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BI Pure Water is a stocking distributor for GreensandPlus®, a product of Inversand for Western Canada and the USA.

GreensandPlus™ is a black filter media used for removing soluble iron, manganese, hydrogen sulfide, arsenic and radium from water supplies. The manganese dioxide coated surface of GreensandPlus acts as a catalyst in the oxidation reduction reaction of iron and manganese. The silica sand core of GreensandPlus allows it to withstand operating conditions in waters that are low in silica, TDS and hardness.



Figure 1 - FRP vessels with GreensandPlus media to remove Iron, Manganese, Hydrogen Sulfide, Arsenic and Radium.

When using GreensandPlus, the aluminate feed can be eliminated. GreensandPlus is effective at higher operating temperatures and higher differential pressures than ordinary manganese greensand. Tolerance to higher differential pressure can provide for longer run times between backwashes and a greater margin of safety. The bonus is that GreensandPlus is one of the few medias that only needs to use Chlorine for continuous regeneration.

GreensandPlus is an exact replacement for manganese greensand. It can be used in CR or IR applications and requires no changes in backwash rate or times or chemical feeds. GreensandPlus has the WQA Gold Seal Certification for compliance with NSF/ANSI 61.

The GreensandPlus CR process has been found to be successful in removing radium and arsenic from well water. This occurs via adsorption onto the manganese and/or iron precipitates that are formed. For radium removal, soluble manganese must be present in or added to the raw water for removal to occur. Arsenic removal requires iron to be present in or added to the raw water to accomplish removal. Pilot plant testing is recommended in either case.

Raw waters having natural pH of 6.2 or above can be filtered through GreensandPlus without pH correction. Raw waters with a pH lower than 6.2 should be pH-corrected to 6.5-6.8 before filtration. Additional alkali should be added following the filters if a pH higher than 6.5-6.8 is desired in the treated water. This prevents the possible adverse reaction and formation of a colloidal precipitate that sometimes occurs with iron and alkali at a pH above 6.8.



Figure 2 - Big Boy 108 inch diameter steel media vessels.

Packaging is available in ½ cubic foot bags or 1 metric ton (2,205 lbs) bulk sacks.

BI Pure Water is a West Coast based company. BI Pure Water specializes in analyzing water treatment needs and prescribing the most cost-effective solution. We pilot, design, manufacture, install, start-up and commission package water treatment plants. BI Pure Water focuses on small and medium-sized water treatment plants to meet the needs of Federal, Provincial/State and Municipal Governments, Industrial Process, Construction Camps, Private Water Systems, Resorts & First Nations Reserves.

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