5.8	2	4	4.5	.29

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)		EXTRACTABLE AL (%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
L	9- 6	42.20	10.96	.09	3.85					10.0
HF	6- 4	20.78	4.79	.14	1.32					10.0
H	4- 0	3.78	.49	.04	.36					13.7
B HF	0- 8	.59	.11	.04	.37	1	2.1	1	1.5	10.1
B F1	8- 22	.37	.04	.02	.15	1	2.3	1	2.2	5.6
B F2	22- 35	.47	.05	.04	.10					7.1
A EGJ	35- 55	.47	.01	.04	.15	1	1.9	1	2.6	10.6
II BA	55- 75	.57	.10	.05	.06					10.6
II B TG	75-	.86	.21	.08	.14					9.4

HORIZON-DEPTH (CM.)	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
L	9- 6	20.0	22.0	103.2
HF	6- 4	168.0	27.2	58.1
H	4- 0	26.0	17.9	47.1
B HF	0- 8	20.0	76.6	18.3
B F1	8- 22	18.0	54.5	19.5
B F2	22- 35	19.0	39.3	16.2
A EGJ	35- 55	29.0	24.6	12.4
II BA	55- 75	41.0	16.9	19.5
II B TG	75-	23.0	9.1	23.9

# VEDDER

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	
LATITUDE (N):	49 00 18	ORTHIC GLEYSOL(1978)	
LONGITUDE (W):	122 14 54		
PRECISION (SEC):	05	STATUS:	MODAL SOIL
ELEVATION (M):	8		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SANDY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0-17	2	1	5.6				4.38	.37
BA 17-30	2	1	5.9	2	4	5.2	2.72	.24
B GTJ1 30-40	2	1	6.0				2.67	.23
B GTJ2 40-57	2	1	6.2	2	4	5.6		.13
BC 57-80	2	1	6.3	2	4	5.6		.16
II C G1 80-113	2	1	6.3	2	4	5.7		
II C G2 113-150	2	1	5.1	2	4	4.6		

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED					
	CA	MG	NA	K	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	
A P 0-17	11.19	6.32	.11	.35	28.8	22.3	69.4	3.9	42.2	99.5
BA 17-30	10.32	7.43	.17	.17	28.8	16.7	66.6	2.3	46.4	91.6
B GTJ1 30-40	12.11	9.42	.20	.17	29.9	13.5	76.1	.5	51.6	112.6
B GTJ2 40-57	8.95	8.25	.18	.14	21.7	9.8	155.4	.5	35.5	63.6
BC 57-80	11.36	11.41	.19	.18	28.3	5.9	90.4	2.8	56.3	140.0
II C G1 80-113									40.7	59.2
II C G2 113-150									29.6	51.6

HORIZON-DEPTH(CM.)	PARTICLE SIZE(%)			
	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	+2U CLAY TOTAL
A P 0-17	4	45	51	17
BA 17-30				
B GTJ1 30-40				
B GTJ2 40-57				
BC 57-80				
II C G1 80-113				
II C G2 113-150				

# VINOD

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE
LATITUDE (N):	49 05 19			
LONGITUDE (W):	122 46 05	REGO GLEYSOL (1978)	% TYPE:	00.0
PRECISION (SEC):	02		CLASS:	SIMPLE
ELEVATION (M):	2	STATUS: MODAL SOIL		DEPRESSIONAL TO LEVEL
		PHASE: PEATY		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION NORTH OF NICOMEKL RIVER, SOUTH OF MCELROY RD ABOUT 900 METERS WEST OF COAST MERIDIAN, SURREY. CLASSIFICATION PHASE IS "PEATY AND SALINE". C GS1 AND C GS2 HAVE MANY VERTICAL OLD ROOT CHANNELS AND OCCASIONAL CRACKS FILLED WITH SURFACE MATERIAL. C GS3 HAS MANY VERTICAL OLD ROOT CHANNELS WITH HARD BROWNISH TUBULES AROUND THEM. SULPHUR VALUES IN C GS2, 3 AND 4 ARE >400 P.P.M. WELL DEVELOPED PLOW PAN IN 0 H.

PROFILE DESCRIPTION

HORIZON	THICKNESS (CM)	HORIZON BOUNDARY	COLOUR	TEXTURE	STRUCTURE 1	STRUCTURE 2
O HP	35- 18	ABRUPT	2.5YR2.0/1.0 MATRIX MOIST	ORGANIC	MODERATE MEDIUM SUBANGULAR BLOCKY	GRANULAR
O H	18- 0	ABRUPT	5.0YR3.0/2.0 MATRIX MOIST 5.0YR2.0/1.5 MATRIX DRY	ORGANIC	STRONG VERY COARSE SUBANGULAR BLOCKY	
C GS1	0- 22	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	
C GS2	22- 45	DIFFUSE	10.0YR5.0/1.5 MATRIX MOIST	SILTY CLAY	MASSIVE	
C GS3	45- 95	DIFFUSE	5.0Y4.5/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	
C GS4	95-		2.5Y4.5/0.0 MATRIX MOIST	SILTY CLAY	MASSIVE	

HORIZON	THICKNESS (CM)	CONSISTENCE	ROOTS	MOTTLES
O HP	35- 18	VERY FRIABLE SOFT	ABUNDANT	
O H	18- 0	VERY FIRM VERY HARD	P.ENTIFJL	
C GS1	0- 22	STICKY PLASTIC	P.ENTIFJL	COMMON MEDIUM PROMINENT 2.5Y7.5/6.0
C GS2	22- 45	STICKY PLASTIC	FEW	COMMON MEDIUM PROMINENT 10.0YR7.0/6.0
C GS3	45- 95	STICKY PLASTIC		COMMON MEDIUM PROMINENT 2.5Y7.5/6.0
C GS4	95-			

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O HP	35- 18	2	1	4.2	2	4	3.7	58.00
O H	18- 0	2	1	3.9	2	4	3.5	54.60
C GS1	0- 22	2	1	3.9	2	4	3.5	1.91
C GS2	22- 45	2	1	3.5	2	4	3.3	
C GS3	45- 95	2	1	3.3	2	4	3.1	
C GS4	95-	2	1	6.7	2	4		

HORIZON=DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C.			
	CA	MG	NA	K	DETERMINED	D1 PPM.	D2 PPM.	S PPM.
O HP	35- 18	23.49	4.98	.09	.02	65.7	5.0	5.2
O H	18- 0	11.92	9.48	1.10	.28	116.5	4.1	8.3
C GS1	0- 22	3.00	4.18	.37	.21	21.6	16.0	72.3
C GS2	22- 45	4.53	6.80	1.65	.23	19.9	16.8	108.1
C GS3	45- 95						15.5	147.2
C GS4	95-						8.9	232.2

# VINOD

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELDANA, S.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE (N):	49 07 58	REGO GLEYSOL (1978)	%	2.0
LONGITUDE (E):	122 46 52		TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL	CLASS:	GENTLY UNDULATING
ELEVATION (M):	1			

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

CLASSIFICATION PHASE IS PEATY AND SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O HP	18- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/1.0 MATRIX DRY	ORGANIC	VERY FINE GRANULAR	FRIABLE SOFT	ABUNDANT FINE
C G1	0- 50		5.0Y5.0/1.0 MATRIX MOIST 5.0Y6.0/2.0 MATRIX DRY	SILTY CLAY	MASSIVE	STICKY FIRM PLASTIC	ABUNDANT FINE
C G2	50-		5.0Y4.0/1.0 MATRIX MOIST 5.0Y6.0/1.0 MATRIX DRY	SILTY CLAY	MASSIVE	STICKY FIRM PLASTIC	FEW FINE

HORIZON	THICKNESS DEPTH (CM)	MOTTLES 1
O HP	18- 0	
C G1	0- 50	COMMON PROMINENT 7.5YR4.0/4.0
C G2	50-	COMMON MEDIUM PROMINENT 7.5YR5.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
O HP	18- 0	2	2	4.9	17.79	1.17	14.71	8.61	1.00	.43	70.7
C G1	0- 50	2	1	5.5	1.17	.07	7.39	8.06	.26	.38	20.6
C G2	50-	2	1	4.1	1.54	.09	2.39	3.82	.69	.32	18.0

HORIZON=DEPTH (CM.)	ELECT. COND. (MMHDS/CM)	P1 PPM.
O HP	18- 0	.44
C G1	0- 50	14.6
C G2	50-	15.3
		8.2

# VINOD

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PNS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 07 57	REGO GLEYSOL(1978)		%	1.0
LONGITUDE(W):	122 46 35			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL		CLASS:	NEARLY LEVEL
ELEVATION (M):	1				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

