



## ASX ANNOUNCEMENT

17<sup>th</sup> October 2024

### September 2024 QUARTERLY ACTIVITIES REPORT

Great Dirt Resources Ltd (ASX: GR8) ("the Company" or "Great Dirt") provides its Activities Report and Appendix 5B for the quarter ended 30 September 2024 (the Quarter).

#### HIGHLIGHTS

##### **Doherty and Basin Projects (EL9527 - NSW) – ASX Announcement, 1 August 2024.**

- Numerous targets defined by GAIP and Gravity survey completed over Doherty Project.
- Extensive elongate, sub-parallel chargeability anomalies defined.
- GAIP and Gravity targets are supported by geochemical manganese in soil anomalism.
- Several geophysical anomalies associated with historic manganese mines and high grade rock chip trends.
- Newly discovered targets support drilling campaign planned to commence in the coming weeks.

##### **New Tenure granted directly adjacent to Wildcat Resources and Sayona Mining – ASX Announcement, 12 July 2024.**

- Great Dirt has been granted Exploration Licence application E45/6863 in one of the most prominent lithium regions in Western Australia and worldwide.
- E45/6863 is ~43km from Pilbara Minerals (ASX:PLS) Pilgangoora Lithium Project.
- This compliments GR8's expanded exploration portfolio and follows the successful lodgement of two (2) tenement applications, E45/6949 and E45/6950 in the Pilbara mineral field (the "Nullagine Project"). Historical rock chip sample assays at the Nullagine Project have returned up to 45.7% Mn.

## Exploration Summary

### Coincident Geophysical, Soil and Rock Chip Anomalies Define Drilling Targets (1 August 2024)<sup>1</sup>

During the quarter, Great Dirt announced the results of the Gradient Array Induced Polarisation (GAIP) and Gravity geophysical surveys conducted by Fender Geophysics that defined targets at the Doherty Project in NSW.

The targets of particular interest are the chargeability anomalies developed by the GAIP survey directly south of Junior, a known producer of high-grade manganese mineralisation. Chargeability anomalies can indicate the presence of sulphide minerals or other conductive materials often associated with mineralisation. These elongate and sub-parallel chargeability and manganese in soil anomalies appear to truncate against a linear fault-like structure (Figure 1). Economic deposits of manganese elsewhere in Australia form in similar types of settings where manganese is concentrated by secondary remobilisation.

Further confirmation of the validity of these targets are corresponding gravity anomalies adjacent to these possible faults, coincident with GAIP response.

Chargeability anomalies around Neranghi (Figure 1), where high grade grab samples were discovered, support drilling to test the subsurface mineralisation potential.

The Company is encouraged that the strike for the observed manganese mineralisation is broadly coincident with the chargeability.

This survey data has been compiled with other data sets including the geochemical and aerial geophysical surveys to refine drill targets. Drilling is planned for 4<sup>th</sup> quarter, CY 2024.

Three areas were completed by GAIP and gravity (Figures 1 and 2). The GAIP surveys were completed over blocks 1, 2 and 3 which represent the north Junior, Junior and Neranghi areas. The gravity survey was conducted over the Doherty Mine area (block 4) and blocks 2 and 3.

Gradient Array Induced Polarisation (GAIP) measures the electrical properties of subsurface materials with the introduction of a current through a transmitter and measuring the response at receivers once the current has been switched off. It measures both the chargeability and conductivity/resistivity of the ground. Known manganese lenses (e.g., Junior Mine, Figure 1) show a strong chargeability and strong conductivity signature, both represented by hot colours (red/white, Figure 1).

The GAIP survey produced excellent, repeatable data with numerous elongate chargeability anomalies. These GAIP anomalies are coincident with the manganese in soil geochemical anomalies defined by the geochemical surveys completed in previous months. The data produced was clean with currents around 6.5A and a strong signal (>20mV) with highly repeatable decays. Three readings were taken at each station to ensure good data quality.

The Gravity survey was completed after the GAIP survey and gravity highs are often coincident with areas of geochemical and or chargeability anomalies.

