
TANAMI GAS PIPELINE
ANNUAL COMPLIANCE ASSESSMENT REPORT
EPBC 2017 / 7997

E-REP-069

Rev 1

Document History

Rev	Date	Prepared By	Reviewed By	Approved By	Description
0.1	16/8/2022	M Brown			Issued for review
0.2	25/8/2022	M Brown	N Parry, R James	T Rakai	Issued for internal approval
1	31/8/2022	M Brown		C De Laine	Initial Submission

Document Approval

	Title	Name	Date
Prepared	Senior HSE Advisor	M Brown	16/8/2022
Reviewed	Head of Compliance	R James	18/8/2022
Approved	Executive General Manager Transmission Asset Management	T Rakai	23/8/2022
Approved	Chief Executive Officer	C de Laine	30/8/2022

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1. INTRODUCTION

On 1 June 2018, the Department of Environment and Energy (the Department) approved the Tanami Gas Pipeline (TNP) project under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). The TNP is a 440km natural gas pipeline and associated infrastructure connecting the existing Amadeus Gas Pipeline to the Granites and Dead Bullock Soak mines, near Yuendumu, Northern Territory (NT) (EPBC 2017/7997).

This report covers activities between 1 June 2021 and 31 May 2022. The pipeline was in operational phase during the period.

The Department of the Environment and Energy is now the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

1.1 Proponent

The proponent for the project is the AGI Tanami Pty Limited (AGIT) (ACN 622 012 560).

AGIT is operated as part of the Australian Gas Infrastructure Group (AGIG) and is 100% owned by a consortium comprising CK Infrastructure Holdings Limited (CKI), CK Asset Holdings Limited (CKA) and Power Asset Holdings Limited (PAH). These are all part of the CK Group, a leading global investor in energy and other infrastructure, in the UK, Australia and other developed countries.

AGIT relies on the services of DBNGP (WA) Nominees Pty Ltd (DBP), the owner of the Dampier to Bunbury Natural Gas Pipeline (DBNGP), for the provision of labour and equipment to enable AGIT to undertake its business. The services are provided under a support services agreement. DBP is part of AGIG.

1.2 Objectives and Scope

The objective of this document is to report on compliance with conditions set out in EPBC 2017/7997. Specifically, the scope of this document covers the period commencing 1 June 2021 through to 31 May 2022.



Figure 1: Location of the Tanami Gas Pipeline

2. ACTIVITY DESCRIPTION

During the reporting period the normal operation of the TNP continued. This entailed the following main activities:

- Maintenance and operational activities of the pipeline and associated facilities;
- Third party crossing management and supervision;
- Aerial surveillance (Appendix C) and landholder consultation; and
- Rehabilitation monitoring (July 2021 and July 2022).

AGIT conducted a Health, Safety and Environment (HSE) Desktop Audit during the reporting period (Appendix B).

2.1 Identified new risks

No new or additional risks were identified.

It was noted that due to the weather (rains) and closure of roads, the rehabilitation monitoring program was delayed until July 2022. This report will be forwarded to the Department once received in relation to condition for biodiversity offsets discussion and close out.

3. COMPLIANCE ASSESSMENT

A compliance assessment was conducted against EPBC 2017/7997 for the period 1 June 2021 through to 31 May 2022 (Table 3). This assessment was conducted in accordance with the Department of Environment Annual Compliance Report Guidelines (DoE 2014).

Conditions have been assessed and assigned a compliance status as defined in Table 1 below noting that construction related conditions that were previously reported as compliant have been reported as not applicable.

A declaration of accuracy forms part of this submission and is included at Appendix A.

Table 1: Compliance status definitions and abbreviations

Compliance Status Terms	Abbrev	Definition
Compliant	C	'Compliance' is achieved when all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.
Non-compliant	NC	A designation of 'non-compliance' should be given where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Not applicable	NA	A designation of 'not applicable' should be given where the requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example a condition which applies to an activity that has not yet commenced.

Table 2: Audit Table

Condition number	Condition	Status	Evidence / Comments
1	For the protection of listed threatened species the approval holder must do the following: a. Clear no more than 1,136 ha of vegetation; b. Not clear any vegetation outside the pipe alignment corridor, except as required to establish up to four work camp sites; c. Implement the plans referred to in these conditions.	Compliant	a. 1,120 hectares was conducted for construction of the pipeline in the previous reporting period. No clearing or construction activities were undertaken during the period. b. No clearing was undertaken in the reporting period. c. The plans referred to in these conditions or revisions approved under these conditions, continued to be implemented during the reporting period.
2	For the protection of Greater Bilby (<i>Macrotis lagotis</i>) and Great Desert Skink (<i>Liopholis kintorei</i>), the approval holder must do the following: a. Undertake pre-clearance surveys to determine presence of burrows in the construction right of way; b. Avoid destruction or damage to burrows, including (without limitation) micro-siting the pipeline; c. Comply with the Trench Clearing Procedure and Construction Environmental Management Plan.	NA	No clearing or construction activities were undertaken during the period.
3	For the protection of Night Parrot (<i>Pezoporus occidentalis</i>), the approval holder must do the following: a. Implement the Night Parrot Management Plan;	NA	a. The Night Parrot Management Plan continues to be implemented on the project. b. Previously reported and completed (EPBC 2017/7997 Compliance Assessment Report 2018-2019, E-REP-035).

