

**ORGANIC
DIRECT
APPLICATION
RAW ROCK
PHOSPHATE**

June 2023

NEVADA  **ORGANIC PHOSPHATE**

CSE NOP



*A tipping point has **OCCURRED** in the agricultural industry: **it is called ORGANIC***

NOP intends to become a significant producer of raw organic, direct ship of pit-run phosphate fertilizer to the growing \$121 billion** (2020, pre-covid) “organic food” market in North America.

American farming environmental practices are rapidly moving to a direct application of **REACTIVE** rather than soluble chemical phosphate.

NOP does not have to compete with the conventional chemical agricultural input industry.

** Economic Research Service [U.S. Department of Agriculture](#)
in 2021 at 8.7% annual growth rate between 2021 – 2027

MURDOCK MOUNTAIN P₂O₅ IS CURRENTLY UNIQUE IN THE US FERTILIZER INDUSTRY AS ORGANIC

ITAFOS 43-101 States

- All (other) phosphate rock produced in the U.S. is used by similar vertically integrated fertilizer and phosphorous producers (like ITAFOS) and for this reason there are no publicly available commodity price indices for phosphate ore or phosphate rock sold in the southeastern ID region.
- Source: Golder Associates Inc. (NI 43-101 Technical Report on Itafos Conda and Paris Hills Mineral Projects, Idaho, USA, P.3-3, Itafos July 1, 2019)
- Most fertilizers produced are either MAP or DAP, or some like beneficiated product binding P with ammonium to produce a phosphate-ammonium fertilizer. As a result of the chemical reaction, those cannot be certified as organic.
- MAP, monoammonium fertilizer, is on average 50% P₂O₅ and 10% nitrogen.
- DAP, diammonium fertilizer, is the world's most widely used fertilizer, combining 18% nitrogen and 46% P₂O₅.¹
- The phosphorus used in the manufacture of fertilizers comes from phosphate rock, which is mined and then processed to make phosphoric acid. Phosphoric acid is used in turn to make fertilizer. A by-product of this process is phosphogypsum, which is radioactive. For every 1 ton of phosphoric acid produced, 5 tons of radioactive waste is also produced.²

1. <https://www.differencebetween.com> 2010-2018

2. Wendy Taheri, Ph.D., August 2012 issue of Acres U.S.A

MOMENTOUS TIME TO INVEST

Nevada Organic Phosphate's Murdock Mountain Project

- Nevada is a politically safe, mining friendly jurisdiction
- Organic product, ***certification pending***
- Situated next to infrastructure (rail & road)
- Strong exploration and development management team
- Experienced consultants in distribution of organic inputs

“Investing in the leading and emerging agricultural input companies with strong management, technology, vision and distribution is to be participating in one of the most momentous aspects of human progress – profitability, and at low risk”

*Don Coxe:
“Basic Points”*

PHOSPHATE PRICES STILL IN A MAJOR BULL RUN

Rock Phosphate Monthly Price - US Dollars per Metric Ton

Range 6m 1y 5y 10y 15y 20y 25y 30y

Aug 2012 - Jul 2022: 137.500 (75.34%)



April 2023: US\$345.00 per Metric Ton, P Source: Morocco
Source: World Bank, [globeconomy.com](https://data.worldbank.org)

KEY ADVANTAGES

- Nevada is a politically safe, mining friendly jurisdiction
- Management believes this will be direct ship, pit-run, micronized, organic raw rock phosphate (P_2O_5)
- The proposed drilling program is designed to confirm phosphate grades and continuity required for a resource estimate
- Environmental and archaeological studies Q2/4 2022, Q1/2 2023
- BLM (“US Bureau of Land Management”) working with NOP to complete the process to exploration permit
- Situated immediately next to power and bush road to highway – 6 km to rail with a rail siding
- Unique direct ship Francolite**, the best kind of raw P (**Francolite: is a carbonate rich variety of the mineral fluorapatite)
- Strong exploration and development management team
- Experienced consultants in distribution of organic fertilizers – formerly CEO and President of a quarry operation of a raw rock product used to re-mineralize soils

