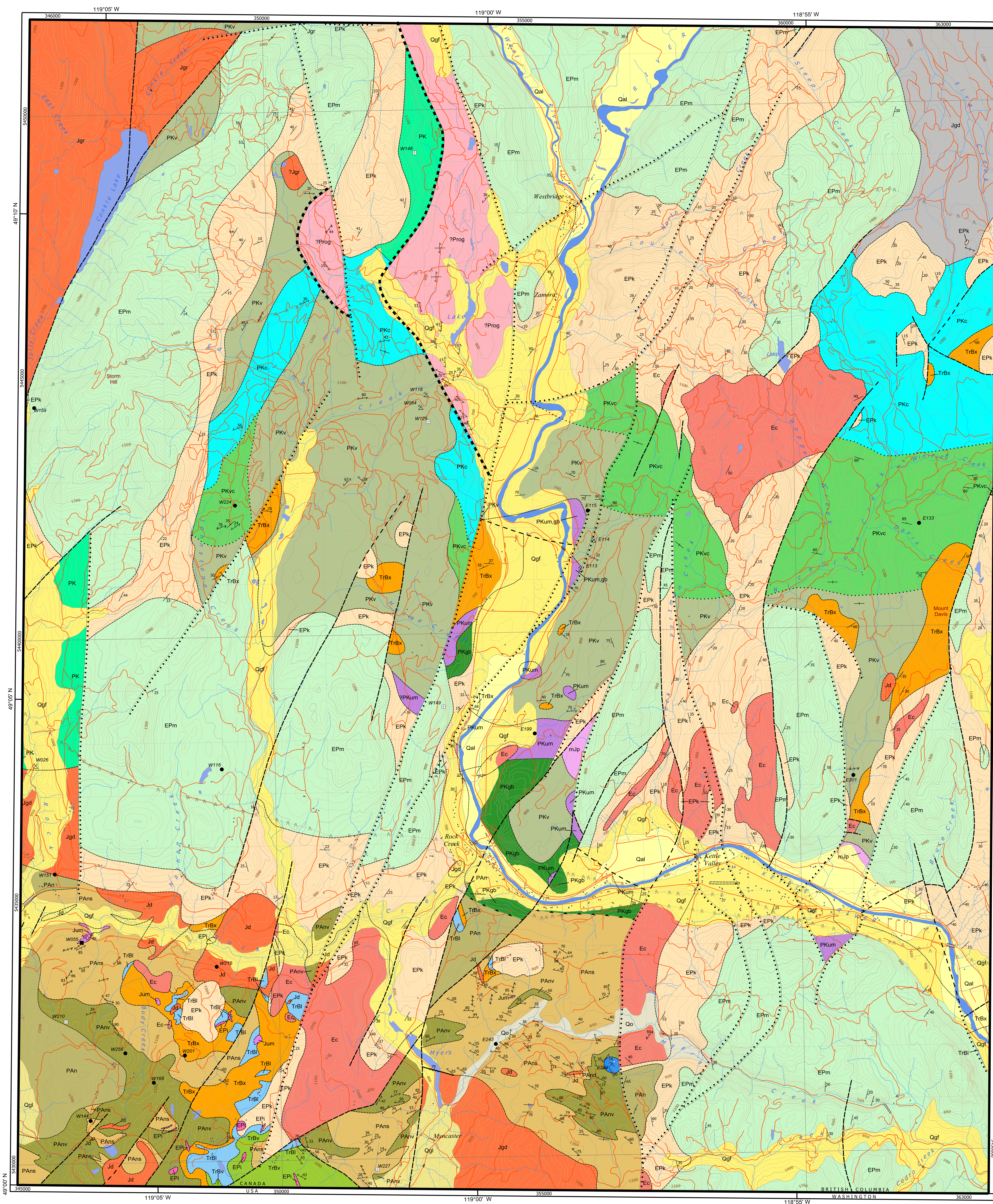




OPEN FILE 2007-7
**GEOLOGY AND MINERAL DEPOSITS
OF THE ROCK CREEK AREA,
BRITISH COLUMBIA**

NTS 82E/2W; 82E/3E

Mapping and compilation by N.W.D. Massey
Field assistance provided by Ashley Dittmer (2005) and Erig Westberg (2006)

