

DDH CHP 263:

The rocks display a somewhat intermediate character between the high Fe-Cr-Cu-Zn types of the mafic Crimson Creek wackes, and the low in all elements types of the siliceous Munro Creek Shales. Fe ranges mostly from 4.0 to 8.0% Fe. Mn is mostly above 1,000 ppm Mn. Zn is erratic from 60 to 800 ppm Zn but is mostly in the 100-200 ppm range. Cu is mostly less than 80 ppm Cu but ranges to a peak of 450 ppm Cu. Cr similarly is mostly less than 80 ppm but reaches a peak of 205 ppm Cr. There is a weak Cu:Cr:Zn correlation with sections such as 112m to 135m containing slightly elevated Cu, Cr and Zn values. Sb, As and W show good correlation but all are very low throughout, showing weak rises only near the fault zone at about 40m depth. Au and Bi show excellent correlation being below detection limit in every sample.

The zone from 153.3m to 187.0m lies outside the above general comments. This zone which is composed of black pyritic mudstone and fine grained quartz wacke displays a low geochemical character. Element ranges are : 2.3 to 3.9% Fe, 235 to 790 ppm Mn, 20 to 55 ppm Cu, 30 to 120 ppm Zn. Cr is erratic containing the lowest and highest values in the entire hole of 15 ppm and 205 ppm Cr. A similar low Fe-Mn-Cu zone occurs in oxidised rocks between 24.2m and 31.0m.

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Geochemically the rocks fall into five main groups.

1. From 10.0 to 97.4m

These rocks are characterised by low geochemistry in all elements except Fe, which is very variable from 1.6% to 18% Fe; Mn, which is equally variable from 210 ppm to 1.1% Mn; and Cr which is mostly elevated above 100 ppm Cr and contains sporadic very high values. A peak value of 3,100 ppm Cr is associated with a fuchsite bearing breccia. This association of sporadic very high Cr with generally low values in other elements seems typical of the coarse clastic Dundas Group rocks.

2. From 97.4 to 167.5m

This group is similar to the above but Cr is mostly less than 80 ppm Cr, and Fe, although still variable from 2.1% to 8.5% is less erratic, and Mn is mostly above 1,000 ppm.