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<sup>1</sup> GR8 ASX Announcement 01/08/2024: [Coincident Geophysical, Soil and Rock Chip Anomalies Define Targets](#)



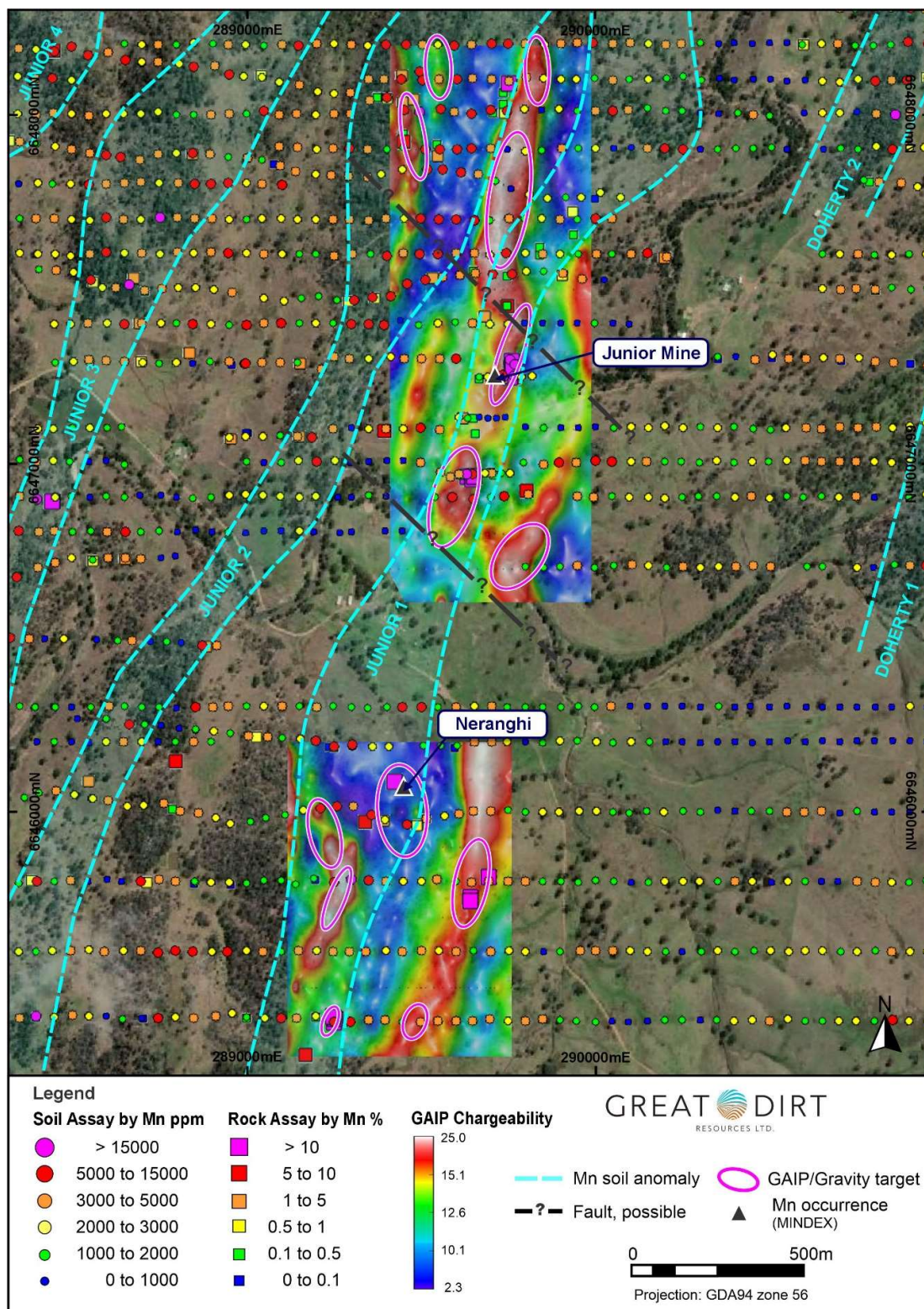


Figure 1: The chargeability survey image over satellite imagery, GAIP and Gravity Targets are shown with geochemical soil and rock chip samples (hot colours red/white)



