

Mining Management Plan Exploration Activities

Northern Territory of Australia – Mining Management Act 2001

It is recommended that the Mining Management Plan is completed in conjunction with the user guide, available on the [Northern Territory Government website](#).

Section 1 – Project Details

Project Name Provide new or existing project name	Tanami Exploration Project
Authorisation Number Insert existing authorisation number, where applicable	0458-04
Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Newmont Tanami Pty Ltd
Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	The Newmont Tanami Operations (NTO) is located approximately 550 km north west of Alice Springs via the Tanami Road.
Target Commodity Details Include target commodities (i.e. gold, copper etc.)	Gold
Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	Exploration will be conducted in 2020 with a further emphasis on the development of the Oberon prospect area of interest (MLA32322).
Proposed Schedule Include start and finish dates of ground disturbing work	Exploration activities will occur between January and December, but mainly between March and November.

Mining Interest and Land Ownership

List the mining interests (titles), the title holder name/s, the title expiry date and the Property name/Land holder (e.g. pastoralist or Aboriginal land trust) for each title.

Title Number	Title Holder	Expiry Date	Property Name or Land Holder
EL2366	Newmont Tanami Pty Ltd	31/12/2020	Central Desert Aboriginal Land Trust
EL2367	Newmont Tanami Pty Ltd	31/12/2020	Central Desert Aboriginal Land Trust
EL4529	Newmont Tanami Pty Ltd	31/12/2020	Central Desert Aboriginal Land Trust
EL8077	Newmont Tanami Pty Ltd	02/01/2022	Mangkururpa Aboriginal Land Trust
EL8912	Newmont Tanami Pty Ltd	07/09/2021	Central Desert Aboriginal Land Trust
EL9737	Newmont Tanami Pty Ltd	19/08/2021	Central Desert Aboriginal Land Trust
EL9996	Newmont Tanami Pty Ltd	19/08/2021	Central Desert Aboriginal Land Trust
EL10138	Newmont Tanami Pty Ltd	05/06/2021	Mangkururpa Aboriginal Land Trust
EL22170	Newmont Tanami Pty Ltd	19/08/2021	Central Desert Aboriginal Land Trust
EL22900	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL22933	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL23308	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL23658	Newmont Tanami Pty Ltd	31/03/2021	Central Desert Aboriginal Land Trust
EL23660	Newmont Tanami Pty Ltd	31/03/2021	Central Desert Aboriginal Land Trust
EL23662	Newmont Tanami Pty Ltd	31/03/2021	Central Desert Aboriginal Land Trust/ Mangkururpa Aboriginal Land Trust
EL23744	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL23833	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24864	Newmont Tanami Pty Ltd	30/12/2020	Mangkururpa Aboriginal Land Trust
EL24865	Newmont Tanami Pty Ltd	30/12/2020	Mangkururpa Aboriginal Land Trust
EL24886	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24888	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust

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Title Number	Title Holder	Expiry Date	Property Name or Land Holder
EL24889	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24890	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24895	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24896	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24973	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL24974	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL25012	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust/ Mangkururpa Aboriginal Land Trust
EL25013	Newmont Tanami Pty Ltd	30/12/2020	Central Desert Aboriginal Land Trust
EL26590	Prodigy Gold NL*	13/12/2020	Central Desert Aboriginal Land Trust
EL30806	Newmont Tanami Pty Ltd	31/12/2020	Central Desert Aboriginal Land Trust

* EL26590 included for the purpose of traversing track only for 2DSS and with permission from Prodigy Gold NL.

Organisational Structure

Position Title	Name
Regional Senior Vice President – Australia	Alex Bates
General Manager	Vince De Carolis
Exploration Manager (Regional)	Philippa Sivwright
Principal Exploration Geologist (Regional)	Alan Hawkins
Mine Exploration Superintendent	Leon Griesel
Sustainability & External Relations Manager	Javier Brodalka

Section 2 – Operator Self-Assessment of the Environmental Risk

The purpose of this self-assessment is to ensure Operators complete a project risk assessment of potential environmental impacts and are aware of other legislative obligations from various Agencies. As a result of this self-assessment, further information may be required in the form of a management plan to enable full assessment of the MMP. If you have any queries please contact a Mining Officer prior to submitting the MMP. Useful resources to assist with this self-assessment are provided in the User Guide.

Environmental considerations

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	Yes	It is likely a threatened species will show up in most reports. Therefore, the Operator must undertake a likelihood analysis, which looks at the likelihood of the species or its habitat occurring at or near the site. If the analysis results in a high likelihood, then a "Significant Impact Assessment" should be undertaken, which may require consultation with the DENR – Flora and Fauna Division. The DENR may recommend a Biodiversity Management Plan – this must be developed and attached to the MMP.	Biodiversity Management Plan
Step 2: Are there any known declared weeds within the proposed work area?	No	Under the <i>Weeds Management Act</i> declared weeds are required to be eliminated or controlled by the owner and occupier of land. Seek advice from DENR – Weeds Management to ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).	N/A
Step 3: Will you be using water from bores or other sources for the operation?	Yes	<i>Note the Government is proposing to amend the exemption of water licencing under the Water Act for mining activities, including exploration. This section will be updated in light of any changes in the future.</i>	N/A (water extraction is <15 L/sec).

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
Step 4: Is your project likely to have a significant impact on the environment?	No	Refer to the NTEPA Environmental Factors and Objectives Guideline.
Step 5: Are there Aboriginal sacred sites in the Project area?	Yes	<p>Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act</i> and administered by the Aboriginal Areas Protection Authority (AAPA). It is recommended that advice be sought from AAPA in relation to sacred site protection.</p> <p>NTO also has cultural heritage obligations under the <i>Aboriginal Land Rights Act</i>, administered by the Central Land Council (CLC) on behalf of traditional owners.</p>
Step 6: Are there archaeological and heritage sites in the Project area?	No	<p>Heritage and archaeology sites are protected in the NT. NT Heritage Branch of the Department of Natural Resources and Environment (DENR) administers the <i>Heritage Act</i>. Seek advice in relation to protection of heritage and archaeological sites.</p> <p>NTO operates under a Consolidated Mining Agreement, Deed of Exploration and Exploration Works Program, and undertakes Work Area Clearances in collaboration with the CLC (Minerals & Energy and Anthropology Units) and traditional owners to identify and protect heritage and archaeological sites. CLC issues NTO with a Sacred Site Clearance Certificate (SSCC) identifying restricted work areas and exclusion zones. NTOs assurance process involves field verifications and issuing of Site Disturbance Permits (SDP) prior to undertaking works.</p>

Section 3 – Amendments

As per Section 41(3) of the *Mining Management Act 2001*, an MMP reviewed and amended under Section 41(1)(a) is to clearly identify amendments made.

Section	Amendment
Section 4 – Activities Proposed	Updated to reflect 2020 exploration work program.
Section 5 – Previous Disturbances	Updated to reflect previous disturbances.
Section 6 – Environmental Management	Provided justification/alternate strategies for clearing and waste management.
Costing of Closure Activities	Updated security calculation to reflect 2020 work program.

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Section 4 – Activities Proposed

¹Drilling type relates to diamond core drilling, which may be substituted to RC drilling if an adequate water supply cannot be sourced.

²Note that EL23662 does not include Oberon drill metrics carried out within the Oberon Area of Interest (MLA32322).

³Camps include caravans and tents. Oberon camp was detailed and approved in amendment MMP in 2019.

Mining Interest	EL2367	EL23662 ²	EL2366	EL30806	EL23660	EL10138	EL22170	EL22933	EL23308	EL23658	EL23744	EL24886
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG/2D seismic survey	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of proposed surface samples	1,500	1,000	1,000	1,000	500	1,000	100	30	60	1,000	0	30
Length of historic tracks to be re-established (length x width m)	15,000 x 4	20,000 x 4	1,500 x 4	20,000 x 4	10,000 x 4	10,000 x 4	0	0	0	12,600 x 4	0	0
Length of new tracks to be established (length x width m)	15,000 x 4	15,000 x 4	8,500 x 4	8,500 x 4	10,000 x 4	10,000 x 4	4,000 x 4	10,000 x 4	0	4,000 x 4	4,000 x 4	4,000 x 4
Number of holes to be drilled ¹	30	30	10	10	20	2	0	2	0	10	10	10
Maximum depth of holes (m)	1,000	1,000	1,000	1,000	1,000	1,000	0	1,000	0	1,000	1,000	1,000
Total metres to be drilled (m)	25,000	25,000	10,000	10,000	20,000	2,000	0	2,000	0	10,000	5,000	5,000
Is drilling likely to encounter groundwater? (Y, N, unsure)	Unsure	Y	Unsure	Unsure	Unsure	Unsure	N/A	Unsure	N/A	Unsure	Unsure	Unsure
Number of drill pads to be cleared (40m x 40m)	30	30	10	10	20	2	0	2	0	10	10	10
Total area of drill pads to be cleared (ha)	4.8	4.8	1.6	1.6	3.2	0.32	0	0.32	0	1.6	1.6	1.6
Number of camp pads ³ to be cleared (40m x 40m)	0	2	1	1	1	1	0	1	0	1	0	0
Total camp pad area to be disturbed (ha)	0	0.32	0.16	0.16	0.16	0.16	0	0.16	0	0.16	0	0
Number of sumps to be cleared (volume m ³) (3m x 3m x 2m)	60 (1,080)	60 (1,080)	20 (360)	20 (360)	40 (720)	4 (72)	0	4 (72)	0	20 (360)	20 (360)	20 (360)
Total track area to be disturbed (hectares)	12	14	4	11.4	8	8	1.6	4	0	6.64	1.6	1.6
Drill holes to be capped / plugged	30	30	10	10	20	2	0	2	0	10	10	10
Total area disturbed proposed (ha)	16.8	19.12	5.76	13.16	11.36	8.48	1.6	4.48	0	8.4	3.2	3.2

Section 4 – Activities Proposed (Cont'd)