Scale 1:25 000



LEGEND

INTRUSIVE ROCKS

Eocene

EPi Minor intrusions, equivalent to Mazon Fm volcanics; diorite, syenite, pyroxene-feldspar porphyry, hornblende-feldspar porphyry

Ec Cornwell intrusions: syenite, quartz monzonite; minor pulsillite, granite, diorite

Jurassic

mJp Quartz-feldspar porphyry, quartz porphyry

J Nelson intrusions: diorite, gabbro, quartz diorite; gnd granodiorite, quartz diorite, or granite, granodiorite

Jum Pyroxenite, hornblende-pyroxenite, peridotite, serpentinite

AGE UNKNOWN

?Progr Orthogneiss: grey biotite-feldspar-quartz diorite to granodiorite gneiss, pink to grey, coarse-grained feldspar augen gneiss, unfoliated leucogranite (may be correlative with the Grand Forks Gneiss Complex or the Vancouver Gneiss)

VOLCANIC AND SEDIMENTARY ROCKS

QUATERNARY

Qal Fluvial and alluvial deposits

Qgf Glacio-fluvial deposits

Qgl Glacio-lacustrine deposits

Qo Organic deposits

Eocene

EPm Pentiction Group

EPi Maroon Formation: andesite, trachyandesite, pyroxene-feldspar porphyry, sodic trachyte, minor phonolite and rhyolite porphyry; lava, minor intrusions, tuffs and volcanic sandstone

EPk Kettle River Formation: white felspathic and tuffic sandstone and siltstone, arkose and arkosic conglomerate, polymictic boulder to pebble conglomerate including gneiss, chert, greenstone, schist and limestone clasts

TRIASSIC

TrBv Massive to fragmental greenstone; pyroxene-phyric to aphanitic

TrBl Massive to poorly bedded, white to grey sparry limestone, limestone breccia, marls, calc-silicate skarn

TrBx Polymictic pebble to cobble conglomerate, gneiss and siltstone; clasts of argillite to subrounded chert, limestone, greenstone ("Sharpstone Conglomerate")

LATE DEVONIAN TO EARLY PERMIAN

PK Undivided

PKc Chert, metachert, monolithic chert breccia, grey argillite, minor greenstone and limestone

PKvc Interbedded chert, metachert and massive greenstone in equal proportions

PKv Greenstone, aphanitic, minor feldspar and pyroxene phenocrysts; massive, pillow lava, breccia; minor limestone, metachert and argillite

PKgb Greenwood Gabbro (formerly known as the "Old Diorite"); varioluted gabbro, coarse to fine-grained, laced with felspathic, vesicles, gabbroic pegmatite, plagiogranite, diabase dikes and xenoliths

PKum Serpentine, talc, minor pyroxenite, may include some gabbro (unlg)

PALEOZOIC (EXACT AGE UNDETERMINED)

PA Anarchist Schist

PAu Undivided

PAms Predominantly metasediments: quartzite (metachert), argillaceous quartzite, quartz-chert schist, chert-schist schist, quartz-biotite schist, siliceous, meta-argillite, minor greenstone, barite

PAmv Predominantly metavolcanics: aphanitic, massive to schistose greenstone, breccia, green chlorite schist, minor quartzite and schistose metasediments

PAwd "Mighty White dolomite": fine to medium, equigranular white dolomite; minor dark grey-green chlorite dikes and chlorite-epidote skarn. Relationship to rest of Anarchist Schist is enigmatic

SYMBOLS

Geological contact (approximate, assumed, transitional)

Fault (defined, approximate, assumed)

Normal fault (defined, approximate, assumed)

Thrust fault (assumed)

Extension fault (approximate)

Bedding (inclined, vertical)

Schistosity (horizontal, inclined, vertical)