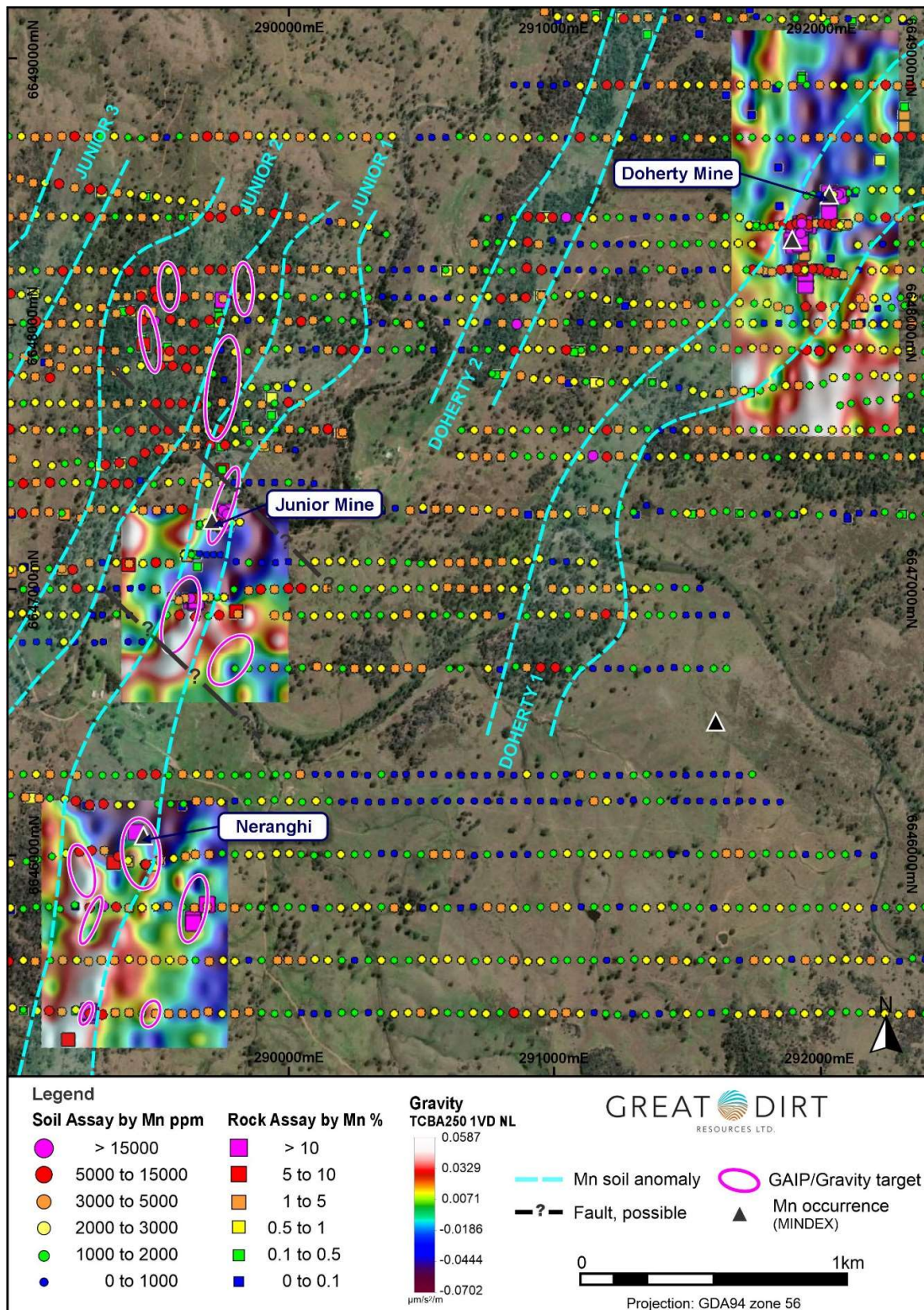


Figure 2: The gravity 1vd survey image over satellite imagery, GAIP and Gravity Targets are shown with geochemical soil and rock chip samples (hot colours red/white).

**Great Dirt has been granted Exploration Licence E45/6863 in one of the most prominent lithium regions in Western Australia and worldwide (12 July 2024)<sup>2</sup>**

The Company has been granted application E45/6863 after winning its ballot application. E45/6863 covers ~67.5km<sup>2</sup> and is directly adjacent to tenure held by Wildcat Resources (ASX: WC8) and Sayona Mining (ASX: SYA), in the Pilbara region of Western Australia.

E45/6863 is in one of the most prominent lithium regions in Western Australia, and worldwide, being approximately 43km from Pilbara Minerals (ASX: PLS) Pilgangoora Lithium Project.

The Company continues to search for nominal cost asset acquisitions which are close to tier one assets, across a range of commodities, with a focus on battery minerals.

