

IRWIN HILLS PROJECT Update / Overview

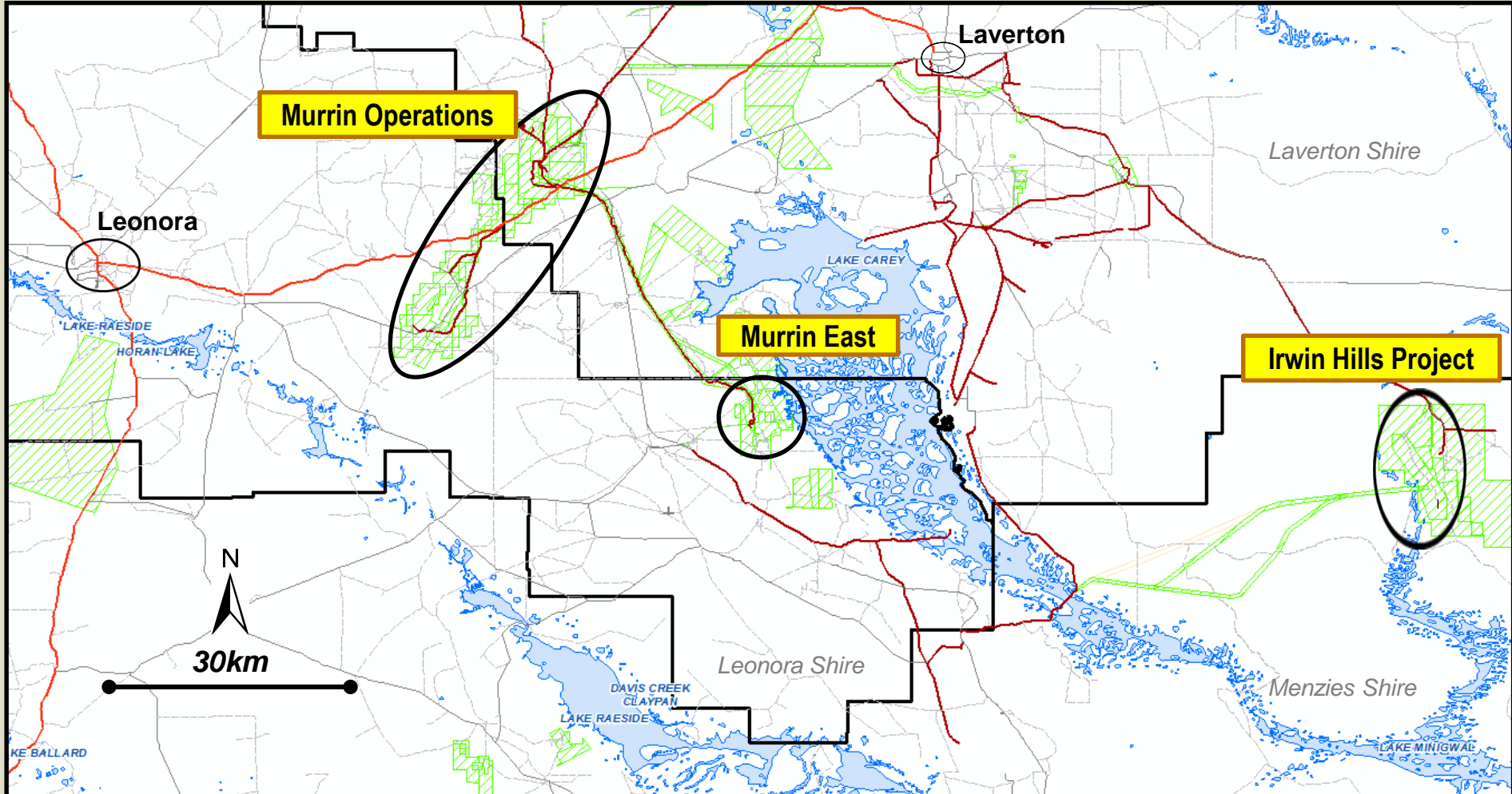
Menzies Shire - November 2020



Irwin Hills Project - Location Map

**~150km haulage distance
to MMO Plant**

Minara Live or Pending Licenses

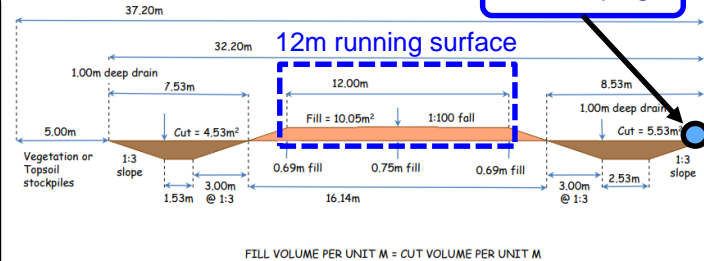


Our reference standard is our Murrin East Haul Road

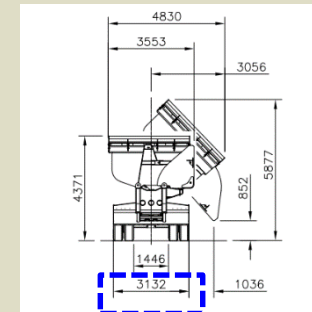
View of Murrin East Haul Road looking towards Lake Carey