KEY ADVANTAGES CAPEX AND PRODUCTION

- Minimal estimated costs of production
- Initial quarry plan for extraction: using mainly contract equipment plus labour and purchase of used equipment, where possible
- CAPEX is estimated to be approx. US\$500,000
- Depending on the BLM permitting, NOP expects to be in early production in less than a year from making that decision
- The plan is to drill it, dig it, truck it to Montello, 6 miles away, micronize it with a grinding machine, bag it and then take it across the road to the railhead, to be loaded on a freight car and then ship it to California



EXPLORATION PROGRAMME 2023

- The purpose of the proposed exploration and drill program is to confirm historic results and to confidently define potential phosphate resources hosted within the Murdock Mountain project area
- Trenching: 23 trenches, 100 feet x 5 feet deep each, excavated by backhoe
- Drilling: 58 holes of 200 feet each, for a combined total of approximately 11,600 feet
- The holes will be drilled from twenty-nine (29) drill pads, each pad hosting one vertical and one inclined hole



2023 MURDOCK MOUNTAIN OBJECTIVES AND MILESTONES 2023-2024*

	Anticipated Cost	Anticipated Time Frame
Initiate Work Program on Murdock Property ⁽¹⁾		
Complete environmental assessment and file with BLM	40,800	Q4 2023
Finalize exploration plan and obtain exploration/reclamation permit from BLM ⁽²⁾	13,600	Q4 2023
Subtotal, Work	\$54,400	
Initial trenching and drilling US\$300,000	\$410,000	Q3/4, 2023 – Q2/3, 2024
Total, Objectives and Milestones	\$464,400	

Notes:

(1) Costs and expenses estimated in US dollars and converted to Canadian dollars based on estimated US:CDN exchange rate of 1.26.

(2) Upon issue of the exploration permit, the Nevada BLM will require annual fees and payments, which are to be assessed at that time and will be paid from general working capital.

(3) Subject to BLM acceptance of environmental assessment report and receipt of an exploration permit.

WORKING CAPITAL

Use of Available Funds

The principal purposes for which the total available funds are expected to be used are as follows:

Complete Phase I of work program on the Murdock Property	\$54,400
Initiate Phase II: trenching and drilling	\$410,000
Estimated general and administrative expenses for 12 months	\$300,000
Unallocated Working Capital	(\$275,000)
Funds required to be raised in Q3/Q4 2023	TOTAL \$479,400


CAPITALIZATION

Unaudited as at April 30, 2023

Common shares	37,387,705
Warrants	29,047,706
Options	2,655,000
Total fully diluted shares outstanding	69,090,411

In respect of the Murdock Property, since Spring 2022, NOP has incurred approximately \$191,978 in the preparation of various preliminary filings and studies required for the Murdock Property. These include exploration programme filing with the BLM, and the commencement of required cultural and environmental baseline studies. Westland Engineering and Environmental Services Inc. ("Westland") expects to complete the environmental baseline and cultural studies by the end of October. SEM has \$70,703 on deposit with Westland, which is expected to be sufficient to substantially complete the work. SEM has a deposit of \$41,245 with the BLM (an additional \$15,000 may be required) to cover BLM costs.

PEER COMPARISON

COMPANY	SYMBOL	SHARES O/S MIL	MARKET PRICE 24/5/23	MARKET CAP MIL	PRODUCT	EST TIME TO PRODUCTION	EST CAPEX
FIRST PHOSPHATE	PHOS	48	\$0.485	\$23.28	PHOS ACID	EST 2030?	\$1.5 BIL
ARRIANNE	DAN	190	\$0.35	\$66.5	PHOS ACID	EST 2030?	\$1.5 BIL+
FOX RIVER	FOX	52	\$.0315	\$16.38	P MAP	CURRENT	
CHATHAM	NZP	85	\$0.105	\$8.9	P	CURRENT	
VERDE	NPK	52	\$2.50	\$130.0	K.P	CURRENT	
ITAFOS	IFOS	186	\$1.72	\$319.92	MAP/DAP	CURRENT	
 NEVADA	NOP	37	\$0.04	\$1.48	ORG.P	EST 2024	\$500K

THE ADVANTAGES OF MURDOCK MOUNTAIN

Not all phosphate rocks are created equal.