<p>b. Notwithstanding any other condition, undertake surveys for Night Parrot in accordance with the Night Parrot Survey Guidelines;</p> <p>c. If Night Parrot is detected on or in the vicinity of the pipe alignment corridor:</p> <ul style="list-style-type: none"> i. immediately cease all work within 5 km of the place where Night Parrot was detected; and, ii. notify the Department and Night Parrot Recovery Team; and, iii. not recommence work within the area specified in condition 3.c.i. until approved by the Minister in writing; <p>d. If one or more Night Parrot individuals is injured or killed, and, in the opinion of the Department, the death or injury arises from or was contributed to in any way by the proposed action or the presence of the approval holder on or in the vicinity of the pipe alignment corridor, the approval holder must report the injury or death to the Department within 48 hours, and contribute \$50,000 per individual to a fund or program nominated by the proponent and approved by the Department.</p>		<p>c. No Night Parrots have been detected on the project.</p> <p>d. No Night Parrots have been detected on the project</p>
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4	For the protection of Dwarf Desert Spike-rush (<i>Eleocharis papillosa</i>), the approval holder must comply with the Construction Environmental Management Plan. In particular, the approval holder must avoid disturbance of environmentally sensitive areas by utilising directional drilling methods.	Compliant	<p>The CEMP controls continued to be implemented in terms of waterway crossings and avoidance of environmentally sensitive areas.</p> <p>No clearing or construction activities were undertaken during the period.</p>
5	For the protection of Princess Parrot (<i>Polytelis alexandrae</i>), the approval holder must undertake pre-clearance surveys for Princess Parrot to determine whether Princess Parrot is present in an area proposed to be cleared, and must avoid disturbance of any individuals, especially nesting birds, and must take all reasonably practicable measures to avoid trees containing hollows suitable for breeding.	NA	No clearing or construction activities were undertaken during the period.
6	For the protection of listed threatened species, the approval holder must undertake rehabilitation work in accordance with the Rehabilitation Plan.	Compliant	<p>All construction rehabilitation requirements completed as per previous reports.</p> <p>Rehabilitation Plan requirements for monitoring are reported under Condition 8.</p>
7	Notwithstanding any other condition or provision of a plan, unless the Department determines otherwise, the approval holder must continue rehabilitation work until the completion criteria are met for all areas that are subject to the Rehabilitation Plan.	Compliant	<p>All construction rehabilitation requirements completed as per previous reports.</p> <p>Rehabilitation Plan requirements for monitoring are reported under Condition 8.</p>

<p>8</p>	<p>The approval holder must engage a suitably qualified independent expert approved by the Department to assess the level of success of rehabilitation and undertake the following tasks:</p> <ul style="list-style-type: none"> a. Assess the construction right of way before any clearance is undertaken, to determine and record the baseline condition of the area, and determine the appropriate locations of the monitoring and control sites; b. Assess the success of rehabilitation three years after substantial completion of the project, to determine the extent that the completion criteria have been met; c. Produce and submit to the Department a report on the success of rehabilitation (Rehabilitation Report), within three months of the three year anniversary of substantial completion of the project; d. If required by the Department, undertake additional assessments, as directed by the Department, until the completion criteria have been met. 	<p>Compliant</p>	<ul style="list-style-type: none"> a. The Department approved Ecological Australia (ELA) consultants to conduct rehabilitation monitoring as per correspondence 12 August 2018. <p>The construction right of way pre-clearance survey was completed as part of the approvals work in March 2018.</p> <p>As per the Rehabilitation Plan, the first annual monitoring to inform the success of rehabilitation was completed in March 2020 with subsequent annual monitoring being completed.</p> <ul style="list-style-type: none"> b. Rehabilitation monitoring is assessed annually post wet season (Mar-June/July) based on the location of the pipeline. c. Awaiting third year rehabilitation monitoring report due to delay in access to site and COVID impacts. This will be submitted to the Department on receipt which will be the third year of monitoring completion. This will trigger discussion of results and completion under Condition 9. <p>The second year of rehabilitation monitoring (Rehabilitation Report) was provided to the Department in August 2021 for completion of the second year of rehabilitation monitoring as part of the annual compliance report.</p> <p>Sub-condition d - NA</p>
<p>9</p>	<p>If, based on the Rehabilitation Report provided by the approval holder in accordance with condition 8.c., the Department considers that the completion criteria have not been met in respect of a portion of cleared area, the approval holder will be required to provide an offset, in the form of a financial contribution, and may be required to undertake additional rehabilitation activities as</p>	<p>NA</p>	<p>For consultation with the Department once third year Rehabilitation Report has been submitted.</p>

