Imperial Mining Crater Lake Drilling Returns Wide Scandium and Rare Earth Intersections: Driving to Deliver 43-101 Resource Estimate by June

written by Raj Shah | May 27, 2021
May 27, 2021 (Source) – **Highlights:**

- Assay results from the first four drillhole continue to return impressive intercepts of **111.9 m (367.0') grading 298 g/t scandium oxide (Sc_2O_3), including 40.5 m (132.8') grading 336 g/t Sc_2O_3** and **34.77 m (114.0′) grading 321 g/t Sc_2O_3**.
- Elevated levels of **total rare earth oxides plus yttrium (TREO+Y) of up to 0.38 %** characterize the scandium-bearing horizon.
- At current prices for the magnet rare earths (Nd, Pr, Dy, Tb) the rare earth mineralization will provide the project with important bulk concentrate value for the potential operation.

Imperial Mining Group Ltd. ("Imperial") (**TSX VENTURE: IPG; OTCQB: IMPNF**) is pleased to announce that it continues to receive strong scandium and rare earth assays from Crater Lake drilling the TG scandium mineralized Zone (the "Zone"). Assay results continue to return substantial intersection widths of scandium-bearing olivine ferrosyenite (Table 1) reported earlier (*see* Imperial press release – April 28, 2021). The drilling program was completed on May 9th, with a total of 14 drillholes having tested the Zone. Sufficient drill data has now been

collected to undertake a 43-101 preliminary Resource Estimate of the TG zone for delivery in June.

“The winter drilling results at the Crater Lake property continue to build an important scandium and TREO+Y resource at the TGZ target,” said Peter Cashin, Imperial’s President & Chief Executive Officer. “Drilling has now defined the Zone on 50 m sections between Sections 350N and 650N and mineralization has been traced by drilling over 650 m in total strike length down to a vertical depth of up to 200 m. Importantly, the zone is getting thicker and higher grade with depth and to the north of Section 500N.”

CURRENT DRILLING

To date, 14 drillholes for 2,084.8 m have been completed (Table 2, Figures 1, 2 and 3). All drillholes have intersected the target mafic intrusive host rock. The drilling indicates that the TG scandium zone is doubly dipping between 83^{0} west to 70^{0} east, with a north-northeast strike direction. The widths of the mineralized zone vary between 55 and 135 m (180-443’) in true thickness. Mineralization is open at depth below the 200 m vertical level and along strike and appears as a thickening, conical-shaped body in cross-section.

Table 1 – Best Drillhole Assay Results, Crater Lake Project, Quebec

Hole #	From (m)	To (m)	Interval (m)	Sc (g/t)	Sc2O3 (g/t)	TREO+Y (%)
CL21044	46.85	132.33	85.48	177	271	0.3396
Incl.	75.64	98.23	22.59	202	310	0.3565
And	160.17	168.84	8.67	172	264	0.3590
CL21045	18.70	86.90	68.20	165	253	0.3141

Incl.	38.50	73.27	34.77	209	321	0.3744
CL21047	14.90	31.40	16.50	130	199	0.2684
And	36.85	61.48	24.63	129	198	0.2633
And	69.07	98.40	29.33	181	278	0.3310
Incl.	69.07	84.00	14.93	198	304	0.3455
CL21048	50.57	162.50	111.93	194	298	0.3547
Incl.	70.00	84.00	14.00	203	311	0.3707
And incl.	94.00	134.50	40.50	219	336	0.3785

NOTES: *– 1 ppm of Sc metal equals 1.5338 ppm scandium oxide (Sc_2O_3) ; 1 g/t equals 1 ppm. TREO+Y includes oxides of La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu plus Y.*

SECTION 350N DRILLING		
CL21050	–	The hole intersected a cumulative thickness of 55.6 m of Sc-bearing mafic Olivine Ferrosyenite (OLFESYN) intrusive with individual intersections of up to 20.0 m in core length.
SECTION 600N DRILLING		

CL21052	–	This hole intersected a cumulative 154.9 m (508.1’) of Sc-bearing OLFESYN commencing at 56.5 m in the hole. The azimuth of this hole was reversed from the other holes on Section to confirm our initial inverted cone geometry of the zone. The largest intersection returned 142.5 m (467.4’) of OLFESYN, starting at 56.5 m in the hole. Of interest was 6.7 m thick interval of pegmatite containing very coarse amphibole aggregates with several inclusions of zircon and up to 10% of fluorite at the contact between the OLFESYN and the footwall felsic syenite. The high fluorite commonly carries high rare earth grades elsewhere on the property.
SECTION 650N DRILLING		
CL21051	–	The hole intersected a cumulative thickness of 54.2 m (177.8’) interval of favourable OLFESYN starting at 73.5 m in the hole.
CL21053	–	The hole was a shallow overcut to hole CL21051 and intersected a cumulative interval of 19.3 m (63.3’) interval of favourable OLFESYN commencing at 22.2 m in the hole.

