

Modification Notice - Regulation 22

If the modification to the regulated activity has already occurred, a regulation 22 modification notice is not applicable.

Interest Holder	Central Petroleum	EMP Title	Mereenie Development Wells WM29 / WM30	Unique EMP ID No.	CTP7-5	Mod No.	2	Date	13/08/2024
Brief Description	<p>This Regulation 22 modification is:</p> <ul style="list-style-type: none"> • Seeking to update details for WM29 to: <ul style="list-style-type: none"> ○ Relocate the WM29 well site within the existing ecological and heritage survey area (Survey Area 3) ○ Extend the WM29 well site footprint within the well lease clearance area to accommodate 125m x 140m pad. ○ Increase the dimensions of the existing WM29 sump to 33m x 30m x 3m (top of sum measurements) on the extended well site to accommodate the liner installation specifications for a minimum 3:1 batter slope. A minor increase in sump volume has resulted (ie. 1,446m³ to 1,592m³) however, the wording contained in the original EMP provided an estimated volume of 1.6ML and requires no further update • Seeking to update details for WM30 to: <ul style="list-style-type: none"> ○ Extend the WM30 well site footprint within the existing ecological and heritage survey area (Survey Area 2) to accommodate 170m x 150m pad. ○ Increase the dimensions of the existing WM29 sump to 33m x 30m x 3m (top of sum measurements) on the extended well site to accommodate the liner installation specifications for a minimum 3:1 batter slope. A minor increase in sump volume has resulted (ie. 1,446m³ to 1,592m³) however, the wording contained in the original EMP provided an estimated volume of 1.6ML and requires no further update <p><u>WM29</u></p> <p>The approved well centre is located at the following coordinates X: 759925; Y: 7344295 ; Elevation: 769.4m – see Attachment 1.</p> <p>The modification seeks to move the entire well site / well site clearance area (and all associated infrastructure) approximately 50m south-east within the previously surveyed area (Survey Area 3) placing the well centre at: X:759979; Y: 7344282; Elevation: 767.9m. In the new location, the well site will be extended to accommodate a total hardstand area of ~125m x 145m. Correspondingly, the sump design will be also enlarged to the dimensions detailed above. – see Attachment 2 for updated civils.</p> <p>For WM29, the updated location has been selected to avoid significant cutting into rocky outcrops which would be required to allow construction of the well site. The relocation will limit impacts to local rock formations while ensuring rehabilitation efforts will be able to</p>								



	<p>restore the local topographical features to a natural state once the well has been abandoned. The proposed relocation also moves all works away from a known Indigenous archaeological site identified during initial site surveys (site 3-3-1).</p> <p>The increase in well pad size within the clearance area is seen to diminish environmental risk by creating a greater buffer area between works taking place on the well site and the surrounding environment while the increased sump volume provides a 3:1 batter slope, complies with supplier specification and improves safety by allowing egress should personnel or fauna happen to enter sump.</p> <p><u>WM30</u></p> <p>The modification seeks to extend the proposed well site within the previously surveyed area (Survey Area 2) leaving the well head location in its original location. The sump design will be enlarged (as per the same dimensions listed above) to accommodate the suppliers liner installation specifications for a minimum 3:1 batter slope while maintaining a 500mm freeboard. – see Attachment 3 for updated civils.</p> <p>The increase in well pad size within the survey area diminishes the net environmental risk by creating a greater buffer area between works taking place on the well site and the surrounding environment while the change in sump dimensions is taking place to comply with liner installation specifications for a minimum 3:1 batter slope and improved safety by allowing egress should personnel or fauna happen to enter sump.</p> <p>A detailed risk assessment is provided in Table 1 and Table 2 to review residual risk linked to the WM29 and WM30 modifications proposed above.</p> <p>Attachments to this document cater to the updated Figures associated with each proposed modification.</p>
<p>Geospatial Files Included?</p>	<p>Yes</p>

Sump volume increase and relocation / extension of WM29 well site							
Does the proposed change result in a new, or increased, potential or actual environmental impact or risk?	If an INCREASE in an existing potential or actual environmental impact or risk, is the increase provided for in the approved EMP?	Does the proposed change require additional mitigation measures to ensure it is managed to ALARP and acceptable levels?	Has additional stakeholder engagement been conducted?	Does the proposed change require additional environmental performance standards or measurement criteria?	Does the proposed change affect compliance with Sacred Site Authority Certificates?	Does the proposed change affect any sub-plans to the EMP?	Will the environmental outcome continue to be achieved?
<i>Attach supporting information to support all answers to the above questions</i>							
No. As demonstrated in the analysis and risk assessment (Table 1)	N/A	No additional mitigation measures are considered necessary. The relocation / extension of the WM29 well site and sump includes the exact same scope of works as the location nominated in the approved EMP. The new location moves away from an identified heritage site..	No. The updated location does not impact any stakeholders and adequate stakeholder engagement has been conducted previously.	No additional environmental performance standards and measurement criteria are required. A review of the existing standards and criteria in the EMP identified that all elements will be able to be met and the proposed works will not impact compliance.	No. All works are conducted on existing operational areas and aligned with existing approvals.	Only changes to mapping is required within EMP sub-plans (refer to Risk Assessment in Table 1).	Yes (refer to Risk Assessment in Table 1).

Sump volume increase and extension of WM30 well site							
Does the proposed change result in a new, or increased, potential or actual environmental impact or risk?	If an INCREASE in an existing potential or actual environmental impact or risk, is the increase provided for in the approved EMP?	Does the proposed change require additional mitigation measures to ensure it is managed to ALARP and acceptable levels?	Has additional stakeholder engagement been conducted?	Does the proposed change require additional environmental performance standards or measurement criteria?	Does the proposed change affect compliance with Sacred Site Authority Certificates?	Does the proposed change affect any sub-plans to the EMP?	Will the environmental outcome continue to be achieved?
<i>Attach supporting information to support all answers to the above questions</i>							
No. As demonstrated in the analysis and risk assessment (Table 2)	N/A	No additional mitigation measures are considered necessary. The extension of the WM30 well site and sump includes the exact same scope of works as the location nominated in the approved EMP. The extension of well site provides an additional buffer between drilling activities and the adjacent environment.	No. The updated location does not impact any additional stakeholders and adequate stakeholder engagement has been conducted previously.	No additional environmental performance standards and measurement criteria are required. A review of the existing standards and criteria in the EMP identified that all elements will be able to be met and the proposed works will not impact compliance.	No. All works are conducted on existing operational areas and aligned with existing approvals.	Only changes to mapping is required within EMP sub-plans (refer to Risk Assessment in Table 2).	Yes (refer to Risk Assessment in Table 2).

Current EMP Text	Amended EMP Text																				
<p>Description of Activity (Executive Summary) The new disturbance area required for this regulated activity, including the flowline corridor, is approximately 2.28 hectares (ha) for development well WM29 and 2.92 ha for WM30. A summary description of the activities under this EMP is shown in Table ES-1.</p>	<p>Description of Activity (Executive Summary) The new disturbance area required for this regulated activity, including the flowline corridor, is approximately 2.51 hectares (ha) for development well WM29 and 3.18 ha for WM30. A summary description of the activities under this EMP is shown in Table ES-1.</p>																				
<p>Table 2: Clearing footprints</p> <table border="1" data-bbox="120 464 1046 735"> <thead> <tr> <th>WM29 (WM-E1) well site</th> <th>WM30 (WM-A) well site</th> </tr> </thead> <tbody> <tr> <td>Well site - 1.83ha</td> <td>Well site - 1.71ha</td> </tr> <tr> <td>Access track - 0.11ha</td> <td>Access Track - 0.24</td> </tr> <tr> <td>Flowline corridor outside well site - 0.45ha</td> <td>Flowline corridor outside well site - 1.11ha</td> </tr> <tr> <td>Total = 2.39ha</td> <td>Total = 3.06ha</td> </tr> </tbody> </table>	WM29 (WM-E1) well site	WM30 (WM-A) well site	Well site - 1.83ha	Well site - 1.71ha	Access track - 0.11ha	Access Track - 0.24	Flowline corridor outside well site - 0.45ha	Flowline corridor outside well site - 1.11ha	Total = 2.39ha	Total = 3.06ha	<p>Table 2: Clearing footprints</p> <table border="1" data-bbox="1137 464 2063 735"> <thead> <tr> <th>WM29 (WM-E1) well site</th> <th>WM30 (WM-A) well site</th> </tr> </thead> <tbody> <tr> <td>Well site - 2.26ha</td> <td>Well site - 2.85ha</td> </tr> <tr> <td>Access track - 0.16ha</td> <td>Access Track - 0.18ha</td> </tr> <tr> <td>Flowline corridor outside well site - 0.09ha</td> <td>Flowline corridor outside well site - 0.15ha</td> </tr> <tr> <td>Total = 2.51ha</td> <td>Total = 3.18ha</td> </tr> </tbody> </table>	WM29 (WM-E1) well site	WM30 (WM-A) well site	Well site - 2.26ha	Well site - 2.85ha	Access track - 0.16ha	Access Track - 0.18ha	Flowline corridor outside well site - 0.09ha	Flowline corridor outside well site - 0.15ha	Total = 2.51ha	Total = 3.18ha
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<p>Figure 2: Location of proposed development wells WM29 and WM30</p>	<p>Updated Figure 2: Location of proposed development wells WM29 and WM30 (see Attachment 1)</p>																				

Table 7: Proposed ground disturbance for each development well			Table 7: Proposed ground disturbance for each development well		
Development well	WM29 (WM-E1)	WM30 (WM-A)	Development well	WM29 (WM-E1)	WM30 (WM-A)
Wellhead surface location	X= 759925m/Y = 7344295m	X = 756788.9m/Y = 73446560.4	Wellhead surface location	X= 759979m/Y = 7344282m	X = 756788.9m/Y = 73446560.4
Elevation	769.4m AHD	784.1m AHD	Elevation	767.9m AHD	784.1m AHD
Area of well site	1.83ha	1.71ha	Area of well site	2.26ha	2.85ha
Access tracks	0.11ha	0.24ha	Access tracks	0.16ha	0.18ha
Area of flowline corridor	0.45ha	1.11ha	Area of flowline corridor	0.09ha	0.15ha
Total	2.39ha	3.06ha	Total	2.51ha	3.18ha
Figure 3: Location of WM29 well site – well site, access track, flowline corridor			Updated Figure 3: Location of WM29 well site – well site, access track, flowline corridor (see Attachment 2)		
Figure 4: Location of WM30 well site – well site, access track, flowline corridor			Updated Figure 4: Location of WM30 well site – well site, access track, flowline corridor (see Attachment 3)		
Figure 5: Elevation (AHD) and flood risk			Updated Figure 5: Elevation (AHD) and flood risk (see Attachment 4)		
Figure 6: Environmental sensitivity mapping for the WM29 environs			Updated Figure 6: Environmental sensitivity mapping for the WM29 environs (see Attachment 5)		
Figure 8: WM29 indicative layout and erosion and sediment controls			Updated Figure 8: WM29 indicative layout and erosion and sediment controls (see Attachment 6)		
Figure 9: WM30 indicative layout and erosion and sediment controls			Updated Figure 9: WM30 indicative layout and erosion and sediment controls (see Attachment 7)		
Figure 17: Ecology and archaeology survey areas			Updated Figure 17: Ecology and archaeology survey areas (see Attachment 8)		
Figure 20: Vegetation community at WM29 environs			Updated Figure 20: Vegetation community at WM29 environs (see Attachment 9)		

Figure 24: Surface geology at WM29 environs	Updated Figure 24: Surface geology at WM29 environs (see Attachment 10)
Figure 26: Location of WM29 relative to surface hydrology	Updated Figure 26: Location of WM29 relative to surface hydrology (see Attachment 11)
Figure 28: Soil type at WM29 environs	Updated Figure 28: Soil type at WM29 environs (see Attachment 12)
Figure 30: Groundwater depth contours in the vicinity of WM29	Updated Figure 30: Groundwater depth contours in the vicinity of WM29 (see Attachment 13)
Figure 32: Registered bores near WM29	Updated Figure 32: Registered bores near WM29 (see Attachment 14)
Figure 34: Bioregion in the vicinity of WM29 and SOBS	Updated Figure 34: Bioregion in the vicinity of WM29 and SOBS (see Attachment 15)
Figure 40: Conservation areas, significant flora and fauna and weeds in the environs of WM29	Updated Figure 40: Conservation areas, significant flora and fauna and weeds in the environs of WM29 (see Attachment 16)

Table 19: Locations and distance of registered bores within the vicinity of WM29 and WM30

Well site name	Water bore	Direction	Bearing	Distance (m)	Distance (km)
WM29	RN017657*	S	181	1,021	1.02
WM29	RN017898*	S	185	1,739	1.74
WM29	RN004620	SE	116	10,520	10.52
WM29	RN013861	SE	124	10,786	10.79
WM29	RN018955	NW	297	12,328	12.33
WM30	RN017657	SE	136	4,524	4.52
WM30	RN017898	SE	142	4,969	4.97
WM30	RN018955	NW	294	8,504	8.50
WM30	RN004620	SE	119	14,365	14.36
WM30	RN013861	SE	124	14,661	14.66

Figure 42: Fire scars in the WM29 environs

Table 19: Locations and distance of registered bores within the vicinity of WM29 and WM30