CLASSIFICATION PHASE IS SALINE AND PEATY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
0 HP	40- 20	10.0YR2.0/1.0 MATRIX MOIST 10.0YR3.0/1.0 MATRIX DRY	ORGANIC MUCKY	WEAK FINE GRANULAR	VERY FRIABLE SOFT	ABUNDANT
0 M	20- 0	10.0YR2.0/2.0 MATRIX MOIST 10.0YR3.0/2.0 MATRIX DRY	ORGANIC	STRATIFIED	HARD	FEW
II C G1	0- 13	10.0YR4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE		FEW
II C S2	13-	5.0Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
0 HP	40- 20	2	4.8	58.00	2.13	12.34	11.38	1.24	.28	115.9
0 M	20- 0	2	4.6	58.00	2.11	10.26	13.14	1.39	.14	120.5
II C G1	0- 13	2	4.1	6.53	.29	3.74	8.98	1.00	.28	36.2
II C S2	13-	2	3.3	6.00	.30	5.54	10.39	1.44	.29	33.5

HORIZON-DEPTH(CM.)	ELECT. COND. (MMHOS/CM)	pH
0 HP	40- 20	1.09
0 M	20- 0	1.60
II C G1	0- 13	3.60
II C S2	13-	6.14



# VINOD

UNIT TYPE: SERIES

DATE OF SURVEY: SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE		
LATITUDE (N):	49 05 10	REGU GLEYSOL (1978)	TYPE:	SIMPLE	
LONGITUDE (W):	122 58 50		CLASS:		DEPRESSIONAL TO LEVEL
PRECISION (SEC):	05				
ELEVATION (M):	2		STATUS:		MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: RUNOFF: VERY POORLY DRAINED  
 SLOW

ADDITIONAL NOTES

SITE LOCATION: ABOUT 1000 METERS SOUTH OF THE JUNCTION OF SMITH AND  
 LADNER TRUNK ROADS.  
 CLASSIFICATION PHASE IS PEATY AND SALINE.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH (CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
O HP	23- 0	ABRUPT	10.0YR2.0/1.0 MATRIX MOIST	ORGANIC	WEAK FINE SUBANGULAR BLOCKY	GRANULAR
C G	0- 45	ABRUPT	2.5Y4.0/2.0 MATRIX MOIST	SILTY CLAY	MASSIVE	WEAK MEDIUM ANGULAR BLOCKY PSEUDO
C GS	45- 73	GRADUAL	5.0Y5.0/1.0 MATRIX MOIST	SILTY CLAY LDAM	MASSIVE	MODERATE COARSE ANGULAR BLOCKY PSEUDO
C SG	73-		5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH (CM)	CONSISTENCE	ROOTS 1	HOTTLES 1
O HP	23- 0	FRIABLE	ABUNDANT	
C G	0- 45	FIRM SLIGHTLY PLASTIC	FEW	COMMON MEDIUM DISTINCT 10.0YR6.0/6.0
C GS	45- 73	SLIGHTLY PLASTIC	VERY FEW	
C SG	73-			FEW MEDIUM DISTINCT 10.0YR4.0/4.0

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	ELECT. COND. (MMHOS/CM)
O HP 23- 0	
C G 0- 45	
C GS 45- 73	7.30
C SG 73-	12.30

# VINOD

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION CLASSIFICATION  
 -----  
 LATITUDE (N): 49 05 19  
 LONGITUDE (W): 122 46 05 REGO GLEYSOL (1978)  
 PRECISION (SEC): 05  
 ELEVATION (M): 2

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

ADDITIONAL NOTES

CLASSIFICATION PHASE: SALINE, PEATY.

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	PH 1		METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
	SAMPLE STATE					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
U HP 36- 18					.38			50.1		
O H 18- 0										
C GS1 0- 38	2	4	4	3.6	.91	48.1	14.5	60.5	32.4	47.2
C GS2 38- 66	2	4	4	3.2	.94	51.3	14.1	60.7	30.6	43.2
C GS3 66- 91	2	4	4	3.6	1.10	48.5	11.5	55.9	29.9	39.3

PH METHODS, CODES:

- 1...H2O 111
- 2...H2O 115
- 3...H2O SATURATION
- 4...CACL2
- 5...KCL
- 6...NAF

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %									
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
Ohp	36- 18																
H	18- 0																
Cgs1	0- 38	2.57	2.70		42.2	44.1						100.0	100.0	93.0		26.0	
Cgs2	38- 66	2.59	2.74		39.8	41.9						100.0	100.0	95.0		29.0	
Cgs3	66- 91	2.65	2.78		37.0	38.8						100.0	100.0	99.0		20.0	

# VYE

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: HAL KELDWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 00 47	GLEVED GRAY LUVISOL(1978)		K	2.0
LONGITUDE(W):	122 12 15			TYPE:	COMPLEX
PRECISION (SEC):	02	STATUS:	MODAL SOIL	CLASS:	UNDULATING
ELEVATION (M):	8				
PARENT MATERIAL & LANDFORM					
UPPER STRATIGRAPHIC UNIT					
SPEC. CLASTIC 1: SILTY					
GENETIC MAT. 1: LACUSTRINE					
SURFACE EXPRES. 1: LEVEL					
ROOTING DEPTH:	145 CM.			DRAINAGE:	IMPERFECTLY DRAINED
				RUNOFF:	MEDIUM

ADDITIONAL NOTES

SITE LOCATION 500 METERS SOUTH OF INTERSECTION OF VYE AND FADDEN ROS.,  
 SUMAS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P	0- 17	CLEAR	10.0YR3.5/2.0 MATRIX MOIST 2.5Y5.0/2.0 MATRIX DRY	10.0YR5.5/2.0 MATRIX DRY	SILT LOAM	MODERATE TO STRONG MEDIUM SUBANGULAR BLOCKY
A EGJ	17- 27	CLEAR	10.0YR5.0/2.5 MATRIX MOIST 2.5Y7.0/2.0 MATRIX DRY	10.0YR7.0/2.0 MATRIX DRY	SILT LOAM	MODERATE MEDIUM ANGULAR BLOCKY
BA	27- 37	CLEAR	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.5/2.0 MATRIX DRY	10.0YR5.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE TO STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY
B TJGJ	37- 60	DIFFUSE	10.0YR5.0/2.0 MATRIX MOIST 2.5Y5.0/2.0 MATRIX DRY		SILT LOAM	MODERATE MEDIUM TO COARSE PRISMATIC
B TGJ	60- 80	GRADUAL	10.0YR5.0/1.5 MATRIX MOIST		SILT L JAM	MODERATE MEDIUM TO COARSE PRISMATIC
BC	80-105	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST		SILT LOAM	WEAK TO MODERATE MEDIUM TO COARSE PRISMATIC
II C G	105-145		5.0Y4.0/1.0 MATRIX MOIST		FINE SANDY LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
A P	0- 17		FRIABLE SLIGHTLY HARD	ABUNDANT			
A EGJ	17- 27		FIRM HARD	ABUNDANT	COMMON FINE DISTINCT 10.0YR4.5/4.0		
BA	27- 37		FIRM HARD	PLENTIFUL	COMMON MEDIUM PROMINENT 7.5YR4.0/4.0		
B TJGJ	37- 60	MODERATE MEDIUM TO COARSE ANGULAR BLOCKY	FIRM HARD	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR4.0/6.0		COMMON MOD. THICK ON PED FACES- UNSPECIFIED
B TGJ	60- 80	MODERATE MEDIUM TO COARSE ANGULAR BLOCKY	FIRM HARD	PLENTIFUL	MANY MEDIUM PROMINENT 5.0YR3.5/4.0		MANY MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES
BC	80-105	MODERATE MEDIUM TO COARSE ANGULAR BLOCKY	FRIABLE	FEW	MANY MEDIUM PROMINENT 5.0YR4.0/6.0		COMMON ON PED FACES- UNSPECIFIED
II C G	105-145		FRIABLE	VERY FEW	MANY MEDIUM PROMINENT 7.5YR4.0/4.0	5.0YR3.0/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P 0= 17	2	1	6.0	2	4	5.4	6.50	.33
A EGJ 17= 27	2	1	6.0	2	4	5.3	1.39	.11
BA 27= 37	2	1	6.1	2	4	5.4	1.02	.09
B TJGJ 37= 60	2	1	6.1	2	4	5.4	.65	.06
B TGJ 60= 80	2	1	6.3	2	4	5.0		.04
BC 80=105	2	1	6.3	2	4	5.6		
II C G 105=145	2	1	6.4	2	4	5.6		

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)		EXTRACTABLE AL(%)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
A P 0= 17	10.60	4.63	.05	.84	26.2					14.1
A EGJ 17= 27	8.28	2.55	.08	.17	15.4					6.6
BA 27= 37	9.81	3.62	.11	.16	18.0	1	.3	1	.1	4.3
B TJGJ 37= 60	8.44	3.84	.11	.08	13.2	1	.2	1	.1	3.3
B TGJ 60= 80	6.31	4.33	.13	.09	14.6	1	.2	1	.1	1.8
BC 80=105	5.71	6.69	.11	.13	15.5	1	.2	1	.2	
II C G 105=145	2.73	6.28	.10	.08	11.3	1	.1	1	.1	

HORIZON=DEPTH(CM.)	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
A P 0= 17	54.1	5.1	28.8	93.1
A EGJ 17= 27	79.6	3.1	33.7	45.4
BA 27= 37	51.1	3.8	38.1	45.5
B TJGJ 37= 60	61.5	1.0	37.9	71.2
B TGJ 60= 80	13.5	1.5	47.1	74.3
BC 80=105			47.1	71.4
II C G 105=145			32.4	56.9