	<p>specified by the Department. The financial contribution payable by the approval holder will be calculated as follows:</p> <ul style="list-style-type: none"> Financial contribution = \$1,500 x Area <p>where Area means the area that does not meet the completion criteria, in hectares.</p>		
10	<p>If a financial contribution is payable in accordance with condition 9, the approval holder and the Department will work together to agree on appropriate arrangements before any payment is made, taking into account the potential habitat that was cleared, and the matters of national environmental significance that are likely to have been impacted by the failure to meet the completion criteria in the relevant timeframe.</p>	NA	<p>For consultation with the Department once third year Rehabilitation Report has been submitted.</p>
11	<p>The approval holder must advise the Department in writing of the actual date of commencement and substantial completion within 14 days after commencement or substantial completion, as relevant.</p>	NA	<p>Previously reported and completed (4 December 2018).</p>
12	<p>The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the plans required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on</p>	Compliant	<p>Records are kept and either supplied to the Department via annual reporting, available on request or through the AGIG website (as per Condition 20).</p> <p>No external audits were completed during construction of the pipeline.</p>

	the Department's website. The results of audits may also be publicised through the general media.		
13	<p>Within three months of every 12 month anniversary of commencement, the approval holder must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of plans as specified in the conditions (compliance report). Documentary evidence providing proof of the date of publication of the compliance report, and non-compliance with any of the conditions of this approval, must be provided to the Department at the same time as the compliance report is published. The approval holder is not required to provide compliance reports after all obligations under these conditions have been met, and two consecutive compliance reports that demonstrate compliance with all obligations under these conditions have been provided to the Department.</p>	Compliant	<p>This report will be published on the AGIG website (https://www.agig.com.au/articles/tanami-gas-pipeline) as part of the requirements under this condition. Evidence of the publication will be provided to DCCEEW at the same time in terms of a link to the website.</p> <p>The report will be published prior to 10 September 2022.</p> <p>The previously submitted Annual Compliance Reports are available on the website.</p> <p>The 2021 Rehabilitation Report is included in the annual compliance report.</p>
14	<p>The approval holder may choose to revise a plan required by these conditions without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact. If the approval holder makes this choice they must:</p> <ol style="list-style-type: none"> a. notify the Department in writing that the approved plan has been revised no later than four weeks before implementing the revised plan; 	NA	No revisions were completed in this reporting period.

	<p>b. provide the Department with an electronic copy of the revised plan, and an explanation of the differences (and reasons for them) between the revised plan and approved plan, no later than four weeks before the proposed implementation date for the revised plan;</p> <p>c. implement the revised plan on or after the proposed implementation date unless the Minister gives the approval holder notice that the Minister considers the revised plan is likely to have a new or increased impact; and</p> <p>d. notify the Department of the actual date of implementation of the revised plan.</p>		
15	<p>The approval holder may revoke its choice under condition 14 at any time by notice to the Department. If the approval holder revokes the choice to implement a revised plan, without approval under section 143A of the Act, the plan previously approved by the Minister must be implemented.</p>	NA	
16	<p>If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then:</p> <p>a. Condition 14 does not apply, or ceases to apply, in relation to the revised plan; and,</p> <p>b. The approval holder must implement the plan previously approved by the Minister.</p>	NA	
17	<p>To avoid any doubt, condition 16 does not affect any operation of conditions 14 and 15 in the period before the day the notice is given.</p>	NA	
18	<p>At the time of giving the notice the Minister may also notify that, for a specified period of time,</p>	NA	

	condition 16 does not apply for one or more specified plans.		
19	Conditions 14-18 are not intended to limit the operation of section 143A of the EPBC Act, which allows the approval holder to submit a revised plan to the Minister for approval	NA	
20	Unless otherwise agreed to in writing by the Minister, the approval holder must publish all plans and reports referred to in these conditions of approval on its website. Each of these documents must be published on the website within one month of being approved by the Minister or being submitted to the Department under the relevant condition.	Compliant	<p>All plans and procedures as referenced in these conditions (as listed below) are published on the AGIG website at (https://www.agig.com.au/articles/tanami-gas-pipeline). Before this all preliminary documentation and plans were available at www.dbp.net.au .</p> <ul style="list-style-type: none"> • Construction Environment Management Plan (CEMP) • Rehabilitation Plan • Trench Clearing Procedure • Night Parrot Management Plan • Night Parrot Monitoring Report (aural and field survey) • Annual Compliance Report 2018-2019, 2019-2020 and 2020-2021 • 2020 Rehabilitation Monitoring Report, 2021 Rehabilitation Monitoring Report included with 2020-2021 Annual Compliance Report.