Well site name	Water bore	Direction	Bearing	Distance (m)	Distance (km)
WM29	RN017657*	S	184	1011	1.01
WM29	RN017898*	S	187	1733	1.73
WM29	RN004620	SE	116	10466	10.47
WM29	RN013861	SE	124	10735	10.73
WM29	RN018955	NW	297	12382	12.38
WM30	RN017657	SE	136	4,524	4.52
WM30	RN017898	SE	142	4,969	4.97
WM30	RN018955	NW	294	8,504	8.50
WM30	RN004620	SE	119	14,365	14.36
WM30	RN013861	SE	124	14,661	14.66

Updated Figure 42: Fire scars in the WM29 environs (see Attachment 17)

Table 30: Cumulative impacts			Table 30: Cumulative impacts		
Aspect	Residual Risk rating*	Summary	Aspect	Residual Risk rating*	Summary
Biodiversity	Medium	<p>Both wells are located within OL4, an existing oil and gas field that has been in operation since 1984. Limited land clearing will be undertaken at WM29 (2.39 ha) and WM30 (3.06 ha).</p> <p>To reduce the risk to ALARP the following will be implemented:</p> <ul style="list-style-type: none"> ▪ Monitor and manage vehicle movements to prevent long-term impacts on the local environment. ▪ Best practice weed management to prevent or minimise the risk of weeds spreading between well sites. ▪ Inspect secondary containment (when in use) weekly unless it is being operated through the wet season, during which period it will be monitored daily. 	Biodiversity	Medium	<p>Both wells are located within OL4, an existing oil and gas field that has been in operation since 1984. Limited land clearing will be undertaken at WM29 (2.51 ha) and WM30 (3.18 ha).</p> <p>To reduce the risk to ALARP the following will be implemented:</p> <ul style="list-style-type: none"> ▪ Monitor and manage vehicle movements to prevent long-term impacts on the local environment. ▪ Best practice weed management to prevent or minimise the risk of weeds spreading between well sites. ▪ Inspect secondary containment (when in use) weekly unless it is being operated through the wet season, during which period it will be monitored daily.
Table 32: Erosion and Sediment Control Management Plan			Updated maps in Table 32 (see Attachment 18)		
Table 33: Weed Management Plan			Updated maps in Table 33 (see Attachment 19)		
Table 34: Bushfire Management Plan			Updated maps in Table 34 (see Attachment 20)		
Table 36: Wastewater Management Plan			Updated maps in Table 36 (see Attachment 21)		

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Table 1: WM29 Risk Assessment

WM29 well site relocation / extension and sump extension – Risk Assessment				
Category	Modification	Currently approved option	Proposed option	Differences / Comments
Required ground disturbance	Well site relocation and extension	The current proposed ground disturbance footprint for the WM29 well site = <u>1.83ha</u>	The new proposed ground disturbance footprint for the WM29 well site = <u>2.51ha</u>	The proposed update to the well site location and extension will result in a 0.68ha increase in ground disturbance however, the minor increase will allow greater flexibility for ultimate rig layout and increase fire break and other buffers between regulated activities and vegetation adjacent to the lease. Further, the relocation will avoid impacts to rocky outcrop areas which were within the previous well site footprint. This change is seen to be a net environmental benefit through the avoidance of permanent impacts to rocky outcrop areas and the ability to rehabilitate the entire relocated / resized well site upon plug and abandonment of the well.
	Sump extension	The current dimensions for the approved sump for the WM29 well site are: 33m x 28m x 3m (top of sump measurements) = 1,446m ³	The current sump is proposed to be extended to the following dimensions: 33m x 30m x 3m (top of sump measurements) resulting in a volume = 1592m ³	The resultant change in footprint is (990m ² – 924m ² = 66m ²). The update of the sump sizing is to accommodate the supplier sump liner standards which requires decreased batter slopes to minimum 3:1. Compliance with installation standards is seen to be a reduction in overall environmental risk. Further, the additional ground disturbance will occur within the disturbed well pad area and not require additional clearing beyond the updated footprint to accommodate the sump.
Flora and fauna impacts	Well site relocation and extension	The ecological assessment undertaken for WM29 did not identify any threatened flora or fauna within the clearing footprint however, incidental flora impacts were associated with the proposed alignment and resulted in approximately 1.83ha of clearing.	The ecological assessment undertaken for WM29 included the area proposed to be disturbed by the well site relocation and extension and identified no instances of threatened fauna of flora noted in this location either.	The relocation and extension of the well site will result in a 0.68ha increase in clearing however the additional clearing is seen to be offset by avoiding permanent impacts to rocky outcrop areas and any associated habitat. Further, the new location will be able to be more readily rehabilitated and any interim impact to habitat through development of the well site will be able to be reconciled to a superior level through reinstatement to a more natural land form during rehabilitation activities to reduce the well pad and after plug and abandonment of the well. Over the life of the well this is seen to e a net reduction in environmental impact.
	Sump extension	The current dimensions for the approved sump for the WM29 well site are: 33m x 28m x 3m (top of sump measurements) = 1,446m ³	The current sump is proposed to be extended to the following dimensions: 33m x 30m x 3m (top of sum measurements) resulting in a volume = 1,592m ³	The increased ground disturbance to accommodate the larger sump footprint (an additional 66m ²) will be confined to the already disturbed well site area and will not necessitate any further clearing beyond the updated well pad boundaries. Therefore there is no net increase in environmental impact to flora and fauna expected through this change.
Stakeholder impacts	Well site relocation and extension	Stakeholder impacts have been managed as per the engagement process detailed within the EMP. Traditional Owners have been addressed on the proposed wells and feedback noted / addressed.	The proposed WM29 well site extension will take place within a footprint that has been approved by AAPA and CLC.	As the proposed well site area has already been approved for development by AAPA and CLC no further updates or impact to stakeholders are expected by the change.

WM29 well site relocation / extension and sump extension – Risk Assessment				
Category	Modification	Currently approved option	Proposed option	Differences / Comments
	Sump extension	The proposed sump is positioned within the proposed disturbance footprint for the well site which has been approved by AAPA and CLC.	The proposed sump is positioned within the proposed disturbance footprint for the well site which has been approved by AAPA and CLC.	There is no effective impact to stakeholder interests through the minor increase to the sump size.
EMP sub plan	Well site relocation and extension	The EMP sub-plans have been reviewed by DEPWS and approved for the scope of works detailed in the EMP.	The proposed realignment will result in less environmental impact and will not require any update to the current EMP sub-plans. Provisions for CLC engagement are already included and do not require modification.	No update to existing stakeholder negotiations is required to accommodate the proposed changes to the WM29 well site.
	Sump extension	The EMP subplans for the approved EMP were developed accounting for a sump of 1.6ML in volume which has been approved by DEPWS	The proposed sump will sit within the extended well site footprint and all EMP subplans have been developed around an estimated 1.6ML sump which is greater than the proposed capacity of the updated sump.	Given the EMP subplans have been developed accounting for a 1.6ML sump no changes are required, and no increase in environmental risk is expected.
Achievement of environmental outcomes	Well site relocation and extension	Environmental outcomes were developed against the submitted well site footprint and management measures developed accordingly.	The updated flowline alignment results in a lesser environmental impact and therefore improves upon the currently approved environmental outcomes.	Overall, the extended well pad results in a superior environmental outcome against all elements of the triple bottom line (environmental, social and economic). Ultimately it is therefore seen as an improvement on the current well site sizing.
	Sump extension	The environmental outcomes were developed accounting for a sump of 1.6ML	The proposed sump is less than 1.6ML and the established environmental outcomes are therefore still considered appropriate.	The increased sump size does not exceed 1.6ML and therefore the approved environmental outcomes in the current EMP are considered appropriate and achievable.

Submit this notice and supporting information to Onshoregas.depws@nt.gov.au

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Table 2: WM30 Risk Assessment













WM30 well site extension and sump extension – Risk Assessment				
Category	Modification	Currently approved option	Proposed option	Differences / Comments
Required ground disturbance	Well site relocation and extension	The current proposed ground disturbance footprint for the WM30 well site = <u>1.71ha</u>	The new proposed ground disturbance footprint for the WM30 well site = <u>2.85ha</u>	<p>The extension of the well site will result in a 1.14ha increase in clearing however, the extension will bring the well site closer to the existing field access road and reduce the distance of the access track required to the previous WM30 footprint. Further, chemicals and fuels being transported to the well pad will have almost direct access to hardstand areas reducing the potential environmental impact in the event of a spill.</p> <p>Similarly, the increased lease will increase the buffer between regulated activities on the lease and the adjacent environment / vegetation, reducing the risk of impacts beyond the lease in the event of a spill.</p> <p>The changes in risk for spills vs vegetation are considered to negate each other resulting in no net increase in environmental risk.</p>
	Sump extension	The current dimensions for the approved sump for the WM30 well site are: 33m x 28m x 3m (top of sump measurements) = 1,446m ³	The current sump is proposed to be extended to the following dimensions: 33m x 30m x 3m (top of sum measurements) resulting in a volume = 1592m ³	The resultant change in footprint is (990m ² – 924m ² = 66m ²). The update of the sump sizing is to accommodate the supplier sump liner standard which requires decreased batter slopes to minimum 3:1. Compliance with installation standards is seen to be a reduction in overall environmental risk. Further, the additional ground disturbance will occur within the disturbed well pad area and not require additional clearing beyond the updated footprint to accommodate the sump.
Flora and fauna impacts	Well site relocation and extension	The ecological assessment undertaken for WM30 did not identify any threatened flora or fauna within the clearing footprint however, incidental flora impacts were associated with the proposed alignment and resulted in approximately 1.71ha of clearing.	The ecological assessment undertaken for WM30 included the area proposed to be disturbed by the well site relocation and extension. There were no instances of threatened fauna of flora noted in this location either.	<p>The extension of the well site will result in a 1.14ha increase in clearing however, the extension will bring the well site closer to the existing field access road and reduce the distance of the access track required to the previous WM30 footprint. Further, chemicals and fuels being transported to the well pad will have almost direct access to hardstand areas reducing the potential environmental impact in the event of a spill.</p> <p>Similarly, the increased lease will increase the buffer between regulated activities on the lease and the adjacent environment / vegetation, reducing the risk of impacts beyond the lease in the event of a spill.</p> <p>The changes in risk for spills vs vegetation are considered to negate each other resulting in no net increase in environmental risk.</p>
	Sump extension	The current dimensions for the approved sump for the WM30 well site are: 33m x 28m x 3m (top of sump measurements) = 1,446m ³	The current sump is proposed to be extended to the following dimensions: 33m x 30m x 3m (top of sum measurements) resulting in a volume = 1,592m ³	The increased ground disturbance to accommodate the larger sump footprint (an additional 66m ²) will be confined to the already disturbed well site area and will not necessitate any further clearing beyond the updated well pad boundaries. Therefore there is no net increase in environmental impact to flora and fauna expected through this change.

WM30 well site extension and sump extension – Risk Assessment				
Category	Modification	Currently approved option	Proposed option	Differences / Comments
Stakeholder impacts	Well site relocation and extension	Stakeholder impacts have been managed as per the engagement process detailed within the EMP. Traditional Owners have been addressed on the proposed wells and feedback noted / addressed.	The proposed flowline realignment does require minor clearing within a Restricted Work Area (RWA) as determined by the Central Land Council (CLC). The CLC has been notified and has provided their approval via email correspondence. There are no other stakeholders impacted by the change in alignment.	As the proposed well site area has already been approved for development by AAPA and CLC no further updates or impact to stakeholders are expected by the change.
	Sump extension	The proposed sump is positioned within the proposed disturbance footprint for the well site which has been approved by AAPA and CLC.	The proposed sump is positioned within the proposed disturbance footprint for the well site which has been approved by AAPA and CLC.	There is no effective impact to stakeholder interests through the minor increase to the sump size.
EMP sub plan	Well site relocation and extension	The EMP sub-plans have been reviewed by DEPWS and approved for the scope of works detailed in the EMP.	The proposed realignment will result in less environmental impact and will not require any update to the current EMP sub-plans. Provisions for CLC engagement are already included and do not require modification.	No change required.
	Sump extension	The EMP subplans for the approved EMP were developed accounting for a sump of 1.6ML in volume which has been approved by DEPWS	The proposed sump will sit within the extended well site footprint and all EMP subplans have been developed around an estimated 1.6ML sump which is greater than the proposed capacity of the updated sump.	Given the EMP subplans have been developed accounting for a 1.6ML sump no changes are required, and no increase in environmental risk is expected.
Achievement of environmental outcomes	Well site relocation and extension	Environmental outcomes were developed against the submitted flowline alignment and management measures developed accordingly.	The updated flowline alignment results in a lesser environmental impact and therefore improves upon the currently approved environmental outcomes.	Overall, the extended well pad results in a superior environmental outcome against all elements of the triple bottom line (environmental, social and economic). Ultimately it is therefore seen as an improvement on the current well site sizing.
	Sump extension	The environmental outcomes were developed accounting for a sump of 1.6ML	The proposed sump is less than 1.6ML and the established environmental outcomes are therefore still considered appropriate.	The increased sump size does not exceed 1.6ML and therefore the approved environmental outcomes in the current EMP are considered appropriate and achievable.