Mining Interest	EL24888	EL24889	EL24890	EL24895	EL24896	EL24973	EL24974	EL25012	EL4529	EL8077	EL8912	EL9737	EL9996
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG/2D seismic survey	DSG	DSG	DSG	DSG	DSG	DSG	DSG/2D seismic survey	DSG
Number of proposed surface samples	20	10	10	100	120	120	50	15	10	100	400	40	40
Length of historic tracks to be re-established (length x width m)	0	0	0	0	0	0	0	0	0	0	7,200 x 4	0	0
Length of new tracks to be established (length x width m)	2,000 x 4	0	0	10,000 x 4	21,100 x 4	14,000 x 4	5,700 x 4	0	2,000 x 4	5,000 x 4	24,600 x 4	10,000 x 4	0
Number of holes to be drilled	2	0	0	0	0	0	0	0	24	0	0	2	0
Maximum depth of holes (m)	1,000	0	0	0	0	0	0	0	300	0	0	1,000	0
Total metres to be drilled (m)	2,000	0	0	0	0	0	0	0	7,200	0	0	2,000	0
Is drilling likely to encounter groundwater? (Y, N, unsure)	Unsure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Unsure	N/A	N/A	Unsure	N/A
Number of drill pads to be cleared (40m x 40m)	2	0	0	0	0	0	0	0	24	0	0	2	0
Total area of drill pads to be cleared (ha)	0.32	0	0	0	0	0	0	0	3.84	0	0	0.32	0
Number of camp pads to be cleared (40m x 40m)	1	0	0	0	0	0	0	0	0	0	0	1	0
Total camp pad area to be disturbed (hectares)	0.16	0	0	0	0	0	0	0	0	0	0	0.16	0
Number of sumps to be cleared (volume m ³) (3m x 3m x 2m)	4 (72)	0	0	0	0	0	0	0	24 (432)	0	0	4 (72)	0
Total track area to be disturbed (hectares)	0.8	0	0	4	8.44	5.6	2.28	0	0.8	2	12.72	4	0
Drill holes to be capped / plugged	2	0	0	0	0	0	0	0	24	0	0	2	0
Total area disturbed proposed (ha)	1.28	0	0	4	8.44	5.6	2.28	0	4.64	2	12.72	4.48	0

Section 4 – Activities Proposed (Cont'd)

Mining Interest	MLA32322 (EL23662)	EL26590
Target commodity	Gold	Gold
Type of surface sampling	DSG/2D seismic survey	DSG/2D seismic survey
Number of proposed surface samples	0	0
Length of historic tracks to be re-established (length x width m)	15,000 x 4	0
Length of new tracks to be established (length x width m)	10,000 x 4	4,000 x 4
Number of holes to be drilled	150	0
Maximum depth of holes (m)	1,800	0
Total metres to be drilled (m)	80,000	0
Is drilling likely to encounter groundwater? (Y, N, unsure)	Y	N/A
Number of drill pads to be cleared (40m x 40m)	150	0
Total area of drill pads to be cleared (ha)	24	0
Number of camp pads to be cleared	0	0
Total camp pad area to be disturbed (hectares)	0	0
Number of sumps to be cleared (volume m ³) (3m x 3m x 2m)	450 (8,100)	0
Total track area to be disturbed (hectares)	10	1.6
Drill holes to be capped / plugged	150	0
Total area disturbed proposed (ha)	34	1.6

Section 5 – Previous Disturbance (for existing Authorisations only)

¹Note that EL23662 does not include Oberon drilling metrics carried out within the Oberon Area of Interest (MLA32322).

²Total Proposed drill holes includes 85 within the initial 2019 MMP, a further 75 in the March amendment and an additional 68 in the July/September amendments.

³Calculation for EL2367 tracks are 93.5km 3D Seismic tracks (Refer to Appendix 3), 0.35km of new track for Ophelia drilling and 1.8km of re-opened track for Ophelia drilling.

Mining Interest	EL2367		EL23662 ¹		MLA 32322 (EL23662)		EL2366	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	1,000	1,415	1,000	375	0	0	1,000	0
Length of historic tracks re-established (length x width m)	15,000 x 4	1,800 x 4	20,000 x 4	3,700 x 4	Inc. in EL23662	3,600 x 4	1,500 x 4	0
Length of new tracks established (length x width m)	15,000 x 4	93,850 ³ x 4	15,000 x 4	2,180 x 4	Inc. in EL23662	3,400 x 4	8,500 x 4	1,050 x 4
Number of holes drilled	30	1 (Ophelia)	228 ²	5 (Golconda 3 & Hydra 2)	Inc. in EL23662	85	10	1 (Hordern Hills)
Maximum depth of holes (m)	1,000	600	1,500	462	1,500	1,200	1,000	241.7
Total metres drilled (m)	25,000	308.6	70,000	1,945.5	Inc. in EL23662	38,575.6	10,000	241.7
Drill holes to be capped / plugged	30	1	228	5	Inc. in EL23662	85	10	1
Was groundwater encountered? (Y or N)	N/A	Y	N/A	Y	N/A	Y	N/A	Y
Number of drill pads cleared (40 x 40m)	30	1	228 ²	5	Inc. in EL23662	106	10	2
Total area of drill pads cleared (ha)	4.8	0.16	36.48	0.8	Inc. in EL23662	16.96	1.6	0.32
Total area of drill pads remediated (ha)	4.8	0	36.48	0	0	0	1.6	0
Number of camp pads cleared	0	0	2	0	0	0	1	0
Total camp pad area cleared (hectares)	0	0	0.32	0	0	0	0.16	0
Total camp areas remediated (ha)	0	0	0.32	0	0	0	0.16	0
Number of sumps cleared (volume m ³) (3m x 3m x 2m)	60 (1,080)	2 (36)	456 (8,208)	10 (180)	Inc. in EL23662	255 (4,590)	20 (360)	4 (72)
Total track area disturbed (hectares)	12	37.4	14	1.18	Inc. in EL23662	2.8	4	0.4

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Total track area remediated (ha)	12	0	14	0	0	0	4	0
Total area cleared (ha)	16.8	37.56	50.8	1.98	Inc. in EL23662	19.76	5.76	0.72
Total area remediated (ha)	16.8	0	50.8	0	0	0	5.76	0

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Mining Interest	EL23660		EL10138		EL22170		EL22933	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	500	0	600	0	100	61	30	16
Length of historic tracks re-established (length x width m)	10,000 x 4	0	0	0	0	0	0	0
Length of new tracks established (length x width m)	10,000 x 4	0	0	0	4,000 x 4	0	0	0
Number of holes drilled	20	0	0	0	0	0	0	0
Maximum depth of holes (m)	1,000	0	0	0	0	0	0	0
Total metres drilled (m)	20,000	0	0	0	0	0	0	0
Drill holes to be capped / plugged	20	0	0	0	0	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	20	0	0	0	0	0	0	0
Total area of drill pads cleared (ha)	3.2	0	0	0	0	0	0	0
Total area of drill pads remediated (ha)	3.2	0	0	0	0	0	0	0
Number of camp pads cleared	1	0	0	0	0	0	0	0
Total camp pad area cleared (hectares)	0.16	0	0	0	0	0	0	0
Total camp areas remediated (ha)	0.16	0	0	0	0	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	40 (720)	0	0	0	0	0	0	0
Total track area disturbed (hectares)	8	0	0	0	1.6	0	0	0

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Total track area remediated (ha)	8	0	0	0	1.6	0	0	0
Total area cleared (ha)	11.36	0	0	0	1.6	0	0	0
Total area remediated (ha)	11.36	0	0	0	1.6	0	0	0

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Mining Interest	EL23308		EL23658		EL24865		EL24886	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	60	0	250	265	20	2	250	173
Length of historic tracks re-established (length x width m)	0	0	12,600 x 4	4,900 x 4	0	0	0	0
Length of new tracks established (length x width m)	0	0	4,000 x 4	0	0	0	0	0
Number of holes drilled	0	0	10	0	0	0	0	0
Maximum depth of holes (m)	0	0	1,000	0	0	0	0	0
Total metres drilled (m)	0	0	10,000	0	0	0	0	0
Drill holes to be capped / plugged	0	0	10	0	0	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	0	0	10	0	0	0	0	0
Total area of drill pads cleared (ha)	0	0	1.6	0	0	0	0	0
Total area of drill pads remediated (ha)	0	0	1.6	0	0	0	0	0
Number of camp pads cleared	0	0	1	0	0	0	0	0
Total camp pad area cleared (hectares)	0	0	0.16	0	0	0	0	0
Total camp areas remediated (ha)	0	0	0.16	0	0	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	0	0	20 (360)	0	0	0	0	0
Total track area disturbed (hectares)	0	0	6.64	0	0	0	0	0

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Total track area remediated (ha)	0	0	6.64	0	0	0	0	0
Total area cleared (ha)	0	0	8.4	0	0	0	0	0
Total area remediated (ha)	0	0	8.4	0	0	0	0	0

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Mining Interest	EL24888		EL24889		EL24890		EL24895	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	20	38	10	5	10	7	100	68
Length of historic tracks re-established (length x width m)	0	0	0	0	0	0	0	0
Length of new tracks established (length x width m)	2,000 x 4	0	0	0	0	0	10,000 x 4	0
Number of holes drilled	0	0	0	0	0	0	0	0
Maximum depth of holes (m)	0	0	0	0	0	0	0	0
Total metres drilled (m)	0	0	0	0	0	0	0	0
Drill holes to be capped / plugged	0	0	0	0	0	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	0	0	0	0	0	0	0	0
Total area of drill pads cleared (ha)	0	0	0	0	0	0	0	0
Total area of drill pads remediated (ha)	0	0	0	0	0	0	0	0
Number of camp pads cleared	0	0	0	0	0	0	0	0
Total camp pad area cleared (hectares)	0	0	0	0	0	0	0	0
Total camp areas remediated (ha)	0	0	0	0	0	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	0	0	0	0	0	0	0	0
Total track area disturbed (hectares)	0.8	0	0	0	0	0	4	0

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Total track area remediated (ha)	0.8	0	0	0	0	0	4	0
Total area cleared (ha)	0.8	0	0	0	0	0	4	0
Total area remediated (ha)	0.8	0	0	0	0	0	4	0