The mineralization on this Section has further confirmed that the system is building with depth and that the mineralization has a steep northern plunge geometry.

The core samples from holes CL21046 and CL21049 to CL21053 have been sent out for analyses and have been delivered to Activation Laboratories late last week. Results are anticipated to be delivered within three weeks of receipt of this remaining shipment.

Table 2 – Borehole Location Table – Crater Lake Project, Quebec

Borehole Number	Section	Easting	Northing	Elevation (m)	Azimuth	Dip	Length (m)
CL21040	550N	440895	6133765	548	305	-47	117.0
CL21041	500N	440823	6133748	550	305	-45	50.3
CL21042	550N	440937	6133733	542	305	-50	213.9
CL21043	550N	440867	6133786	551	305	-47	69.9
CL21044	450N	440826	6133687	543	305	-47	186.8
CL21045	450N	440792	6133711	548	305	-45	108.0
CL21046	400N	440783	6133660	543	305	-47	190.0
CL21047	400N	440757	6133678	547	305	-45	126.0
CL21048	600N	440960	6133782	545	305	-47	208.0
CL21049	600N	440930	6133802	548	305	-45	133.8
CL21050	350N	440745	6133608	541	305	-47	151.0
CL21051	650N	440987	6133824	545	305	-47	182.9
CL21052	600N	440841	6133853	561	125	-55	229.0
CL21053	650N	440951	6133855	553	305	-47	118.2
						Total	**2084.8**

* *Borehole Coordinate Datum : NAD83 Zone 20N*

QA-QC Protocol

Strict QA/QC protocols have been implemented for the Crater Lake Project, including the insertion of certified reference materials (standards), duplicates and blanks at regular intervals throughout the sequence of samples.

A total of 611 samples, including 36 QA-QC samples, were sent to an analytical laboratory. All sample preparation and analytical work was carried out by Actlabs at their facilities in Ancaster, Ontario. Several analytical techniques were used to characterize the samples, which are combined at Actlabs into the analytical

package “8-REE”. This package includes whole-rock and trace element analytic techniques. Whole Rock analyses are done via a lithium metaborate/tetraborate fusion inductively coupled plasma (ICP) finish. Trace elements are also analyzed by fusion ICP/MS.

The technical content in this press release was prepared, reviewed and certified by Pierre Guay, P. Geo., Imperial’s Vice-President, Exploration, a Geologist and Qualified Person as defined by NI43-101.

ABOUT IMPERIAL MINING GROUP LTD.

Imperial is a Canadian mineral exploration and development company focused on the advancement of its technology metals projects in Québec. Imperial is publicly listed on the TSX Venture Exchange as “IPG” and on the OTCQB Exchange as “IMPNF” and is led by an experienced team of mineral exploration and development professionals with a strong track record of mineral deposit discovery in numerous metal commodities.

For further information please contact:

Peter J. Cashin President and Chief Executive Officer **Phone:** +1 (514) 360-0571 **Email:** info@imperialmgp.com	CHF Capital Markets Iryna Zheliasko, Manager-Corporate Communications **Phone:** +1 (416) 868-1079 x229 **Email:** iryna@chfir.com

Website: www.imperialmgp.com **Twitter:** @imperial_mining

Facebook: Imperial Mining Group

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Figure 1 – Crater Lake Drillhole Location Map
https://www.globenewswire.com/NewsRoom/AttachmentNg/339b595c-b856-415a-9c6f-09d321dba712

Figure 2 – Diamond Drill Cross-Section 450N, TG Zone, Crater Lake Project, Quebec
https://www.globenewswire.com/NewsRoom/AttachmentNg/2b15915c-cdb7-43b0-9f24-4612b206de5f

Figure 3 – Diamond Drill Cross-Section 600N, TG Zone, Crater Lake Project, Quebec

https://www.globenewswire.com/NewsRoom/AttachmentNg/5be7ed52-17a4-4deb-bba8-7af779621169