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Attachment 1 - Updated Figure 2: Location of proposed development wells WM29 and WM30

Camp Location

-  Proposed well surface location
-  Existing wells
-  Proposed camp location
-  Indicative pipeline
-  Proposed well lease
-  Facility
-  Ponds
-  Flare Pit
-  CLC Exclusion Zone
-  CLC Restricted Work Area
-  Gas pipeline
-  Oil pipeline
-  roads

ID: 0600-111

Rev:

Date: 16/07/2024

Map Scale is 1:39,297 when printed at A4
Coordinate System: GDA 1994 MGA Zone 52



0"E

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Attachment 2 - Updated Figure 3: Location of WM29 well site – well site, access track, flowline corridor

ID: 0574-027
Rev:
Date: 18/07/2024

Map Scale is 1:2,219 when printed at A3
Coordinate System: GDA 1994 MGA Zone 52

Proposed WM29 Location

- Appraisal well surface location
- Indicative pipeline
- Access proposed centreline
- Indicative drilling direction
- ⊞ Indicative pipeline corridor (30m wide)
- WM29 proposed lease

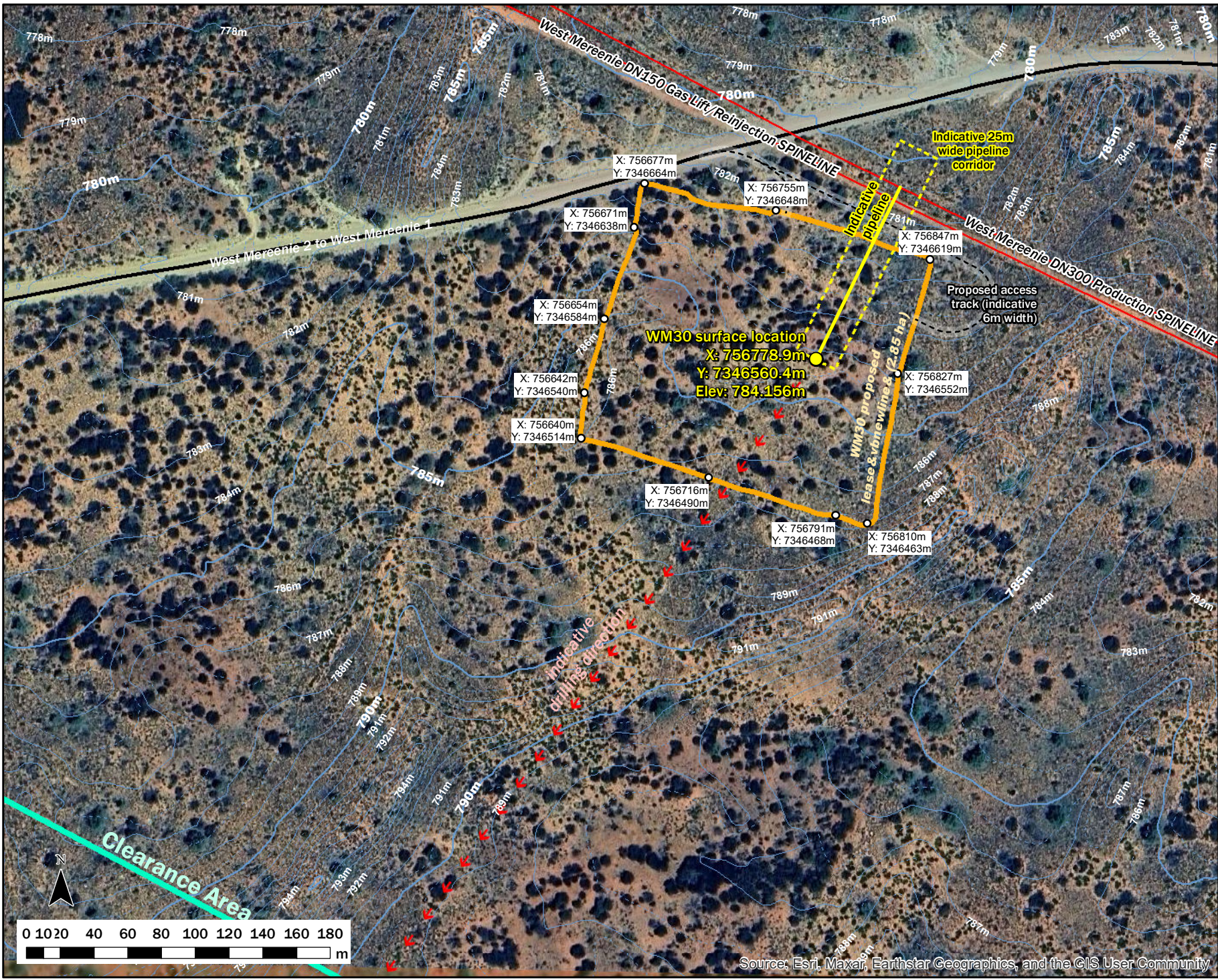
- Key sites (25m buffer)
- ▲ Archaeology sites (T. Hill 2022)
- Clearance Area
- Archaeological constraints (11/10/2022)
- Mereenie to Alice Springs Pipeline
- Amadeus to Darwin Gas Trunkline (APA)

- Gas pipeline
- roads
- 5m contours
- 1m contours
- 0.5m contours



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Attachment 3 - Updated Figure 4: Location of WM30 well site - well site, access track, flowline corridor



Proposed WM30 Location - Imagery

- Appraisal well surface location
- Indicative pipeline
- - - Access proposed centreline
- ➔ Indicative drilling direction
- Indicative pipeline corridor (25m wide)
- WM30 proposed lease
- Clearance Area
- Gas pipeline
- roads
- 5m contours
- 1m contours
- - - 0.5m contours

WM30 surface location
 X: 756778.9m
 Y: 7346560.4m
 Elev: 784.156m

X: 756677m
 Y: 7346664m

X: 756755m
 Y: 7346648m

X: 756847m
 Y: 7346619m

X: 756671m
 Y: 7346638m

X: 756654m
 Y: 7346584m

X: 756642m
 Y: 7346540m

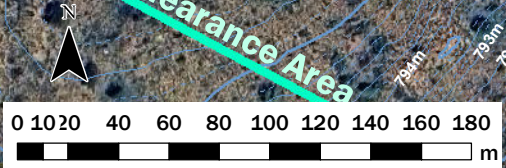
X: 756640m
 Y: 7346514m

X: 756716m
 Y: 7346490m

X: 756791m
 Y: 7346468m

X: 756810m
 Y: 7346463m

X: 756827m
 Y: 7346552m



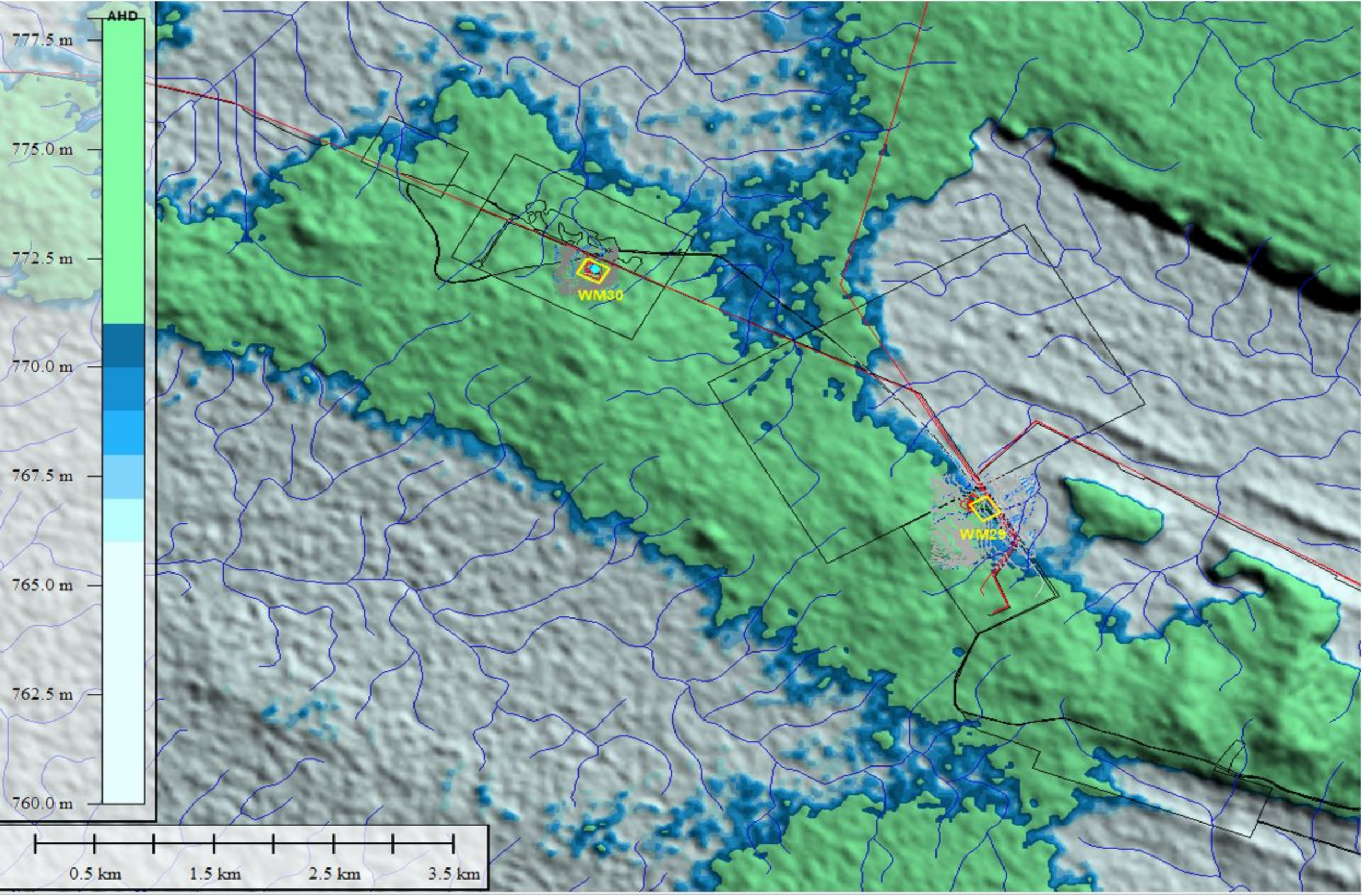
ID: 0574-016
 Rev: F
 Date: 18/07/2024
 Map Scale is 1:3,000 when printed at A4
 Coordinate System: GDA 1994 MGA Zone 52



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

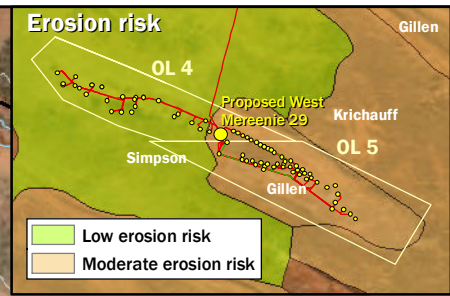
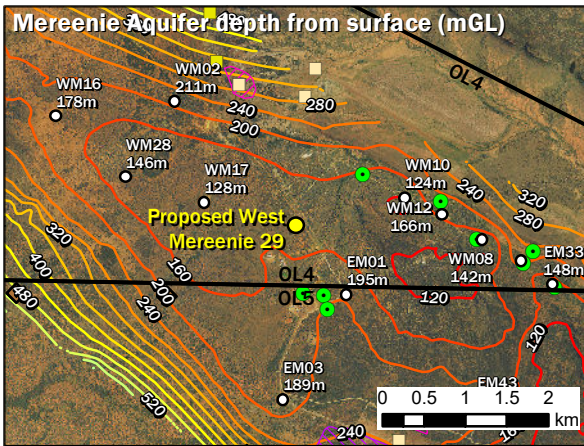
Modification Notice - Regulation 22

Attachment 4 - Updated Figure 5: Elevation (AHD) and flood risk



Modification Notice - Regulation 22

Attachment 5 - Updated Figure 6: Environmental sensitivity mapping for the WM29 environs