4. REHABILITATION MONITORING

Ecological Australia (ELA) was approved by the Department in August 2018 to undertake the required rehabilitation works under Condition 8 of the approval.

The annual rehabilitation monitoring as per the approved Rehabilitation Plan was undertaken in March and June 2021 and 2022 work was conducted in July 2022.

5. CONCLUSION

During the reporting period, AGIT conducted operations in compliance with the approved CEMP and the Operations Environment Plan approved by the NT Department of Primary Industry and Resources.

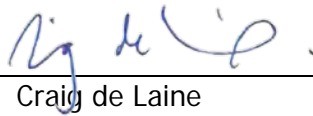
There continued to be no Night Parrots found (or evidence of) during operations.

Annual rehabilitation monitoring commenced in 2020 and continues with third year monitoring completing in July 2022. The report is not yet available and will trigger consultation with the Department in regards to offset requirements under Condition 9.

APPENDIX A – DECLARATION OF ACCURACY

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)* (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration

Signed



Full name (please print)	Craig de Laine
Position (please print)	Chief Executive Officer
Organisation (please print including ABN/ACN if applicable)	AGI Tanami Pty Limited – ABN 21 622 012 560
Date	31 August 2022

APPENDIX B – HSE AUDIT

ZERO HARM

Tanami HSE Systems Audit

HSE-AUD-098

Rev #	Date	Prepared By	Reviewed By	Approved By	Description
0.1	29/5/2022	M Brown			Issued for review
1.0	31/5/2022		J Dangerfield	M Brown	Initial Report

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HSE Audit

1. DETAILS

Date: May 2022

Location: Tanami Gas Pipeline – Desktop

Participants: Mark Brown (Lead Auditor)

2. OVERVIEW

- All relevant documentation and work orders around required inspections of the Tanami assets were in place including HSE, mechanical and electrical inspections as required under the Pipeline Management Plan (PMP), Asset Management Plan (AMP) and Environment Plan (EP).
- Surveillance report review
- Overall, the audit results were positive including the management of the asset during 2020 travel restrictions.

3. RESULTS

Detailed assessment against all audit criteria is provided in Appendix A. Performance against each obligation is recorded as either *Compliant*, *Opportunity for Improvement*, or *Non-Compliant* with the tool marked where assessment was not undertaken against the scope of works. All findings have been risk assessed in regards to Risk Management in line with audit processes within DBP.

No non-compliances were identified throughout the audit. Three opportunities for improvement, of negligible risk arose. The OFI's are based around the issues raised in surveillance reports and required documentation to demonstrate compliance.

It is noted the access track upgrade, erosion and subsidence works are still pending, based on availability of personnel, equipment and access.

3.1 Good Practice

Obligation	Comments
Specific Work Orders to complete vehicle inspections and vehicle related HSE checks (i.e. first aid)	Specific work orders as related to vehicles rather than a work location. Allows for changes in personnel and timeframes.
Monthly aerial surveillance shall assess for evidence of potential or impact to the pipeline. Aerial surveillance reports shall be prepared containing photography overlain by the pipeline licence boundary. Where the Aerial Surveillance Officer (ASO) identifies activity outside of the pipeline licence area, this shall be communicated	The ability to gain relevant information through Aerial Surveillance reports (ASR) is important to ensure subsidence and crossings are being maintained as per the Safety Case and Operational Environment Plan. These reports are in depth, consistent and track issues until they are resolved. Erosion and repairs remains ongoing since last year's report.

3.2 Findings

Finding	Obligation	Improvement	Risk
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HSE Audit

Opportunity for Improvement	ASR indicates large volume of vegetation in some areas which may require line of sight clearing.	Ensure clearing process and approval reviewed and in place prior to request for works (i.e. NT legislative requirements met).	Negligible
Opportunity for Improvement	Lifting and Electrical registers in place for equipment and test and tag process allows review.	Review availability of site register information for tools at Tilmouth and in vehicles (i.e. lifting and electrical)	Negligible
Opportunity for Improvement	Weed management may require additional WO to target Tilmouth depot and specific areas	Ensure adequate resourcing to manage weeds on location	Negligible

4. ACTIONS

Issue	Action	Due Date	Responsibility
Clearing approval process	Ensure NT approval requirements in place for any Authorisation to Clear Vegetation.	31/8/2022	HSE
Weeds	Review weed management timeframes and WI's	31/8/2022	HSE
Lifting and Electrical Registers	HSE to review to ensure compliance in place	30/9/2022	HSE

5. CONCLUSION

The desktop audit focusses on ensuring safety critical element, environmental and asset management controls were implemented and completed through the work order system (Maximo). The use of larger work orders (such as mechanical and electrical maintenance) for a variety of tasks and to cover multiple frequencies helps to address the remote nature of the asset and travel requirements involved. Access to information virtually will assist in ensuring ongoing compliance of specific items and this is under review.

