

ASX ANNOUNCEMENT

ASX: ENV

28th July 2022



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QUARTERLY ACTIVITIES REPORT FOR PERIOD ENDED 30 JUNE 2022

HIGHLIGHTS

- **Enova extinguishes all debt by equity conversion**
- **Continued development of the Charley Creek rare-earth project**
- **Cattle Creek prospect bulk samples metallurgical drilling plan finalised**
- **Proof of concept gravity separation test work for rare earths and industrial minerals planned**
- **Saprolite fines beneficiation and follow up leach extraction validation test work for scandium, aluminum and rare earths extraction planned**
- **Continued demand for secure critical mineral supply**

CORPORATE

Enova Mining Limited (“Enova”, “the Company”) is focused on the development of the Charley Creek rare earth project located in central Northern Territory, Australia.

Enova’s Future

The strategic value of the Charley Creek project to the Northern Territory and Australia is unrecognized. Enova is working to substantiate this value by validating its mineral resources and establishing technical support proving economic extraction of these minerals. During 2022, Enova plans to solidify the process treatment plant concept so the resource potential of Cattle Creek can be announced. Our proposed work programme, to obtain bulk samples for metallurgic testing, will allow Enova to move forward to the next stage of development. Large scale “proof of concept” gravity mineral separation testing of alluvial sands is a major commitment, but it will validate and de-risk the gravity project. At the same time, the process route for saprolite/clay, which lays beneath the alluvial sand horizon, requires further assessment. Size beneficiation test work will provide confidence of the expected upgrading potential and provide samples for further leach testing and validation of the process.

critical metals for a sustainable future

FINANCE

On 30 May 2022, the Company announced the issue and allotment of 28,556,218 ordinary shares at an issue price of \$0.018 per share to a related party of the Company on conversion of debt, with said share issue approved by shareholders on 26 May 2022 (pursuant to resolution 6 of the Company's AGM notice dated 14 April 2022).

Details of the settled loan amounts - principal plus interest as of 26th May 2022, are tabled below:

Date of Original Loan	Principal \$	Flat Interest Rate per annum Or pro-rata thereof	Interest Applicable to Due Date \$	Due Date
8/10/20	50,000	15%	13,352	8/10/22
19/10/20	50,000	15%	13,071	19/10/22
12/4/21	100,000	15%	17,700	2/10/21
26/7/21	100,000	15%	12,910	26/7/22
22/10/21	50,000	15%	4,513	22/10/22
31/3/22	100,000	15%	2,466	31/9/22
Total Due	450,000		64,012	

PROJECT DEVELOPMENTS

Background

The original 2013 Scoping Study for the Charley Creek project targeted upper horizons of alluvial sands containing valuable heavy minerals, amenable to the low-cost gravity separation for the recovery of concentrate bearing **rare earth minerals** (monazite and xenotime) and **industrial minerals** (ilmenite, rutile and zircon).

Following the 2019 drilling campaign at Cattle Creek, the Company identified new zones of mineralization and target metals for extraction. Below the alluvial horizons are saprolite/sands/clays that are concentrated in the finer size fractions to produce high-grade concentrates of **scandium, aluminum and rare earth metals**. Enova investigated new process techniques for the economic extraction of metals from different rock types.

In 2020, Enova commenced acid leach test work of the saprolite/clays. By late 2021, test work had successfully lowered acid consumption of this material to levels considered economically viable. More test work is required to validate both beneficiation and acid leach processes. A combination of gravity heavy mineral separation and leach processing operations at Cattle Creek address the recovery of a broad spectrum of rare earth minerals, scandium, aluminum and other metals from different rock-types in the same area.

Strategic Direction

Significant operational cost savings are achievable with both processes incorporated into a unified operation:

- an alluvial processing operation removes overburden to exposes saprolite for the leaching operation,
- alluvial and saprolite mining operations can be concurrent, sharing an equipment fleet, supervision and management costs,
- the leach process circuit requires low-cost sulphuric acid. An acid plant located at the mine will generate abundant acid, heat and power, enough power for the mine site, screening and leach operations but also enough for gravity separation plant and tailings disposal system,
- trucks transporting sulphur to site to produce acid can backhaul bulk products such as industrial metal concentrates, alumina to port, thereby eliminating the transport costs for lower value bulk products, and
- economies of scale lower unit costs of overheads and services through sharing.