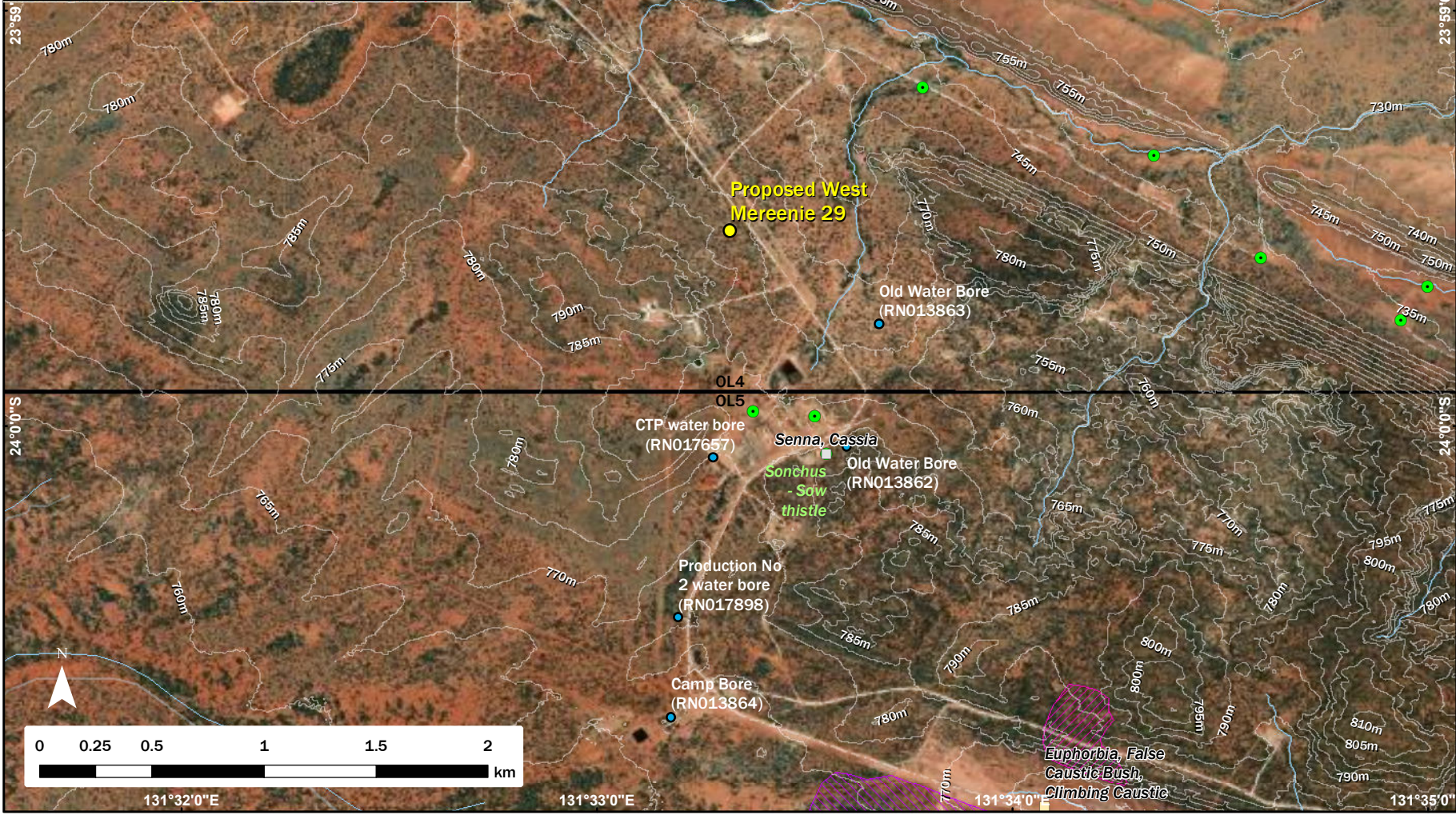


Environmental Sensitivity Map - West Mereenie 29

- Proposed well
- Water bore
- Conservation Significant Flora (TPWCA Status)
 - Critically Endangered
 - Data Deficient
 - Endangered
 - Near Threatened
 - Vulnerable
- Conservation Significant Fauna (TPWCA Status)
 - ◆ Critically Endangered
 - Data Deficient
 - ◆ Endangered
 - Near Threatened
 - ◆ Vulnerable
- Environmental Weeds
- Permits
- TPWCA Near Threatened Flora Populations
 - brilliant hopbush
 - false caustic bush
- Streams (modified CTP after NT Drainage Lines)
- 5m riparian zone

ID: 0600-110
Rev:
Date: 3/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS WGS 1984

Streams modified to match imagery and DEM by Central Petroleum after NT Drainage Lines. Australian Hydrological Geospatial Fabric (Geofabric) V2.1.1 Modified by: DENR. Significant Flora (TPWCA Status) - Department of Environment and Natural Resources, Parks and Wildlife Commission of the Northern Territory, 2000. Central Petroleum Flora and Fauna Assessment. Significant Fauna (TPWCA Status), Land Systems from Department of Environment and Natural Resources - Copyright Northern Territory Government. Environmental Weeds from 'Low Ecological Services Pty Ltd, 2019 - Central Petroleum Mereenie Weed Management Plan' and Department of Environment and Natural Resources. TPWCA Near Threatened Flora Populations - Parks and Wildlife Commission of the Northern Territory, 2000. Central Petroleum Flora and Fauna Assessment.



Modification Notice - Regulation 22

Attachment 6 - Updated Figure 8: WM29 indicative layout and erosion and sediment controls

EROSION AND SEDIMENT CONTROL PLAN

WEST MEREENIE WELL PAD WM29 - STAGE 2 ESCP BULK EARTHWORKS

NOTES:
This drawing is reproduced by Aqua Environmental Consulting from the design plans supplied by Central Petroleum.

Note: where inground excavation for catch drains and sediment controls prove challenging due to rocky ground conditions, install erosion controls (any form of ground cover including soil binders, geotextile or mulch as a means to minimise the impacts of erosion and sedimentation as a result of the proposed works.

Install sediment trap/trench with a rock filter dam (in the lowest point of the catchment) outlet to allow the settlement and filtration of sediments from the dirty water drain prior to any offsite discharge. Refer to sediment trench/rock filter dam design details for installation procedures. Note: where soil conditions are gravelly and rocky and unable to excavate inground sediment controls, install a rock pad to allow for the settlement and filtration of sediments prior to offsite discharge.

Note: site laydown area and site amenities/office location to be confirmed. Assumed to be outside of the well pad footprint.

Form proposed cut batters as soon as possible during bulk earthworks and utilise as dirty water catch drains to convey dirty water runoff and direct to the inground sediment control device. (refer to typical design details attached for catch drain and sediment trench/rock filter dam). Note: Alternatively dirty water drain to also act as inground sediment control provided rock checks are installed at approximately 40m intervals along the cut drain.

Ensure all material stockpiles are protected with a downslope bund/sediment fence or covered with geotextile or similar to minimise soils exposure and the resultant erosion and offsite discharge of sediment laden runoff.

Divert all upslope clean water runoff away from the works area using earth bunds, sand bags, or similar. Refer to attachments for diversion bund design details).

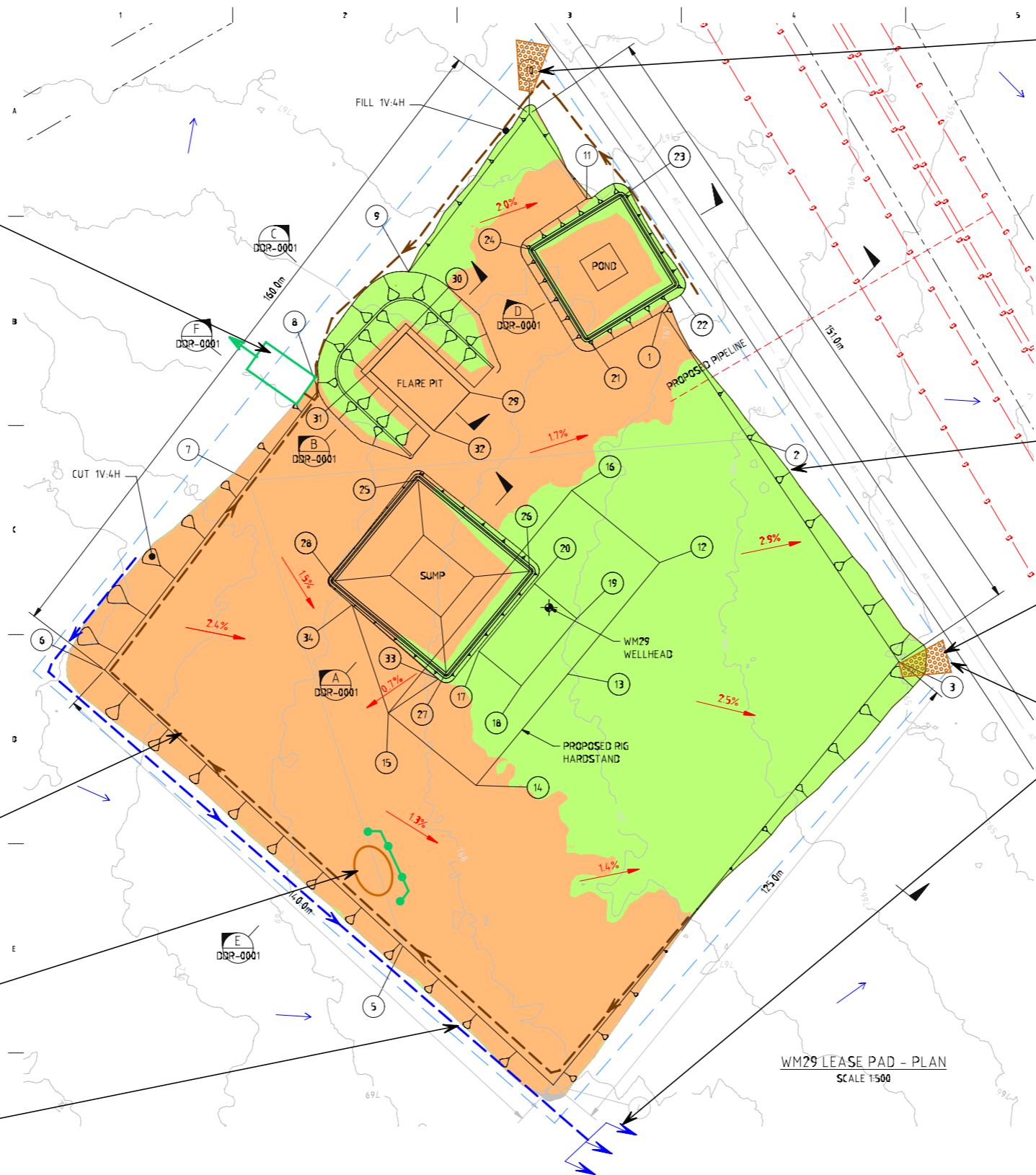
Where required, install stabilised rock pad entry exit to identify vehicle entry/exit points. Note: Entrance Road appears to be dirt road, therefore a stabilised rock pad or rumble grid entry/exit is not warranted as a means to minimise sediment transportation onto the Road. Instead regular dust suppression using water tankers are to be undertaken to minimise wind erosion and offsite sediment transportation.

Where the proposed sump, flare pit and pond are constructed before the bulk excavation works, then utilise these where possible as an alternative to inground sediment controls during and until the completion of bulk earthworks. Any dewatering operations from inground sediment control must meet the water quality objectives stipulated in this ESCP prior to offsite discharge

Stabilise all fill batter slopes with geotextile or soil binders as soon as they are formed to minimise erosion and sedimentation risks from exposed slope batters.

Where required, install stabilised rock pad entry exit to identify vehicle entry/exit points. Note: Entrance Road appears to be dirt road, therefore a stabilised rock pad or rumble grid entry/exit is not warranted as a means to minimise sediment transportation onto the Road. Instead regular dust suppression using water tankers are to be undertaken to minimise wind erosion and offsite sediment transportation.

Install a level spreader at the outlet of the clean water diversion drain. This will divert concentrated flows into sheet flows for offsite discharge in a manner that minimises the risk of any erosion/scouring in the adjacent offsite discharge areas.



LEGEND	
	direction of surface water flows
	indicative location of stockpile (TBC)
	upslope clean water diversion bunds
	dirty water catch drain
	Type 3 sediment fence or similar
	Rock pad or rumble grid site entry exit (TBC)
	Type 2 sediment control (sediment trench, rock filter dam or similar)
	proposed well pad footprint
	indicates proposed fill footprint
	indicates proposed cut footprint

WM29 LEASE PAD - PLAN
SCALE 1:500



EROSION AND SEDIMENT CONTROL PLAN			WEST MEREENIE WELL PAD WM29		DWG No: 10033-04
SCALE 1:1250@A3			ALICE SPRINGS, NORTHERN TERRITORY		Certified by: AC
0 25 50 75 100 125 M			BULK EARTHWORKS - STAGE 2 ESCP		CPESC 8333/RPEQ 28786
Issue 1	AC	August 2024	NOT FOR CONSTRUCTION		
Revision	Prepared by / Approved by	Date			

Modification Notice - Regulation 22

Attachment 7 - Updated Figure 9: WM30 indicative layout and erosion and sediment controls

EROSION AND SEDIMENT CONTROL PLAN

WEST MEREENIE WELL PAD WM30 - STAGE 2 ESCP BULK EARTHWORKS

NOTES:
This drawing is reproduced by Aqua Environmental Consulting from the design plans supplied by Central Petroleum.

Note: where inground excavation for catch drains and sediment controls prove challenging due to rocky ground conditions, install erosion controls (any form of ground cover including soil binders, geotextile or mulch as a means to minimise the impacts of erosion and sedimentation as a result of the proposed works.

Stabilise all fill batter slopes with geotextile or soil binders as soon as they are formed to minimise erosion and sedimentation risks from exposed slope batters.

Where the proposed sump, flare pit and pond are constructed before the bulk excavation works, then utilise these where possible as an alternative to inground sediment controls during and until the completion of bulk earthworks. Any dewatering operations from inground sediment control must meet the water quality objectives stipulated in this ESCP prior to offsite discharge

Form proposed cut batters as soon as possible during bulk earthworks and utilise as dirty water catch drains to convey dirty water runoff and direct to the inground sediment control device. (refer to typical design details attached for catch drain and sediment trench/rock filter dam). Note: Alternatively dirty water drain to also act as inground sediment control provided rock checks are installed at approximately 40m intervals along the cut drain.