HSE Audit

Appendix A: Detailed Review

Activity	Frequency (from AMP/EP/PMP)	Compliance
Aerial Surveillance	1M	C
Clearing and Civil works	24M	C
Above Ground piping inspections	12M	C
Pressure piping inspections	24M	C
PSV Inspections	12M	C
Valve maintenance	6M and 12M	C
Earthing and CP – 2022 survey to be completed in Aug/Sept 2022 as per discussion with JDMS	12M	C

APPENDIX C – AERIAL SURVEILLANCE REPORT

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

SURVEILLANCE REPORT MUST BE EMAILED TO THE FOLLOWING ASAP AT THE COMPLETION OF THE FLIGHT

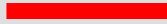



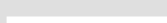
Rakai, Tawake

tawake.rakai@agiq.com.au

Smith, James

james.smith@agiq.com.au

Aircraft Type	Pilot Name	Area Covered	Weather Conditions (temp; visibility, wind and rain)	
NDK	James Griffiths	TNP Inlet Station – DBS Mine M/S	Clear, Strong winds, 35 degrees.	
Work Order Number	Employee Name	Date of Surveillance	Engine On Time	Engine Off Time
3000153224	Nicholas Hiley (flight) Chris Delborrello (report)	19-02-2021	05:45	14:40
AGIG REV	DATE	APPROVED RELEASE	BY	CHK/APPR
0	25-02-2022	Issued for information	<i>Chris Delborrello</i>	N/A

Summary of Report	<ul style="list-style-type: none"> Updated images and information of facilities & points of interest. Known activities in proximity to the AGIG reportable pipelines, associated laterals and assets. Regrowth along the easement has increased significantly, effecting line of sight in some areas. Tilmouth compound has significant vegetation growth within since previous flight. Drill rig from the Tanami Mine observed operating in proximity to the Granites Lateral.
Note:	<p>Images of facilities and other general points of interest obtained during the surveillance flight are not necessarily included in this report due to no new activity being observed, should any images or further information be required please contact Manager Facilities, Facilities Lands Team Leader or the Aerial Surveillance Team.</p> <p>Aerial Surveillance activities are conducted as per DBP-WI-PMC-PIP-06</p>
Legend:	<p>Easement and Pipe locations are only approximations of actual locations.</p> <ul style="list-style-type: none">  Easement boundary  Extended easement boundary  Pipeline  Areas of interest  Heritage areas



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>NP Inlet Station & Inlet Pipe KP 0</p>	<ul style="list-style-type: none"> All appeared correct and secure. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP .080	<ul style="list-style-type: none"> Previously noted minor erosion to the crown of the pipeline trench is no longer visible in this location due to vegetation cover.
KP 0.605 – 1.897	<ul style="list-style-type: none"> Below images show the current condition of the corridor and access track between KP 0.605 – KP 1.897 Corridor is thickly covered in Buffel Grass 
Gravel Rd to No.26 Bore	<ul style="list-style-type: none"> No significant changes to the road crossing. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP 8.200	<ul style="list-style-type: none"> • The corridor at this location is heavily covered in vegetation and the erosion sight was not visible. • Yellow danger tape exposed for approx. 1m. • Depth of Cover to the top of the pipe at the lowest point of erosion; 800mm. • Depth of erosion 400mm.
KP 8.250	<ul style="list-style-type: none"> • Below image shows the previously reported water tank built on the Western side of the corridor. 
New Well Rd KP 13.438	<ul style="list-style-type: none"> • The road crossing appeared to remain in good condition. 


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Gravel Track to Water Bore RN16883 KP 21.832</p>	<ul style="list-style-type: none"> • Below images shows the current condition of the road crossing and the access track to the laydown area. • Approved access track has been used to remove demountable buildings from the laydown area.  <p>The first photograph shows a gravel track crossing a road in a rural area with sparse vegetation. The second photograph shows a wider view of the same area, highlighting the gravel track, a road, and an access track leading to a laydown area. A yellow line is overlaid on both images, likely indicating the pipeline route.</p>



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP 29.170	<ul style="list-style-type: none"> • The significant erosion noted at this KP was no longer visible or easily observed due to overgrowth. • 550mm depth of cover in the lowest point of erosion/washout. • Erosion deepest point 600mm.
KP 29.17 - KP 34.72	<ul style="list-style-type: none"> • Moderate erosion spots between KP 29.17 and KP 34.72 are no longer visible due to vegetation cover. • It was not evident that the recent rains caused any further damage to the existing erosion areas. 