To assess and validate these process methods, two separate test programmes are required. Enova's board have decided the Company must raise finance and proceed the following test programmes:

1. Alluvial Sands Processing

Further drilling is required at Cattle Creek to recover bulk samples sufficient for gravity separation metallurgical test work. The objective is to update the existing Scoping Study. Completing the "proof of concept" test programme will support the next stage of studies.

Target minerals: **rare earth minerals (monazite and xenotime) and industrial minerals (ilmenite, rutile and zircon).**

2. Saprolite/Clays Processing

Saprolite samples will also be recovered from the drilling programme for use in large scale beneficiation tests, to confirm the expected metal recovery in the fine size fractions. These upgraded samples will provide surplus quantities of samples needed for tests to validate previous leach tests completed in late 2021. New tests will also investigate the separation of metals in leach solution. Our rationale is further explained below.

Target minerals: **scandium, aluminum and rare earth metals.**

Metallurgical Work Rationale

Gravity mineral separation tests completed in 2012 and 2016 are not consistent with tests completed in 2020 using drill samples from the 2019 drill programme, as small sample size and poor-quality samples used in the 2020 tests are suspected as the cause for these discrepancies. Fresh alluvium bulk samples are required to complete larger scale validation tests (+5 tonne test sample) for the gravity separation circuit. Testing will also investigate improved recovery by light grinding of the gangue. Large scale testing is also required to establish steady state circuit conditions and a ensure

a representative sample of the orebody is tested. This will unequivocally confirm the gravity separation parameters and allow our current Scoping Study to be updated (previously updated in 2018). Significant quantities of concentrate can be generated for magnetic separation analysis, mineral quality assessment and solvent extraction tests to separate rare earth metals.

Regarding the saprolite/clay material, early leach test work undertaken in 2020 were “sighter tests”, necessary to understand the beneficiation and leach test character of saprolite/clay. Size beneficiation was not optimized for subsequent leach test work. Leach test work matured over an 18-month period through trial and error. The leaching conditions used in the last three tests (test #14,15,16 in August 2021) are considered practically feasible. These tests need to be repeated using fines from beneficiation. To date, fines from beneficiation tests have provided a range of product mass and upgrade results. The variance may be due to different test procedures, different material types, inconsistent particle sizes and small samples. To validate the beneficiation parameters, larger scale sample tests are required. Repeat acid leach tests must be conducted using optimized size product from these scaled beneficiation tests. Other control work will be explored such as leach feed grinding, resin-in-leach and pH stabilisation. There will also be an opportunity to trial a few alkali lixiviants which may be more specific to scandium and aluminum.

This work will form the technical basis of support for the JORC 2012 RPEEE requirements to complete the resource estimate for publication. Enova recognizes that repeating metallurgical test work delays the project schedule. However, this test work is necessary for project confidence, as it will improve our design estimates and allow further project potential to be realised. This work reduces the test work expected for the Pre-Feasibility Study stage.

The Company will update the market on the timing of the work programme and the Cattle Creek resource statement once funding is secured.

PROJECT ACTIVITY

Over 600 infill drill samples await dispatch to Perth for assay. These samples will be used to produce homogenized samples for hydro-metallurgical testing and provide added information to our drill database.

Enova is currently updating the 2022 Mine Management Plan in anticipation of a drilling programme commencing in Q3, 2022.