Ensure any material stockpiles from clearing and grubbing are protected with a downslope bund/sediment fence or covered with geotextile or similar.

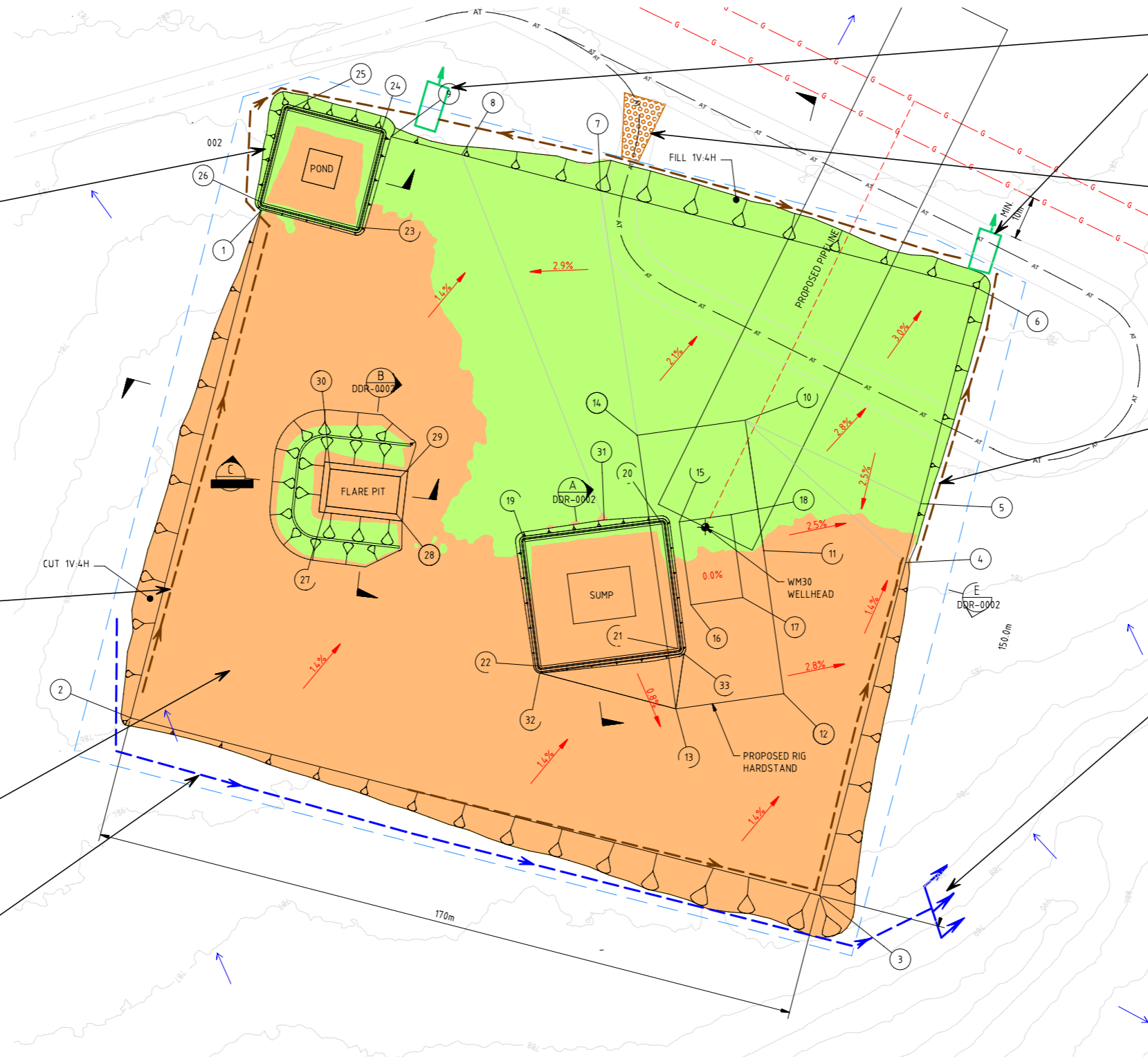
Divert all upslope clean water runoff away from the works area using earth bunds, sand bags, or similar. Refer to attachments for diversion bund design details).

Install sediment trap/trench with a rock filter dam (in the lowest point of the catchment) outlet to allow the settlement and filtration of sediments from the dirty water drain prior to any offsite discharge. Refer to sediment trench/rock filter dam design details for installation procedures. Note: where soil conditions are gravelly and rocky and unable to excavate inground sediment controls, install a rock pad to allow for the settlement and filtration of sediments prior to offsite discharge.

Where required, install stabilised rock pad entry exit to identify vehicle entry/exit points. Note: Entrance Road appears to be dirt road, therefore a stabilised rock pad or rumble grid entry/exit is not warranted as a means to minimise sediment transporation onto the Road. Instead regular dust suppression using water tankers are to be undertaken to minimise wind erosion and offsite sediment transportation.

Install dirty water catch drains/bund to intercept dirty water runoff prior to clearing and grubbing works and direct to the Type 3 sediment control device. (refer to typical design details attached for catch drain and Type 3 sediment control). Note: where soils are gravelly and rocky, install earth bunds/sand bags (as opposed to excavated catch drains) to direct dirty water runoff into the Type 3 sediment control device.

In case of rainfall events during clearing and grubbing, install a level spreader at the outlet of the clean water diversion drain. This will divert concentrated flows into sheet flows for offsite discharge in a manner that minimises the risk of any erosion/scouring in the adjacent offsite discharge areas.



LEGEND















- direction of surface water flows
- indicative location of stockpile (TBC)
- upslope clean water diversion bunds
- dirty water catch drain
- - - Type 3 sediment fence or similar
- Rock pad or rumble grid site entry exit (TBC)
- Type 2 sediment control (sediment trench, rock filter dam or similar)
- proposed well pad footprint
- proposed fill footprint
- proposed cut footprint

EROSION AND SEDIMENT CONTROL PLAN		WEST MEREENIE WELL PAD WM30		DWG No:10034-04
SCALE 1:1250@A3		ALICE SPRINGS, NORTHERN TERRITORY		Certified by: AC
0 25 50 75 100 125 M		BULK EARTHWORKS - STAGE 2 ESCP		CPESC 8333/RPEQ 28786
Issue 1	AC	July 2024	NOT FOR CONSTRUCTION	
Revision	Prepared by / Approved by	Date		

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Attachment 8 - Updated Figure 17: Ecology and archaeology survey areas

Mereenie CY22 Dev App Campaign

-  Subject Area A
-  Subject Area B
-  Subject Area C
-  Subject Area D
-  Camp
-  Mereenie development wells
-  Other Mereenie wells
-  Exclusion Zones
-  Restricted Work Areas
-  Mereenie permits
-  Gas pipeline
-  Oil pipeline
-  Public Road
-  Access track

ID: 0574-005
Rev: H
Date: 3/07/2024

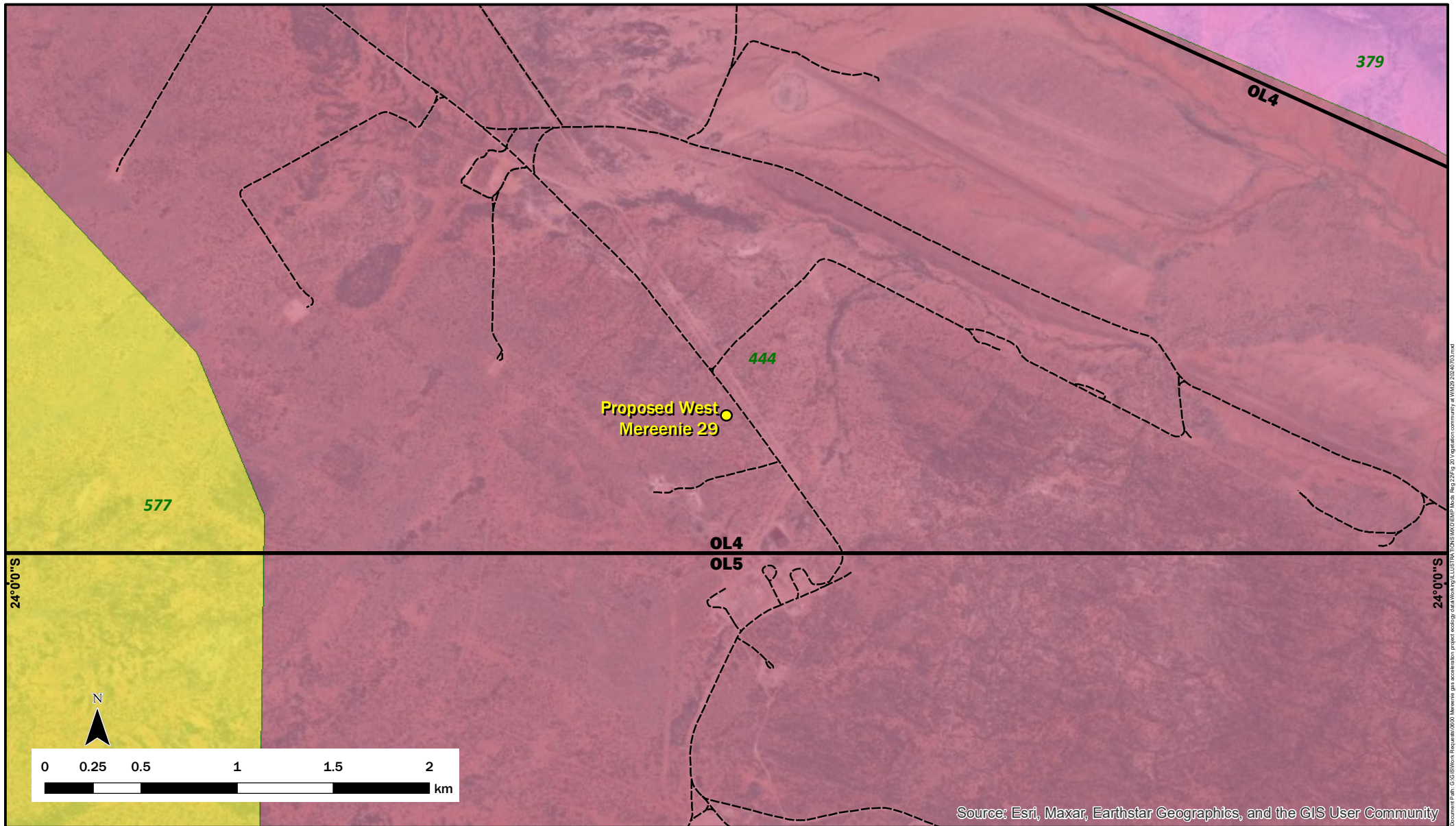
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Coordinate System: GDA 1994 MGA Zone 52



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W centralpetroleum.com.au

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Attachment 9 - Updated Figure 20: Vegetation community at WM29 environs



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

ID: 0600-108
 Rev:
 Date: 3/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS GDA 1994
 National Vegetation Information System -
 Department of Environment and Natural Resources

Vegetation communities - West Merenie 29

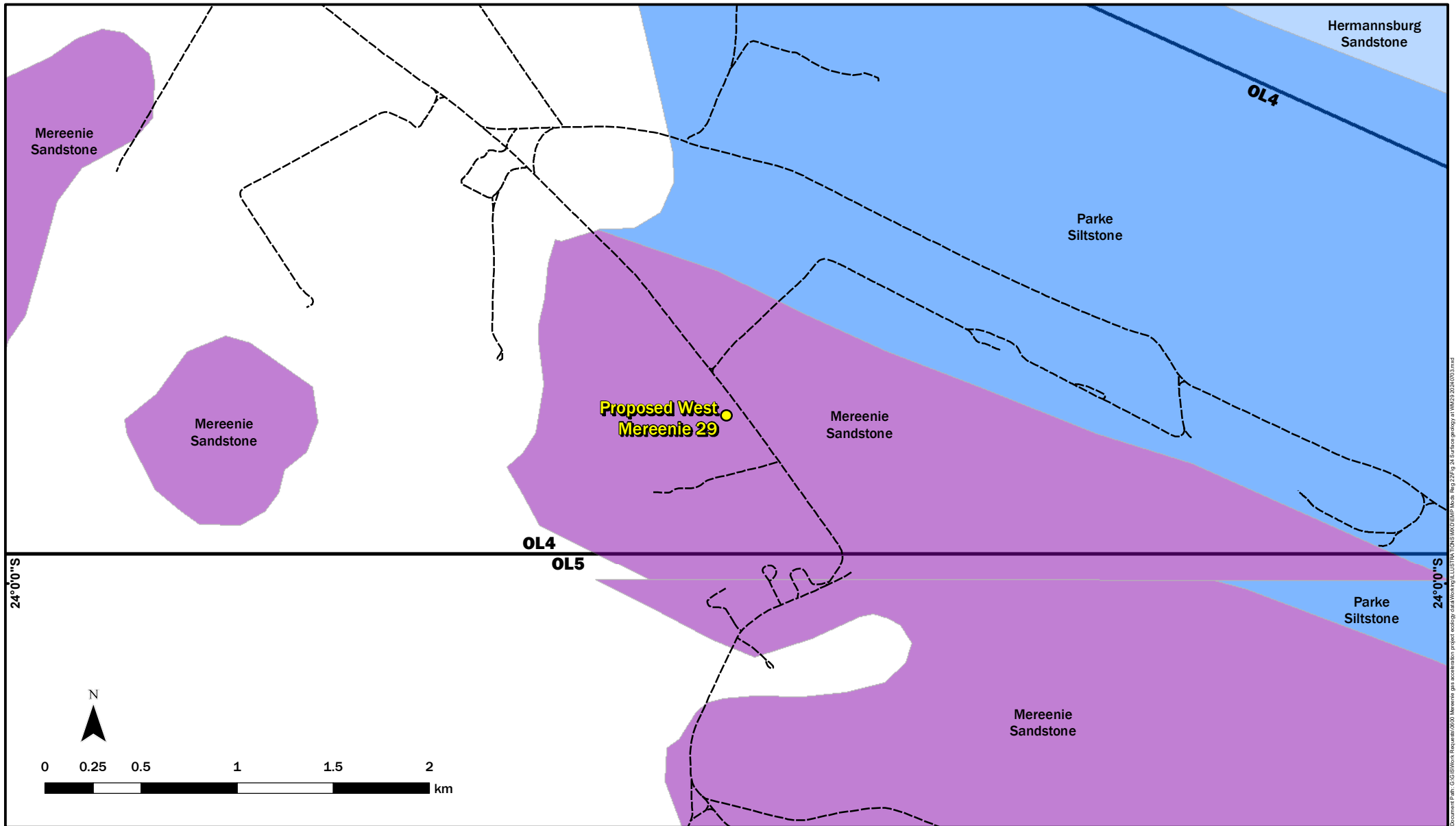
- Proposed well NVIS 2007 - Dominant Structural Formation
- Access track
- Permit
- Open shrubland
- Sparse shrubland
- Hummock grassland