# VYE

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL UBC

LOCATION  
 LATITUDE (N): 49 01 15  
 LONGITUDE (W): 122 12 15  
 PRECISION (SEC): 05  
 ELEVATION (M): 7

CLASSIFICATION  
 GLEYED GRAY LUVISOL (1978)

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: LACUSTRINE  
 SURFACE EXPRES.: LEVEL

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC II: SANDY  
 GENETIC MAT.: LACUSTRINE

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A P 0-25	2	4	5.0	1.04	42.0	15.7	46.8	28.7	37.0
AB 25-51	2	4	5.5	1.14	37.5	12.2	31.8	27.1	32.4
B TGJ 51-89	2	4	5.7	1.23	38.6	9.4	31.0	23.8	26.2
C G 89-132	2	4	5.8	1.38	29.1	8.0	22.5		
II C G 132-188	2	4	5.8	1.34	14.2	4.4	29.5		

Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-25	2.55	2.68									100.0	94.1	84.4	33.3
AB	25-57	2.65	2.77			25.0						100.0	98.0	95.2	25.5
Btgj	51-89	2.70	2.79			25.0						100.0	96.9	91.0	16.2
Cg	89-132	2.67	2.77			36.0						100.0	84.7	72.5	10.5
IICg	132-188	2.70	2.76			20.0						100.0	50.9	39.4	5.9

# WESTHAM

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE(N): 49 04 57	REGD HUMIC GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 123 09 38	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC): 05		DEPRESSIONAL TO LEVEL
ELEVATION (M): 2		

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 PARENT MATERIAL & LANDFORM  
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 UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

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 ADDITIONAL NOTES  
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SITE LOCATION: 200 METERS NORTH OF WEST END OF TAMBOLINE RD., WESTHAM ISLAND. CLASSIFICATION PHASE IS SALINE. THE C G2 AND C SG HAVE REDDISH BROWN HARD TUBULES AROUND OLD ROOT CHANNELS. SULPHUR VALUES IN THESE TWO HORIZONS >500 P.P.M.

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 PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
A P1	0- 15	GRADUAL	10.0YR4.0/2.0 MATRIX MOIST	2.5Y5.0/2.0 MATRIX MOIST	SILT LOAM	MODERATE FINE TO MEDIUM SUBANGULAR BLOCKY
A P2	15- 25	ABRUPT	2.5Y5.0/2.0 MATRIX MOIST		SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
C G1	25- 57	DIFFUSE	5.0Y5.0/1.0 MATRIX MOIST		SILT LOAM	MASSIVE
C G2	57- 95	CLEAR	5.0Y4.5/1.0 MATRIX MOIST		SILT LOAM	MASSIVE
C SG	95-				LOAM	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P1	0- 15		FRIABLE	ABUNDANT		
A P2	15- 25		FRIABLE	ABUNDANT	FEW FINE FAINT	
C G1	25- 57	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	FIRM	FEW	COMMON MEDIUM DISTINCT 5.0Y8.0/6.0	
C G2	57- 95	WEAK MEDIUM SUBANGULAR BLOCKY PSEUDO	FRIABLE	VERY FEW	COMMON FINE PROMINENT 2.5Y8.0/6.0	5.0YR3.0/3.5
C SG	95-		FRIABLE		FEW FINE PROMINENT 5.0YR3.0/3.5	

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 PHYSICAL & CHEMICAL DATA  
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HORIZON=DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
A P1	0- 15	2	1	6.1	2	4	6.2	2.44
A P2	15- 25	2	1	5.3	2	4	5.2	2.38
C G1	25- 57	2	1	4.1	2	4	3.7	1.28
C G2	57- 95	2	1	3.7	2	4	3.4	
C SG	95-	2	1	3.4	2	4	3.2	

HORIZON=DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)					C. E. C. DETERMINED	ELECT. COND. (MHMS/CM)	P1 PPM.	P2 PPM.	S PPM.	CU PPM.
	CA	MG	NA	K							
A P1	0- 15	15.86	1.43	.25	.39	18.5		32.8	102.4	80.6	78.8
A P2	15- 25	10.52	1.65	.26	.32	17.9		24.7	97.9	37.4	82.5
C G1	25- 57	2.27	1.24	.37	.20	14.7		11.9	46.4	463.9	55.4
C G2	57- 95	1.03	1.55	.72	.33	12.9		19.1	62.9		58.0
C SG	95-	.91	1.84	.56	.27	10.1	8.10	14.9	110.1		8.2

HORIZON=DEPTH(CM.)	ZN PPM.	
A P1	0- 15	61.4
A P2	15- 25	56.2
C G1	25- 57	29.4
C G2	57- 95	26.6
C SG	95-	51.5

# WESTLANG

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: HAL KELOWNA, G.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 09 50	REGO HUMIC GLEYSOL(1978)	% TYPE: 1.0
LONGITUDE(W): 122 35 52	STATUS: MODAL SOIL	SIMPLE
PRECISION (SEC): 05		DEPRESSIONAL TO LEVEL
ELEVATION (M): 3		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION SOUTHWEST OF FT LANGLEY.  
 THE CA HORIZON CONTAINS THIN A H LAYERS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2
A P	0- 15	ABRUPT	10.0YR3.0/1.0 MATRIX MOIST 10.0YR5.0/1.0 MATRIX DRY	SILTY CLAY	MODERATE TO STRONG VERY COARSE SUBANGULAR BLOCKY	STRONG MEDIUM TO COARSE SUBANGULAR BLOCKY
CA	15- 35	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	CLAY	STRATIFIED	STRONG COARSE PLATY
C G1	35- 57	GRADUAL	5.0Y4.0/1.0 MATRIX MOIST	CLAY	MASSIVE	
C G2	57- 85	GRADUAL	5.0Y4.5/1.0 MATRIX MOIST	CLAY	MASSIVE	
C G3	85-		5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY LOAM	MASSIVE	

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2
A P	0- 15	VERY FIRM	ABUNDANT	FE# FINE FAINT	
CA	15- 35	VERY FIRM	ABUNDANT	COMMON FINE DISTINCT 5.0YR4.0/6.0	
C G1	35- 57	VERY FIRM	ABUNDANT	COMMON FINE PROMINENT 5.0YR4.0/8.0	
C G2	57- 85	VERY FIRM	FE#	COMMON MEDIUM PROMINENT 5.0YR4.0/6.0	5.0YR4.0/8.0
C G3	85-	FIRM	FE#	COMMON MEDIUM DISTINCT 10.0YR4.5/4.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1		METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
	SAMPLE STATE	P1					CA	MG	NA	K	
A P 0- 15	2	1	1	5.8	5.74	.44	10.70	8.20	.20	.10	36.0
CA 15- 35	2	1	1	5.8	2.49	.17	14.10	9.40	.20	.10	37.6
C G1 35- 57	2	1	1	6.0	1.86	.12	13.90	12.30	.40	.20	36.2
C G2 57- 85	2	1	1	6.0			9.00	10.30	.20	.10	28.6
C G3 85-	2	1	1	5.8			7.00	4.90	.30	.10	22.4

HORIZON-DEPTH(CM.)	P1 PPM.	P2 PPM.
A P 0- 15	12.7	40.0
CA 15- 35	12.6	35.0
C G1 35- 57	6.3	17.0
C G2 57- 85	3.5	7.0
C G3 85-	2.5	9.0

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: PMS KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 07 53	LUVISOLIC HUMO-FERRIC PODZOL(1978)	% TYPE: 3.0
LONGITUDE (W): 122 53 32	STATUS: MODAL SOIL	CLASS: COMPLEX
PRECISION (SEC): 05		GENTLY UNDULATING
ELEVATION (M): 80		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT. I: MARINE  
 SURFACE EXPRES. I: BLANKET  
 DESCRIPTOR I: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED

ADDITIONAL NOTES

THE EXCHANGEABLE CA VALUES INCLUDE MG.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	COLOUR 1	TEXTURE	STRUCTURE 1	STRUCTURE 2	CONSISTENCE
L	6- 5		ORGANIC			
FH	5- 0		ORGANIC			LOOSE
B HF	0- 8	7.5YR4.0/2.0 MATRIX MOIST 7.5YR5.0/6.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY		VERY FRIABLE
B F1	8- 18	10.0YR3.0/4.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY		VERY FRIABLE
B F2	18- 45	10.0YR3.0/4.0 MATRIX MOIST 10.0YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY		FRIABLE
BA 1	45- 55	10.0YR4.0/2.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY		FRIABLE
A EGJ	55- 65	10.0YR6.0/2.0 MATRIX MOIST 10.0YR7.0/3.0 MATRIX DRY	SILTY CLAY LOAM	MASSIVE		SLIGHTLY STICKY FIRM PLASTIC
BA 2	65-	10.0YR6.0/2.0 MATRIX MOIST 10.0YR8.0/2.0 MATRIX DRY	SILTY CLAY	MASSIVE	VERY COARSE PRISMATIC	VERY FIRM