Secondary schistosity and cleavage (inclined, vertical)

Lineation (plunge indicated)

Axis of minor folds (plunge indicated)

Brittle shear zone

MINFILE locations (Producer, past producer, developed prospect, prospect, showing) - see Table 1

Contour (100m interval, 20m interval)

Roads

Rivers

Lakes

Bridge, Tunnel

Airfield

Building

Powerline

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Table 1: Mineral Occurrences

Map ID	MINFILE number	Property Name	Status	Commodities	Deposit type	Latitude 'N	Longitude 'W	UTM zone	Easting	Northing
W026	082ESW026	ROCK CREEK PLACER, JOLLY CREEK PLACER	Past Producer	Au, Pt	C01	49 071945	119 116360	11	364330	5437611
W055	082ESW055	OLD NICK, OLD NICK GROUP, OLD NICK 1-4, NICKEL, UR CLAIM GROUP, MISSION 1, MICHEL, RIDGE	Developed Prospect	Ni, Co, Cu, Au, Mo, Cr	M02, M03	49 041668	119 103860	11	346249	5434220
W064	082ESW064	CROWN POINT (L 2448), CROWN POINT GROUP, CROWN POINT FR. (L 2448), TRIANGLE FR. (L 1448), SUNNYSIDE (L 1448), NO. 2 (L 2448), NO. 3 (L 2447), ALDER GROVE (L 1534), SOPHIE SHERRON, ZAMORA, MAYBE, LEONA GROUP, ENO (L 2852), DOWNEY	Past Producer	Ag, Pb, Zn, Au	I05, J01	49 134187	119 016870	11	352987	5444329
W116	082ESW116	ROCK CREEK ASBESTOS	Showing	asbestos	M08	49 071967	119 087780	11	348978	5437482
W118	082ESW118	MAYBE, CROWN POINT GROUP, CROWN POINT FRACTION (L 2448), ZAMORA, LEONA GROUP	Past Producer	Au, Ag, Pb, Zn, Cu	I01, I05	49 136361	119 015270	11	353005	5444573
W129	082ESW129	LEONA, LEONA GROUP, DAVID 1.3, BEV 1.4, NORM 1.8, CROWN POINT GROUP, CROWN POINT FRACTION (L 2448), ZAMORA, ENO (L 2852)	Prospect	Au, Ag, Pb, Zn, Cu	I01, I05	49 131864	119 014720	11	353031	5444047
W144	082ESW144	EK, BRIDESVILLE, KUHN, AU 4, FUNT, US 1	Showing	silica	R07	49 011112	119 101110	11	346358	5430818
W149	082ESW149	JO DANDY (L 2126), OLD KENTUCKY (L 2121), BMA FR. (L 2122), RILEY (L 2123), TOLAS FR. (L 2124), L. 2125, DAVE (L 2462), LONG SHOT (L 2461), ROCK 1.3, ANITA, ROCK CREEK, D.W.S. D.V.S. GROUP, HULME CREEK GROUP, SAMMY GROUP, TOBRICH, CR 1.6, BELCHROME 1-8, YELLOW OCHER, RED OCHER, GREEN OCHER, M.S.	Prospect	Cr, Ni	M03	49 092776	119 010000	11	353232	5438604
W151	082ESW151	GOLDEN GATE, KET 8, KET 10 GROUP, KET 8-10, ROCK CREEK (L 2627), YREN (L 2528)	Showing	Zn, Pb, Cu, Ag, Au	I01, I05	49 055333	119 111110	11	345758	5435931
W159	082ESW159	JOLLY CREEK CHROME	Showing	Cr	M03	49 130306	119 117780	11	346519	5444437
W168	082ESW168	DAN, DANA GROUP, DAN 1-6, ROCK GROUP, ROCK 1-11, ROCK 13-13	Showing	Ni, Cr	M02, M03	49 071776	119 084720	11	347577	5431526