TENEMENTS

There has been no change in tenement holdings since the March 2020 quarter and no tenement reductions are planned in 2022. Enova’s tenement holdings are provided in the following table:

Tenement Holdings (period ending March 2022)

Tenement	Name / Location	Group	Owner	AREA (Sub-blocks)	AREA (Km2)
EL 24281	Charley Creek	GR086 Charley Creek 1	CNPL 100%	37	116.60
EL 25230	Cockroach Dam	GR086 Charley Creek 1	CNPL 100%	102	289.00
EL 27358	Hamilton Downs	GR086 Charley Creek 1	CNPL 100%	8	25.17
EL 31947	Cloughs Dam	GR086 Charley Creek 1	CNPL 100%	20	59.57
		Charley Creek 1		167	490.34
EL 28434	Hamilton Homestead	GR339 Charley Creek 2	CNPL 56.28% / EMR 43.72%	4	12.08
EL 29789	Mulga Bore	GR339 Charley Creek 2	CNPL 56.28% / EMR 43.72%	4	12.61
		Charley Creek 2		8	24.69
		TOTAL OF ALL TENEMENTS		175	515.03

Crossland Nickel Pty Ltd (CNPL) - Wholly owned by Enova
Essential Mining Resources Pty. Ltd. (EMR) - Wholly owned by Enova

Further information about Enova is available at our website www.enovamining.com.

The market will be kept appraised of developments, as required under ASX Listing Rules and in accord with continuous disclosure requirements.

Approved for release by the Board of Enova Mining Limited

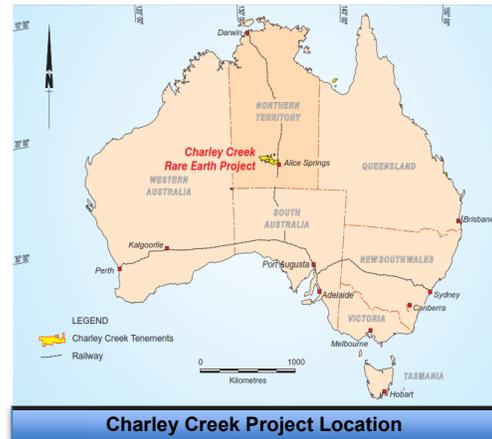


Eric Vesel,
CEO/ Executive Director.
Enova Mining Limited

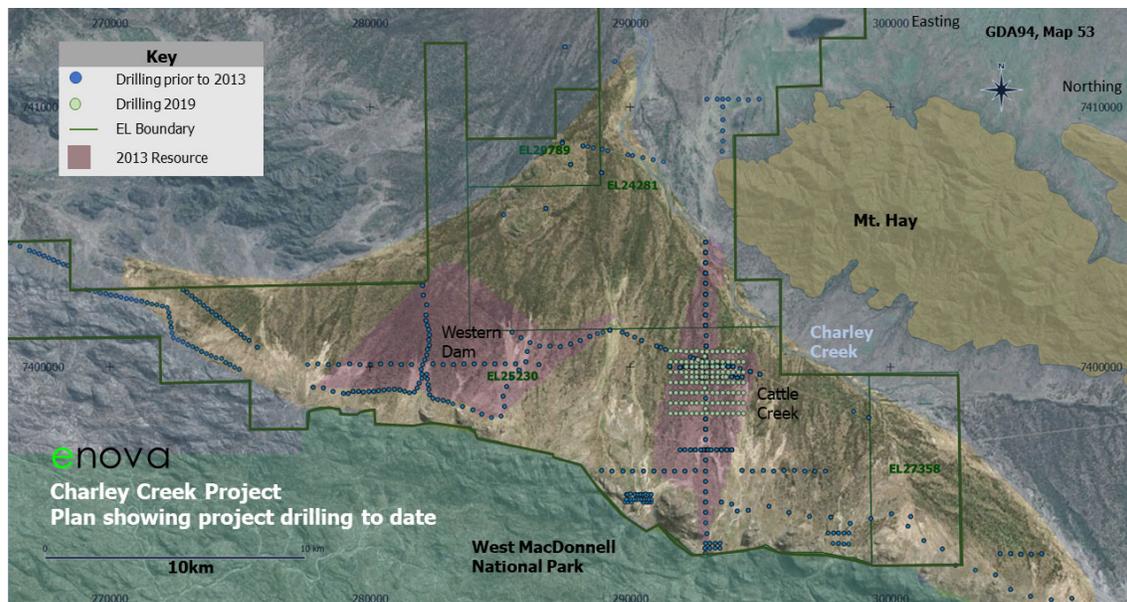
Contact details:
eric@enovamining.com

About the Charley Creek Project

The Charley Creek project located 110 km W-NW of Alice Springs in the central Northern Territory, Australia is fully owned by Enova Mining Limited (Enova). Enova is working to re-establish our resource statement and scoping study for the Charley Creek region completed in April 2013. The region is well positioned with close access to the services of Alice Springs and on a property of few encumbrances. Conditions are ideal for low-cost mining, situated in low-laying topography with dry free-dig mining material. Enova's vision is to host sustainable mining operations of low environmental impact. Several areas of mineralization are identified with mining potential, as defined by our [Resource and Scoping Study announcement of April 2013](#). Please click the link to view the study.



Since this study, Enova has refined this work by identifying operational improvements and technological advances to benefit the project. Based on expert resource advice, increased drill coverage is needed for an updated resource to comply with JORC 2012 reporting requirements. In 2019, a 139-hole air-core drilling programme, totaling 3,680 lineal metres was completed at Cattle Creek. Work focused on delineating orebodies within an area of 10 sq.km. This drilling intersected concentrations of minerals below the alluvial coverage which are of economic interest. Our objective is to establish Cattle Creek as our flagship project, as a template for other near-by projects or expansion opportunities within Charley Creek. Cattle Creek is just one of several areas within the Charley Creek alluvial outflow area. The project site plan below illustrates the breadth of areas previously reported as resources at Charley Creek in 2013 (coloured pink) in comparison to our more recent drilling at Cattle Creek.



The 2019 drilling provides a much higher resolution of information, as a result identifying several new domains of mineralization (in alluvial and weathered in-situ rock types) with concentrations of rare earths, scandium, aluminum and other industrial metals. Using samples from the drilling, extensive metallurgical laboratory test-work was undertaken during 2020/2021 to investigate methods of metal extraction. Two industry standard process techniques were investigated appropriate to each type of mineralisation:

1. size beneficiation of alluvial sands followed by gravity separation for heavy mineral concentration, and
2. size beneficiation of the weathered rock/clay, below the alluvial coverage, followed by acid leach.

Our project concept has evolved from using gravity separation (spiral separators) targeting lower value rare earth minerals concentrates, such as monazite/xenotime to also extracting higher value processed rare earth products and other metals below the alluvium horizon. In 2021, Enova established beneficiation and leaching techniques for the extraction of rare earth, scandium and other metal by-products. In 2022, Enova will finalise both the alluvial and leach process streams, by using further large scale laboratory tests to validate earlier tests which will allow a commercial process to be defined. Our targeted final products are high-purity rare earth oxide product groups, scandium oxide and alumina (HPA). Several other industrial mineral by-products which may also be recoverable but at this stage it not the focus of our project model.

At the completion of this treatment process technical work, Enova will be able to complete the Reasonable Prospects of Eventual Economic Extraction (RPEEE) as required for JORC 2012 compliant resource reporting.

Disclaimer

This ASX announcement (Announcement) has been prepared by Enova Mining Limited (“Enova” or “the Company”). It should not be considered as an offer or invitation to subscribe for or purchase any securities in the Company or as an inducement to make an offer or invitation with respect to those securities. No agreement to subscribe for securities in the Company will be entered into on the basis of this Announcement.

This Announcement contains summary information about Enova, its subsidiaries, and their activities, which is current as at the date of this Announcement. The information in this Announcement is of a general nature and does not purport to be complete nor does it contain all the information which a prospective investor may require in evaluating a possible investment in Enova.

By its very nature exploration for minerals is a high-risk business and is not suitable for certain investors. Enova’s securities are speculative. Potential investors should consult their stockbroker or financial advisor. There are many risks, both specific to Enova and of a general nature which may affect the future operating and financial performance of Enova and the value of an investment in Enova including but not limited to economic conditions, stock market fluctuations, commodity price movements, regional infrastructure constraints, timing of approvals from relevant authorities, regulatory risks, operational risks and reliance on key personnel.

Certain statements contained in this announcement, including information as to the future financial or operating performance of Enova and its projects, are forward-looking statements that: may include, among other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, recovery costs and results, capital expenditures, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions; are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Enova, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies; and, involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements.

Enova disclaims any intent or obligation to update publicly any forward-looking statements, whether because of new information, future events, or results or otherwise. The words ‘believe’, ‘expect’, ‘anticipate’, ‘indicate’, ‘contemplate’, ‘target’, ‘plan’, ‘intends’, ‘continue’, ‘budget’, ‘estimate’, ‘may’, ‘will’, ‘schedule’ and similar expressions identify forward-looking statements. All forward-looking statements made in this announcement are qualified by the foregoing cautionary statements. Investors are cautioned that forward-looking statements are not guarantee of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein. No verification: although all reasonable care has been undertaken to ensure that the facts and opinions given in this Announcement are accurate, the information provided in this Announcement has not been independently verified

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Enova Mining Limited	
ABN	Quarter ended ("current quarter")
64 087 595 980	30 June 2022

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (6 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers		
1.2 Payments for		
(a) exploration & evaluation	(15)	(51)
(b) development		
(c) production		
(d) staff costs		
(e) administration and corporate costs	(56)	(72)
1.3 Dividends received (see note 3)		
1.4 Interest received		
1.5 Interest and other costs of finance paid		
1.6 Income taxes paid		
1.7 Government grants and tax incentives		
1.8 Other (GST & Workers Compensation Insurance Refund)	3	5
1.9 Net cash from / (used in) operating activities	(68)	(118)

2. Cash flows from investing activities		
2.1 Payments to acquire or for:		
(a) entities		
(b) tenements		
(c) property, plant and equipment		
(d) exploration & evaluation		
(e) investments		
(f) other non-current assets		

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities		
	(b) tenements		
	(c) property, plant and equipment		
	(d) investments		
	(e) other non-current assets		
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (provide details if material)		
2.6	Net cash from / (used in) investing activities		
3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)		
3.2	Proceeds from issue of convertible debt securities		
3.3	Proceeds from exercise of options		
3.4	Transaction costs related to issues of equity securities or convertible debt securities		
3.5	Proceeds from borrowings	-	100
3.6	Repayment of borrowings		
3.7	Transaction costs related to loans and borrowings		
3.8	Dividends paid		
3.9	Other (provide details if material)		
3.10	Net cash from / (used in) financing activities	-	100
4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	113	63
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(68)	(118)
4.3	Net cash from / (used in) investing activities (item 2.6 above)		
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	100

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held		
4.6	Cash and cash equivalents at end of period	45	45

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	45	113
5.2	Call deposits		
5.3	Bank overdrafts		
5.4	Other (provide details)		
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	45	113

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	NIL
6.2	Aggregate amount of payments to related parties and their associates included in item 2	NIL

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:

8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer:

The Company has reduced its expenditures in support of low treasury. Enova can support its financial commitment, as it expects that it will raise funds to support its proposed technical commitments and operating cashflow. Shareholders EMMCO Sdn. Bhd. (Malaysian incorporated) offer financial support in the interim.

8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer:

The Company is looking to raise funds by way a shareholder participation placement (SPP) plan. Enova has appointed a broker advisor (Fresh Equities) to assist with the process. The SPP is expected in Q3, 2022.

8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer:

Enova has several technical studies to complete which are greater than its current financial capacity. A capital raise is expected in Q3, 2022 which will allow Enova to complete a Resource Statement and de-risk the project. This milestone will allow the company to readily raise funds.

Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.



Date: 25/7/2022

By the Disclosure Committee for the Board of Directors of Enova Mining Limited

Authorised by:
(Name of body or officer authorising release – see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: *Exploration for and Evaluation of Mineral Resources* and AASB 107: *Statement of Cash*

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Flows apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.

3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.