At MURDOCK MOUNTAIN IT'S CLEAN

- Higher surface area and reactivity – insignificant impurities
- Only 5% of world's application of P_2O_5 is pure enough to be applied as direct application, raw rock phosphate
- No processing required to remove impurities or upgrade rock quality
- Limestone hanging/footwalls are calcite-rich
- P occurs as “francolite”, the most reactive crystallite structure of all P_2O_5 minerals

PURITY!



PROVEN CLEAN



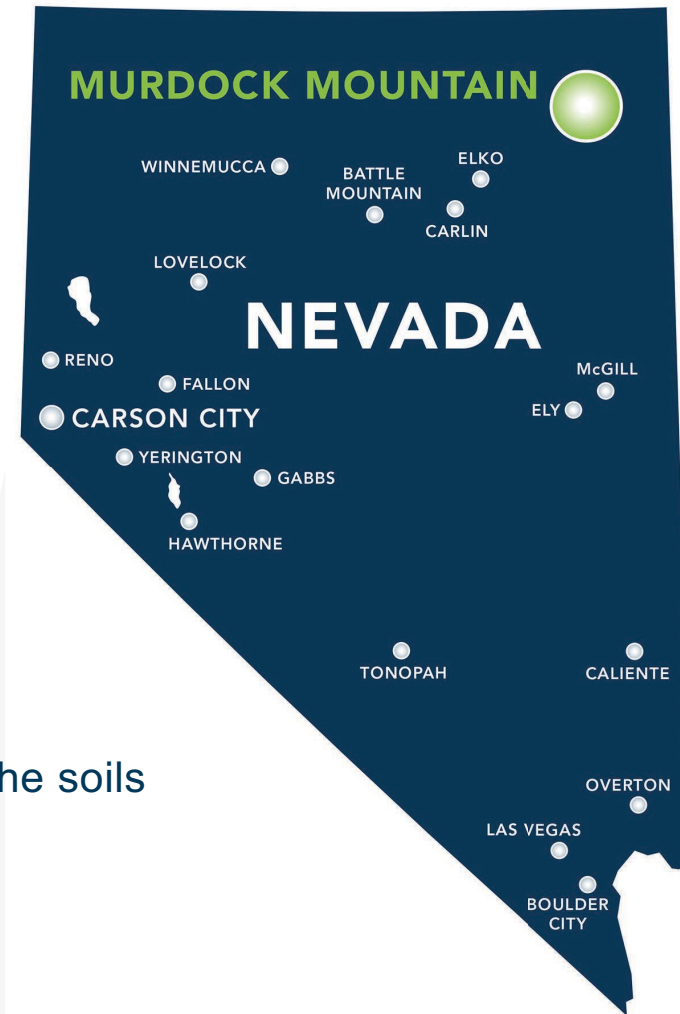
Element (ppm)	Max Value (ppm)	Mean (n=27) (ppm)	HMR	HMR
			Limit (ppm) for 1% P ₂ O ₅	Limit (ppm) for 15% P ₂ O ₅
Arsenic (As)	30	<10	13	195
Cadmium (Cd)	<5	<5	10	150
Cobalt (Co)	<5	<5	136	2040
Mercury (Hg)	5	<5	1	15
Molybdenum (Mo)	<5	<5	42	630
Nickel (Ni)	55	14.7	250	3750
Lead (Pb)	20	<10	61	915
Zinc (Zn)	170	64.6	420	6300

Table: Heavy Metal Rule (HMR) applied to 2012 trench samples from Murdock Mtn. Maximum and average values shown relative to HMR limits.

