

New soil mapping technique measures soil's radiation

The quest to quantify and document variability within farm fields has spawned a lot of new technology. Among the latest is SoilOptix, a soil probing and mapping system that originated in the Dutch geology industry and made its way to Ontario in 2017.

It was featured at this year's Canada's Outdoor Farm Show.

The probe used in this process measures gamma radiation being naturally emitted from the soil, according to the company's marketing manager Jessica Clayton. As the company website explains, it measures stable isotopes such as Thorium-232, Uranium-238, Potassium-40, and Caesium-138.

Traveling along at 12 mph, doing 40-foot swaths across the field, you end up with 335 data points per acre. These enable the company technicians at the Tavistock location to provide farmers with 25 different map layers, including soil texture, macro and



SoilOptix marketing manager Jessica Clayton was at last week's Canada's Outdoor Farm Show explaining her company's new soil sampling technique.

micronutrient levels, as well as more complex models like elevation and plant-available water.

You can see clay, sand, and silt

percentages at different points across the field as well as organic matter, pH, base saturation,

Ca:Mg ratios, and many more.

No other system provides this many data points in a given field, Clayton says. That opens the door to very accurate variable rate

application of seed or fertilizer, she adds.

To ground truth the results, a number of soil samples – one every eight acres or a minimum of four per field – must still be taken.

What also makes this system unique is that the soil survey vehicle can operate in difficult field conditions such as heavy residue or vegetation in fields, orchards, and vineyards.

The only limitation is standing water, which can affect radiation readings. On the other hand, wet soils and up to four inches of light snowcover are not impediments.

SoilOptix is a partnership between Practical Precision of Tavistock and a Chinese fertilizer company Hubei Forbon Technologies.

For more information, contact the company at info@soiloptix.com or 519-902-7645 or go to the website at <https://soiloptix.com>.

EQUIPMENT IN SHED & ON THE HILL!



\$21,900

MF 8780 2wd, chopper, 30.5Lx32 2564 sep hrs., long auger, very nice #4606C



\$6,900

MF P.U. Head w. Victory super 8 p.u. 8 belt, good cond. #4607C



\$26,900

Landini 60F Rex 4wd, cab, air, Allied 295 ldr. & grapple 3 pt. Q.H., 2 rem's, 360/70Rx24 low hrs. #4521C **REDUCED**



\$39,500

Ford Versatile 976 4wd, 360 hp, 4 remotes 24.5x32 duals #2530C



\$42,900

Ford Versatile 846 4wd, 4 hyd, pto 18.4x38 duals std. trans., very good #4601C



\$8,950

MF 2745 Cab, pto, 2 hyd. 18.4x38 duals, 24 spd. Nice tractor #4603C



\$11,900

White 2-135 Cab & air, 5100 hrs. 20.8x38 duals, front wts., nice #4634C



\$23,900

JD 8430 4wd, pto, 3 remotes, quad trans. 18.4x34 duals, shedded, 1 of a kind #2522C **REDUCED**



\$40,000

JD 9400 1997, 4wd, 425 hp, 12 spd. ps, diff lock 5 hyd. outlets, 710/70R38 #8523B **REDUCED**



\$25,900

JD 8450 4wd, pto, 3 remotes 18.4Rx38 duals, nice #2521C **REDUCED**



\$27,500

JD 8650 1983, 4wd, 3 rear remotes, 1000 pto 20.8x38 duals, runs & drives well #8513A **REDUCED**



\$38,500

Ford 9280 4wd, 4 rear remotes, manual trans. 18.4x38 duals, runs well #8501B **REDUCED**



\$6,900

JD 4230 Cab, air, pto 2 hyd., 18.4x38 #4536C



\$12,900

Int. 1256 Turbo cab, duals 3367 hrs., pto, shedded #4505C



\$24,500

CIH Farmall 60A Ldr. & Q.A. bkt. L.H. reverser, 3 pt., good cond. #3505C



\$15,900

Versatile 836 4wd, pto, remotes, cummins 18.4x38 duals, p.s. issues, runs great #5533B **REDUCED**



\$1,500

MH 30 gas, runs good, new paint, good cond., #7517B **REDUCED**



\$35,900

Agco Allis 9735 4wd, 32 spd. trans., 3 rear remotes, 540/1000, 480/80 R42, runs well #3518C **REDUCED**



\$27,900

JD 2950 4wd, 260 SL ldr, 2 rear remotes, 3 pth, 540 pto, runs well #2531C **REDUCED**



\$14,900

JD 8630 4wd, pto, 3 pt. 3 remotes, 18.4x38 duals #4593C



\$28,900

CIH 7140 4wd, 710/75Rx34, frt. Wts. 3 pt., 3 remotes #4589C



\$23,900

JD 4240 2wd, cab, air, 3 pt. pto 2 remotes, P.Q., 20.8Rx38 #5001



\$12,900

Int. 3288 Cab, air, 2 pto 2 remotes, 18.4x34, good cond. #4522C



\$9,900

White 2-150 cab, air, 3 pt. remotes, motor weak #4533C



\$5,900

Int. 966 White cab, pto, remotes 20.8x38, good cond. #4510C



\$16,900

JD 120 Stalk Chopper 4 wheels, cyl., end hitch, very nice #6517B **REDUCED**



\$12,900

JD 120 Stalk Chopper 4 wheels, cyl. end hitch #7531B **REDUCED**

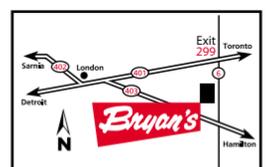


\$16,900

JD 220 Stalk Chopper High speed, 4 wheels, cyl. End hitch, good cond. #6519B

Bryan's

PUSLINCH, 4062 Hwy 6, 3 km S. of 401 (519) 837-0710
www.bryansfarm.com Call TOLL FREE 1-888-511-8074
FARM & INDUSTRIAL SUPPLY LTD.



ASK ABOUT E-Z FINANCING. FINANCE OR LEASE YOUR PURCHASE AT VERY COMPETITIVE RATES