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Tilmouth Road House Compound</p>	<ul style="list-style-type: none"> All appeared correct and secure at Tilmouth compound. Significant amount of vegetation has grown within the compound since the previous flight. <p>Feb 2022</p>  <p>Oct 2021</p> 


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP 34.300	<ul style="list-style-type: none"> Previously reported significant erosion in this location is no longer visible due to vegetation cover. The surrounding area has had large growth of Buffel grass. Deepest erosion: 500mm. Depth of cover at lowest point 600mm.
KP 34.620	<ul style="list-style-type: none"> Buffel grass has covered the erosion and banks of Napperby Creek; unable to see if it has changes in depth due to vegetation cover. Average 400mm wash out over pipeline and 35m long 700mm depth of cover at lowest section. 


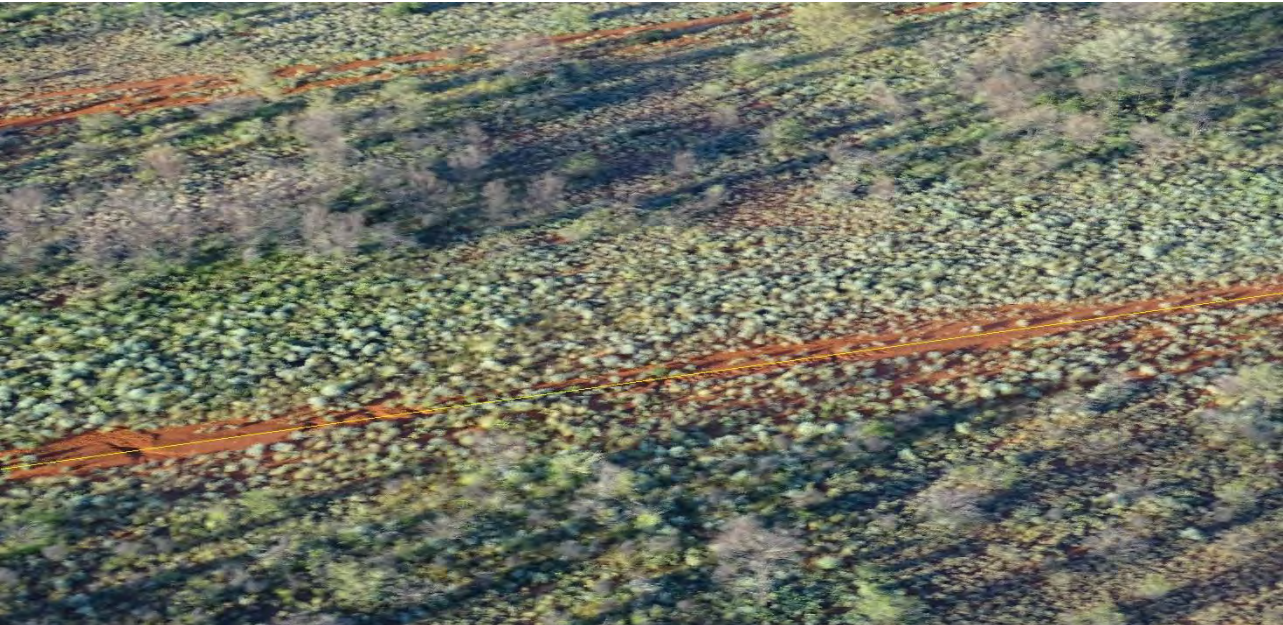
AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Napperby Creek KP 34.655</p>	<ul style="list-style-type: none"> Below image shows the current condition of the creek. Upstream bank has significant damage but no major changes since Feb 2021. 
<p>Napperby Station Access Road</p>	<ul style="list-style-type: none"> Below image shows the current condition of the access road. Minor water erosion damage across pipeline area. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 40.014</p>	<ul style="list-style-type: none"> Below image shows existing water erosion to a known T3 water crossing. 
<p>KP 42 - 46</p>	<ul style="list-style-type: none"> Below images provides an example of minor water erosion between KP 40 – KP 46. Most erosion through this section is now unable to be observed due to vegetation cover. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 46.500</p>	<ul style="list-style-type: none"> Below image shows moderate water course crossing the pipeline at KP 46.500 
<p>KP 47.055</p>	<ul style="list-style-type: none"> Below image shows the current condition of the T2 water course crossing, minor water erosion damage to the bottom of the system. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 47.497</p>	<ul style="list-style-type: none"> Below image shows the current condition of the T3 water course crossing, moderate water erosion damage to the bottom of the system covered by overgrowth. 
<p>KP 48.000</p>	<ul style="list-style-type: none"> Below image shows the condition of the easement at KP 48.000 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Camp 1/Laydown No.2 KP 65.503</p>	<ul style="list-style-type: none"> Below image shows the current condition of the previous camp/laydown yard. 
<p>KP 65.000 – KP 72.000</p>	<ul style="list-style-type: none"> Below image provides an example of the significant vegetation growth through this section of the easement. Line of sight is being obstructed through some sections within this KP range. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 65.000 – KP 72.000</p>	<ul style="list-style-type: none"> Below image provides an example of the significant vegetation growth through this section of the easement. Line of sight is being obstructed through some sections within this KP range. 
<p>Gravel Track to Pulardi KP 72.904</p>	<ul style="list-style-type: none"> Below image shows the current condition of the track to Pulardi; vegetation overgrowth blocking LOS. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 73.000 – KP 78.000</p>	<ul style="list-style-type: none"> Below image provides an example of the significant vegetation growth through this section of the easement. Line of sight is being obstructed through some sections within this KP range. 
<p>KP 73.000 – KP 78.000</p>	<ul style="list-style-type: none"> Below image provides an example of the significant vegetation growth through this section of the easement. Line of sight is being obstructed through some sections within this KP range. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Pulardi Rd Gravel to Laramba KP 78.509</p>	<ul style="list-style-type: none"> Below image shows the current condition of the track. 
<p>Yeulamu Rd Gravel KP 100.150</p>	<ul style="list-style-type: none"> Below image shows the current condition of the track. 