Document Path: G:\GIS\Work\Reqs\0600_Merenie\pat_access\abi\project\ecology_data\NVIS\NVIS\DATA\2017\Map_2017_Vegetation_community.shp\102_02_03_17.mxd

Modification Notice - Regulation 22

Attachment 10 - Updated Figure 24: Surface geology at WM29 environs



ID: 0600-102
Rev:
Date: 3/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS GDA 1994
 250k Surface Geology - Northern Territory
 Geological Survey
 Mapped Springs - Springs of the Northern Territory,
 Department of Environment and Natural Resources

Surface geology - West Mereenie 29

- Proposed well
- Access tracks
- Hermannsburg Sandstone
- Parke Siltstone
- Merenie Sandstone
- Permit



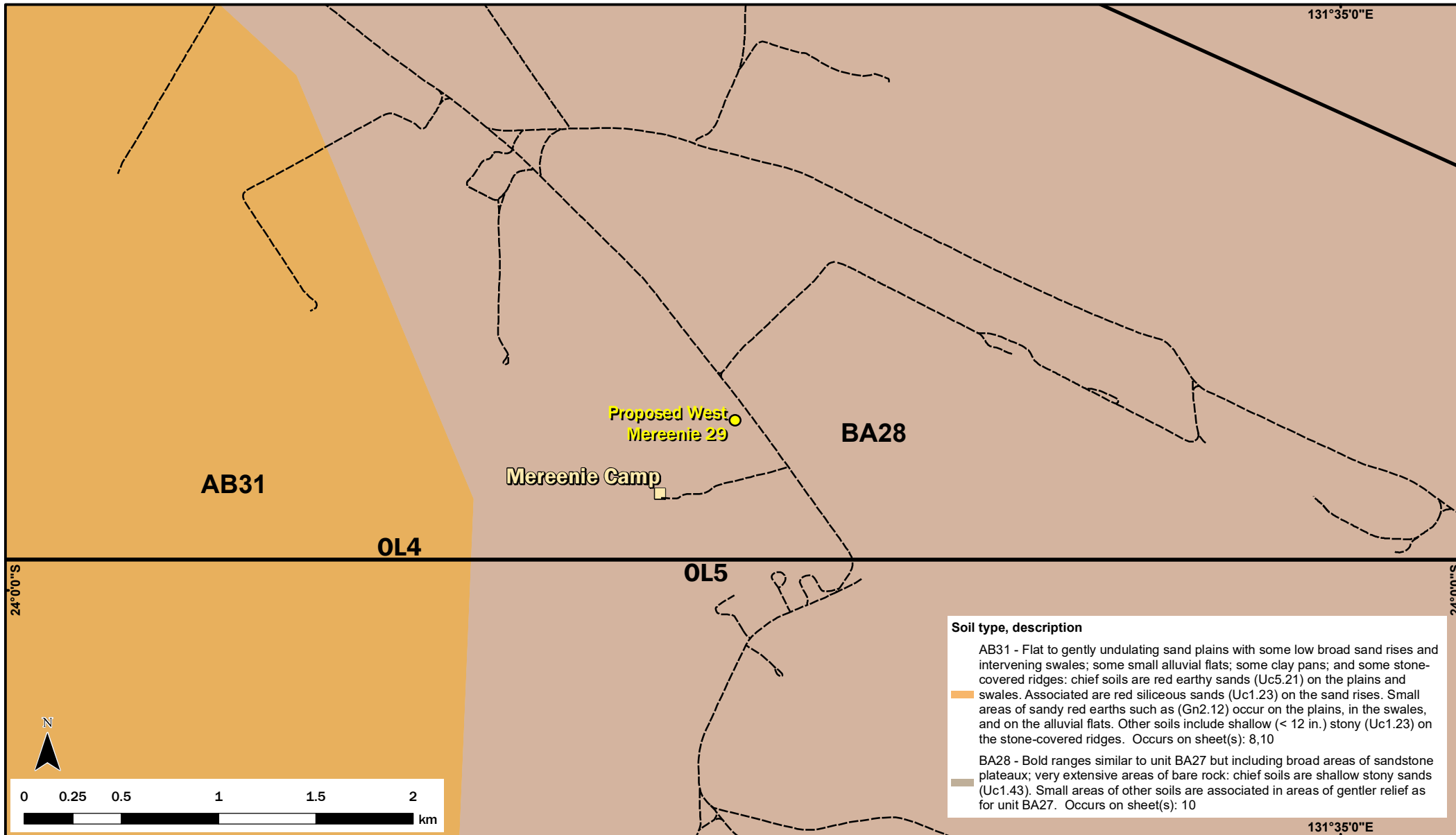
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Modification Notice - Regulation 22

Attachment 11 - Updated Figure 26: Location of WM29 relative to surface hydrology

Modification Notice - Regulation 22

Attachment 12 - Updated Figure 28: Soil type at WM29 environs



Soil type, description

AB31 - Flat to gently undulating sand plains with some low broad sand rises and intervening swales; some small alluvial flats; some clay pans; and some stone-covered ridges: chief soils are red earthy sands (Uc5.21) on the plains and swales. Associated are red siliceous sands (Uc1.23) on the sand rises. Small areas of sandy red earths such as (Gn2.12) occur on the plains, in the swales, and on the alluvial flats. Other soils include shallow (< 12 in.) stony (Uc1.23) on the stone-covered ridges. Occurs on sheet(s): 8,10

BA28 - Bold ranges similar to unit BA27 but including broad areas of sandstone plateaux; very extensive areas of bare rock: chief soils are shallow stony sands (Uc1.43). Small areas of other soils are associated in areas of gentler relief as for unit BA27. Occurs on sheet(s): 10

ID: 0600-100
 Rev:
 Date: 3/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS WGS 1984
 Digital Atlas of Australian Soils - 1991

- Soil types - West Mereenie 29**
- Proposed well
 - Access tracks
 - Mereenie Camp
 - ▭ Mereenie permit



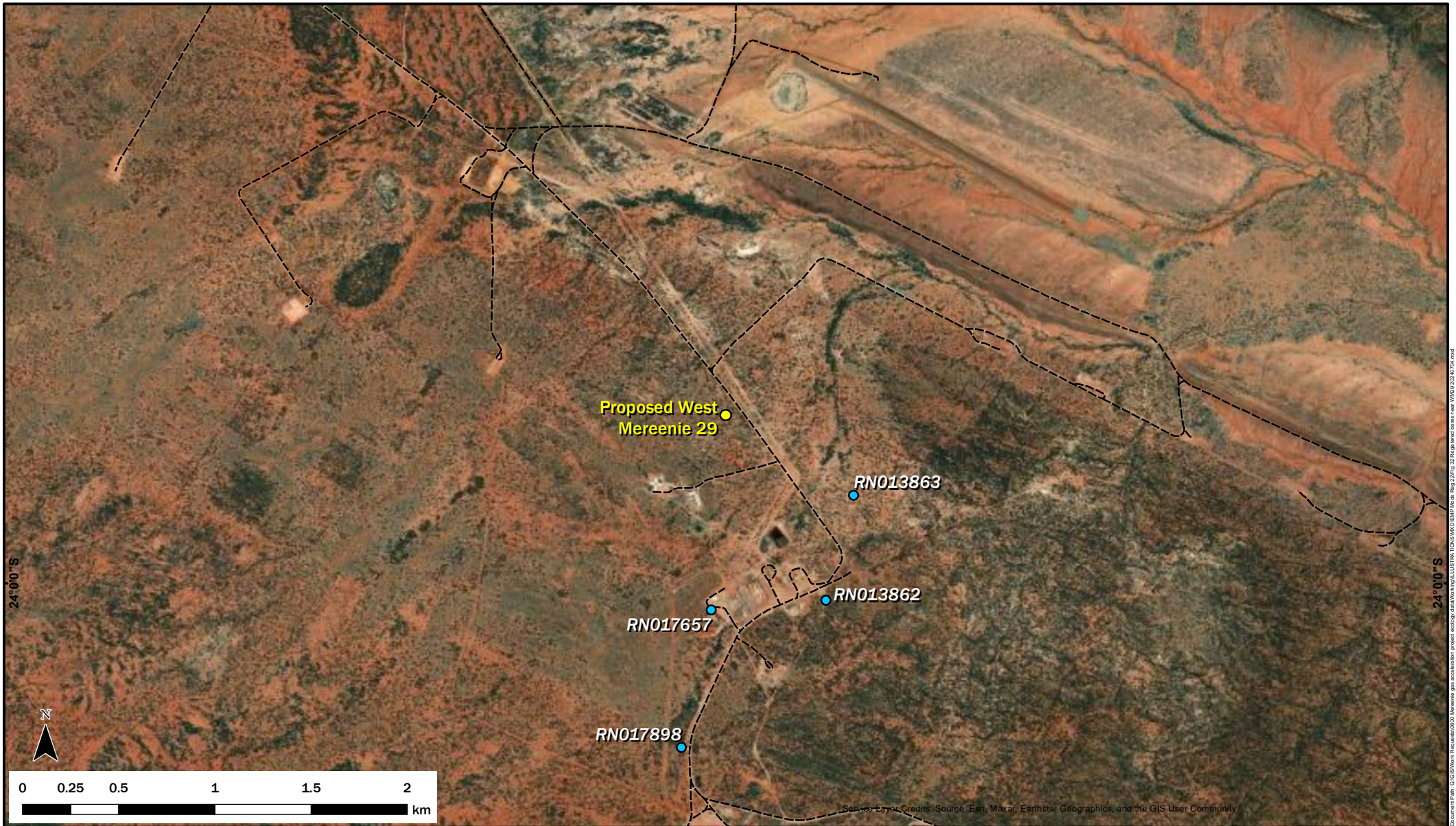
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Modification Notice - Regulation 22

Attachment 13 - Updated Figure 30: Groundwater depth contours in the vicinity of WM29

Modification Notice - Regulation 22

Attachment 14 - Updated - Figure 32: Registered bores near WM29



ID: 0600-104
 Rev:
 Date: 4/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS WGS 1984
 Water bores - Department of Environment and
 Natural Resources