MURDOCK MOUNTAIN PHOSPHATE NE ELKO COUNTY, NEVADA USA

- Historic geologic mapping has traced the phosphate-rich bed over a strike length of 8km, with a potential average thickness of 3.35 metres at up to 15% P_2O_5 .
- 6 km from Southern Pacific railway, Hwy SR 30, and the hamlet of Montello
- Direct application phosphate – no significant uranium, thorium, or heavy metals (as are contained within 95% of the worlds P deposits)
- Very rare phosphate hosted by oolitic limestones
- Because of the small grain size of these oolitic sands, there is a lot of surface area to react with micro-organisms in the soils

Qualified Person / Quality Control and Quality Assurance Robert Johansing, M.Sc. Econ. Geol., P. Geo., is a qualified person ("QP") as defined by NI 43-101 and has reviewed and approved the technical content of this document.



THE ELEMENT PLANTS CAN'T LIVE WITHOUT

- Stimulates early growth and root formation
- Necessary for cell division and DNA and RNA formation
- Improves the ability of plants to absorb water and other nutrients
- Stimulates flower blooms and seed development
- Improves plant strength and the ability to tolerate unfavorable environmental conditions
- Aids in photosynthesis and food formation

PHOSPHORUS
IS A
**MACRO
NUTRIENT**



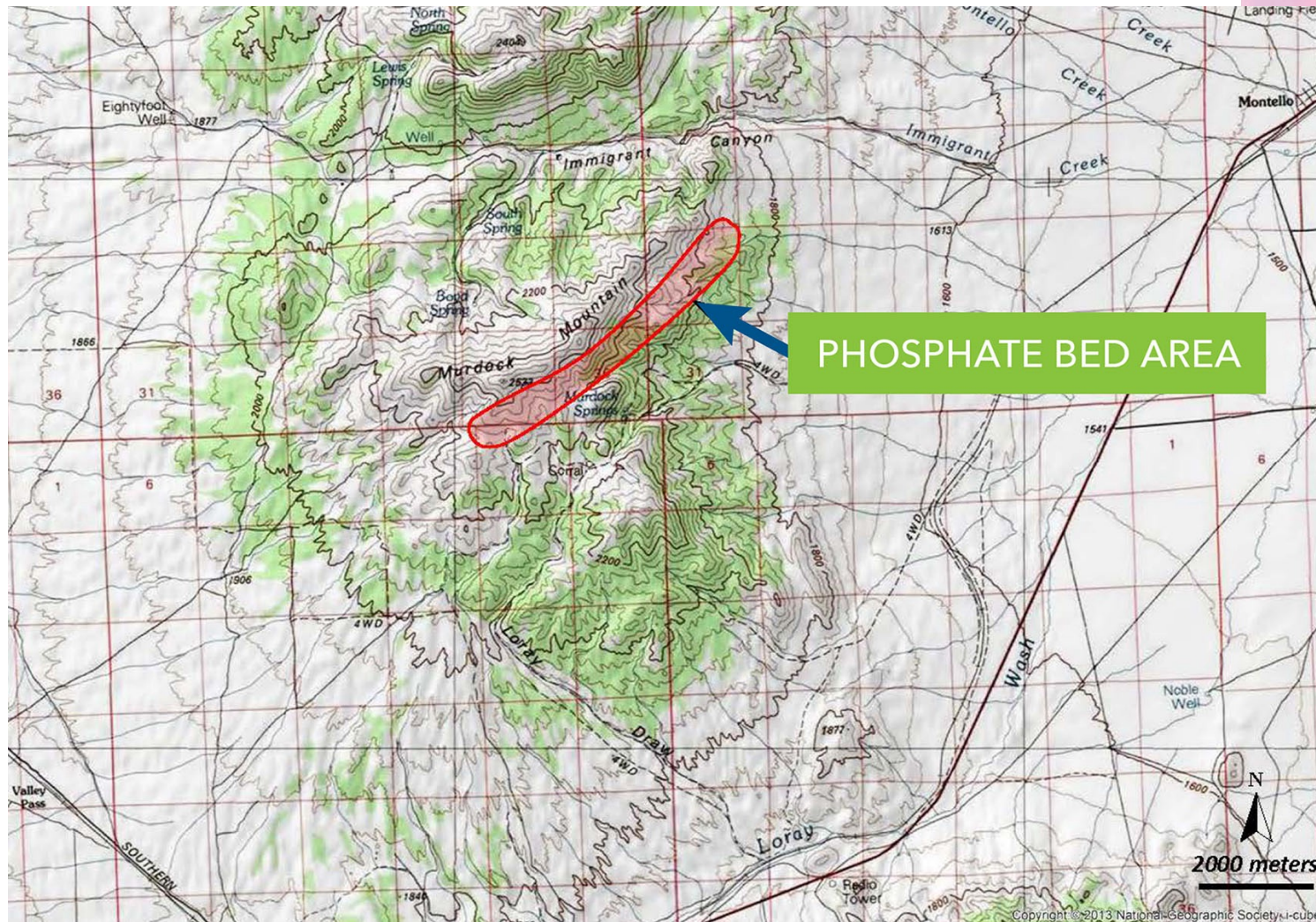
ORGANIC VS COMMON CHEMICAL P

- Organic rock fertilizers are slow release, matching plant adsorption rates
- Plants only utilize about 10% of applied acidulated P in a growing season
- NOP raw phosphate works by matching the life cycle of plant growth
- Use of natural rock reduces soil toxicity
 - finely ground, it is spread on the soil surface
- Current chemical P usage is only 10-20% per annual application, thus the excess chemical P creates real problems of ground water and surface run-off contamination

Sediment-hosted
Phosphate



MURDOCK MOUNTAIN DEPOSIT AT SURFACE



DIRECTORS AND OFFICERS

ROBIN DOW HBA, MBA, FCSI CEO & Director

Mr. Dow has over 35 years in financing public resource companies, raised over \$150 mil since 1998. CEO Nevada Organic Phosphate, Dabros Mining Corp, and Ore Chimney Gold Inc. Nevada Organic Phosphate is Robin's 20th public company since 1988.

Eric Szustak, CA Director

Mr. Eric Szustak is a Chartered Public Accountant, CA with over 38 years of financial service, business development, marketing, accounting, and CFO experience. Mr. Szustak has worked at both small and large Accounting firms advising mid- sized Businesses. His background includes 14 years with three national brokerage firms Midland Walwyn, Merrill Lynch and BMO Nesbitt Burns in various positions, including private client wealth group, management & securities compliance.