Great Dirt's assets now include:

**Manganese:**

- The Company's flagship asset, the Doherty and Basin Projects, contained within EL9527, Northern New South Wales with multiple drill targets defined, drilling contract signed and drilling to commence in late October to early November.
- The Nullagine Project, tenement applications E45/6949 and E45/6950, approximately 50km northeast of Consolidated Mineral's Woodie Woodie manganese mine in the East Pilbara region of Western Australia.

**Lithium:**

- E45/6863, directly adjacent to Wildcat Resources (ASX: WC8) and Sayona Mining (ASX: SYA), in the Pilbara region of Western Australia.

**About the Flagship Doherty Project, NSW**

Comprehensive soil and rock chip sampling has confirmed the extension of the Junior Manganese targets to both the north and south at EL9527, NSW. Field investigation of geophysical targets resulted in the discovery of massive manganese mineralisation south of Neranghi, with assays returning up to 50.3% Mn. High-grade Mn was discovered in both outcrops and floaters and traced for over 650 metres northeast to southwest. Confirmation of several manganese (Mn) anomalies extending over 3.5km.

**Drill targets defined on Coincident Geophysical, Soil and Rock Chip Anomalies<sup>3</sup>**

There is significant potential for important new discoveries. Multiple known surface manganese oxide deposits are present across two large projects areas (Basin Project and Doherty Project) within 168km<sup>2</sup> EL9527. Additionally, it must be assumed that some blind deposits that have no surface expression have until now gone undiscovered. The combination of the known and unknown deposits represents a large exploration target when considering the sheer expansive size of prospective geological units that could contain them. The Doherty and Basin Projects have >10km and >8km prospective strike respectively. GR8's proposed exploration concept is that these high-

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<sup>2</sup> GR8 ASX Announcement 12/07/2024: [New tenure granted directly adjacent Wildcat Resources and Sayona Mining](#)

<sup>3</sup> GR8 ASX Announcement 1/08/2024: [Coincident Geophysical, Soil and Rock Chip Anomalies Define Drilling Targets](#)



grade surficial deposits are not the supergene expression of an underlying manganese silicate deposit but are actually formed from primary exhalative stratiform manganese oxide deposits. This concept dramatically increases the size of the potential targets from discrete, to district scale deposits. The volcanogenic-exhalative stratiform manganese deposits within EL9527 are interpreted to have formed proximal to the orifices of submarine hot spring systems.

EL9527 represents a large, fertile area for district-scale volcanogenic-exhalative stratiform manganese oxide deposits, that potentially underlie and surround the numerous known occurrences of manganese oxide deposits. The potential exploration target is multiple, shallow high-grade manganese oxide deposits that include some over several hundred metres long. The district scale opportunity is that primary exhalative stratiform manganese oxide deposits occur more expansively. A potential modern-day analogue is the Clarion Clipperton zone on the Northern Pacific seafloor that extends over thousands of square kilometres and contains extensive deposits of seafloor manganese nodules and crusts. A primary exhalative stratiform manganese oxide contained within one or more stratigraphic units on a district or basin wide scale at present is more difficult to find based on evidence in past mining or exploration data due to a lack of recent or even systematic exploration. GR8 is currently undertaking a range of modern exploration techniques to test exploration concepts.

Recent multi-element assays of samples collected by Great Dirt's field team confirm the high-grade manganese oxide has clear chemical affinities with submarine volcanic-sedimentary exhalative Mn deposits. Particularly in view of the high Mn/Fe ratio and anomalous concentrations of Ba, Sr, Co, Cu, As and W that are signature characteristics of deep marine fumarolic modern day manganese deposits. This strongly implies a submarine volcanic exhalative environment of deposition. The manganese deposits within EL9527 exhibit the characteristics of hydrothermal origin deposits that can occur in multiple, strata bound, stacked lenses.