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Mining Interest	EL24896		EL24973		EL24974		EL25012	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	120	121	120	109	50	40	15	7
Length of historic tracks re-established (length x width m)	0	0	0	0	0	0	0	0
Length of new tracks established (length x width m)	21,100 x 4	0	14,000 x 4	0	5,700 x 4	0	0	0
Number of holes drilled	0	0	0	0	0	0	0	0
Maximum depth of holes (m)	0	0	0	0	0	0	0	0
Total metres drilled (m)	0	0	0	0	0	0	0	0
Drill holes to be capped / plugged	0	0	0	0	0	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	0	0	0	0	0	0	0	0
Total area of drill pads cleared (ha)	0	0	0	0	0	0	0	0
Total area of drill pads remediated (ha)	0	0	0	0	0	0	0	0
Number of camp pads cleared	0	0	0	0	0	0	0	0
Total camp pad area cleared (hectares)	0	0	0	0	0	0	0	0
Total camp areas remediated (ha)	0	0	0	0	0	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	0	0	0	0	0	0	0	0
Total track area disturbed (hectares)	8.44	0	5.6	0	2.28	0	0	0

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Total track area remediated (ha)	8.44	0	5.6	0	2.28	0	0	0
Total area cleared (ha)	8.44	0	5.6	0	2.28	0	0	0
Total area remediated (ha)	8.44	0	5.6	0	2.28	0	0	0

Mining Management Plan Exploration Activities

Mining Interest	EL4529		EL8077		EL8912		EL9737	
	Proposed	Completed	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	10	0	100	74	400	0	40	15
Length of historic tracks re-established (length x width m)	0	0	0	0	7,200 x 4	0	0	0
Length of new tracks established (length x width m)	2,000 x 4	0	0	0	24,600 x 4	0	0	0
Number of holes drilled	24	0	0	0	0	0	0	0
Maximum depth of holes (m)	300	0	0	0	0	0	0	0
Total metres drilled (m)	7,200	0	0	0	0	0	0	0
Drill holes to be capped / plugged	24	0	0	0	0	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	24	0	0	0	0	0	0	0
Total area of drill pads cleared (ha)	3.84	0	0	0	0	0	0	0
Total area of drill pads remediated (ha)	3.84	0	0	0	0	0	0	0
Number of camp pads cleared	0	0	0	0	0	0	0	0
Total camp pad area cleared (hectares)	0	0	0	0	0	0	0	0
Total camp areas remediated (ha)	0	0	0	0	0	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	24 (432)	0	0	0	0	0	0	0
Total track area disturbed (hectares)	0.8	0	0	0	12.72	0	0	0

Mining Management Plan Exploration Activities

Total track area remediated (ha)	0.8	0	0	0	12.72	0	0	0
Total area cleared (ha)	4.64	0	0	0	12.72	0	0	0
Total area remediated (ha)	4.64	0	0	0	12.72	0	0	0

Mining Management Plan Exploration Activities

Mining Interest	EL9996		EL23744		EL30806	
	Proposed	Completed	Proposed	Completed	Proposed	Completed
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold
Type of surface sampling	DSG	DSG	DSG	DSG	DSG	DSG
Number of surface samples taken	40	19	1,000	245	250	313
Length of historic tracks re-established (length x width m)	0	0	20,000 x 4	0	0	0
Length of new tracks established (length x width m)	0	0	8,500 x 4	0	0	0
Number of holes drilled	0	0	10	0	0	0
Maximum depth of holes (m)	0	0	1,000	0	0	0
Total metres drilled (m)	0	0	10,000	0	0	0
Drill holes to be capped / plugged	0	0	10	0	0	0
Was groundwater encountered? (Y or N)	N/A	N/A	N/A	N/A	N/A	N/A
Number of drill pads cleared (40m x 40m)	0	0	10	0	0	0
Total area of drill pads cleared (ha)	0	0	1.6	0	0	0
Total area of drill pads remediated (ha)	0	0	1.6	0	0	0
Number of camp pads cleared	0	0	1	0	0	0
Total camp pad area cleared (hectares)	0	0	0.16	0	0	0
Total camp areas remediated (ha)	0	0	0.16	0	0	0
Number of sumps cleared (volume m³) (3m x 3m x 2m)	0	0	20 (360)	0	0	0
Total track area disturbed (hectares)	0	0	11.4	0	0	0

Mining Management Plan Exploration Activities

Total track area remediated (ha)	0	0	11.4	0	0	0
Total area cleared (ha)	0	0	13.16	0	0	0
Total area remediated (ha)	0	0	13.16	0	0	0

Mining Management Plan Exploration Activities

Section 6 – Environmental Management

By checking these boxes, you are agreeing to implement the following minimum environmental management standards on the project area. Where boxes have been left unchecked, justification is required.

6.1		Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	✓	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	✓	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	✓	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	✓	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for remediation purposes
6.6	✓	All employees and contractors will be trained and inducted in relation to the management of environmental risks in the work area, including weeds, waterways, threatened species, soil erosion, sacred sites and heritage areas
6.7	✓	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	✓	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	✓	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	✓	Drill holes will be securely capped immediately after drilling
6.11	✓	Vehicle hygiene measures will be employed to prevent the introduction and spread of invasive species and pathogens when mobilising vehicles and equipment from one location to another
6.12	✓	Hydrocarbon spills will be minimised using liners and drip trays under machinery, and appropriately sized spill-kits available in the event of a spill
6.13	✓	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	✓	Hydrocarbons will be stored in lined and bunded areas
6.15	✓	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16		Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	✓	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act 2001</i> .

Justification and alternative management measures:

6.1 Blade-up approach is not used; however, topsoil and vegetation is stockpiled and re-spread on rehabilitation of the drill pad.

6.16 Waste is removed and disposed of at the Granites or DBS landfill facilities in accordance with the NTO Waste Management Plan.

Section 7 – Remediation and Closure

By checking these boxes, you are agreeing to implement the following minimum remediation standards on the project area. Where boxes have been left unchecked, justification is required.

7.1	✓	Drill holes plugged below ground level at a minimum depth of 0.4 metres and soil mounded to prevent subsidence, within 6 months of completion of drilling
7.2	✓	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site
7.3	✓	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site
7.4	✓	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain
7.5	✓	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks
7.6	✓	Tracks will be remediated, including pushing in all windrows
7.7	✓	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur
7.8	✓	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party
7.9	✓	Access through watercourses will be removed and banks restored
7.10	✓	No erosion is occurring in disturbed areas, on tracks and in remediated areas
7.11	✓	All excavations backfilled within 6 months of completion of drilling
7.12	✓	All water bores decommissioned unless otherwise agreed in writing by the land holder or appropriate third party. The bore must comply with the Minimum Construction Requirements for Water Bores in Australia and may require permits or licenses under the <i>Water Act</i>
7.13	✓	All rubbish and infrastructure will be removed from site
7.14	✓	Replacement of topsoil and vegetation
7.15	✓	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site
7.16	✓	Monitoring will be undertaken following the wet season or a significant rainfall event

Section 8 – Required Attachments

8.1	✓	Security Calculation Spreadsheet (Appendix 1) and Oberon camp demob costs email
8.2	✓	Biodiversity and Land Management Plan (Appendix 2)
8.3	✓	DPIR approval email for reallocation of tracks for seismic survey (Appendix 3)
8.4	✓	Google Earth KML file of target areas for 2020
8.5	✓	A map of previous and proposed work areas (see figures below)
8.6	✓	Remediation Register (for existing Authorisations) (see below)

Mining Management Plan Exploration Activities

Figure 1 - Tanami Exploration Project 2020 Exploration Tenement Activity

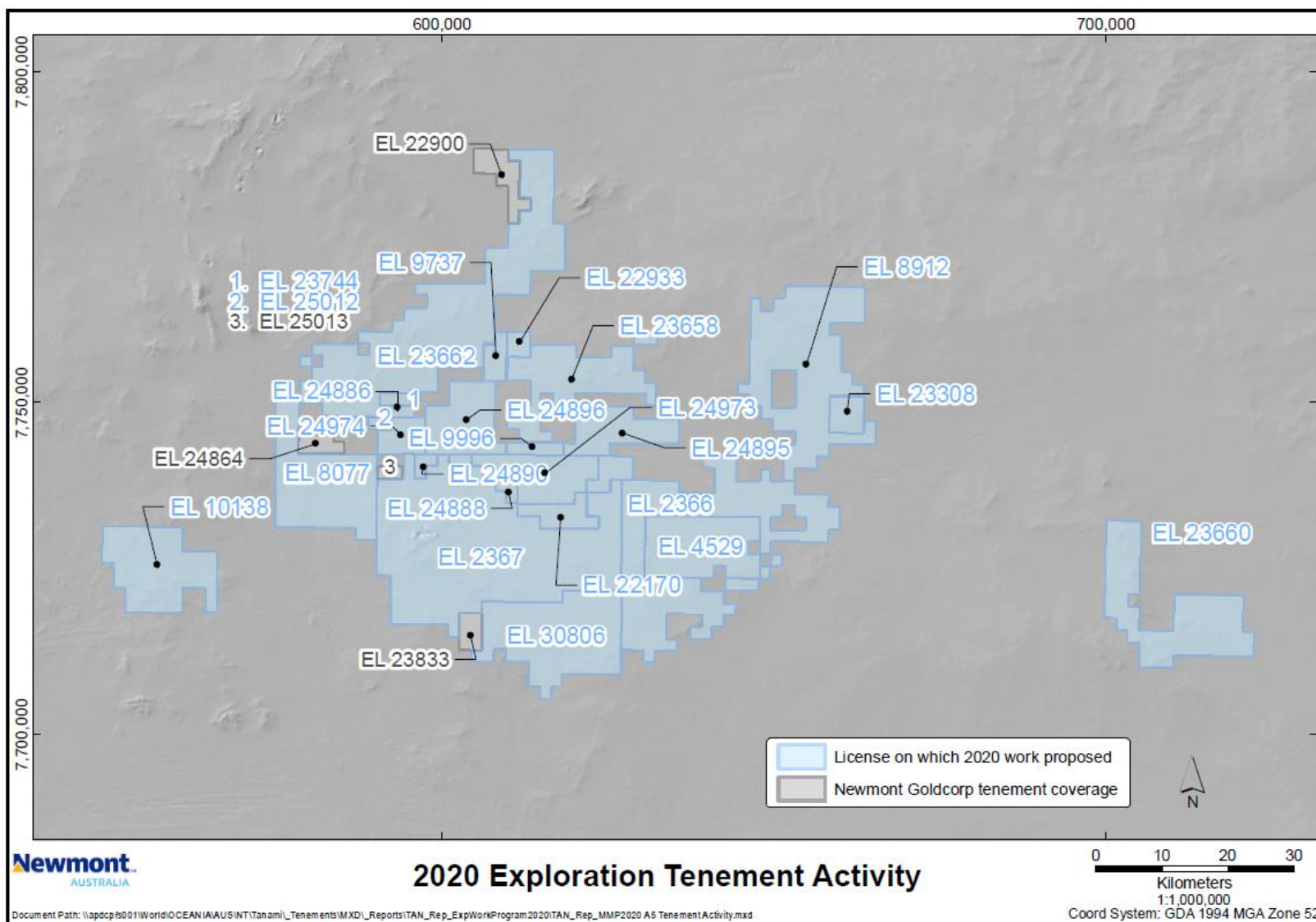


Figure 2 - 2019 Drilling activities showing collar locations, cleared pads, new access tracks and known 2020 proposed tracks.