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1
L	6- 5		
FH	5- 0		
B HF	0- 8	ABUNDANT	
B F1	8- 18	ABUNDANT	
B F2	18- 45	PLENTIFUL	
BA 1	45- 55	FEW	
A EGJ	55- 65	FEW	
BA 2	65-		FEW MEDIUM

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)		C. E. C. DETERMINED
						CA	K	
L	6- 5							
FH	5- 0							
B HF	0- 8	2	5.2	24.94	.77			
B F1	8- 18	2	5.6	5.04	.20	3.19	.33	46.1
B F2	18- 45	1	5.7	3.19	.14	1.18	.17	38.2
BA 1	45- 55	1	5.8	2.03	.13	1.07	.12	33.2
A EGJ	55- 65	1	5.8	2.73	.16	1.12	.08	42.0
BA 2	65-	1	6.0	.29	.02	6.80	.05	19.4
				.06	.01	13.92	.13	22.7

HORIZON-DEPTH(CM.)	D1 DDM.
L	6- 5
FH	5- 0
B HF	0- 8
B F1	8- 18
B F2	18- 45
BA 1	45- 55
A EGJ	55- 65
BA 2	65-



# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 69 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION ----- LATITUDE (N): 49 06 14 LONGITUDE (W): 122 29 08 PRECISION (SEC): 05 ELEVATION (M): 100	CLASSIFICATION ----- LUVISOLIC HUMO-FERRIC PODZOL(1978) STATUS: MODAL SOIL	SLOPE ----- % TYPE: 6.0 CLASS: COMPLEX GENTLY ROLLING
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PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES  
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SITE LOCATION 400 METERS EAST OF ROBERTS-COUNTY LINE RDS INTERSECTION,  
 LANGLEY.

PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	3- 0	ABRUPT					
B FCC1	0- 13	GRADUAL	5.0YR3.0/3.5 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B FCC2	13- 27	GRADUAL	5.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B F	27- 45	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
B M	45- 60	CLEAR	10.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	ABUNDANT
A EGJ	60- 75	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST	CLAY LOAM	MODERATE MEDIUM ANGULAR BLOCKY	FIRM	PLENTIFUL
B TGJ	75-102	GRADUAL	10.0YR5.0/2.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM ANGULAR BLOCKY	VERY FIRM	FEW
B T	102-120		10.0YR4.5/2.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM ANGULAR BLOCKY	VERY FIRM	FEW
BC	120-150		10.0YR4.5/2.0 MATRIX MOIST	SILTY CLAY	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	VERY FIRM	
C	150-175		5.0Y4.0/1.0 MATRIX MOIST	SILTY CLAY	MASSIVE	VERY FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	CLAY FILMS 1	CONCRETION AND NODULE DESCIP. 1
LH	3- 0			
B FCC1	0- 13			COMMON MEDIUM THROUGHOUT MATRIX
B FCC2	13- 27			COMMON MEDIUM THROUGHOUT MATRIX
B F	27- 45			
B M	45- 60			
A EGJ	60- 75	MANY MEDIUM PROMINENT 7.5YR5.0/7.0		
B TGJ	75-102	COMMON FINE DISTINCT 7.5YR4.0/4.0	COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES	
B T	102-120		COMMON MOD. THICK IN MANY VOIDS CHANNELS AND ON SOME VERTICAL AND HORIZONTAL PED FACES	
BC	120-150			
C	150-175			

PHYSICAL & CHEMICAL DATA

PH 1				PH 2				ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LM	3= 0	2	5.4	2	4	5.1	46.06	2.21	
B FCC1	0= 13	1	5.5	2	4	4.6	1.96	.09	
B FCC2	13= 27	1	5.7	2	4	4.8	1.50	.08	
B F	27= 45	1	5.9	2	4	4.9	.81	.06	
B M	45= 60	1	5.6	2	4	4.3	.46	.03	
A EGJ	60= 75	1	5.8	2	4	4.2	.29	.01	
B TGJ	75=102	1	6.8	2	4	5.5		.02	
B T	102=120	1	7.2	2	4	5.9		.02	
BC	120=150	1	7.2	2	4	6.0		.02	
C	150=175	2	7.2	2	4	6.0		.02	

HORIZON-DEPTH (CM.)	EXCHANGEABLE CATIONS BUFF. (ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE (%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LM	3= 0	41.28	16.74	.29	3.64	96.5			
B FCC1	0= 13	1.76	.57	.03	.33	14.6	1	0.9	3
B FCC2	13= 27	1.26	.31	.04	.25	16.0	1	1.1	3
B F	27= 45	1.35	.39	.05	.11	11.6	1	0.7	3
B M	45= 60	1.55	1.03	.10	.06	13.3	1	1.2	3
A EGJ	60= 75	3.19	3.46	.15	.07	14.8	1	1.0	
B TGJ	75=102	9.31	8.38	.21	.14	18.1	1	0.9	
B T	102=120	10.95	9.54	.25	.21	19.1	1	0.7	
BC	120=150	10.82	8.82	.29	.23	19.4	1	0.9	
C	150=175	10.86	8.89	.27	.25	19.8	1	0.7	

HORIZON-DEPTH (CM.)	EXTRACTABLE AL (%)				P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
LM	3= 0				45.9	63.7	25.0	26.1	65.1	
B FCC1	0= 13	1	1.5	3	0.6	7.0	9.5	6.0	18.6	64.1
B FCC2	13= 27	1	2.4	3	0.5	4.2	8.2	8.0	20.7	56.7
B F	27= 45	1	1.3	3	0.3	5.9	7.6	11.3	25.6	57.6
B M	45= 60	1	1.2	3	0.3	2.1	5.8	25.0	34.3	59.3
A EGJ	60= 75	1	0.6			1.5	2.4	10.3	34.9	51.9
B TGJ	75=102	1	0.6			3.0	42.9	2.5	41.1	51.8
B T	102=120	1	0.4			3.0	156.0		49.1	73.1
BC	120=150	1	0.6			3.0	166.0		46.9	70.9
C	150=175	1	0.4			6.9	179.3	2.0	50.7	78.6

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 65 SURVEYOR: MAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION	SLOPE	
LATITUDE(N):	49 08 57	LUVISOLIC HUMO-FERRIC PODZOL(1978)	%	3.0
LONGITUDE(W):	122 32 38		TYPE:	COMPLEX
PRECISION (SEC):	05		CLASS:	UNDULATING
ELEVATION (M):	80		STATUS:	MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: LACUSTRINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: 800 METERS EAST AND 100 METERS NORTH OF THE TELEGRAPH TRAIL-MCKAY RD INTERSECTION.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	2= 0	ABRUPT			ORGANIC	
B HF	0= 8	CLEAR	10.0YR3.0/3.0 MATRIX MOIST 10.0YR4.0/2.5 MATRIX DRY		SILT LOAM	WEAK MEDIUM GRANULAR
B F1	8= 23	CLEAR	7.5YR4.0/2.0 MATRIX MOIST 10.0YR4.0/3.0 MATRIX DRY		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F2	23= 43	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	5.0YR4.0/4.0 MATRIX MOIST	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B F3	43= 60	CLEAR	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
II B HGJ	60= 70	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	MODERATE COARSE SUBANGULAR BLOCKY
II A EGJ	70= 95	GRADUAL	2.5Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	2.5Y7.0/2.0 MATRIX DRY	SILT LOAM	STRONG COARSE ANGULAR BLOCKY PSEUDO
II B TGJ	95=+		2.5Y4.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY		SILT LOAM	STRONG COARSE ANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CLAY FILMS 1
LF	2= 0					
B HF	0= 8		VERY FRIABLE	ABUNDANT		
B F1	8= 23		VERY FRIABLE	ABUNDANT		
B F2	23= 43		VERY FRIABLE	PLENTIFUL		
B F3	43= 60		VERY FRIABLE	PLENTIFUL		
II B HGJ	60= 70	MODERATE FINE SUBANGULAR BLOCKY	FRIABLE	FEW	COMMON MEDIUM FAINT	
II A EGJ	70= 95		FIRM	VERY FEW	COMMON MEDIUM PROMINENT 7.5YR5.0/6.0	
II B TGJ	95=+		VERY FIRM		COMMON MEDIUM DISTINCT 7.5YR4.0/4.0	COMMON ON PED FACES= UNSPECIFIED

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCRIP. 1
LF	2- 0	
B HF	0- 8	NONE THROUGHOUT MATRIX SPHERICAL
B F1	8- 23	NONE THROUGHOUT MATRIX SPHERICAL
B F2	23- 43	NONE THROUGHOUT MATRIX SPHERICAL
B F3	43- 60	NONE THROUGHOUT MATRIX SPHERICAL
II B MGJ	60- 70	
II A EGJ	70- 95	
II B TGJ	95-+	

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 PHYSICAL & CHEMICAL DATA  
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HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LF	2- 0	2	2	4.5	51.04	2.09					
B HF	0- 8	2	1	5.4	7.66	.44					
B F1	8- 23	2	1	5.0	3.36	.19	3.89	1.06	.00	.35	32.5
B F2	23- 43	2	1	5.1	2.09	.13	.75	.25	.00	.16	22.8
B F3	43- 60	2	1	5.4	2.55	.16	.40	.25	.00	.10	19.2
II B MGJ	60- 70	2	1	5.5	1.45	.10	.95	.39	.05	.08	22.9
II A EGJ	70- 95	2	1	6.0			1.15	.57	.05	.08	20.6
II B TGJ	95-+	2	1	6.3							

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HORIZON=DEPTH(CM.)	PARTICLE SIZE(%)					
	P1 PPM.	P2 PPM.	TOTAL SAND	62-2 U SILT	2U CLAY TOTAL	>2U CLAY TOTAL
LF	2- 0					
B HF	0- 8	18.5	56.0			
B F1	8- 23	5.0	28.0	27	59	14
B F2	23- 43	5.0	28.0	26	56	18
B F3	43- 60	11.5	40.0	24	56	20
II B MGJ	60- 70	16.0	37.0	24	54	22
II A EGJ	70- 95			31	58	11
II B TGJ	95-+			17	57	26

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Horizon (Depth-cm)	Clay Mineralogy									
	Coarse Clay (0.002 - 0.0002 cm)					Fine Clay (<0.0002 m)				
	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace	>6% est.	40-6% est.	20-40% est.	<20% est.	Trace
II A egj (70-95)	vermiculite			chlorite, mica, montmorillonite, quartz, plagioclase feldspars	kaolinite			mica	vermiculite, chlorite, quartz	montmorillonite

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: SURVEYOR: HAL KELOWNA, B.C.M.A. & P.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION -----		CLASSIFICATION -----		SLOPE -----
LATITUDE(N): 49 06 13		LUVISOLIC HUMO-FERRIC PODZOL(1978)		% TYPE: 3.0
LONGITUDE(W): 122 28 52				COMPLEX
PRECISION (SEC): 05		STATUS: MODAL SOIL		UNDULATING
ELEVATION (M): 100				

PARENT MATERIAL & LANDFORM  
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UPPER STRATIGRAPHIC UNIT  
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SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: EDLIAN  
 SURFACE EXPRES. 1: VENEER

MIDDLE STRATIGRAPHIC UNIT  
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SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: WELL DRAINED

ADDITIONAL NOTES  
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THE 2CB HAS FEW VERY DARK BROWN (10YR2.0/2.0) COATINGS ON CLEAVAGE PLANES.

PROFILE DESCRIPTION  
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HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3= 0	ABRUPT			ORGANIC	
B FCC1	0= 10	GRADUAL	5.0YR3.0/3.5 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY		SILT LOAM	WEAK VERY FINE SUBANGULAR BLOCKY
B FCC2	10= 32	DIFFUSE	5.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B FCC3	32= 63	GRADUAL	7.5YR4.0/4.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B FCC4	63= 77	ABRUPT	5.0YR4.0/5.0 MATRIX MOIST 10.0YR5.0/4.0 MATRIX DRY		SILT LOAM	WEAK FINE SUBANGULAR BLOCKY
II A EGJ	77= 92	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY		CLAY LOAM	MODERATE TO STRONG MEDIUM ANGULAR BLOCKY
II B T	92=112	GRADUAL	5.0Y5.0/1.5 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY		SILTY CLAY	STRONG FINE TO COARSE ANGULAR BLOCKY
II CB	112=		5.0Y5.0/2.0 MATRIX MOIST 2.5Y6.0/2.0 MATRIX DRY	2.5Y5.0/2.0 MATRIX MOIST	SILTY CLAY	STRONG COARSE ANGULAR BLOCKY

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	MOTTLES 2	CLAY FILMS 1
LH	3= 0						
B FCC1	0= 10	WEAK FINE GRANULAR	VERY FRIABLE	ABUNDANT			
B FCC2	10= 32		VERY FRIABLE	ABUNDANT			
B FCC3	32= 63		FRIABLE	PLENTIFUL			
B FCC4	63= 77		FRIABLE	PLENTIFUL	FEW FINE FAINT		
II A EGJ	77= 92		FIRM	FEW	COMMON MEDIUM DISTINCT 7.5YR4.0/4.0	10.0YR4.0/3.0	
II B T	92=112		VERY FIRM		FEW FINE FAINT 10.0YR4.0/3.0		COMMON ON PED FACES= UNSPECIFIED
II CB	112=		VERY FIRM				

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	CONCRETION AND NODULE DESCIP. 1
LH	3- 0	
B FCC1	0- 10	MANY FINE THROUGHOUT MATRIX SPHERICAL
B FCC2	10- 32	MANY FINE THROUGHOUT MATRIX SPHERICAL
B FCC3	32- 63	MANY FINE THROUGHOUT MATRIX SPHERICAL
B FCC4	63- 77	COMMON FINE THROUGHOUT MATRIX SPHERICAL
II A EGJ	77- 92	
II B T	92-112	
II CB	112-	

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	3- 0	2	4.8	44.67	1.97					
B FCC1	0- 10	2	5.7	3.36	.17	2.65	1.08	.06	.43	22.1
B FCC2	10- 32	2	6.0	1.45	.08	.66	.72	.06	.14	18.4
B FCC3	32- 63	2	5.9	1.10	.06	.40	.51	.17	.00	15.5
B FCC4	63- 77	2	5.9	.87	.05	.13	.56	.10	.00	15.8
II A EGJ	77- 92	2	5.8		.02	6.91	5.40	.23	.06	16.6
II B T	92-112	2	5.4							
II CB	112-	2	6.7							

HORIZON=DEPTH(CM.)	PH 1	
	P1 DPM.	P2 DPM.
LH	3- 0	
B FCC1	0- 10	5.5
B FCC2	10- 32	2.0
B FCC3	32- 63	2.0
B FCC4	63- 77	2.0
II A EGJ	77- 92	2.0
II B T	92-112	
II CB	112-	

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 60 SURVEYOR: DNS KELUWA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 10 30	LUVISOLIC HUMO-FERRIC PODZOL (1978)	*****
LONGITUDE (W): 122 44 37		% ASPECT (DEG): 8.0
PRECISION (SEC): 05		
ELEVATION (M): 40		STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 SURFACE EXPRES.: BLANKET  
 DESCRIPTOR: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: SOUTHWEST OF THE CLOVER VALLEY AND TOWLINE RD JUNCTION, SURREY.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
LH	3- 0	CLEAR		ORGANIC			
B FCC1	0- 20	CLEAR	5.0YR3.0/4.0 MATRIX MOIST	LOAM	WEAK MEDIUM GRANULAR	VERY FRIABLE	ABUNDANT
B FCC2	20- 35	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST	LOAM	VERY WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE	ABUNDANT
B M	35- 57	GRADUAL	2.5Y4.0/4.0 MATRIX MOIST	LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	FRIABLE	PLENTIFUL
A EGJ	57- 79		5.0Y5.0/2.0 MATRIX MOIST	LOAM	MODERATE MEDIUM ANGULAR BLOCKY	FIRM	FEW
BA	79-		5.0Y5.0/2.0 MATRIX MOIST	SILT LOAM	STRONG MEDIUM TO COARSE ANGULAR BLOCKY	FIRM	

HORIZON	THICKNESS DEPTH(CM)	MOTTLES 1	CONCRETION AND NODULE DESCRIP. 1	FIELD PH
LH	3- 0			MEDIUM ACID
B FCC1	0- 20		MANY FINE	MEDIUM ACID
B FCC2	20- 35		COMMON FINE	STRONGLY ACID
B M	35- 57			STRONGLY ACID
A EGJ	57- 79	MANY DISTINCT 7.5YR4.0/4.0		STRONGLY ACID
BA	79-	FAINT 2.5Y4.0/4.0		

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	3- 0										
B FCC1	0- 20	2	1	5.9	3.02	.16	3.53	.13	.19	.16	21.6
B FCC2	20- 35	2	1	5.7	1.90	.12	1.19	.22	.12	.13	18.0
B M	35- 57	2	1	5.3	1.07	.07	1.04	.11	.26	.23	14.7
A EGJ	57- 79	2	1	5.0		.01	3.03	1.24	.26	.25	11.7
BA	79-	2	1	5.3		.01	9.77	2.75	.34	.19	13.5

COARSE FRAGMENTS

HORIZON-DEPTH(CM.)	P1 PPM.	% VOL
LH	3- 0	
B FCC1	0- 20	37.0
B FCC2	20- 35	16.0
B M	35- 57	42.0
A EGJ	57- 79	34.0
BA	79-	38.0

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE (N):	49 00 10	LUVISOLIC HUMO-FERRIC PODZOL(1978)		% TYPE:	5.0
LONGITUDE (W):	122 33 18			CLASS:	COMPLEX
PRECISION (SEC):		STATUS:	MODAL SOIL		GENTLY UNDULATING
ELEVATION (M):	72				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC I: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC I: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR I: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR I	TEXTURE	STRUCTURE I	CONSISTENCE
LH	5- 0			ORGANIC		
A M	0- 3	ABRUPT	10.0YR3.0/3.0 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
B FCC1	3- 17	GRADUAL	7.5YR5.5/4.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
B FCC2	17- 35	GRADUAL	7.5YR5.0/4.0 MATRIX MOIST 7.5YR6.0/4.0 MATRIX DRY	SILT LOAM	WEAK MEDIUM SUBANGULAR BLOCKY	VERY FRIABLE
B M	35- 45	ABRUPT	7.5YR4.0/2.0 MATRIX MOIST 10.0YR5.0/3.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
II A EGJ	45- 70	GRADUAL	10.0YR5.0/3.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SANDY CLAY LOAM	MODERATE COARSE SUBANGULAR BLOCKY	FIRM
II B TGJ	70-		10.0YR5.0/2.0 MATRIX MOIST 10.0YR6.0/2.0 MATRIX DRY	SILTY CLAY LOAM	STRONG COARSE PRISMATIC	VERY FIRM

HORIZON	THICKNESS DEPTH(CM)	ROOTS I	MOTTLES I	CONCRETION AND NODULE DESCRIPTOR I
LH	5- 0			
A M	0- 3	ABUNDANT		
B FCC1	3- 17	ABUNDANT		COMMON FINE THROUGHOUT MATRIX SPHERICAL
B FCC2	17- 35	ABUNDANT		COMMON FINE THROUGHOUT MATRIX SPHERICAL
B M	35- 45	PLENTIFUL		NONE FINE THROUGHOUT MATRIX SPHERICAL
II A EGJ	45- 70	FEW	FE4 MEDIUM DISTINCT 10.0YR4.0/4.0	
II B TGJ	70-		COMMON MEDIUM DISTINCT 7.5YR5.0/5.0	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
						CA	MG	NA	K	
LH	5- 0	2	5.3	36.01	1.52					
A M	0- 3	1	5.7	3.42	.17	1.40	.50	.10	.20	25.5
B FCC1	3- 17	2	5.5	2.03	.11	.50	.30	.10	.10	20.1
B FCC2	17- 35	2	5.6	1.91	.11	.40	1.20	.20	.10	22.0
B M	35- 45	1	6.6	.17	.02	4.40	3.00	.30	.10	14.9
II A EGJ	45- 70	2	6.6	.17	.02	9.00	7.30	.30	.20	22.8
II B TGJ	70-									

HORIZON-DEPTH(CM.)	P1 PPM.	
LH	5- 0	27.0
A M	0- 3	5.0
B FCC1	3- 17	3.5
B FCC2	17- 35	5.0
B M	35- 45	3.0
II A EGJ	45- 70	2.0
II B TGJ	70-	



# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 63 SURVEYOR: GGR KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE (N): 49 07 09	LUVISOLIC HUMO-FERRIC PODZOL (1978)	% TYPE: 5.0
LONGITUDE (W): 122 26 48	STATUS: MODAL SOIL	COMPLEX
PRECISION (SEC): 05		GENTLY ROLLING
ELEVATION (M): 90		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR 1: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	TEXTURE	STRUCTURE 1	CONSISTENCE
LH	5- 0	ABRUPT		ORGANIC		
A H	0- 3	CLEAR	10.0YR3.0/3.0 MATRIX MOIST 10.0YR4.0/2.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
B F1	3- 10	GRADUAL	5.0YR3.0/4.0 MATRIX MOIST 5.0YR5.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
B F2	10- 33	DIFFUSE	7.5YR4.0/4.0 MATRIX MOIST 7.5YR5.0/4.0 MATRIX DRY	SILT LOAM	WEAK FINE SUBANGULAR BLOCKY	VERY FRIABLE
B H	33- 53	GRADUAL	10.0YR4.0/4.0 MATRIX MOIST 10.0YR5.0/3.5 MATRIX DRY	SILT LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FRIABLE
II A EGJ	53- 73	CLEAR	10.0YR4.0/4.0 MATRIX MOIST 10.0YR6.0/3.0 MATRIX DRY	SILTY CLAY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY	FIRM
II B TGY	73-		10.0YR5.0/3.5 MATRIX MOIST 10.0YR6.5/3.0 MATRIX DRY	SILTY CLAY LOAM	STRONG VERY COARSE PRISMATIC	VERY FIRM

HORIZON	THICKNESS DEPTH(CM)	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1	FIELD PH
LH	5- 0				EXTREMELY ACID
A H	0- 3	ABUNDANT			VERY STRONGLY ACID
B F1	3- 10	ABUNDANT		NONE FINE THROUGHOUT MATRIX SPHERICAL	STRONGLY ACID
B F2	10- 33	ABUNDANT		NONE FINE THROUGHOUT MATRIX SPHERICAL	STRONGLY ACID
B H	33- 53	PLENTIFUL		NONE FINE THROUGHOUT MATRIX SPHERICAL	MEDIUM ACID
II A EGJ	53- 73	FEW	FE+ MEDIUM FAINT 7.5YR5.0/6.0		MEDIUM ACID
II B TGY	73-		COMMON MEDIUM DISTINCT 7.5YR4.0/4.0		STRONGLY ACID

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH(CM.)	PH 1	SAMPLE STATE	METHOD	VALUE	ORGANIC CARBON %	NITROGEN %	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED
							CA	MG	NA	K	
LH	5- 0	2	2	4.0	42.98	2.53					
A H	0- 3	2	1	5.1	4.23	.27	1.60	1.90	.10	.30	30.9
B F1	3- 10	2	1	5.4	2.03	.15	.30	.30	.10	.30	19.6
B F2	10- 33	2	1	5.6	1.45	.12	.30	.40	.10	.20	14.3
B H	33- 53	2	1	5.7	1.10	.08	2.30	1.30	.10	.30	24.1
II A EGJ	53- 73	2	1	5.3	.23	.02	7.60	3.00	.20	.30	16.5

HORIZON=DEPTH(CM.)	P1 PPM.	
LH	5- 0	214.5
A H	0- 3	9.0
B F1	3- 10	6.5
B F2	10- 33	6.5
B H	33- 53	25.5
II A EGJ	53- 73	13.0
II B TGY	73-	

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 66 SURVEYOR: MAL KELOWNA: B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION		CLASSIFICATION		SLOPE	
LATITUDE(N):	49 11 02	LUVISOLIC HUMO-FERRIC PODZOL(1978)		%	5.0
LONGITUDE(W):	122 23 19			TYPE:	COMPLEX
PRECISION (SEC):	05	STATUS: MODAL SOIL		CLASS:	UNDULATING
ELEVATION (M):	65				

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MORAINAL  
 DESCRIPTOR: GLACIAL

DRAINAGE: MODERATELY WELL DRAINED  
 RUNOFF: MEDIUM

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LH	3= 0	ABRUPT			ORGANIC	
B F1	0= 17	DIFFUSE	7.5YR3.0/2.0 MATRIX MOIST		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F2	17= 42	DIFFUSE	7.5YR4.0/3.0 MATRIX MOIST		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
B F3	42= 70	CLEAR	5.0YR3.5/4.0 MATRIX MOIST		SILT LOAM	WEAK FINE TO MEDIUM SUBANGULAR BLOCKY
II AB	70= 97	GRADUAL	2.5Y4.0/4.0 MATRIX MOIST	10.0YR5.0/4.0 MATRIX MOIST	SILTY CLAY LOAM	STRONG MEDIUM ANGULAR BLOCKY
II B TGJ	97=		2.5Y5.0/2.0 MATRIX MOIST		SILTY CLAY LOAM	STRONG MEDIUM PRISMATIC

HORIZON	THICKNESS DEPTH(CM)	STRUCTURE 2	CONSISTENCE	ROOTS 1	MOTTLES 1	CONCRETION AND NODULE DESCIP. 1
LH	3= 0			ABUNDANT		
B F1	0= 17		FRIABLE	ABUNDANT		FEW FINE THROUGHOUT MATRIX SPHERICAL
B F2	17= 42		FRIABLE	ABUNDANT		FEW FINE THROUGHOUT MATRIX SPHERICAL
B F3	42= 70		FRIABLE	ABUNDANT		FEW FINE THROUGHOUT MATRIX SPHERICAL
II AB	70= 97		FIRM	FEW	FEW FINE FAINT	
II B TGJ	97=	STRONG COARSE ANGULAR BLOCKY	VERY FIRM		COMMON FINE FAINT	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
LH	3= 0	2	2	4.5	2	4	42.98	1.76
B F1	0= 17	2	1	4.7	2	4	4.52	.29
B F2	17= 42	2	1	5.2	2	4	4.8	.18
B F3	42= 70	2	1	5.3	2	4	3.13	.20
II AB	70= 97	2	1	5.9	2	4	4.4	.30
II B TGJ	97=	2	1	5.6	2	4	4.9	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(X)		EXTRACTABLE AL(X)		P1 PPM.
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT	
LH	3= 0	41.54	5.08	.12	1.24	101.9				45.1
B F1	0= 17	.79	.16	.04	.17	29.6	1	1.3	1	1.8
B F2	17= 42	.28	.05	.05	.14	22.6	1	1.4	1	1.9
B F3	42= 70	.19	.07	.04	.07	29.2	1	1.6	1	2.0
II AB	70= 97	3.22	1.90	.14	.11	21.5	1	0.4	1	0.5
II B TGJ	97=	12.06	5.92	.16	.24	26.0	1			17.2