Reference Haul Road - Cross Section



Powertrans Quad Section



- Quad is 3.1m wide, 67.4m long
- ~350t nominal load, 25t per axle
- The 2020 Land cruiser Model is 1.9m wide
- 2 lane = 12m running surface
- 37.2m width corridor with all water infrastructure

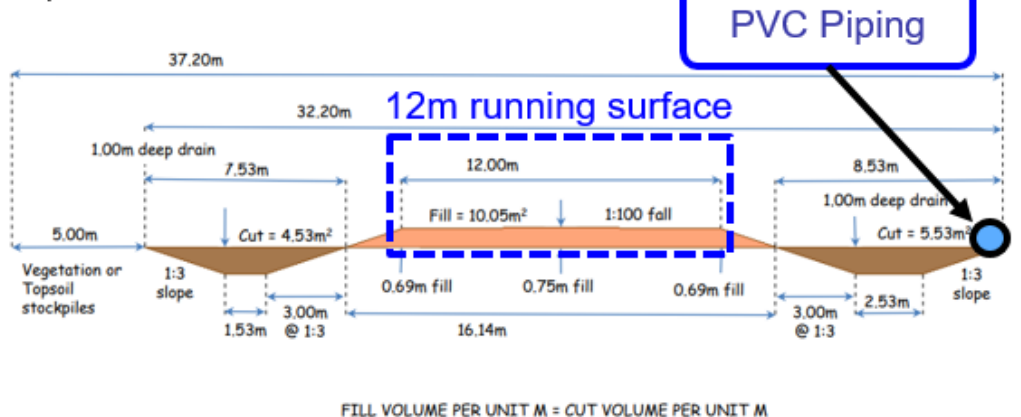
67.4m long



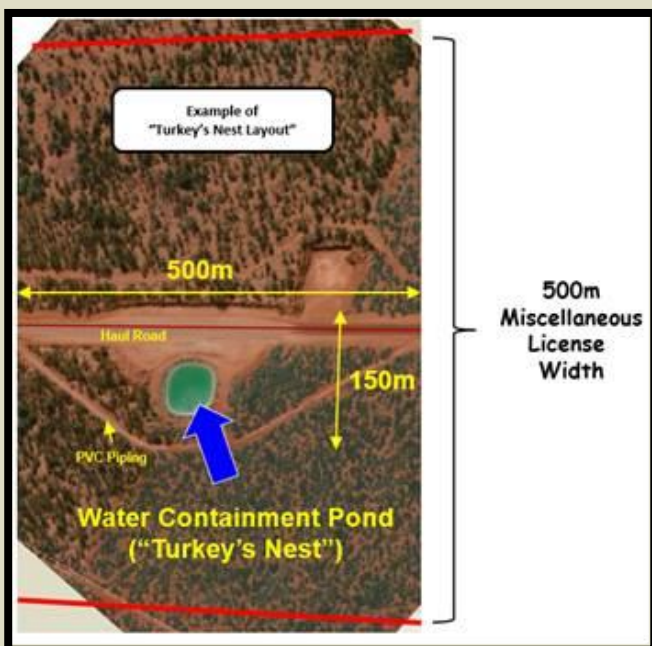
Quad Trailer Road Trains, nominally 350t are our preferred haulage option