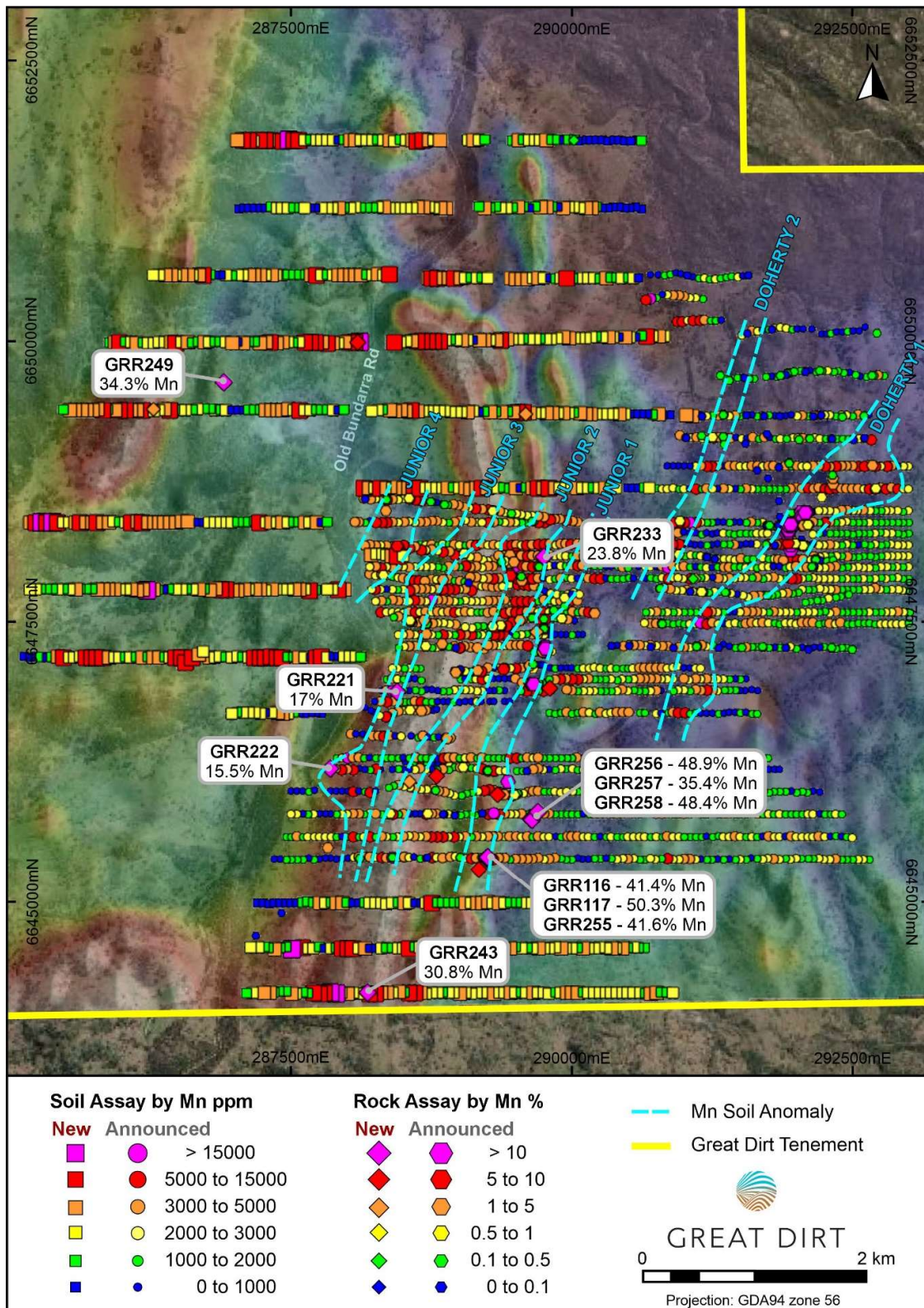


Figure 3: Junior and Doherty areas showing coherent manganese soil anomaly trends and newly discovered rock samples with high-grade Mn overlaid on aerial magnetic image over satellite image background.<sup>4</sup>

<sup>4</sup> GR8 ASX Announcement 24/06/2024: [New High-Grade 50.3% Manganese at Doherty Project, NSW](#)

## CORPORATE

The Company's Quarterly Cashflow Report (Appendix 5B) follows this activities report. The Company had \$3.08 million in cash at 30 September 2024. Cash outflows for the Quarter were in line with management expectations. Great Dirt is adequately funded to continue its current activities and will continue to demonstrate appropriate fiscal management.

## MATERIAL EVENTS SUBSEQUENT TO THE END OF QUARTER

Drilling approval was granted by the NSW Resource Regulator on 1 October 2024.

## GUIDANCE NOTE 23 DISCLOSURES

### Details of mining exploration activities

Details of exploration activities during the quarter are set out above.