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>ROW KP 111.332</p>	<ul style="list-style-type: none"> Below image shows the ROW condition looking downstream. Corridor has thick Buffel grass cover at this location. 
<p>KP 114.500</p>	<ul style="list-style-type: none"> Significant erosion at KP 114.500 no longer visible due to vegetation overgrowth. Erosion periodic for approx. 100m Thick cover of Buffel Grass
<p>Road to Bore & Gravel Pit KP 119.985</p>	<ul style="list-style-type: none"> Below image shows condition of the road to the Gravel Pit. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Road to Bore & Gravel Pit KP 119.985</p>	<ul style="list-style-type: none"> Below image shows a previous area of moderate water erosion at a bend in the pipeline. Thick cover of Buffel Grass makes the erosion difficult to observe. 
<p>KP 120.690</p>	<ul style="list-style-type: none"> Previously reported significant water erosion on the pipeline in this section no longer visible due to vegetation overgrowth. Erosion 300mm below NGL.
<p>KP 123.900</p>	<ul style="list-style-type: none"> Previously reported significant erosion along the pipeline at KP 123.900 is no longer visible due to vegetation overgrowth. Erosion appears to be approx. 300mm in depth running along the trench for approx. 30m

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 136.864</p>	<ul style="list-style-type: none"> T3 water course crossing the pipeline has minimal damage to its banks; the hard clay appears to be exposed over the pipeline area. 
<p>Yuendumu Rd KP 137.916</p>	<ul style="list-style-type: none"> Road crossing appeared in good condition. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Road to Yuendumu Rd Gravel KP 140.043</p>	<ul style="list-style-type: none"> Road crossing appeared in good condition. 
<p>Track to Yuendumu Airport Gravel KP 140.883</p>	<ul style="list-style-type: none"> Road crossing appeared in reasonable condition. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>SS1 Yuendumu KP 144.906</p>	<ul style="list-style-type: none"> • Appeared correct and secure. 
<p>KP 147.394</p>	<ul style="list-style-type: none"> • Below image shows the tracks current condition leading into the truck turn around point. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
Mission Creek T2 KP KP 153.038	<ul style="list-style-type: none"> • Appeared to remain in good condition; banks heavily covered in vegetation overgrowth. 
KP 153.565	<ul style="list-style-type: none"> • Previously reported significant erosion developing along the trench line in this location is covered by vegetation overgrowth.
Keridi Creek Tributary T2 KP 155.001	<ul style="list-style-type: none"> • Appeared to remain in reasonable condition and no significant change to erosion observed since time of last flight; the upstream bank has sustained significant water erosion damage. • The erosion appears to be at least 1m in depth. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Keridi Creek T2 KP 155.371</p>	<ul style="list-style-type: none"> Below image shows moderate water erosion developing from the run off of a water course nearby channelling down the pipeline trench. 
<p>KP 155.700</p>	<ul style="list-style-type: none"> Below image shows moderate water erosion developing across the pipeline, no changes since time of last flight. Appears to be approximately 300-400mm in depth. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 156.074 Keridi Creek T3 Tributary</p>	<ul style="list-style-type: none"> Below image shows increasing erosion in this crossing; 300-400mm in depth. 
<p>Mount Doreen Station Rd KP 159.927</p>	<ul style="list-style-type: none"> No change to the road crossing. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 160.886 – KP 161.496</p>	<ul style="list-style-type: none"> Below image shows a dry water catchment on the corridor. 
<p>KP 162.612</p>	<ul style="list-style-type: none"> Below image shows moderate water erosion leading to a water catchment area; pipe crown eroding. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Camp 2/Laydown No.3 KP 170.616</p>	<ul style="list-style-type: none"> Below image shows the previous laydown/camp area. 
<p>Gintys Bore Access Road KP 173.100</p>	<ul style="list-style-type: none"> No change to the current condition of the road crossing. 