The Target Road Haulage Infrastructure

Reference Haul Road - Cross Section

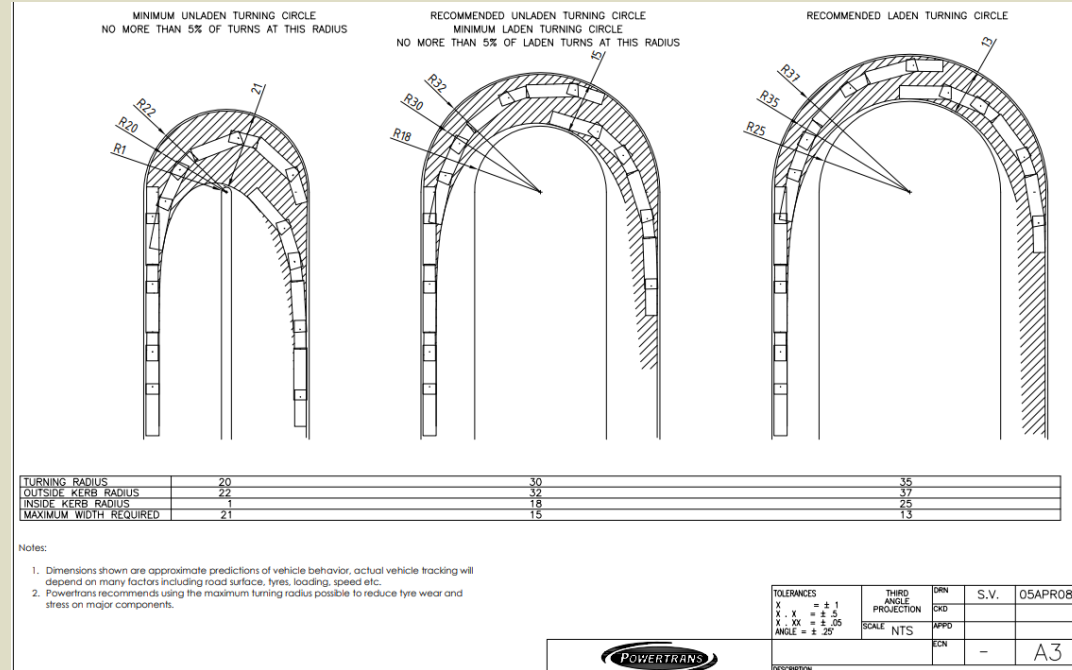


- Centreline haul road running surface is planned down the middle of “Misc.’ License applications”
- Slight deviations can take place within the License corridor (nominally 500m wide), however MMO must consider:
 - Speed reduction in haulage
 - Turning Radius of Quad 35m
- PVC Water piping would be located running along the edge of the drainage ditches