### Details of mining production and development activities

No production and development activities were undertaken during the quarter.

### Details of tenement activities

The tenement schedule included below shows all holdings and any change for the Company and its subsidiaries.

### Details of related party payments

The aggregate amount of payments to related parties and their associates included in the current quarter cash flows from operating activities was \$93,000, comprising director fees and remuneration (inclusive of superannuation).



## FINANCE AND USE OF FUNDS

Pursuant to ASX listing rule 5.3.4, the Company provides a comparison of its actual expenditure against the estimated expenditure on items set out in section 2.6 of the Company's Prospectus.

Use of Funds	Funds allocated pursuant to Prospectus (8 Quarters) \$	Actual cash expenditure to the quarter ended 30 2024 (Q4) * \$	Balance Remaining \$
Land access and environmental	300,000	108,384	191,616
Exploration on the Projects	2,900,000	1,058,145	1,841,855
Expenses of the Offers	264,444	260,622	3,822
Capital raising fee	300,000	300,000	-
Working capital	1,528,073	649,748	878,325
<b>Total</b>	<b>5,292,517</b>	<b>2,376,899</b>	<b>2,915,618</b>

## TENEMENT SCHEDULE (AS AT 30 SEPTEMBER 2024)

Details of the Tenements are set out below:

Tenement	Area (units)	Grant Date	Expiry Date
EL9527	56	8 February 2023	8 February 2026
E45/6949	68	Pending - Tenement held by Great Dirt Pty Ltd	Pending – Tenement held by Great Dirt Pty Ltd
E45/6950	29	Pending – Tenement held by Great Dirt Pty Ltd	Pending – Tenement held by Great Dirt Pty Ltd
E45/6863	21	Pending – Tenement held by Great Dirt Pty Ltd	Pending – Tenement held by Great Dirt Pty Ltd

Authorised for release to the ASX by the Board of Great Dirt Resources LTD.

For further information, please visit or contact:



[www.greatdirt.com.au](http://www.greatdirt.com.au)



[info@greatdirt.com.au](mailto:info@greatdirt.com.au)

## About Great Dirt Resources Ltd

Great Dirt's **Doherty and Basin Projects** are contained within EL 9527, located near the Barraba township, in northern NSW. These projects are prospective for high-grade manganese, with both projects having produced metallurgical and battery grade manganese historically. The Doherty Project comprises the old Doherty and Junior Mines, plus other workings and occurrences of manganese. The Basin Project contains several smaller manganese workings.

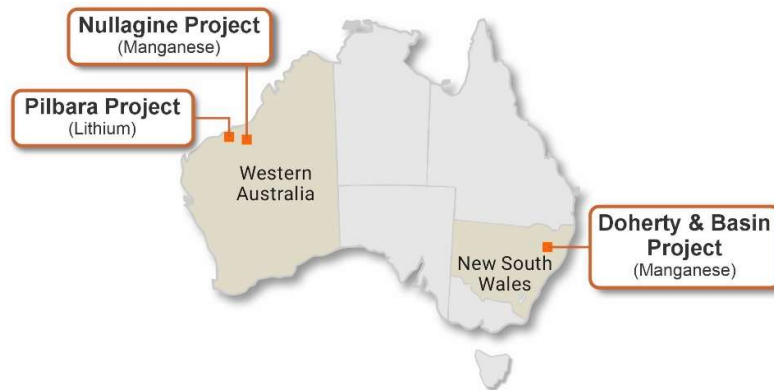
From 1941, for two decades, mines of the Doherty Project produced around 9,000 tonnes of battery and metallurgical grade manganese, both from opencut and underground operations. The battery grade ore was delivered to Eveready in Sydney for use in dry cell batteries, the metallurgical grade ore was purchased by BHP for use in steel production.

Great Dirt believes that historical work, while having discovered manganese, is unlikely to have located all sources in the area. Floaters, large rock fragments in the soil profile, of high-grade manganese ore reported outside known mine areas are a direct indication of unidentified manganese mineralisation. Additionally, notes on the mineral occurrences of the area refer to extensions and deposits along strike that were not mined.

A program of modern, systematic, geochemical and geophysical surveys will test known targets and their extents and could locate previously unrecognised blind deposits. Subsurface geophysical methods and drilling is likely to yield further targets that could be developed into projects to produce metallurgical and battery grade manganese.