W201	082ESW201	KET 27, ANNA 2, KET 5 GROUP, KET 4.5, KET 25-27, CJ 1-11	Showing	Au, Cu, Pb	I01	49 022489	119 078670	11	348180	5432035
W210	082ESW210	KET 28, RM GROUP, RM 1-13, RM 15, MIDWAY, ROCK CREEK	Prospect	Au	I01	49 020657	119 107770	11	345923	5432715
W212	082ESW212	SYACKAN, KET 5 GROUP, KET 4.5, KET 25-27, CJ 1-11, ROCK CREEK	Showing	Cu, Pb	K01, K02	49 037777	119 068610	11	348816	5433717
W224	082ESW224	JOLLY, JOLLY 2-4	Showing	Au, Ag, Pb, Zn	I05, I01	49 116943	119 065000	11	349319	5442509
W227	082ESW227	INTERNATIONAL (L 1877S), Z CAR (L 1878S), CASSEL GROUP, CASSEL	Prospect	Au, Ag, Pb	I05	49 030334	119 026120	11	351819	5428604
W236	082ESW236	ROCK	Showing	barite	E17	49 022778	119 082220	11	347044	5432097
W064	082ESW064	CROWN POINT (L 2448), CROWN POINT GROUP, CROWN POINT FR. (L 2448), TRIANGLE FR. (L 1448), SUNNYSIDE (L 1448), NO. 2 (L 2448), NO. 3 (L 2447), ALDER GROVE (L 1534), SOPHIE SHERRON, ZAMORA, MAYBE, LEONA GROUP, ENO (L 2852), DOWNEY	Past Producer	Ag, Pb, Zn, Au	I05, J01	49 134187	119 016867	11	352987	5444329
E113	082ESE113	IMPERIAL EMLINE (L 10815), BADGER STEEVES GROUP, EMMAINE	Past Producer	Ag, Pb, Zn, Au, Cu	I05	49 106667	119 074444	11	356897	5441191
E114	082ESE114	RIVERSIDE (L 10311), M-415, H. R. (L 1033), RIVERSIDE NO. 2 FR. (L 2606 S)	Past Producer	Ag, Au, Pb, Zn, Cu	I05	49 111667	119 071111	11	356155	5441740
E115	082ESE115	COMMONWEALTH (L 1029), BIG EDDY (L 1030)	Showing	Ag, Pb, Zn	I05	49 116667	119 072778	11	356547	5442298
E123	082ESE123	HOP, LEE BAR	Showing	Cu, Ni	L03	49 110000	119 066111	11	352366	5441953
E189	082ESE189	REF FIP	Showing	Cu, Ni	I03	49 078333	119 066111	11	354963	5430594
E200	082ESE200	ROCK CREEK-ROCK CREEK, DOLOMITE COLO MIGHTY WHITE DOLOMITE COLOWHITE	Producer	dolomite	R10	49 020278	119 088944	11	358195	5431574
E201	082ESE201	BUBBAR, RUBBAR	Showing	Cu, Ni	I03	49 071967	119 082778	11	361029	5437188
E243	082ESE243	MYERS, ROCK CREEK-ROCK CREEK	Showing	Au, Cu	L03	49 028000	119 086558	11	354117	5432153

Key to deposit type codes:
C01 Surface placers
J01 Submarine-hosted barite
K01 Submarine-hosted barite
L01 Submarine-hosted barite
M02 Polymetallic veins: Ag-Pb-Zn-Cu
M03 Polymetallic veins: Ag-Pb-Zn

R01 Cu skarn
R02 Pb-Zn skarn
R03 Ag-Pb-Zn skarn
R04 Polymetallic veins: Ag-Pb-Zn-Cu
R05 Polymetallic veins: Ag-Pb-Zn

M02 Polymetallic veins: Ag-Pb-Zn-Cu
M03 Polymetallic veins: Ag-Pb-Zn-Cu
M04 Polymetallic veins: Ag-Pb-Zn-Cu
M05 Polymetallic veins: Ag-Pb-Zn-Cu
M06 Polymetallic veins: Ag-Pb-Zn-Cu
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