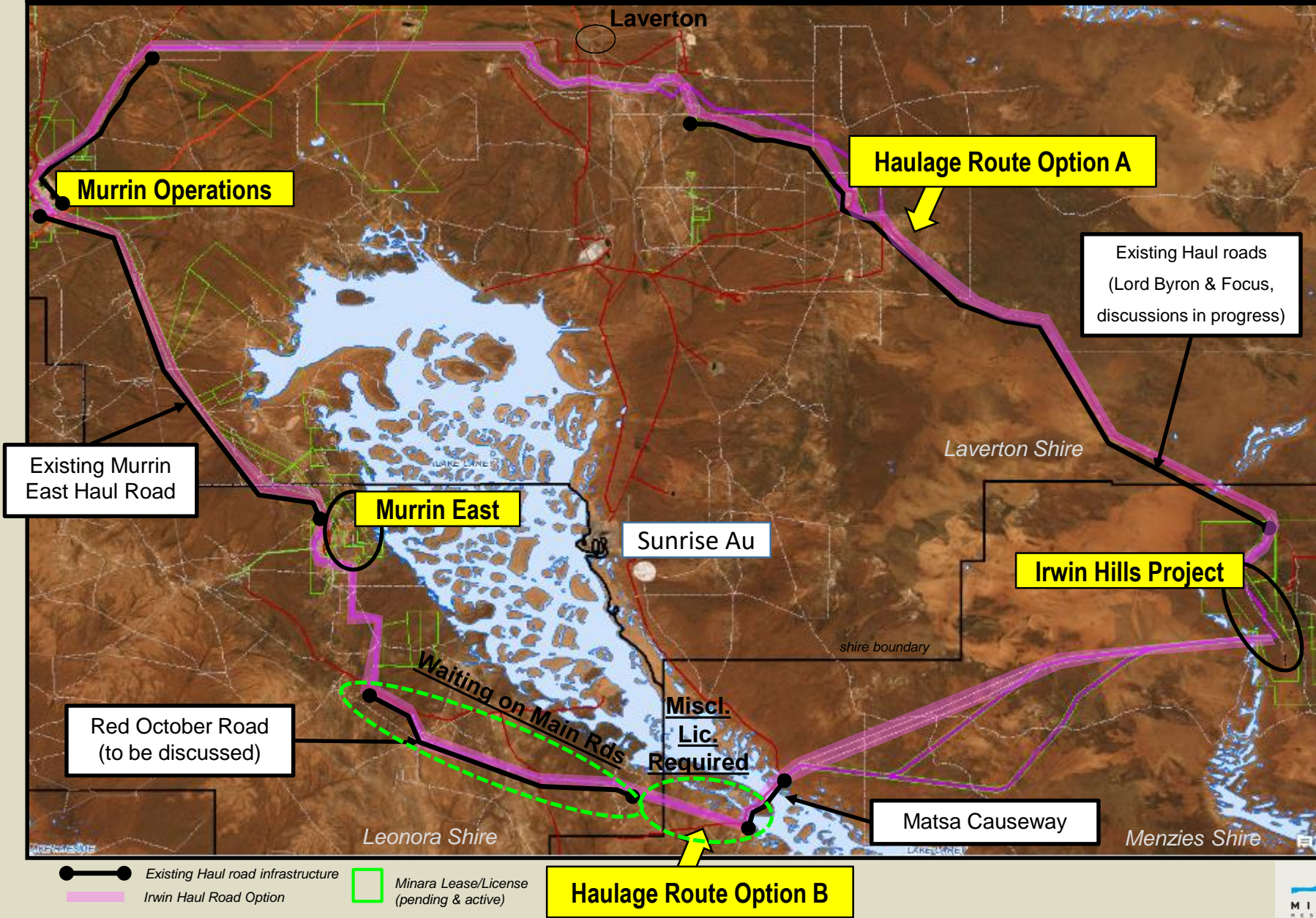


- Approximately every 20km a “Turkey’s Nest” Water Containment Pond is Targeted
- Example shown left, where road infrastructure can widen to 150m

Turning Radius – 350t Quads



Minara is looking at multiple haulage options



Murrin Operations

Haulage Route Option A

Existing Haul roads
(Lord Byron & Focus,
discussions in progress)

Existing Murrin
East Haul Road

Murrin East

Sunrise Au

Irwin Hills Project

Red October Road
(to be discussed)