Groundwater bores - West Mereenie 29

- Active water bore
- Proposed well
- Access track



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

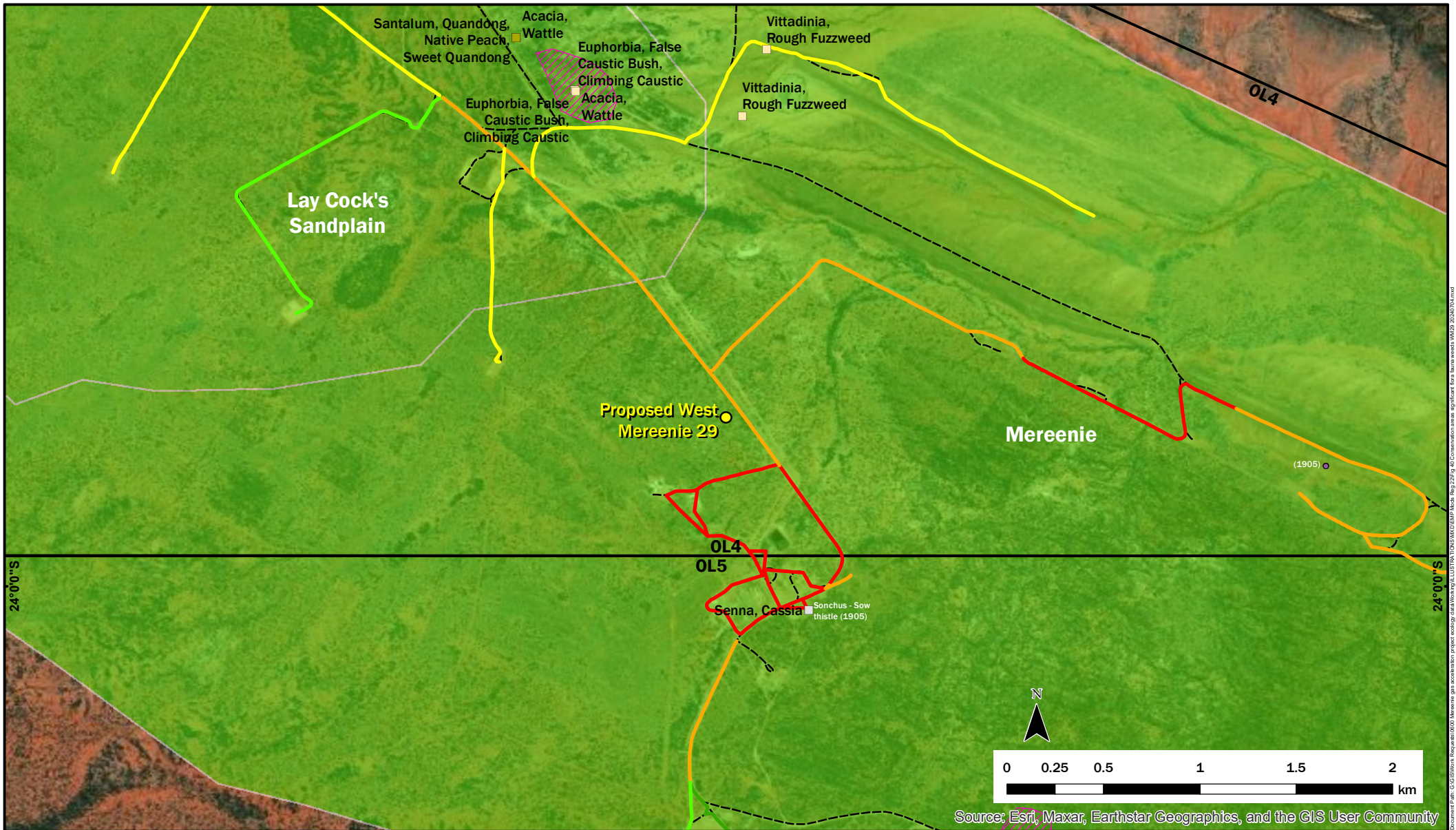
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Modification Notice - Regulation 22

Attachment 15 - Updated Figure 34: Bioregion in the vicinity of WM29 and SOBS

Modification Notice - Regulation 22

Attachment 16 - Updated Figure 40: Conservation areas, significant flora and fauna and weeds in the environs of WM29



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

ID: 0600-107
 Rev: A
 Date: 4/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS GDA 1994

Conservation areas and weeds - West Mereenie 29

Conservation Significant Flora (TPWCA Status)	Conservation Significant Fauna (TPWCA Status)	Mereenie weed densities 2021 (Low Ecological Services)	TPWCA Near Threatened Flora Populations
<ul style="list-style-type: none"> Critically Endangered Data Deficient Endangered Near Threatened Vulnerable 	<ul style="list-style-type: none"> Critically Endangered Data Deficient Endangered Near Threatened Vulnerable 	<ul style="list-style-type: none"> 1 absent 2 < 1% 3 1-10% 4 > 11% 5 > 50% 	<ul style="list-style-type: none"> Name false caustic bush Sites of Botanical Significance bioregional

Mereenie Weed Survey 2023 (Low Ecological Services)
<ul style="list-style-type: none"> Weed density Category 1 - absent Category 2 - <1% Category 3 - 1-10% Category 4 - 10-50% Category 5 - >50%

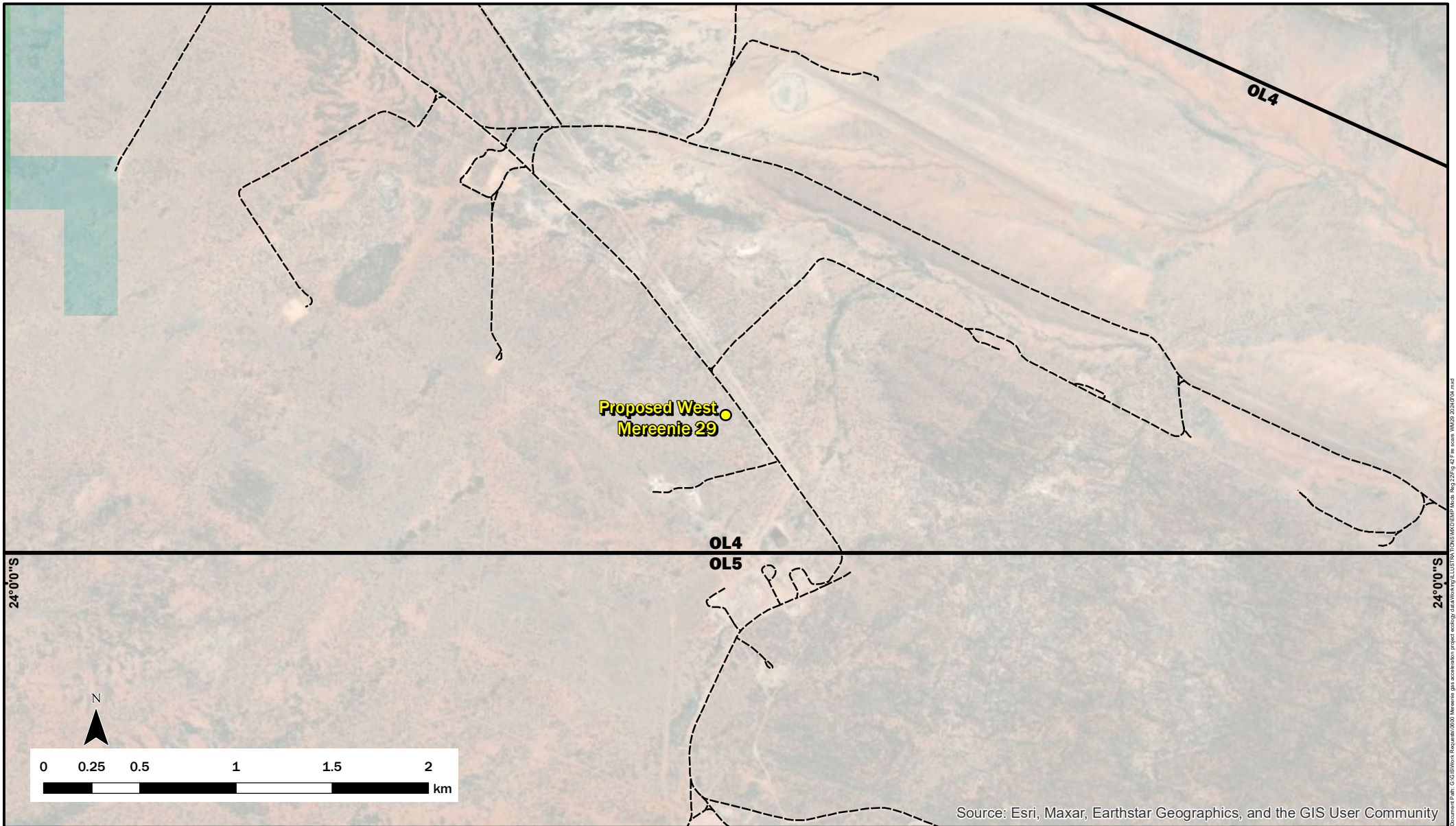
- Proposed well
- Access track
- Permit



Document Path: G:\GIS\SWWA_Requests\000_Mereenie_gis_accession_project ecology data\New\GIS\SWWA_TICKETS\000\SWWA\Map_01_Rep2269_40\Companion\area_agriculture_for_haus_weeds\WMS20240704.mxd

Modification Notice - Regulation 22

Attachment 17 - Updated Figure 42: Fire scars in the WM29 environs



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

ID: 0600-109
 Rev:
 Date: 4/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS GDA 1994
 Fire frequency - Darwin Centre for Bushfire
 Research 2024

Fire scars - West Mereenie 29

- Proposed well Years burnt 2000 - 2023
- Access track
- Unburnt
- ▭ Permit
- 1
- 2

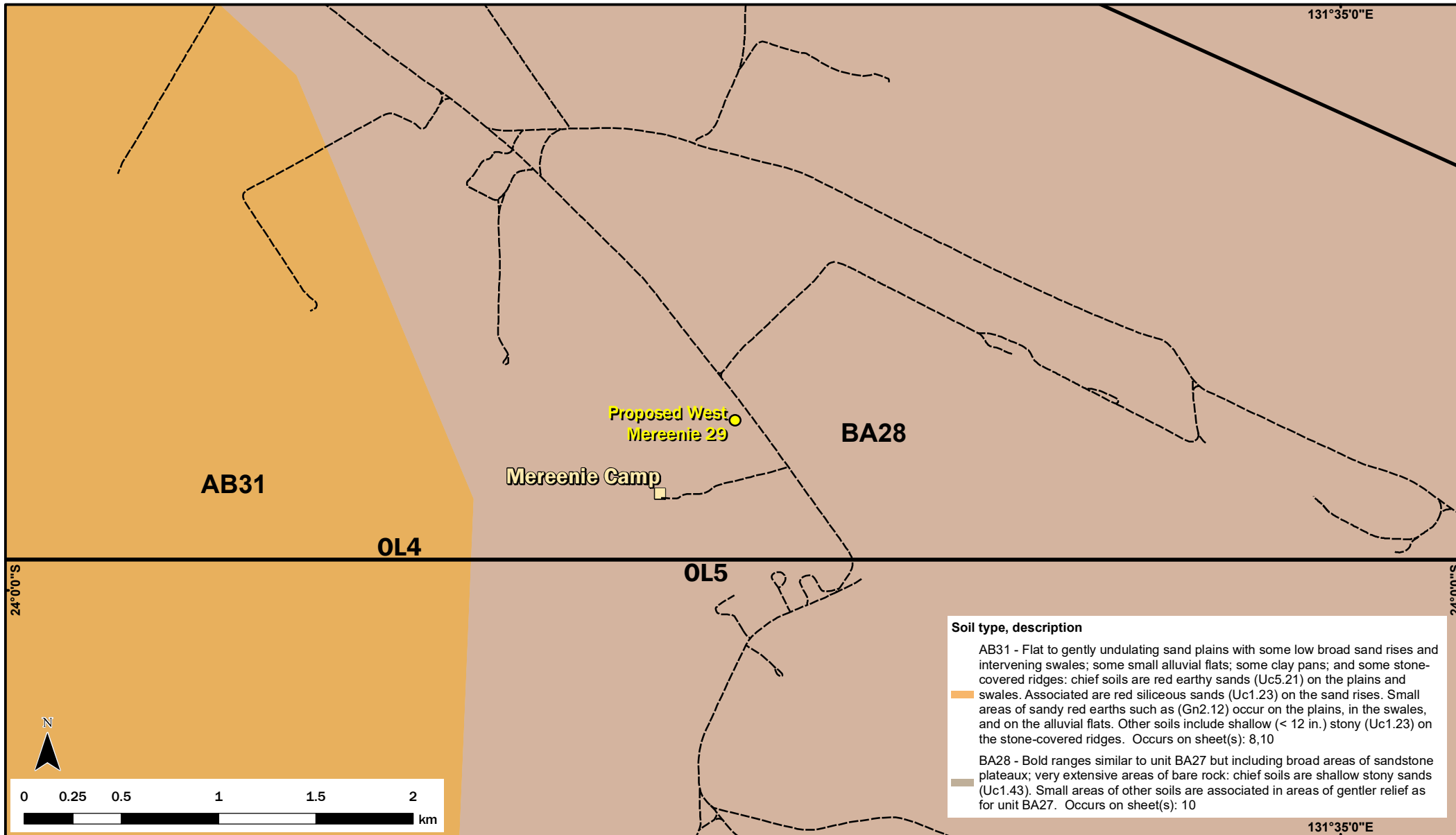


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Modification Notice - Regulation 22

Attachment 18 - Updated WM29 map in Table 32

(Soil type mapping)



ID: 0600-100
 Rev:
 Date: 3/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS WGS 1984
 Digital Atlas of Australian Soils - 1991

Soil types - West Mereenie 29

- Proposed well
- Access tracks
- Mereenie Camp
- Mereenie permit

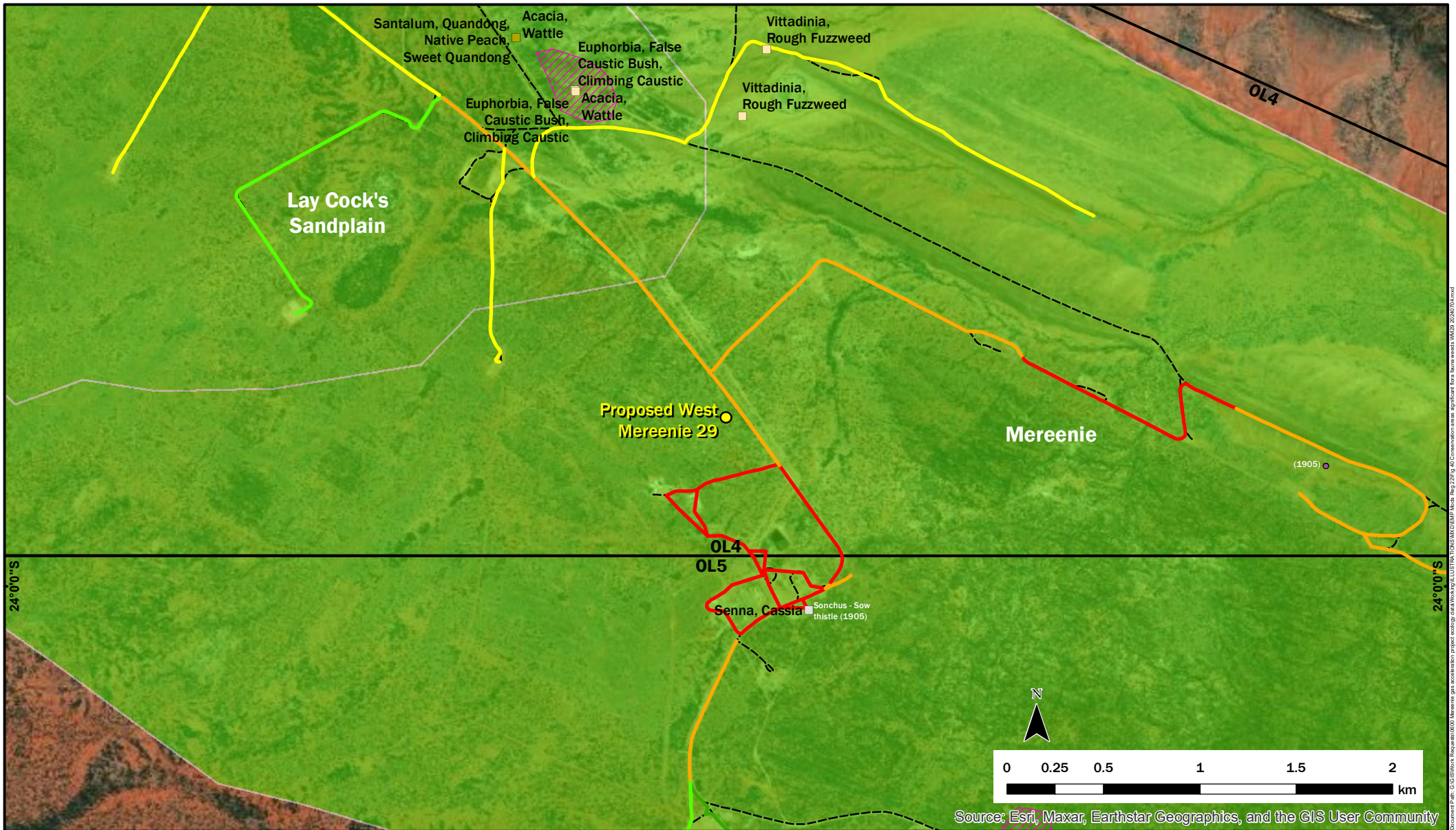


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Modification Notice - Regulation 22

Attachment 19 - Updated W29 map in Table 33

(Conservation flora and weeds)



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

ID: 0600-107
 Rev: A
 Date: 4/07/2024
 Map Scale is 1:27,000 when printed at A4
 Coordinate System: GCS GDA 1994

Conservation areas and weeds - West Mereenie 29

Conservation Significant Flora (TPWCA Status)	Conservation Significant Fauna (TPWCA Status)	Mereenie weed densities 2021 (Low Ecological Services)	TPWCA Near Threatened Flora Populations
<ul style="list-style-type: none"> Critically Endangered Data Deficient Endangered Near Threatened Vulnerable 	<ul style="list-style-type: none"> Critically Endangered Data Deficient Endangered Near Threatened Vulnerable 	<ul style="list-style-type: none"> 1 absent 2 < 1% 3 1-10% 4 > 11% 5 > 50% 	<ul style="list-style-type: none"> Name false caustic bush Sites of Botanical Significance bioregional

Mereenie Weed Survey 2023 (Low Ecological Services)

Weed density

- Category 1 - absent
- Category 2 - <1%
- Category 3 - 1-10%
- Category 4 - 10-50%
- Category 5 - >50%

- Proposed well
- Access track
- Permit



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Modification Notice - Regulation 22

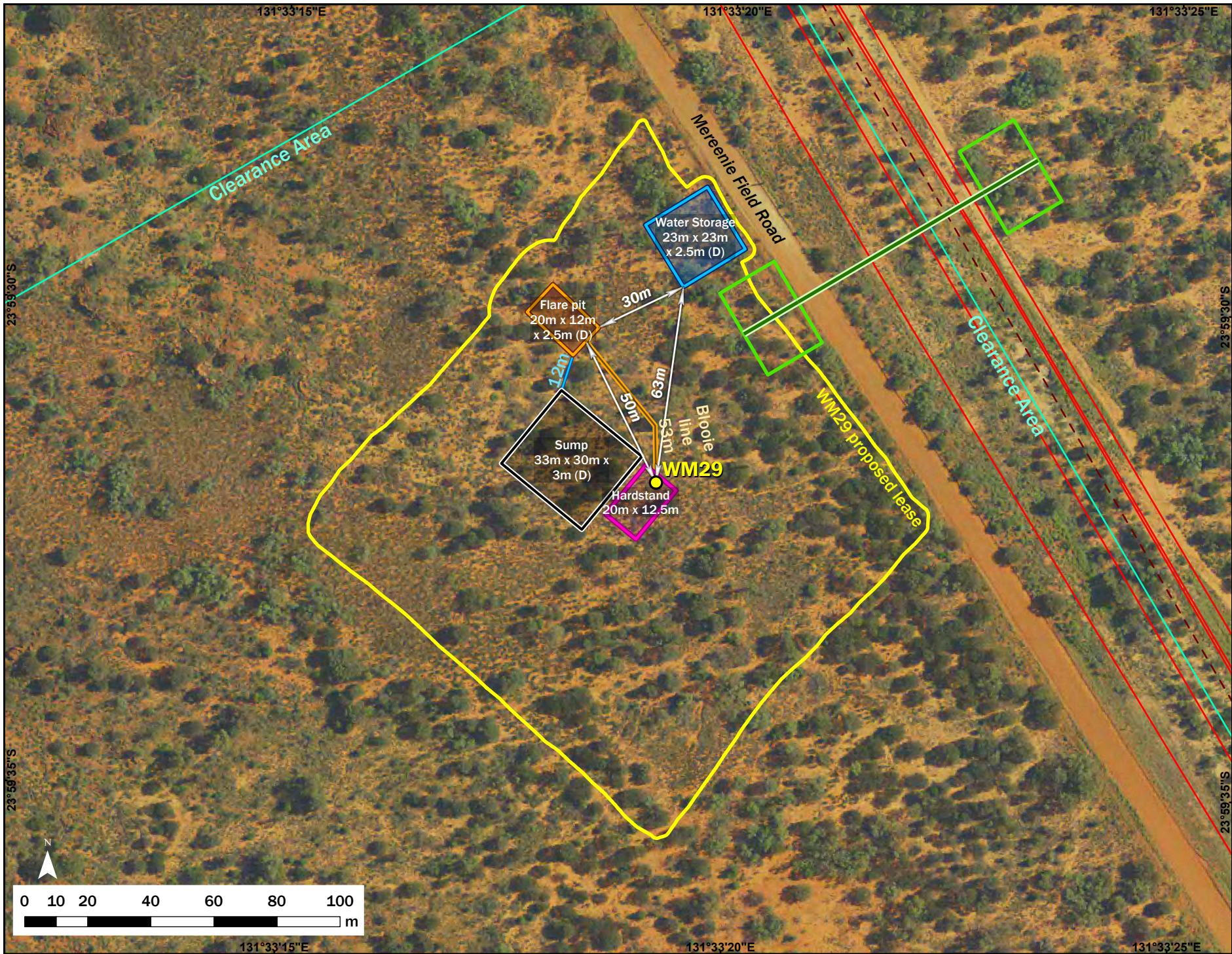
Attachment 20 -Updated WM29 map in Table 34

(Fire Scar mapping)

Modification Notice - Regulation 22

Attachment 21 - Updated WM29 & WM30 maps in Table 36

(Indicative rig layouts (WM29 & WM30))



WM29 indicative rig layout

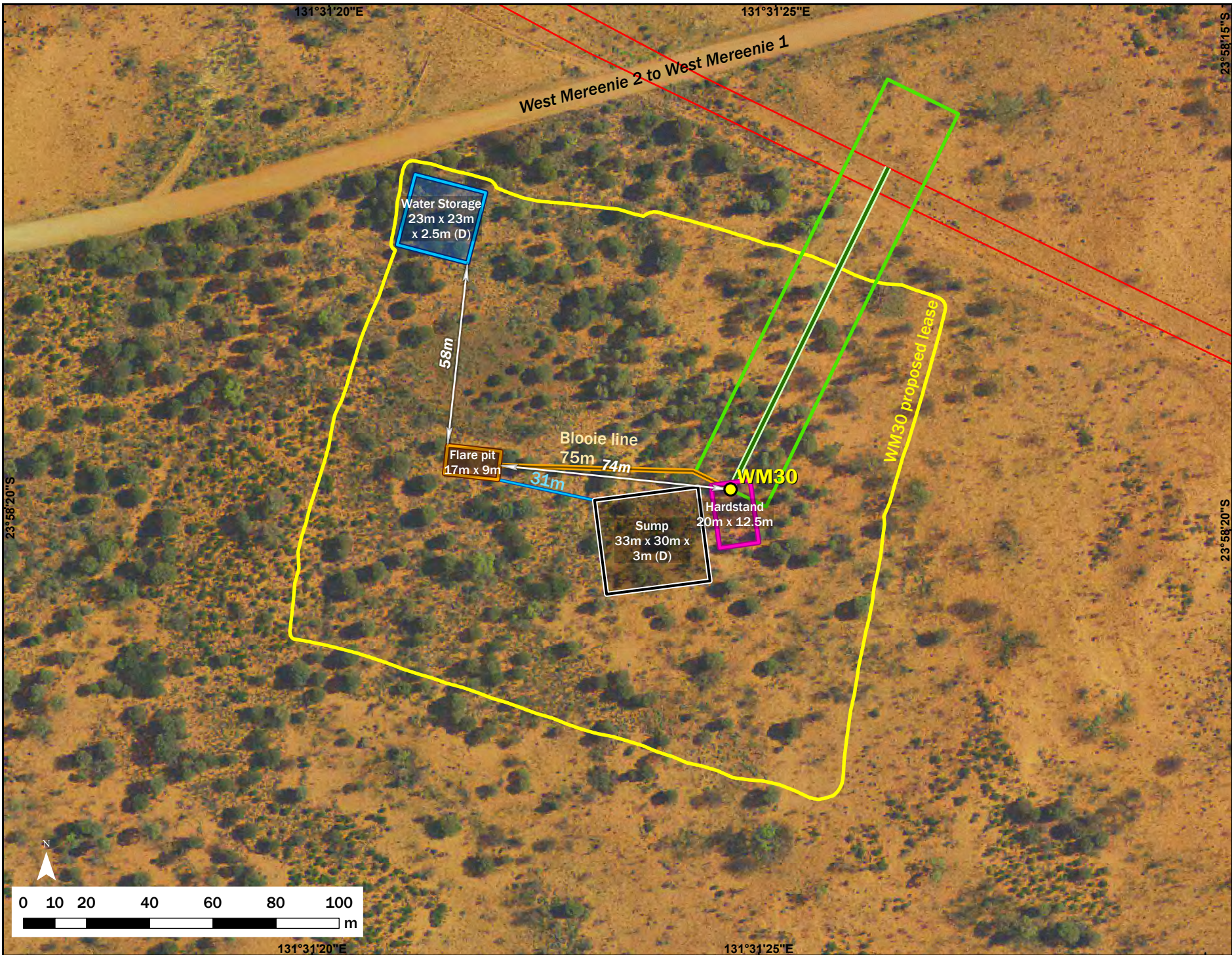
- Bloorie line
- Drain line
- Flare pit
- Sump
- Water Storage
- Hardstand
- Proposed well location
- Proposed pipeline
- Proposed pipeline corridor
- Clearance area
- Proposed lease
- Gas pipeline
- Out of service pipeline

ID: 0574-028
 Rev: A
 Date: 16/07/2024

Map Scale is 1:1,570 when printed at A4
 Coordinate System: GDA 1994 MGA Zone 52

Sources:





WM30 indicative rig layout

- Blooie line
- Drain line
- Flare pit
- Sump
- Water Storage
- Hardstand
- Proposed well location
- Proposed pipeline
- Proposed pipeline corridor
- Clearance area
- Proposed lease
- Gas pipeline

ID: 0574-028
 Rev: A
 Date: 16/07/2024
 Map Scale is 1:1,570 when printed at A4
 Coordinate System: GDA 1994 MGA Zone 52
 Sources:

