

Jourdan to Test Quebec Phosphate Rock as a Natural Grow Media for Horticulture - Extend Commodity Br

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Jourdan to Test Quebec Phosphate Rock as a Natural Grow Media for Horticulture - Extend Commodity Brokering to Micronutrients

* Testing of phosphate rock from Jourdan's Dissimieux Lake, Hache, Cache and Lac Catherine Phosphate Properties to commence in Q2 2014

* Macronutrients and Micronutrients to be tested for agronomic suitability for soil/growth media improvement and crop availability

* Brokering of calcium sulphate and magnesium sulphate expected to commence during Q2 2014

Toronto (Canada), March 31, 2014: [Jourdan Resources Inc.](#) (TSX-V: JOR) ("JOURDAN" or the "Company") ([www.jourdan.ca](#)) is pleased to announce that it intends to commence testing of phosphate rock as a natural grow media utilizing material from its 100% owned Dissimieux Lake, Hache, Cache and Lac Catherine Phosphate Properties, all located in Quebec.

Recent successful drilling and sampling from Dissimieux Lake by Jourdan have demonstrated several zones of phosphate mineralization which contain a number of macro and micro nutrients in addition to phosphate. Similarly samples from the Hache and Cache properties have demonstrated ratios of macro and micro nutrients that are comparable to those from the zones at Dissimieux Lake (see table 1). Investors should note grab samples are selective by nature and may not be representative of average grades of the mineralization within zones.

The purpose of fertilizer use, especially for higher yields, is identical in temperate and tropical climates:

* to supplement the natural soil nutrient supply and build up soil fertility in order to satisfy the demand of crops with a high yield potential;

* to compensate for the nutrients used by plants or lost to the environment in order to maintain good soil conditions growing crops

* to introduce Macro and Micro nutrients to the food chain for animals and human life

Macronutrients

Mineral nutrient elements used in fertilizers can be divided into two groups - Macro and Micro Nutrients. The primary macronutrients are nitrogen (N), phosphorus (P), and potassium (K). These major nutrients are usually lacking from depleted soils as plants use large amounts for their growth and survival.

Additional macronutrients are calcium (Ca), magnesium (Mg), and sulfur (S), which are secondary in importance only to nitrogen, phosphorus, and potassium, no less essential, but smaller amounts of those elements are typically needed for most crops. As well large amounts of calcium and magnesium are added when lime is applied to acidic soils to aid in reducing soil acidity. (See Figure 1.)

Jourdan's phosphate projects in Quebec are enriched in P, Ca, and Mg. (See Table 1 and Map 1)

Primary: Nitrogen (N) Phosphorous (P) Potassium (K)

Secondary: Calcium (Ca) Magnesium (Mg) Sulphur (S)

Micronutrients

Plants do not require micronutrients in the same volumes as primary and secondary macronutrients, though plants cannot thrive without these micronutrients. Scientists classify boron (B), chlorine (Cl), copper (Cu),

iron (Fe), manganese (Mn), molybdenum (Mo), nickel (Ni), and zinc (Zn) as primary micronutrients.

And while not essential to plant life, humans require selenium (Se) and iodine (I) and these secondary micronutrients are added to fertilizer where the end use is beneficial to human life and the soils are depleted.

Jourdan's phosphate projects are enriched in copper, zinc, iron and manganese, all primary micronutrients. (See Table 1 and Map 1)

Primary: Boron (B) Zinc (Zn) Copper (Cu) Nickel (Ni)

 Iron (Fe) Chlorine (Cl) Molybdenum (Mo) Manganese (Mn)

Secondary: Selenium (Se) Iodine (I)

Grow Media

Jourdan's phosphate rock (PR) is an organic fertilizer that is a good source of phosphorus, calcium and other trace minerals. PR is a natural source of mined phosphorus. Jourdan plans to test different sizes of crushed PR with growers to evaluate if there is any increased benefit versus their current grow medium.

Figure 1. Plant Requirements - Macro and Micro Nutrients

<http://jourdan.ca/pdf/20140331FIG1.pdf>

Map 1 - Location of Jourdan Phosphate Projects in relation to other deposits in Quebec

<http://jourdan.ca/pdf/20140331MAP1.pdf>

Commercially important fertilizers containing sulfur include ammonium sulfate, ammonium thiosulfate, potassium sulfate, potassium-magnesium sulfate, gypsum, and magnesium sulfate. As sulphur is a secondary macronutrient not abundant in Jourdan's phosphate rocks, Jourdan intends to increase its focus in the calcium and magnesium sulphate brokering and increase its ability supply secondary macronutrients in mineral form to potential end users.

Table 1. Selected sample results from Dissimieux Lake, Hache and Cache prospects

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Sample	Cu	Mo	Ni	Zn	CaO	Fe2O3
	ppm	ppm	ppm	ppm	%	%
Nurtient	Micro	Micro	Micro	Micro	Macro	Micro
E5809303						
E5809305	38	2				
E5809307	31					
E5809311	59					
E5809318	58					
E5809319	57	2	3	186	10.90	22.60

E5809325	42					
E5809327	34					
E5809331	64	7	1	297	14.20	42.60
E5809333	46	4	3	350	7.94	40.30
E5809334	36	4	7	320	9.45	34.20
E5809336	37	6				
E5809386	41	2	15	178	9.50	16.10
E5809390	44	3	14	294	11.50	23.50
E5809393	66	4	11	279	10.10	26.60
E5809399	62					
E5809339	97	2	16	224	9.53	26.43
E5809348	30	5				
K435559	19	3	2	314	8.62	34.60
K435560	39					
K435565	22					
K435472	38	3	8	236	8.67	26.20
K435479	52	4	4	362	10.60	36.10
265013	16					
265014	17					
265015	30					
265017	22					
265018	13					
265024	36					
265025	18					
265026	20					
265027	17	2	3	287	10.60	25.70
265028	18					
265029	17	2	10	275	9.98	23.40
265097	29					
265100	26					
265004	58					
265005	58					
265007	28	4	52	325	10.40	20.30
265010	66					

Sample	K2O	MgO	MnO	P2O5	Property - Zone
	%	%	%	%	
Nurtient	Macro	Macro	Micro	Macro	
E5809303	0.66	6.46	0.40	4.72	DL - Fleury
E5809305	0.96	5.26	0.36	4.18	DL - Fleury
E5809307	0.85	5.22	0.32	3.91	DL - Fleury
E5809311	0.59	5.53	0.35	3.65	DL - Fleury
E5809318	0.60	6.46	0.28	3.52	DL - Fleury
E5809319	0.69	6.15	0.31	3.77	DL - Fleury
E5809325	0.76	5.58	0.22	3.44	DL - Fleury
E5809327	0.75	5.85	0.25	3.88	DL - Fleury
E5809331	0.02	4.56	0.54	7.97	DL - Fleury
E5809333	0.82	3.65	0.59	3.38	DL - Fleury
E5809334	0.90	5.11	0.49	4.24	DL - Fleury
E5809336	0.35	5.77	0.53	3.82	DL - Fleury
E5809386	0.86	4.22	0.17	3.05	DL - Fleury
E5809390	0.85	6.60	0.34	4.10	DL - Fleury
E5809393	0.70	6.96	0.37	3.16	DL - Fleury
E5809399	0.23	11.40	0.35	7.24	DL - Fleury
E5809339	0.30	4.63	0.28	3.74	DL - Western Structure
E5809348	0.54	4.02	0.51	3.90	DL - Western Structure
K435559	0.54	4.93	0.57	3.72	DL - Western Structure
K435560	0.36	6.42	0.30	3.64	DL - Western Structure
K435565	0.83	2.32	0.19	3.48	DL - Western Structure
K435472	0.86	4.26	0.43	3.20	DL - Western Structure
K435479	0.47	5.25	0.53	6.58	DL - Western Structure
265013	0.78	5.83	0.27	3.42	Hache
265014	0.54	5.94	0.27	3.15	Hache
265015	0.35	5.23	0.33	4.35	Hache
265017	0.28	9.34	0.44	4.05	Hache
265018	0.31	6.74	0.39	5.56	Hache
265024	0.32	7.41	0.32	5.99	Hache
265025	0.43	6.20	0.28	4.72	Hache

265026	0.40	4.60	0.23	3.85	Hache
265027	0.46	6.31	0.27	4.46	Hache
265028	0.44	6.45	0.27	4.03	Hache
265029	0.52	6.51	0.31	3.37	Hache
265097	0.25	9.03	0.28	4.01	Hache
265100	0.37	7.77	0.24	3.94	Hache
265004	0.57	5.83	0.16	5.11	Cache
265005	1.78	5.80	0.24	3.48	Cache
265007	1.11	5.06	0.25	5.68	Cache
265010	0.60	6.27	0.19	3.85	Cache

Fertilizing Crops to Improve Human Health

16 macro and micronutrients are needed by crops, animals and humans (source IFA - International Fertilizer Industry Association)

<http://jourdan.ca/pdf/20140331micronutrients.pdf>

Essential Macronutrients - Primary

K An activator or cofactor in enzymatic reactions. Potassium deficiency only occurs during prolonged fasting. Adverse effects with deficiency include cardiac arrhythmias, muscle weakness, and glucose intolerance.

N An essential component of all proteins. A deficiency often results in stunted growth.

P Phosphorus is the second most abundant mineral in the body, after calcium. Found in almost every food, and as such, deficiencies are rare. Required for proper cell functioning, regulation of calcium, strong bones and teeth, and to provide energy to our cells.

Essential Macronutrients - Secondary

Ca Indispensable for skeletal function with 99% in bones and teeth, calcium also helps with vascular function, muscle contraction, nerve transmission and hormone action.

Mg A low magnesium status is associated with ageing ailments, including atherosclerosis, hypertension, osteoporosis, diabetes mellitus, and some cancers.

S Component of several amino acids essential to humans. Except for vegan diets, deficiencies are rare. Sulphur is needed for production of keratin and helps to keep hair, skin, bone, cartilage and tendons strong and healthy.

Essential Micronutrients - Primary

Zn Deficiency weakens the immune system. Due to the central role of zinc in cell division, protein synthesis and growth, zinc is particularly important for young children, adolescents and pregnant women.

B Essential in plant growth and gaining acceptance as an essential element for animals and humans.

Fe A lack of iron is the most common nutritional disorder in humans worldwide and is most prevalent in the developing world. Symptoms of iron deficiency include anemia, poor growth and labored breathing after mild exercise.

Mo Though a rare genetic disorder, a deficiency of the molybdenum co-factor usually results in premature death in early childhood.

Cu An antioxidant for humans, copper is essential for the immune and nervous system, skeletal health, for iron metabolism and for the formation of red blood cells. Deficiencies lead to anemia.

Mn Manganese deficiency has not been reported for humans. However, symptoms observed in livestock are impaired reproductive performance, skeletal deformities and shortened tendons.

Ni The latest confirmed nutrient essential to plants. Not essential for animals or humans. Soil deficiencies lead to a decrease of plant productivity.

Cl Not essential for animals or humans. Soil deficiencies lead to a decrease of plant productivity.

Essential Micronutrients - Secondary

I Iodine deficiency disorders are cause of the mental impairment of nearly 20 million babies annually during pregnancy and the development of hyperthyroidism (goitre).

Se For humans, selenium has antioxidant, anti-inflammatory, anti-cancer, anti-viral and anti-ageing benefits.

Quality assurance / Quality Control ("QA/QC")

Surface grab samples averaging 1 kilogram each were taken by qualified personnel from Jourdan. Samples were bagged, sealed and numbered on-site, and delivered to Jourdan's Mississauga office by Jourdan staff. Blank samples, standards and duplicates were inserted into the sample stream and the full set of samples was transported to AGAT Laboratories in Mississauga, Ontario for analysis. At the laboratory facility, samples were inventoried, weighed and dried; crushed 75% to under 2 millimetres; riffled split with a 250 gram sub-sample pulverized 85% to under 75 microns; then followed by analysis using packages 201-078 Lithogeochemical Analysis by ICP/ICPMS Finish and 201-676 XRF Whole Rock Analysis. Approximately 5% of the samples were submitted to ALS Canada for check analysis.

The technical information in this news release was approved by Mr. Stephen Wallace, P. Geo, VP Exploration of Jourdan Resources, and a Qualified Person under NI 43-101 regulations.

About Jourdan Resources

[Jourdan Resources Inc.](#) is a Canadian junior mining exploration company focused on phosphate. We continually strive to maximize shareholder value by targeting the highest quality phosphate projects with a professional and highly experienced management team. Our approach combines creativity, experience, and technical expertise with tenacity and determination to advance existing projects while always being prepared to take advantage of new opportunities that can add value for our shareholders. We are committed to conducting ourselves in an open, professional, and responsible manner, while always remaining available to all shareholders. Our goal is to become the dominant phosphate miner in North America.

[Jourdan Resources Inc.](#) is a Canadian junior mining exploration company trading under the symbol JOR on the TSX Venture Exchange. The Company is focused on the acquisition, exploration, production, and development of mining properties in phosphates. Our goal is to be the dominant speciality phosphate miner in North America.

Please visit the Company's website at www.jourdan.ca

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Certain statements contained in this news release, including any information as to our strategy, projects, plans or future financial or operating performance and other statements that express management's expectations or estimates of future performance, may constitute forward-looking information (collectively "forward-looking information") within the meaning of Canadian securities laws. Forward-looking information

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While we consider these assumptions to be reasonable based on information currently available to us, they may prove to be incorrect. Actual results may vary from such forward-looking information for a variety of reasons, including but not limited to, risks and uncertainties disclosed in other public Jourdan Resources filings, changes in general economic, market and business conditions, competition for, among other things, capital and skilled personnel, and other unforeseen events or circumstances, that may cause the actual financial results, performance or achievements of the Company to be materially different from estimated future results, performance or achievements expressed or implied by the forward-looking statements. Copies of the Company's public filings under applicable Canadian securities laws are available at www.sedar.com. The Company further cautions that information contained on, or accessible through, this website is current only as of the date of filing such information and may be superseded by subsequent events or filings. Other than as required by law, Jourdan Resources does not intend, and undertakes no obligation, to update any forward looking information to reflect, among other things, new information or future events.

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<http://www.usetdas.com/pr/JourdanMar312014.pdf>

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