Mr. Szustak holds a B.A. Honors Chartered Accountant Studies and Economics from the University of Waterloo and received his Chartered Accountant designation in 1985. Mr. Szustak is the former President and now Chairman of Board of Quinsam Capital Corporation. Quinsam is a Public merchant bank based in Canada. The merchant banking business encompasses a range of activities including acquisitions, advisory services, lending activities and portfolio investments. His experience in the Public Markets includes being a Director of various Public Companies.

NOP'S TECHNICAL TEAM

GARRY K SMITH, PGeo Director

Mr. Smith has provided exploration management and services to mining companies for over 30 years, and has served as President, VP Exploration, Director, and Consultant to numerous boards. Notable milestones were participating in the discovery of the Hemlo world class gold mine, and co-founding the second junior to list on the TSE. Garry is a registered Professional Geoscientist of Ontario (PGO) and provides Qualified Person consulting on project acquisition, 43-101 technical reporting, resource estimation, general exploration contracting and reporting, computer-based 3D geological modelling and data compilation, and metal ion soil geochemistry.

MARCO MONTECINOS Reno, Nevada **Project Manager Murdock Mountain**

Marco Montecinos has over 38 years of experience in mineral exploration and business development projects in the Americas-and currently works as Business Development Consultant with several junior exploration companies in the western US. Marco was instrumental in the discovery of the Marlin Deposit in Guatemala and other gold deposits in Nevada, Mexico, and Central America. He is President of Tigren, Inc., a Nevada based Exploration Services Company, which has provided technical services to the mining industry for 28 years

Paul W. Pitman, B.Sc. Geology. P.Geo. Director

Mr. Pitman is a field hardened veteran with extensive experience in all areas of geological exploration for a number of metals and materials. He has over 55 years' experience as an exploration geologist. Since 1983 he acted as a geological consultant to over 70 clients; providing a full range of services (geological, corporate, and administrative); including being a former Director, Officer (VP or President) of several junior resource companies. Paul is semi-retired but directs his geological expertise as an advisor to several fertilizer companies.

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