Great Dirt has significantly expanded its manganese exploration portfolio following the acquisition of two tenements (E45/6949 and E45/6950 – the '**Nullagine Project**'), ~ 50km northeast of Consolidated Minerals Woodie Woodie manganese mine, in the Shire of East Pilbara, Western Australia.

Following a successful ballot application, Great Dirt has expanded its WA portfolio to include a position in one of the most prominent lithium regions in Western Australia and worldwide. Tenement E45/6863 – '**Pilbara Project**' is located approximately 43km from Pilbara Minerals (ASX:PLS), Pilgangoora Lithium Project, one of the largest hard-rock lithium deposits in the world.



## Competent Person's Statement

Information in this announcement that relates to exploration results is based on and fairly represents information and supporting documentation prepared and compiled by Mr Michael Leu, who is a Member of the Australian Institute of Geoscientists and a Member of the Australasian Institute of Mining and Metallurgy. Mr Leu is the geological consultant for Great Dirt Resources Limited. Mr Michael Leu has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person, as defined in the 2012 Edition of the Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves. Mr Michael Leu consents to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

## No New Information

Except where explicitly stated, this announcement contains references to prior exploration results, all of which have been cross-referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements.

## Forward Looking Statement

This report contains forward looking statements concerning the projects owned by Great Dirt Resources Ltd. If applicable, statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward-looking statements as a result of a variety of risks, uncertainties and other factors. Forward looking statements are based on management's beliefs, opinions and estimates as of the dates the forward looking statements are made and no obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.



## Appendix 5B

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

Name of entity

Great Dirt Resources Ltd

ABN

44 670 840 301

Quarter ended ("current quarter")

30 September 2024

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
<b>1.</b>	<b>Cash flows from operating activities</b>		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation (if expensed)	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(37)	(37)
	(e) administration and corporate costs	(107)	(107)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	20	20
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (rental income)	1	1
<b>1.9</b>	<b>Net cash from / (used in) operating activities</b>	<b>(123)</b>	<b>(123)</b>

<b>2.</b>	<b>Cash flows from investing activities</b>		
2.1	Payments to acquire:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	(3)	(3)
	(d) exploration & evaluation	(261)	(261)
	(e) investments	-	-
	(f) other non-current assets	-	-

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 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)	-	-
<b>2.6</b>	<b>Net cash from / (used in) investing activities</b>	<b>(264)</b>	<b>(264)</b>

<b>3.</b>	<b>Cash flows from financing activities</b>		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	34	34
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	(6)	(6)
3.5	Proceeds from borrowings	-	-
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)	-	-
<b>3.10</b>	<b>Net cash from / (used in) financing activities</b>	<b>28</b>	<b>28</b>

<b>4.</b>	<b>Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1	Cash and cash equivalents at beginning of period	3,443	3,443
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(123)	(123)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(264)	(264)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	28	28



Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	<b>Cash and cash equivalents at end of period</b>	<b>3,084</b>	<b>3,084</b>

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	144	53
5.2	Call deposits	2,940	3,390
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>3,084</b>	<b>3,443</b>

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	37
6.2	Aggregate amount of payments to related parties and their associates included in item 2	56
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		

Payments included in item 6.1 and 6.2 are related to fees and remuneration (inclusive of superannuation) paid to Directors.

<b>7.</b>	<b>Financing facilities</b> <i>Note: the term “facility” includes all forms of financing arrangements available to the entity.</i> <i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	<b>Total facility amount at quarter end \$A’000</b>	<b>Amount drawn at quarter end \$A’000</b>
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other	-	-
7.4	<b>Total financing facilities</b>	-	-
7.5	<b>Unused financing facilities available at quarter end</b>	-	
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		
* N/A			

<b>8.</b>	<b>Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1	Net cash from / (used in) operating activities (Item 1.9)	(123)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(261)
8.3	Total relevant outgoings (Item 8.1 + Item 8.2)	(384)
8.4	Cash and cash equivalents at quarter end (Item 4.6)	3,084
8.5	Unused finance facilities available at quarter end (Item 7.5)	-
8.6	Total available funding (Item 8.4 + Item 8.5)	3,084
8.7	<b>Estimated quarters of funding available (Item 8.6 divided by Item 8.3)</b>	8.03
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>		
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?	
	N/A	
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?	
	N/A	
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?	
	N/A	



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: 17 October 2024

Authorised by: "By the Board"

(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 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.== == == == ==