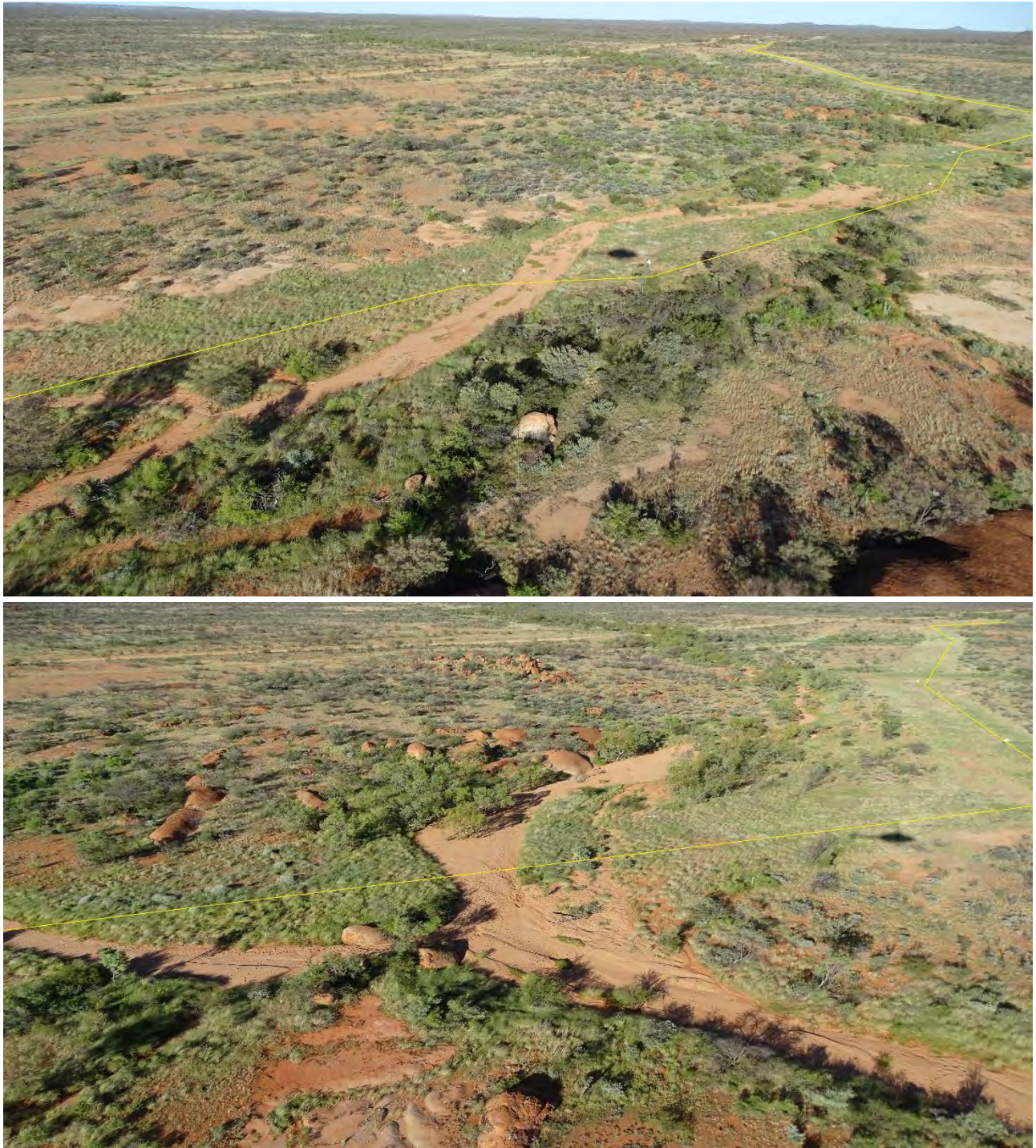
AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 178.777</p>	<ul style="list-style-type: none"> • Below images show the current condition of previously reported significant water erosion over the pipe. • Helicopter landed; No significant changes obvious since the previous inspection. • No exposed pipe found. • Natural ground level is 1100mm above pipeline. • Trench erosion is 5m long and 850mm deep. • Measured to the bottom of the trench, approx. 250mm of hard ground is above the pipeline.  



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP 180.213 Watercourse T3	<ul style="list-style-type: none"> • Condition of water course has not changed slightly since recent heavy rains. • Moderate erosion in close proximity to the banks, covered in overgrowth. • