

### Map 4: Okanagan Basin Soils - Benchlands and Highlands

Notes: This map was prepared as part of the report entitled "Groundwater and Hydrogeological Conditions in the Okanagan Basin, British Columbia - A State-Of-The-Basin Report", prepared by L.A. Neilson-Welch and D.M. Allen, December 2007

This map has been prepared to present an example of the type of soil information available for the Okanagan Basin. This map should be used in conjunction with complete soil mapping data from BC MCE, BC Ministry of Agriculture, or other sources

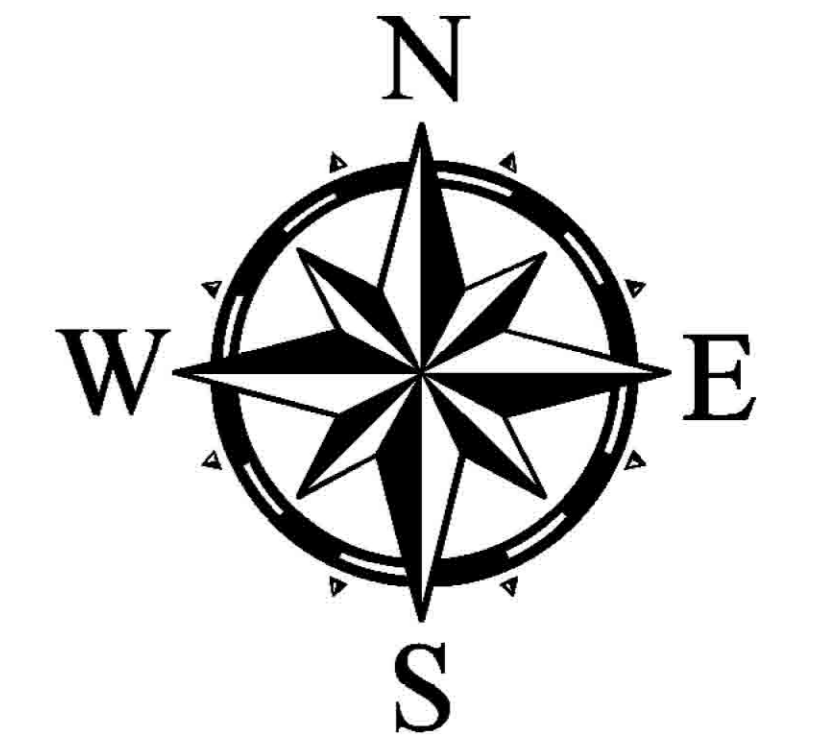
Selected soil characteristics for coarse texture, drainage, and perviousness have been presented on this map. Additional soil attributes, as well as soil names for abbreviations (e.g. AL), can be obtained from the Okanagan benchlands and highlands through the Ministry of Energy, Mines, and Petroleum Resources (<http://www.em.gov.bc.ca/mining/geosurv/terrain&soils/frbcguid.htm>) for both the north and south Okanagan.

Details of the valley bottom soils characteristics can be obtained from the Ministry of Environment FTP site ([ftp://fishp.env.gov.bc.ca/pub/outgoing/Soil\\_Data/CAPAMP/](ftp://fishp.env.gov.bc.ca/pub/outgoing/Soil_Data/CAPAMP/)) for both the north and south Okanagan.

Map compiled by DA of Summit Environmental Consultants Ltd., Vernon, BC.

References: BC watershed boundaries, lakes, and rivers - TRIM, 1:20,000;  
Soil Data - Ministry of Environment, 1:20,000  
([ftp://fishp.env.gov.bc.ca/pub/outgoing/Soil\\_Data/CAPAMP/](ftp://fishp.env.gov.bc.ca/pub/outgoing/Soil_Data/CAPAMP/));  
Washington Data - Washington Department of Natural Resources, 2007, 1:24,000

Date: December 2007 File: OBWB Soil.mxd



**Legend**  
(This map identifies selected soil types and attributes as defined below; refer to qualifying notes in the map title block.)

Soil Unit, Coarse Texture, Drainage/Perviousness	Soil Unit, Coarse Texture, Drainage/Perviousness
n/a	KE, moderate, good, moderate
A, moderate, good, moderate	KF, moderate, medium, slow
A, moderate, good, slow	KG, mod.-high, good, moderate
AA, moderate, medium, slow	KL, low, medium, slow
AG, moderate, good, moderate	KN, high, good, moderate
AH, mod-high, good, moderate	KO, high, good, rapid
AL, moderate, medium, slow	KR, high, good, rapid
AN, moderate, medium, slow	KU, mod.-high to med., good, moderate
AS, variable, good, rapid	KX, high, good, rapid
AT, moderate, good, moderate	LC, mod.-high, good, moderate
AY, mod.-high, good, moderate	LH, high, good, rapid
BA, mod.-high, good, moderate	LW, mod.-high, medium, moderate
BAA, mod.-high, good, moderate	LY, variable, good, moderate
BC, high, good, moderate	LZA, low, medium, slow
BD, variable, good, moderate	MG, low, good, slow
BE, n/a, slow, moderate	ML, low/mod., medium, slow
BG, high/mod, good, moderate	MN, high, good, rapid
BH, high/mod, good, moderate	MN, high, medium, slow
BL, variable, good, rapid	MO, variable, good, rapid
BT, high, good, moderate	MS, low, good, slow
BV, high, good, moderate	MT, moderate, medium, slow
BW, high, good, moderate	MZ, moderate, medium, moderate
CF, high, good, moderate	N, low/mod, medium, slow
CG, moderate, good, moderate	NP, mod.-high, good, moderate
CM, moderate, good, moderate	P, low, medium, slow
CN, moderate, medium, moderate	PH, variable, good, rapid
CNA, moderate, good, moderate	PT, mod.-high, medium, moderate
CO, low, medium, slow	PY, variable, good, rapid
CP, high/mod, good, moderate	R, variable, good, rapid
CPA, high, good, moderate	RF, moderate, good, moderate
CR, mod.-high, good, moderate	RL, high, good, moderate
CS, moderate, good, moderate	RL, n/a, slow, moderate
CX, high/mod, good, moderate	RO, n/a, n/a, n/a
CY, moderate, medium, slow	SA, variable, good, rapid
D, variable, good, moderate	SAA, moderate, medium, moderate
ET, n/a, slow, moderate	SF, variable, good, rapid
FA, low, medium, moderate	SH, variable, good, rapid
FB, moderate, good, moderate	SHA, moderate, medium, moderate
FH, moderate, medium, moderate	SK, high, good, rapid
FR, high, good, rapid	SN, moderate, medium, moderate
FS, low, medium, moderate	SO, moderate, good, moderate
FT, high, good, rapid	SR, high, medium, moderate
FX, variable, good, rapid	SS, mod.-high, good, moderate
G, variable, good, rapid	ST, moderate, medium, moderate
GH, moderate, medium, moderate	STA, moderate, medium, slow
GL, variable, good, moderate	SW, high/mod, good, moderate
GN, variable, good, rapid	T, low, medium, slow
GO, moderate, medium, moderate	TB, variable, good, rapid
GR, moderate, medium, moderate	TE, low, good, slow
GS, variable, good, rapid	TH, mod.-high, good, moderate
GW, variable, good, rapid	TL, high, good, moderate
GY, variable, good, rapid	TLA, high, good, rapid
H, variable, good, rapid	TM, moderate, medium, slow
HA, moderate, medium, moderate	TR, variable, good, rapid
HE, variable, good, rapid	TU, moderate, medium, slow
HL, mod.-high, good, moderate	TW, moderate, medium, slow
HN, moderate, medium, slow	VN, moderate, good, moderate
HO, moderate, good, moderate	WG, n/a, slow, moderate
HR, moderate, good, moderate	WH, mod.-high, good, rapid
HS, mod.-high, good, moderate	WI, mod.-high, medium, moderate
HU, variable, good, rapid	WY, n/a, slow, moderate
IL, variable, good, rapid	YR, high, good, rapid
K, variable, medium, moderate	YW, moderate, medium, moderate
	ZA, mod.-high, good, moderate
	South Okanagan Valley Bottom Soils
	North Okanagan Valley Bottom Soils

**Coarse Texture\***  
COARSE FRAGMENT CONTENT (> 2 mm)

Class	Description
high	> 50% of soil volume
moderate	20 to 50% of soil volume
low	> 20% of soil volume

**Drainage\***

Terminology	Description
good	soil holds little moisture after rain; no excess moisture for most of the year; consists of rapidly and well drained classes
medium	excess moisture for short but significant periods of the year; consists of moderately well and imperfectly drained classes
slow	excess moisture throughout the year; free water remains at or near the soil surface most of the year; consists of poorly and very poorly drained classes

**Perviousness\***

Terminology	Description
rapid	the capacity to transmit water vertically is so great that the soil will remain wet for no more than a few hours after thorough wetting
moderate	the capacity to transmit water vertically is great enough that the soil will remain saturated for no more than a few days after thorough saturation
slow	the potential to transmit water vertically is so slow that the horizon or the soil will remain saturated for periods of a week or more after thorough wetting

\*From Soils of the north and south Okanagan.  
North Okanagan area covers map sheets:  
S21003, S21004, S21013, S21014, S21023, S21024, S21025, S21034, S21035, S21044, S21045, S21054, S21055, S21054.  
South Okanagan area covers map sheets:  
S24002, S24003, S24011, S24012, S24013, S24021, S24022, S24023, S24031, S24032, S24033, S24042, S24043, S24052, S24053, S24062, S24063, S24072, S24073, S24082, S24083, S24084, S24092, S24094

**Legend**

- Okanagan Basin
- Watershed Boundaries
- Major Streams
- Lakes
- Canada / US border

Scale: 1:150,000