Waiting on Main Rds

Miscl.
Lic.
Required

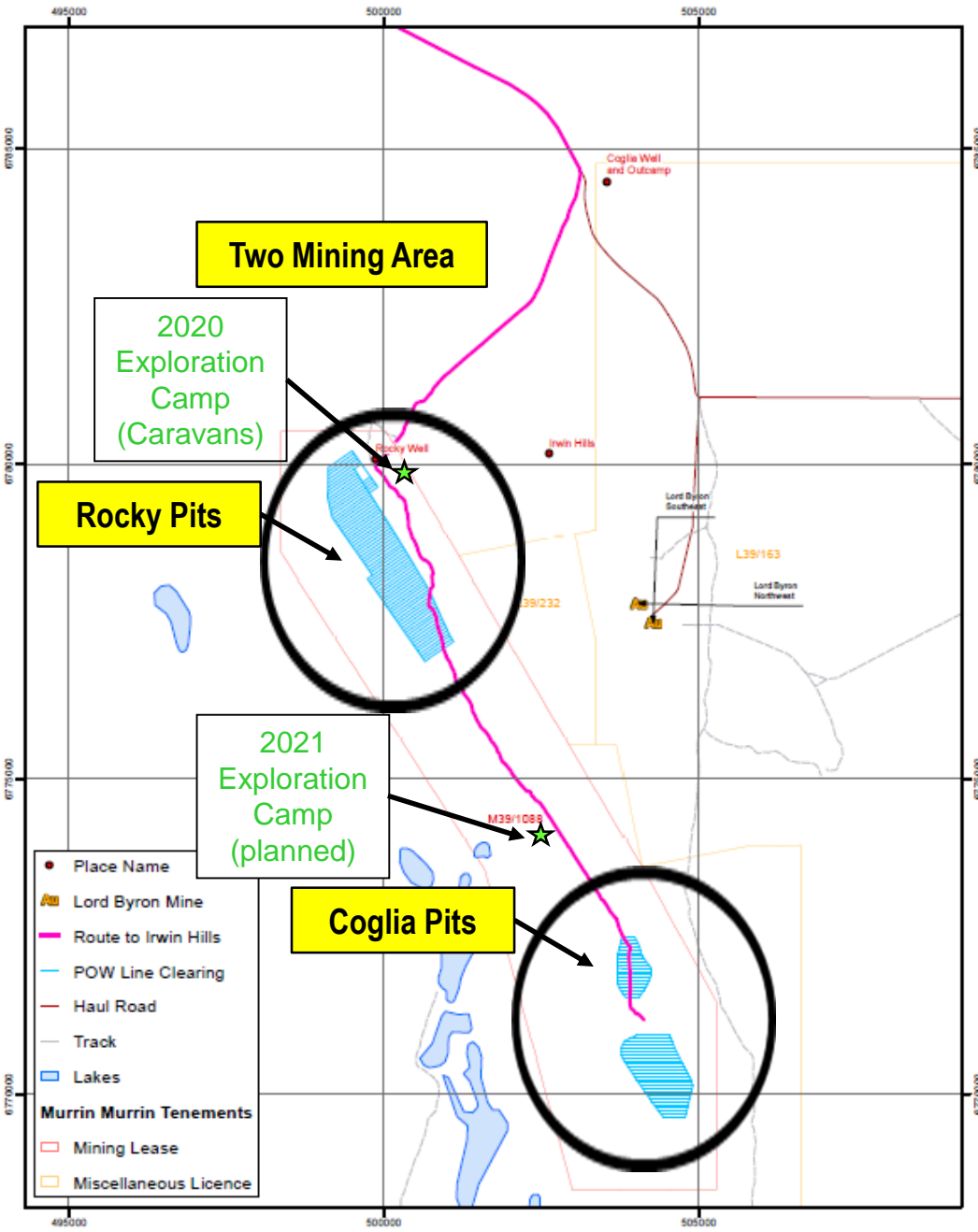
Matsa Causeway

Haulage Route Option B

Existing Haul road infrastructure
Irwin Haul Road Option

Minara Lease/License
(pending & active)

Irwin Hills – Project Area Map



NORTH deposit is Rocky Hill (RZ62)
62-series Pits

SOUTH deposit is Coglia Well (RZ61N&RZ61S)
61-series Pits

- PERMITTING, ACCESS AGREEMENTS; work is on-going, Discussions are in progress with relevant stakeholders
- Resource Drilling has been completed Reserve Models and Mine Planning in progress
- Ethnic, Archaeological, Flora and Fauna Surveys have all been completed for the mining area, we are now starting work on the haulage route
- Work progresses on finding a mine village camp location, to support operations
- The Project remains to pass through our internal company stage gate and approvals – this is pending and work towards this is pending
- At the current time we estimate a 10 year mine life from 2022
- Next field work will be establishment of a small clearing exploration camp 3 to 4 persons to begin clearing and preparation work for the 2021 Geology Drilling. *An application for a Small Septic is being prepared for the Menzies Shire.*

Resource Drilling Completed



Coglia Area



Rocky Area



61RS00735	25	26 LIM	41	1.4	0.559	0.75
61RS00735	27	28 MNO	42	1.36	0.595	0.6
61RS00735	29	30 LIM	41	1.28	0.256	0.73
61RS00735	31	32 MNO	42	1.33	0.212	-0.78
61RS00735	32	33 LIM	41	1.43	0.325	0.84
61RS00735	33	34 LIM	41	1.44	0.208	-0.88
61RS00735	36	37 LIM	41	1.42	0.201	0.96
61RS00735	37	38 LIM	41	1.45	0.25	0.85
61RS00736	36	31 LIM	41	1.52	0.268	0.8
61RS00736	31	32 LIM	41	1.78	0.304	0.8
61RS00736	32	33 LIM	41	1.89	0.273	0.76
61RS00736	33	34 LIM	41	1.77	0.277	0.85
61RS00736	34	35 LIM	41	1.79	0.279	0.87
61RS00736	35	36 LIM	41	1.78	0.271	0.81
61RS00736	36	37 LIM	41	1.79	0.204	0.8



Results Review - Coglia



High Grade Material - Coglia

Major Milestones – 2021-2023