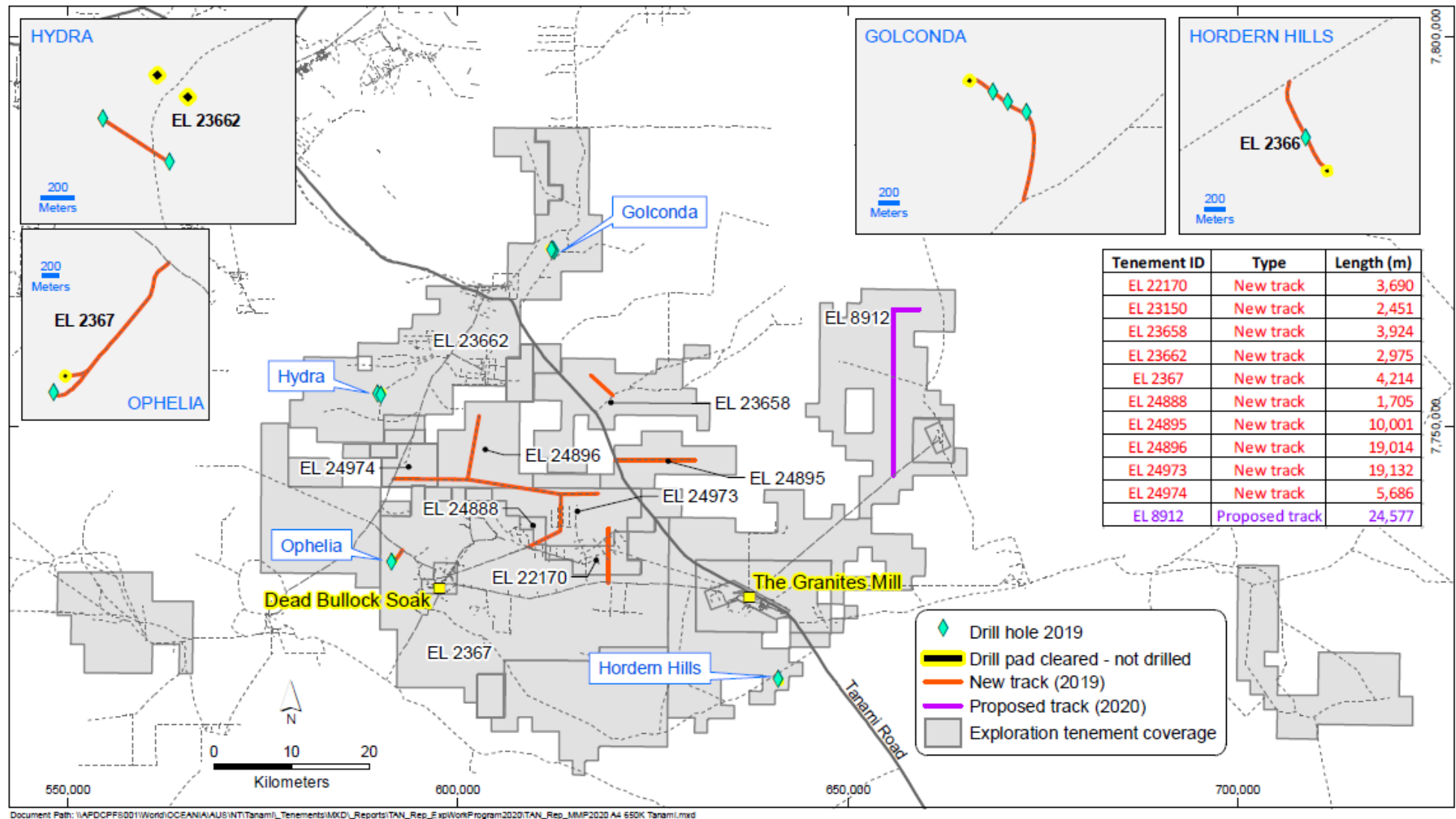


Figure 3 - 2019 Oberon drilling activities showing collar locations, cleared pads and access tracks.

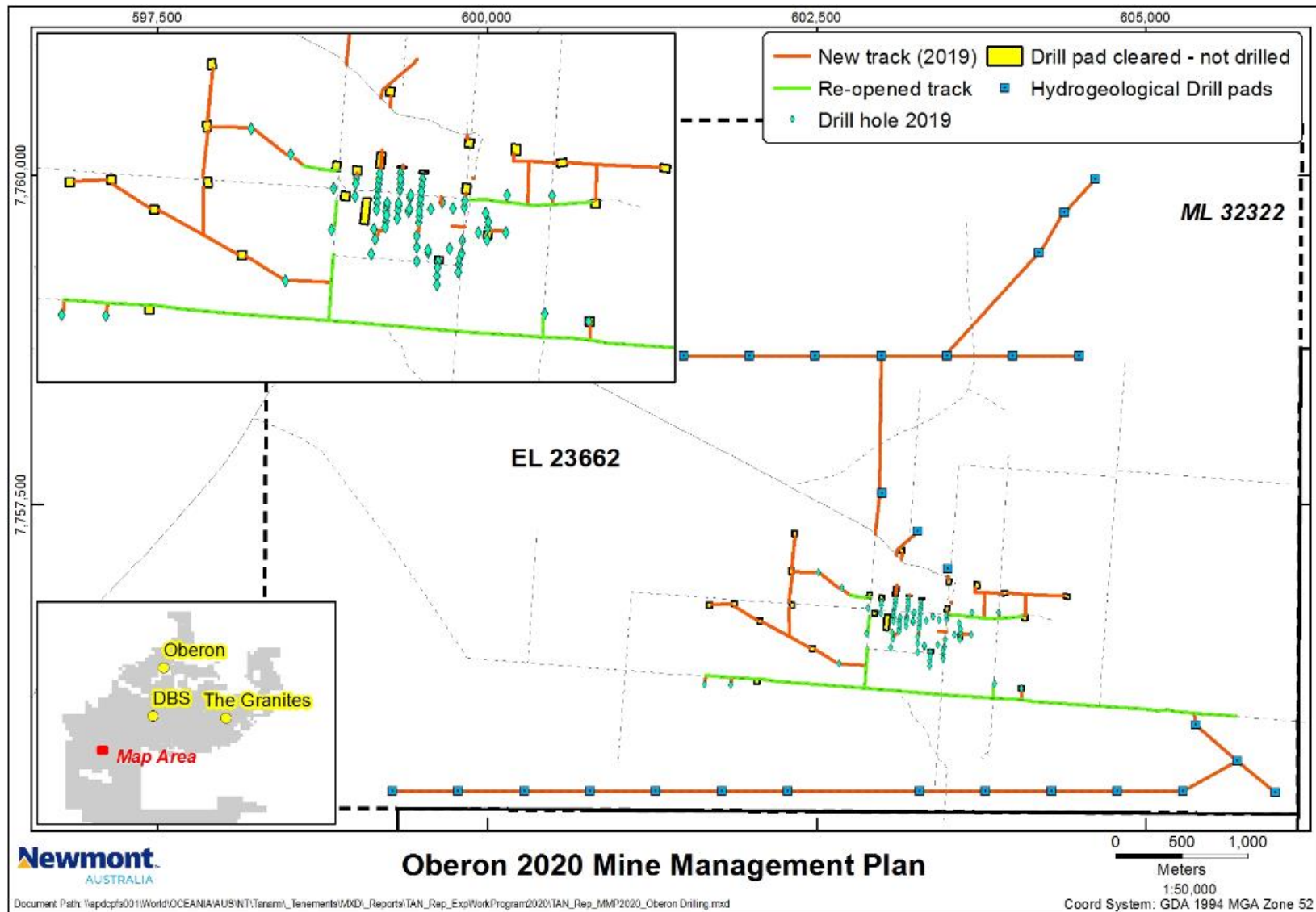


Table 1- 2019 Tanami Exploration Project Remediation Register - Drill holes and Cleared Pads

