



## VolcanoPhos

- VolcanoPhos originates from the Cargill Carbonatite-Phosphate Complex located near Kapuskasing, Ontario.
- It is currently the only available North American sourced igneous hard rock containing apatite (phosphorous source).
- Igneous rock provides a different suite of trace minerals compared to sedimentary rock primarily in rare earth elements while being lower in aluminum content.
- It meets the NOP (National Organic Program) requirements for use on certified organic farms as a clean mineral source to aid as a soil amendment.

## Application Rates

- VolcanoPhos is typically applied at a rate of 300 to 500 lbs per acre each year until optimal phosphorus levels are reached.
- It is a slow release rock that should be added with a carbon source (when feasible) such as compost, peat and humates to increase the speed of breakdown of the primary minerals into more plant available forms.
- When adding to raw materials prepared for composting, 10% VolcanoPhos is a recommended rate.
- It is available in different gradients depending on your requirements and needs. For optimal results, please follow a complete fertility program that includes regular soil testing.

<b>Compositional Analysis</b>					
Aluminum (Al <sub>2</sub> O <sub>3</sub> )	0.63%	Magnesium (MgCO <sub>3</sub> )	2.12%	Sodium (Na <sub>2</sub> O)	0.22%
Calcium (CaCO <sub>3</sub> )	35.20%	Phosphorous (P <sub>2</sub> O <sub>5</sub> )	23.70%	Sulfur (SO <sub>2</sub> )	1.82%
Iron (Fe <sub>2</sub> O <sub>3</sub> )	16.06%	Potassium (K <sub>2</sub> O)	0.04%	Titanium (TiO <sub>2</sub> )	0.08%
	<b>ppm</b>		<b>ppm</b>		<b>ppm</b>
Antimony (Sb)	7	Copper (Cu)	45.2	Silver (Ag)	<0.2
Arsenic (As)	<3	Gallium (Ga)	8	Tellurium (Te)	2.8
Barium (Ba)	349	Gold (Au)	<5	Thallium (Tl)	<2
Beryllium (Be)	4.2	Lanthanum (La)	311	Tin (Sn)	<5
Bismuth (Bi)	3.2	Lead (Pb)	20.6	Uranium (U)	34.6
Boron (B)	<5	Manganese (Mn)	2073	Vanadium (V)	210
Cadmium (Cd)	1.24	Molybdenum (Mo)	<2	Tungsten (W)	3.7
Cerium (Ce)	19.7	Nickel (Ni)	23	Yttrium (Y)	97.4
Cobalt (Co)	72.4	Scandium (Sc)	24	Zinc (Zn)	74
Chromium (Cr)	10.4	Selenium (Se)	<5	Zirconium (Zr)	24.6
<b>Calculated into Elemental Analysis</b>					
Aluminum (Al)	0.33%	Magnesium (Mg)	0.61%	Sodium (Na)	0.16%
Calcium (Ca)	14.08%	Phosphorous (P)	8.60%	Sulfur (S)	0.91%
Iron (Fe)	11.23%	Potassium (K)	0.03%	Titanium (Ti)	0.05%

## Other Products

RPS has a suite of other Ontario sourced minerals such as Spanish River Carbonatite, Canadian Wollastonite and basalt available in small to large quantities and different gradients. Please contact for more info.