HORIZON-DEPTH(CM.)	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
LH	3= 0	107.0	22.2	80.1
B F1	0= 17	36.0	39.4	41.1
B F2	17= 42	31.0	51.0	40.5
B F3	42= 70	20.0	42.2	21.8
II AB	70= 97	22.0	13.0	47.6
II B TGJ	97=	37.0	6.5	53.0

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: HAL URC

LOCATION: 49 06 22  
 LATITUDE (N): 122 30 56  
 LONGITUDE (W):  
 PRECISION (SEC): 05  
 ELEVATION (M): 95

CLASSIFICATION: LUVISOLIC HUMO-FERRIC PODZOL (1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: EOLIAN  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: CLAYEY  
 GENETIC MAT.: MARINE  
 DESCRIPTOR: GLACIAL

PHYSICAL & CHEMICAL DATA

HORIZON=DEPTH (CM.)	SAMPLE STATE	METHOD	VALUE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
A p 0-25	2	1	4.8	.80	44.5	14.8	24.7	46.2	54.4
B p 25-56	2	1	5.0	.80	37.4	14.1	28.7	31.2	39.4
I I B T 56-102	2	1	6.1	1.36	43.4	24.2	38.2	29.8	66.6
I I C 102-127	2	1	6.2	1.81	27.6	13.1	22.9	20.2	37.8

Horizon	Depth cm.	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %							
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm
Ap	0-25	2.43	2.60	80.0	52.7	55.4	30.0						90.0	90.0	18.0
Bf	25-56	2.55	2.71	95.0	37.0	39.3	24.5						88.0	83.0	18.0
I I B t	56-102	2.54	2.81	99.7	18.0	21.5	22.0						99.0	92.0	57.0
I I C	102-127	2.63	2.76	116.5	15.0	16.8	15.2						86.2	78.0	26.0

# WHATCOM

UNIT TYPE: SERIES

DATE OF SURVEY: 72 SURVEYOR: UBC

LOCATION  
 -----  
 LATITUDE(N):  
 LONGITUDE(W):

CLASSIFICATION  
 -----  
 LUVISOLIC HUMO-FERRIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC 1: SILTY  
 GENETIC MAT. 1: EOLIAN  
 SURFACE EXPRES. 1: VENER

MIDDLE STRATIGRAPHIC UNIT  
 -----

SPEC. CLASTIC 1: CLAYEY  
 GENETIC MAT. 1: MARINE  
 DESCRIPTOR 1: GLACIAL

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 PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALJE	BULK DENSITY	MOISTURE STATUS			ATTERBURG LIMITS	
					1/3 BAR.	15 BAR.	% FIELD MOISTURE	PLASTIC LIMIT	LIQUID LIMIT
LH 3- 0									
B F 0- 30	2	4	4.7	.89	28.4	11.7	22.8	31.4	33.3
B M 30- 61	2	4	4.9	1.15	31.3	11.0	13.8	28.0	31.8
II A E 61- 76	2	4	4.4	1.68	25.9	12.8	15.0	23.0	31.1
II B T 76-122	2	4	5.9	1.88	29.6	15.2	19.7	20.9	40.8
II BC 1 122-152	2	4	6.1	1.82	31.2	15.6	21.1	20.7	39.5
II C 2 152-183	2	4	6.2	1.83	32.2	16.1	22.8	21.7	41.3

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Horizon	Depth cm	Particle Density gm/cc			Shrinkage Limit %		Optimum Moisture %	Particle Size %									
		Air Dry	Oven Dry	Max. Dry	Air Dry	Oven Dry		>5.1 cm	<5.1 cm	<2.5 cm	<5 mm	<1 mm	<0.074 mm	<0.05 mm	<0.002 mm		
LH	3- 0																
Bf	0- 30	2.49	2.66		41.8	44.4						83.0	60.0	67.0		8.0	
Bm	30- 61	2.58	2.75		41.7	44.0						100.0	82.0	77.0		8.0	
IIAe	61- 76	2.64	2.77		25.1	26.9						100.0	77.0	70.0		19.0	
IIBt	76-122	2.62	2.78		20.2	22.4						100.0	90.0	86.0		34.0	
IIBC	122-152	2.64	2.80		19.0	21.1						100.0	91.0	81.0		26.0	
IIC	152-183	2.66	2.80		19.6	21.5						100.0	92.0	88.0		32.0	

# WHONNOCK

DATE OF SURVEY: 69 SURVEYOR: HAL KELOWNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: SEMI-DETAILED SURVEY

<u>LOCATION</u>	<u>CLASSIFICATION</u>	<u>SLOPE</u>
LATITUDE (N): 49 19 22	DURIC FERRO-HUMIC PODZOL (1978)	% 10.0
LONGITUDE (W): 122 43 57		TYPE: SIMPLE
PRECISION (SEC): 05		CLASS: STRONGLY SLOPING
ELEVATION (M): 675		STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: IMPERFECTLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: SLOW

ADDITIONAL NOTES

SITE LOCATION ON RD TO BURKE MTN., COQUITLAM,  
 42CM TO 80CM IS A SEEPAGE ZONE  
 THE M1 IS HUMIC, MATTED, MYCELIAL.  
 THE M2 IS AMORPHOUS.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOUR 1	COLOUR 2	TEXTURE	STRUCTURE 1
LF	35- 32	ABRUPT			ORGANIC	
M 1	32- 22	CLEAR	2.5YR2.0/2.0 MATRIX MOIST		ORGANIC	
M 2	22- 0	ABRUPT	5.0YR2.0/1.0 MATRIX MOIST		ORGANIC	
A HE	0- 10	ABRUPT	5.0YR5.0/2.0 MATRIX MOIST	5.0YR2.0/1.0 MATRIX MOIST	SANDY LOAM	WEAK MEDIUM SUBANGULAR BLOCKY
B HF1	10- 22	CLEAR	5.0YR3.0/2.0 MATRIX MOIST	5.0YR3.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B HF2	22- 42	DIFFUSE	5.0YR3.0/3.0 MATRIX MOIST	5.0YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B HFGJ	42- 62	DIFFUSE	5.0YR3.0/3.0 MATRIX MOIST	7.5YR4.0/4.0 MATRIX MOIST	SANDY LOAM	WEAK TO MODERATE MEDIUM SUBANGULAR BLOCKY
B FGJ	62- 80	ABRUPT	10.0YR4.0/3.0 MATRIX MOIST	5.0YR3.0/2.5 MATRIX MOIST	SANDY LOAM	MODERATE MEDIUM SUBANGULAR BLOCKY
B CGJ1	80-100	DIFFUSE	5.0Y5.0/2.5 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
B CGJ2	100-137	GRADUAL	5.0Y5.5/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE
BC	137-+		5.0Y5.5/2.0 MATRIX MOIST		SANDY LOAM GRAVELLY	MASSIVE

HORIZON	THICKNESS DEPTH(CM)	CONSISTENCE	ROOTS 1	MOTTLES 1	CEMENTATION AGENT/DESCRIP.
LF	35- 32		PLENTIFUL		
M 1	32- 22	FRIABLE	ABUNDANT		
M 2	22- 0	FRIABLE	ABUNDANT		
A HE	0- 10	FRIABLE	ABUNDANT		
B HF1	10- 22	FRIABLE	ABUNDANT		
B HF2	22- 42	FRIABLE	PLENTIFUL		
B HFGJ	42- 62	FRIABLE	PLENTIFUL		
B FGJ	62- 80	FIRM	PLENTIFUL		
B CGJ1	80-100	VERY FIRM		COMMON COARSE PROMINENT 7.5YR4.0/4.0	INDURATED CONTINUOUS
B CGJ2	100-137	VERY FIRM		COMMON COARSE PROMINENT 10.0YR5.0/8.0	INDURATED CONTINUOUS
BC	137-+	VERY FIRM		FEW FINE FAINT 10.0YR5.0/8.0	STRONGLY CEMENTED CONTINUOUS

PHYSICAL & CHEMICAL DATA

		PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
HORIZON-DEPTH(CM.)	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE			
LF	35= 32	2	4.1	2	4	3.6	49.88	1.29	
H 1	32= 22	2	3.3	2	4	2.9	58.00	2.15	
H 2	22= 0	2	3.8	2	4	3.2	58.00	1.87	
A HE	0= 10	1	4.4	2	4	3.7	10.50	.34	
B HF1	10= 22	1	4.8	2	4	4.0	13.80	.42	
B HF2	22= 42	1	5.0	2	4	4.1	7.48	.23	
B HFGJ	42= 62	1	4.9	2	4	4.2	5.57	.18	
B FGJ	62= 80	1	5.0	2	4	4.3	3.60	.11	
B CGJ1	80=100	1	5.5	2	4	4.8			
B CGJ2	100=137	1	5.6	2	4	5.3			
BC	137=+	2	5.7						