Hole ID	Tenement ID	Date Drilled	Drill hole Coordinates (GDA94 Z52)	Rehabilitation (✓ or date completed)									Sign off and Comments
				Drill holes temporarily capped	Collar Area levelled out	Core removed	Sumps backfilled	Topsoil / vegetation replaced	Drill pad ripped	Access track ripped	Rubbish removed	Date last inspected	
GCDD0001	EL23662	28/08/2019	7,772,442mN 612,288mE	✓	TBA	✓	TBA	X	X	X	✓	17/09/2019	M Harris Collar Remains
GCDD0002	EL23662	8/09/2019	7,772,547mN 612,105mE	✓	TBA	✓	TBA	X	X	X	✓	17/09/2019	M Harris Collar Remains
GCDD0003	EL23662	15/09/2019	7,772,654mN 611,957mE	✓	TBA	✓	TBA	X	X	X	✓	17/09/2019	M Harris Collar Remains
GCDD0004	EL23662	NA	NA	NA	NA	NA	TBA	X	X	X	✓	17/09/2019	No hole (cleared pad)
HHD0007	EL2366	24/04/2019	7,717,638mN 640,993mE	✓	TBA	✓	TBA	X	X	X	✓	10/06/2019	H McLeod Collar remains
HHD0008	EL2366	NA	NA	NA	NA	NA	TBA	X	X	X	✓	10/06/2019	H McLeod No hole (cleared pad)
HYDD0001	EL23662	12/10/2019	7,754,144mN 589,670mE	✓	TBA	✓	TBA	X	X	X	✓		
HYDD0002	EL23662	2/11/2019	7,753,890mN 590,063mE	✓	TBA	✓	TBA	X	X	X	✓		
HYDD0003	EL23662	NA	NA	NA	NA	NA	TBA	X	X	X	✓		No hole (cleared pad)
HYDD0004	EL23662	NA	NA	NA	NA	NA	TBA	X	X	X	✓		No hole (cleared pad)
OPHD0001	EL2367	6/11/2019	7,732,584mN 591,500mE	✓	TBA	✓	TBA	X	X	X	✓		
OPHD0002	EL2367	NA	NA	NA	NA	NA	TBA	X	X	X	✓		No hole (cleared pad)