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
LF	35= 32	10.85	4.00	.21	1.67	88.0			
H 1	32= 22	11.42	4.43	.35	.87	158.8			
H 2	22= 0	4.70	1.48	.15	.32	135.3			
A HE	0= 10	.52	.05	.05	.03	37.5	1	0.8	
B HF1	10= 22	.47	.10	.07	.05	61.9			0.9
B HF2	22= 42	.24	.05	.04	.03	45.9			0.6
B HFGJ	42= 62	1.94	.04	.03	.02	35.1	1	1.2	0.6
B FGJ	62= 80	.20	.04	.04	.02	25.4	1	0.7	0.3
B CGJ1	80=100						1	0.2	0.0
B CGJ2	100=137						1	0.2	0.0
BC	137=+						1	0.2	0.0

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				D1 PPM.	D2 PPM.	S PPM.	CU PPM.	ZN PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT						
LF	35= 32				14.3	17.0	92.0	14.7	56.9	
H 1	32= 22				15.0	15.9	14.0	14.9	47.8	
H 2	22= 0				14.0	17.4	26.0	10.0	17.0	
A HE	0= 10	1	0.8		1.3	2.4	5.3	13.9	8.9	57.0
B HF1	10= 22			3	1.7	5.6	17.0	21.2	17.6	53.6
B HF2	22= 42	1	3.9	3	0.9	8.2	20.8	16.7	20.0	
B HFGJ	42= 62	1	3.8	3	3.8	9.7	19.8	17.7	21.5	
B FGJ	62= 80	1	3.1	3	1.7		6.0	6.0	22.3	42.5
B CGJ1	80=100	1	.8	3	.5		20.2	27.3	26.5	61.6
B CGJ2	100=137	1	.9	3	.2		23.0	26.5		
BC	137=+	1	0.8	3	0.2		26.8	30.8		

# WHONNOCK

SAMPLING PURPOSE: SEMI-DETAILED SURVEY

LOCATION  
 -----  
 LATITUDE (N11)  
 LONGITUDE (W1):

CLASSIFICATION  
 -----  
 DURIC FERRO-HUMIC PODZOL(1978)  
 STATUS: MODAL SOIL

PARENT MATERIAL & LANDFORM  
 -----

UPPER STRATIGRAPHIC UNIT  
 -----

GENETIC MAT.: MORAINAL  
 SURFACE EXPRES.: BLANKET

DRAINAGE: IMPERFECTLY DRAINED

ADDITIONAL NOTES  
 -----

LOCATED NORTHWEST OF GIBSONS.  
 .....

PHYSICAL & CHEMICAL DATA  
 -----

HORIZON-DEPTH(CM.)	DH 1			DH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
HF 24= 4	2	2	5.8	2	4	3.0	65.37	1.09
H 4= 0	2	2	3.8	2	4	3.1	65.19	1.23
A ME 0= 6	2	1	3.8	2	4	3.3	5.64	.14
B HF 6= 20	2	1	4.5	2	4	4.0	6.88	.26
B HFGJ1 20= 35	2	1	4.6	2	4	4.2	5.74	.19
B HFGJ2 35= 50	2	1	4.7	2	4	4.3	5.51	.19
B CGJ 50= 75	2	1	5.3	2	4	4.9	.99	.02
BC 75=125	2	1	5.2	2	4	4.8	.72	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	EXTRACTABLE FE(%)			
	CA	MG	NA	K		METHOD	RESULT	METHOD	RESULT
HF 24= 4									
H 4= 0									
A ME 0= 6					14.8	1	.6	3	.4
B HF 6= 20	.62	.21	.05	.09	25.4	1	.7	3	1.2
B HFGJ1 20= 35	.26	.10	.04	.10	31.1	1	.9	3	1.5
B HFGJ2 35= 50	.10	.05	.04	.09	31.6	1	.9	3	1.9
B CGJ 50= 75	.11	.05	.05	.08	9.1	1	.8	3	1.2
BC 75=125	.10	.05	.05	.12	8.5	1	.3	3	1.1

HORIZON-DEPTH(CM.)	EXTRACTABLE AL(%)				P1 PPM.	P2 PPM.	S PPM.	MN PPM.
	METHOD	RESULT	METHOD	RESULT				
HF 24= 4					16.1	21.6	18.5	3.4
H 4= 0					4.8	6.7	25.1	6.2
A ME 0= 6	1	.3	3	.2	4.1	6.2	3.9	1.5
B HF 6= 20	1	.5	3	1.1	5.2	8.5	8.6	.5
B HFGJ1 20= 35	1	.7	3	1.4	5.3	8.2	8.1	.5
B HFGJ2 35= 50	1	.7	3	1.6	2.7	10.8	13.0	.0
B CGJ 50= 75	1	.1	3	.3	19.7	45.3	6.2	.0
BC 75=125	1	.0	3	.3	30.9	61.8	5.0	.5

# WIDGEON

UNIT TYPE: SERIES

DATE OF SURVEY: 68 SURVEYOR: HAL KELONNA, B.C.M.A. & R.A.B.  
 SAMPLING PURPOSE: DETAILED SURVEY

LOCATION	CLASSIFICATION	SLOPE
LATITUDE(N): 49 18 59	TERRIC MUMISUL(1978)	TYPE: SIMPLE
LONGITUDE(W): 122 40 02	STATUS: MODAL SOIL	CLASS: DEPRESSIONAL TO LEVEL
PRECISION (SEC): 05		
ELEVATION (M): 1		

PARENT MATERIAL & LANDFORM

UPPER STRATIGRAPHIC UNIT

GENETIC MAT.: ORGANIC  
 SURFACE EXPRES.: VENEER

MIDDLE STRATIGRAPHIC UNIT

SPEC. CLASTIC: SILTY  
 GENETIC MAT.: FLUVIAL  
 SURFACE EXPRES.: LEVEL

DRAINAGE: VERY POORLY DRAINED  
 RUNOFF: SLOW  
 PERVIOUSNESS: MODERATE

ADDITIONAL NOTES

SITE LOCATION: WESTERN SIDE OF PITT POLDER NEAR DYKE.  
 MANY DEAD VERTICAL ROOT REMAINS FROM 0-35CM.

PROFILE DESCRIPTION

HORIZON	THICKNESS DEPTH(CM)	HORIZON BOUNDARY	COLOR 1	TEXTURE	STRUCTURE 1	CONSISTENCE	ROOTS 1
O F	75- 65	ABRUPT	5.0YR3.0/3.0 MATRIX MOIST	ORGANIC			FEW
O M1	65- 50	GRADUAL	5.0YR3.0/3.0 MATRIX MOIST	ORGANIC	WEAK STRATIFIED	NON STICKY	ABUNDANT
O M2	50- 27	DIFFUSE	10.0YR3.0/4.0 MATRIX MOIST	ORGANIC	MASSIVE	NON STICKY	PLENTIFUL
O M3	27- 0	CLEAR	10.0YR3.0/2.0 MATRIX MOIST	ORGANIC	MASSIVE	SLIGHTLY STICKY	FEW
C G1	0- 15	GRADUAL	2.5Y4.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	SLIGHTLY STICKY	
C G2	15- 35	CLEAR	2.5Y3.0/2.0 MATRIX MOIST	SILT LOAM	MASSIVE	SLIGHTLY STICKY	
C G3	35-		5.0Y4.0/1.0 MATRIX MOIST	SILT LOAM	MASSIVE	SLIGHTLY STICKY	

PHYSICAL & CHEMICAL DATA

HORIZON-DEPTH(CM.)	PH 1			PH 2			ORGANIC CARBON %	NITROGEN %
	SAMPLE STATE	METHOD	VALUE	SAMPLE STATE	METHOD	VALUE		
O F	75- 65	2	N	3.6	2	4	3.4	58.00
O M1	65- 50	2	N	3.9	4	4	3.5	20.84
O M2	50- 27	2	N	4.5	4	4	3.9	41.93
O M3	27- 0	2	N	4.7	4	4	4.3	35.73
C G1	0- 15	1	N	4.9	4	4	4.5	3.45
C G2	15- 35	1	N	4.6	4	4	4.3	
C G3	35-	1	N	4.7	4	4	4.6	

HORIZON-DEPTH(CM.)	EXCHANGEABLE CATIONS BUFF.(ME/100G)				C. E. C. DETERMINED	P1 PPM.	P2 PPM.	S PPM.	CU PPM.	ZN PPM.
	CA	MG	NA	K						
O F	75- 65	14.60	5.72	.11	1.58	29.9	39.5	45.6	21.2	81.6
O M1	65- 50	11.18	1.45	.12	.64	137.0	56.5	68.2	74.1	19.4
O M2	50- 27	4.65	.59	.06	.10	97.2	10.7	15.4	83.3	25.3
O M3	27- 0	6.06	.69	.04	.03	80.6	3.6	11.0	67.3	26.2
C G1	0- 15						0.4	17.1	20.8	16.9
C G2	15- 35						1.5	30.0	48.9	20.9
C G3	35-						1.2	9.3	32.3	44.5



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