Mining Management Plan Exploration Activities

Figure 4 – Proposed Work Area for the Symington Project Area

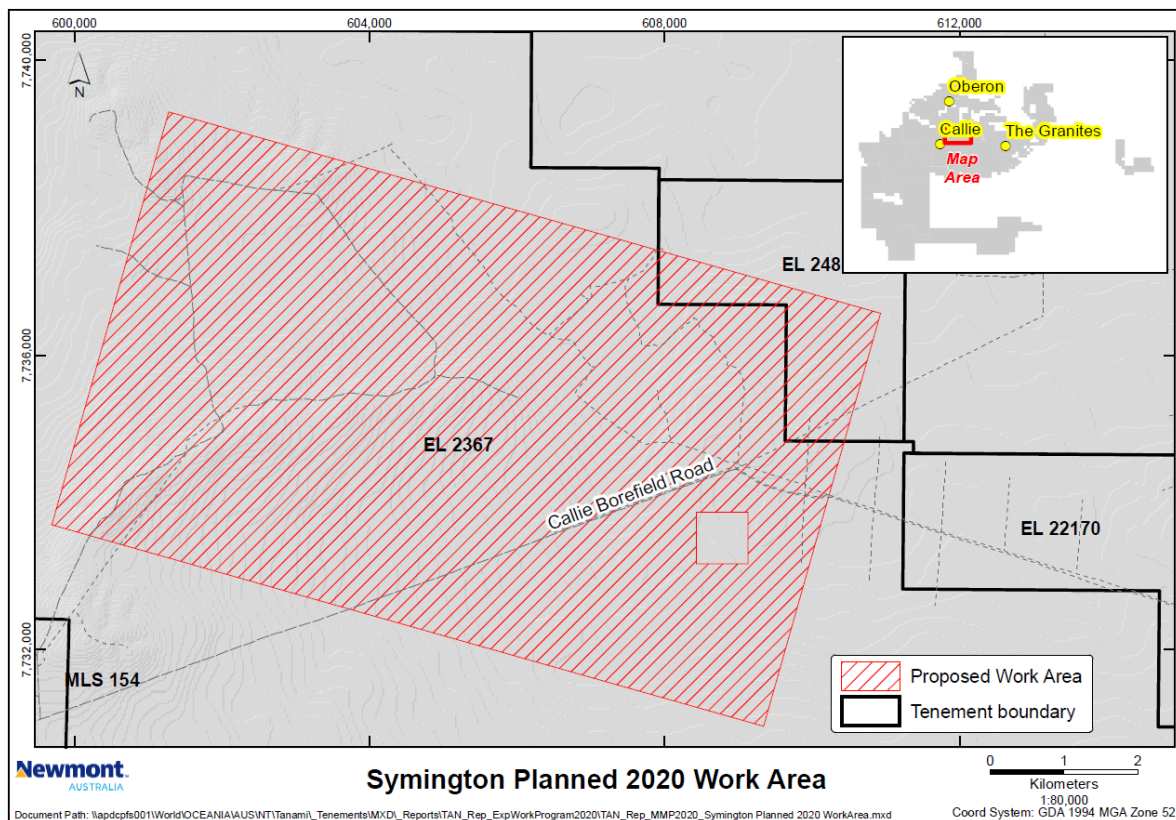


Figure 5 - Proposed Work Area for the Rainmaker Project Area

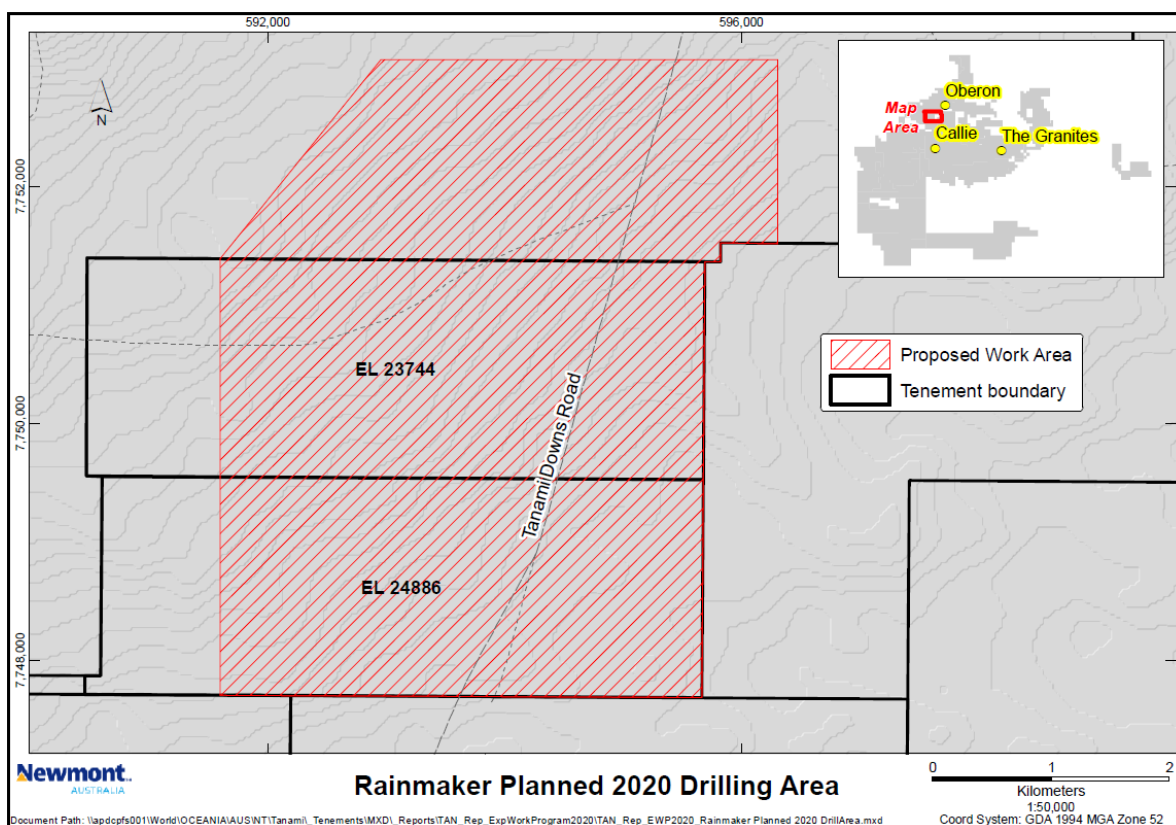


Figure 6 – Work Area for the Ptilotus Project Area

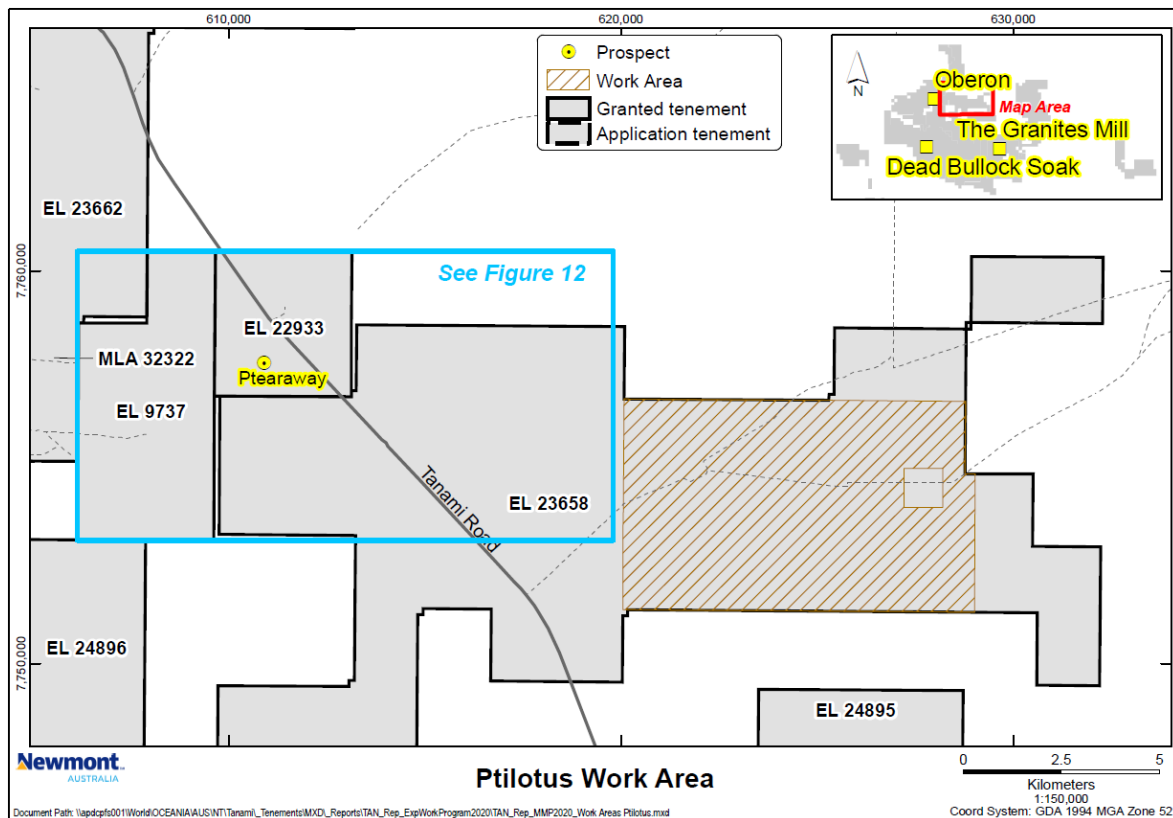


Figure 7 - Work Areas for the Hydra and Golconda Project Areas

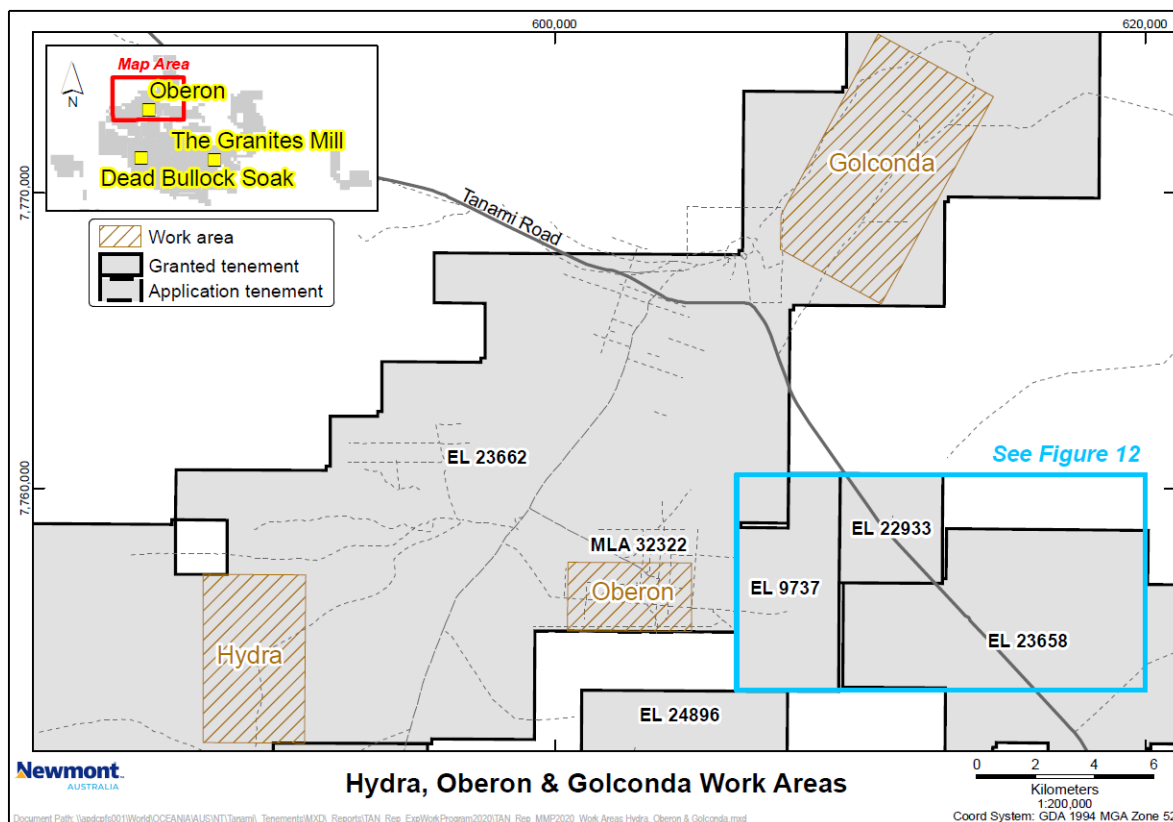


Figure 8 - Work Areas for the Grimwade and Hordern Hills Project Areas

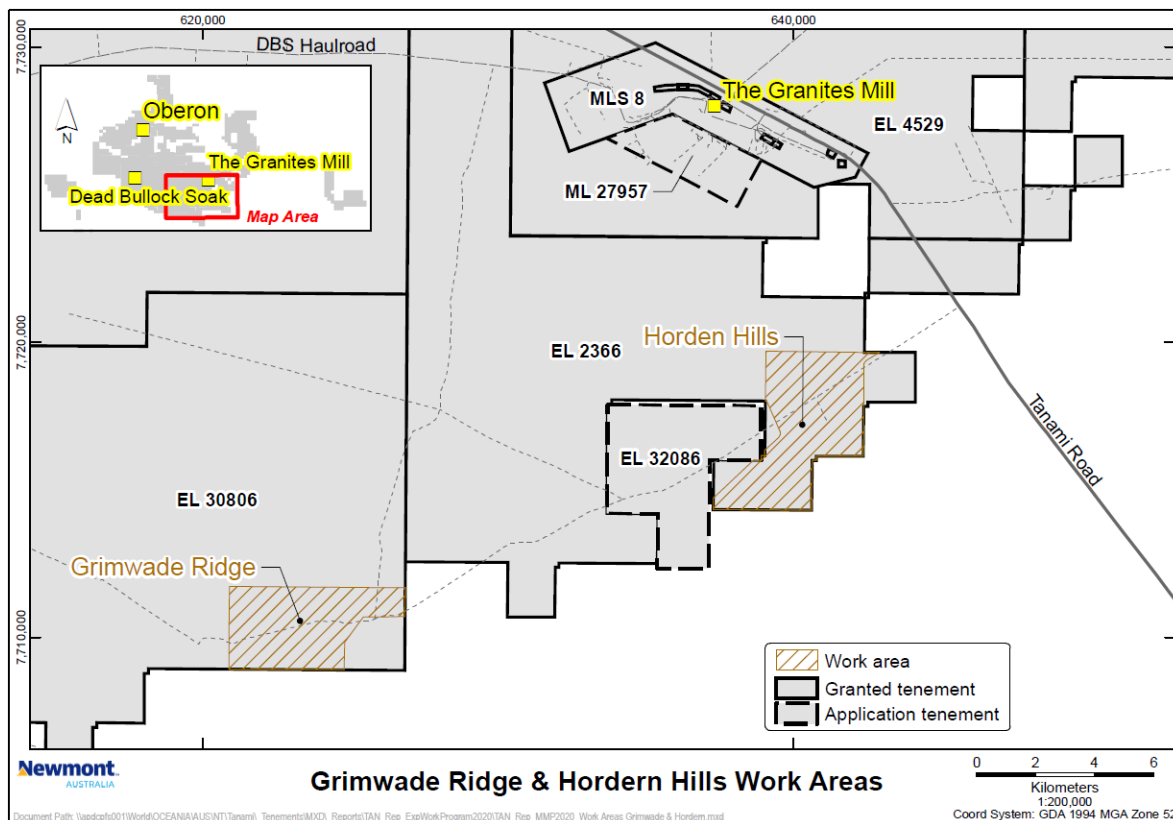


Figure 9 - Work Area for the Ophelia Project Area and the location of the Dead Bullock Soak Southwest Proposed Work Areas

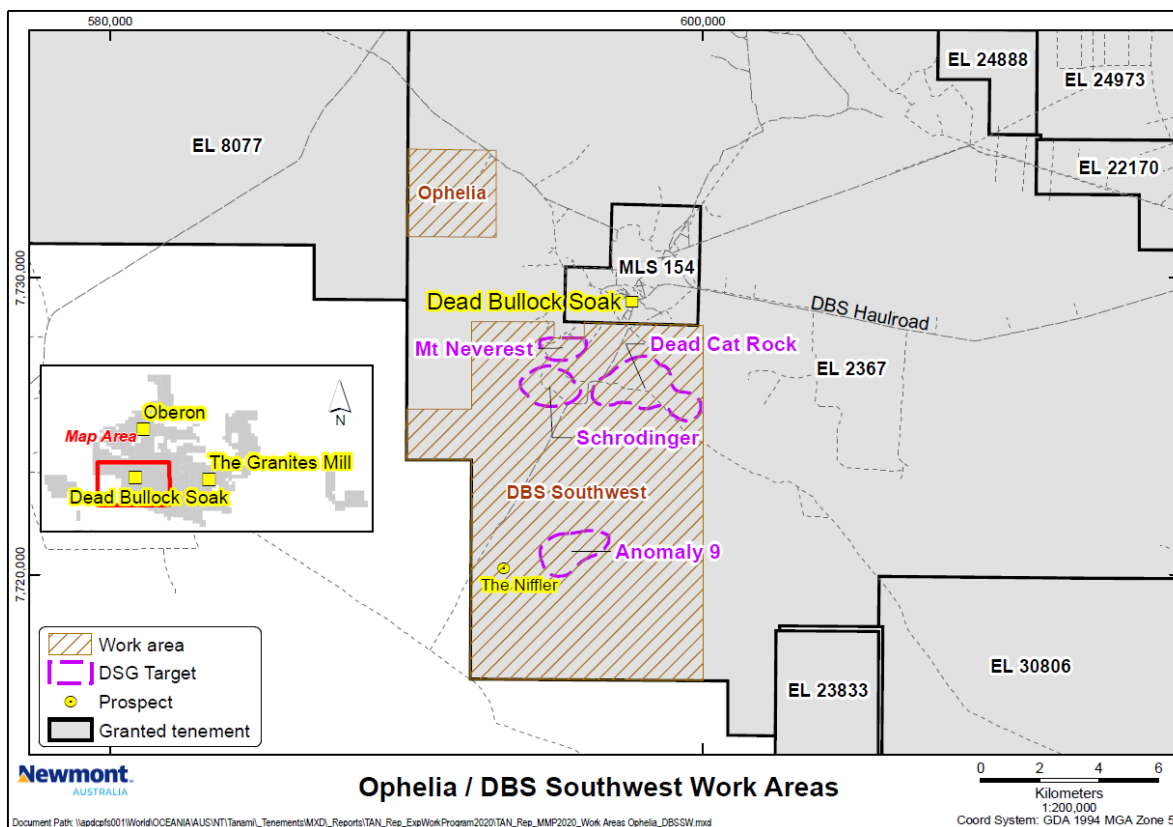


Figure 10 - Cashel & Terry's Depot Project Areas

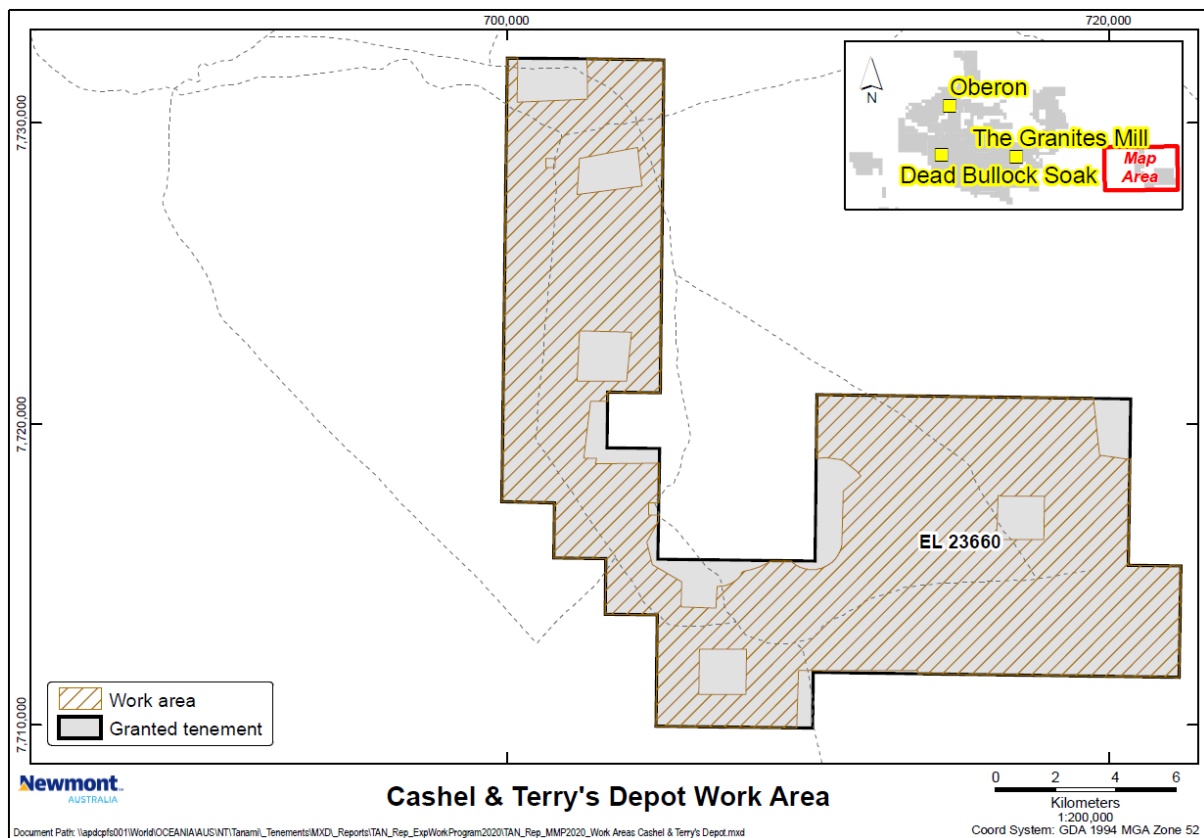


Figure 11 - Work Areas for the Magellan and Pegasus Project Areas

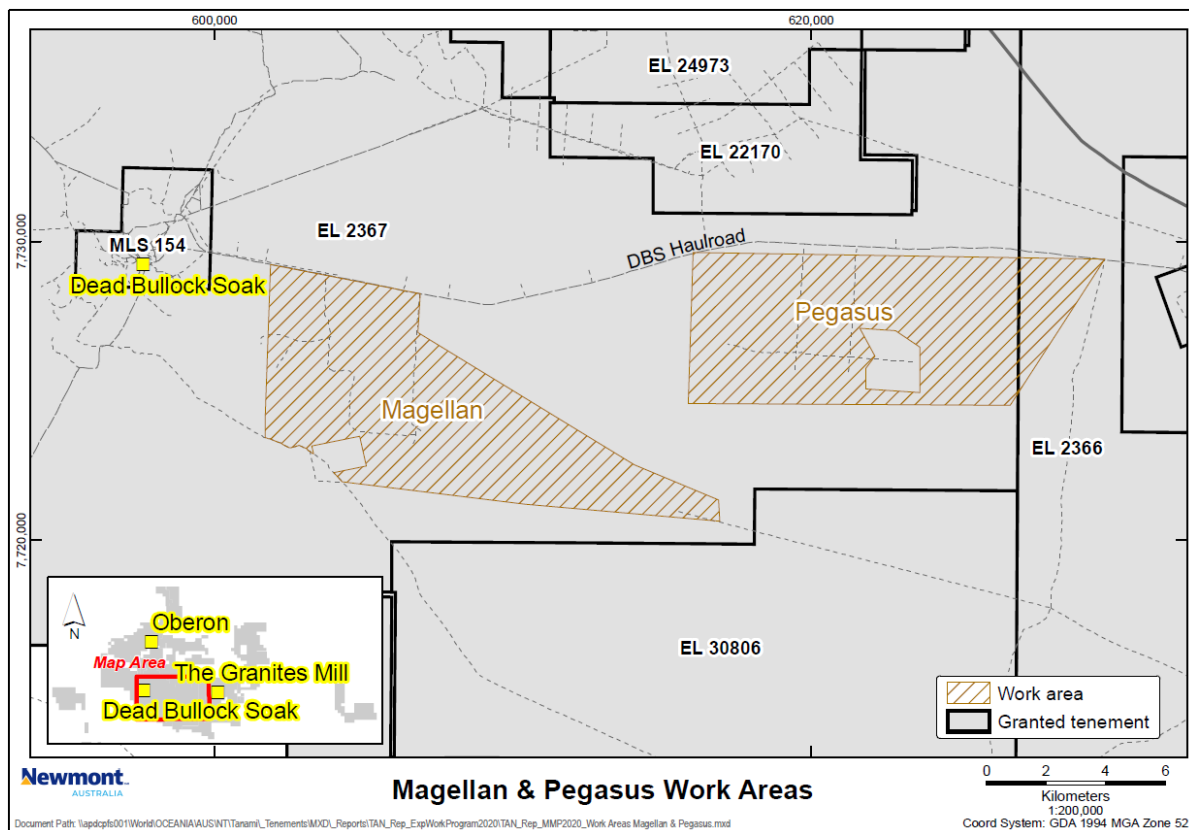


Figure 12 – Ptearaway Proposed Work Area

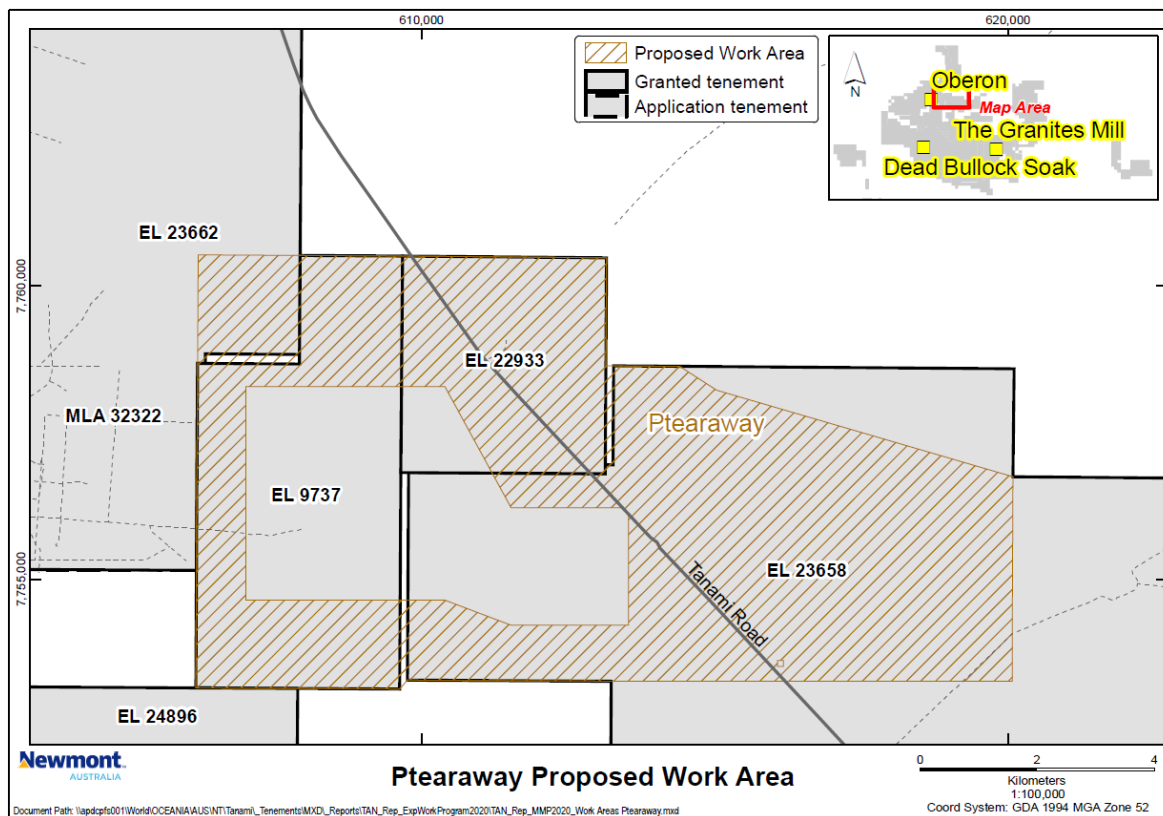


Figure 13 - Oberon North Proposed Work Areas

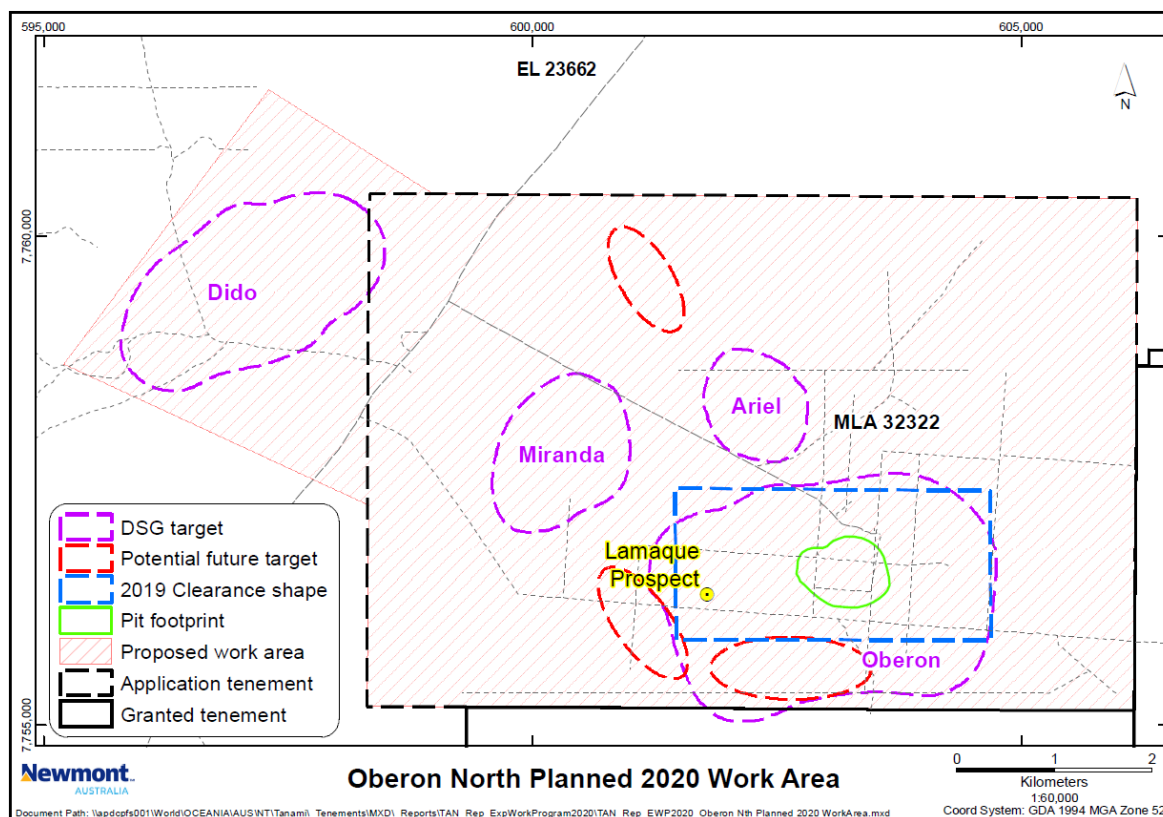


Figure 14 – Smoke Hills proposed work area

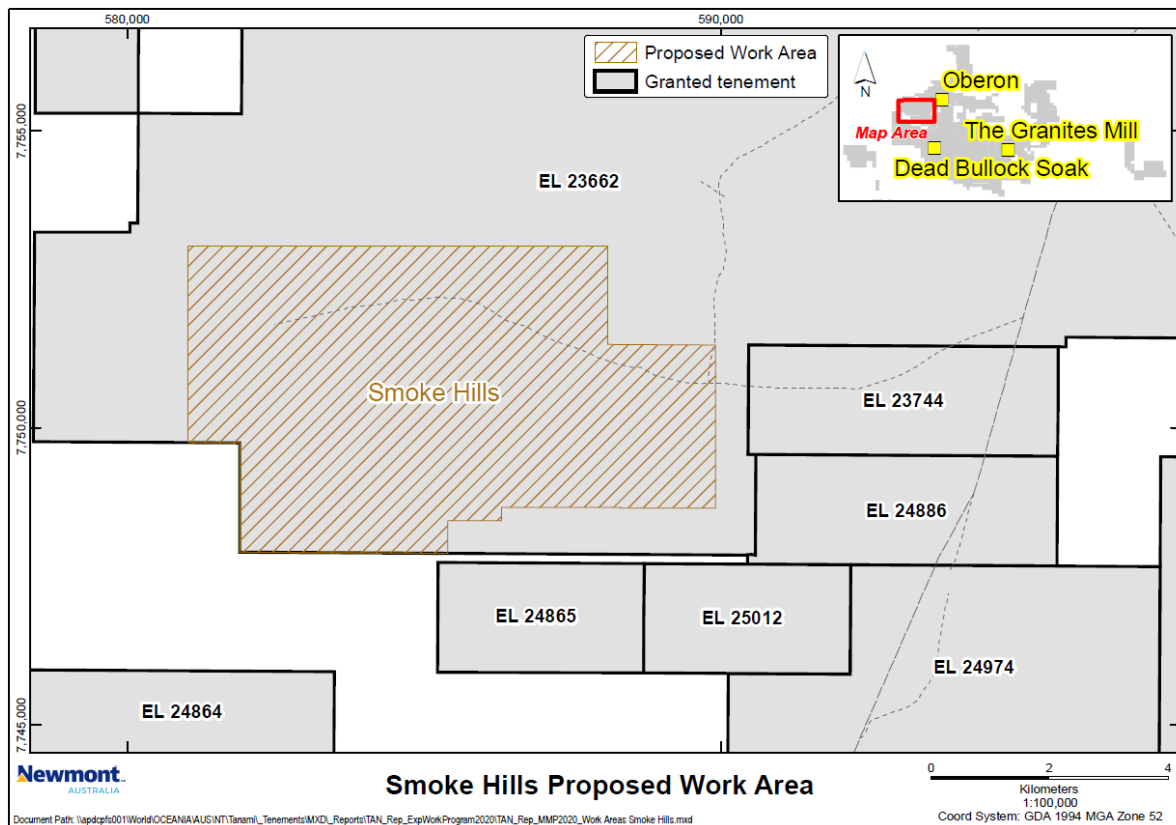
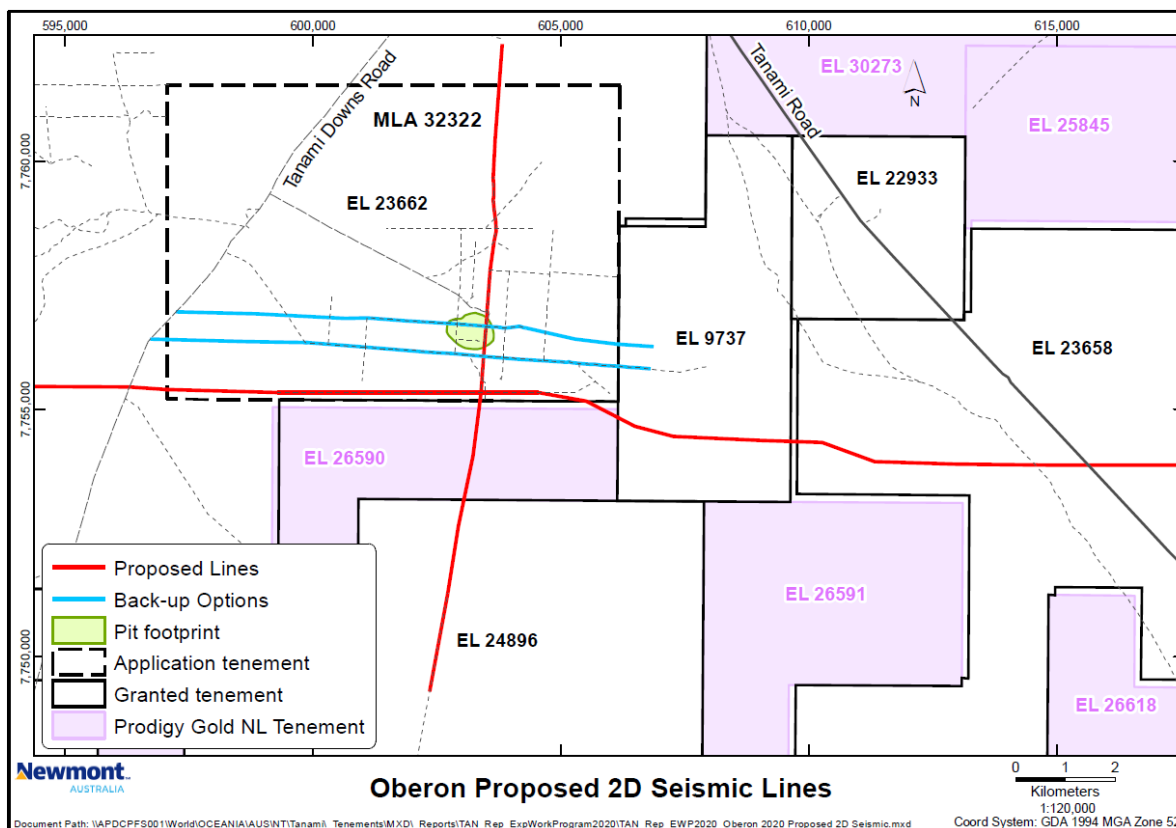





Figure 15 - Proposed 2D seismic lines at Oberon




Section 9 – Declaration

The Mining Management Plan must be endorsed by a senior representative of the company who has the appropriate level of authority to do so.

	Author	Reviewed by	Approved by
Date	3 August 2020	4 August 2020	6 August 2020
Name	Kirsten Johnston	Niamh Browne	Javier Brodalka
Signature			

I, Vince De Carolis, General Manager – Tanami Operations, declare that I have the authority to make the commitments contained in this mining management plan on behalf of the company. To the best of my knowledge the information contained in this plan is true and correct and commit to undertake the works in accordance with the agreed minimum standards and all relevant Northern Territory and Commonwealth Government legislation.

SIGNATURE: 

DATE: 07/08/2020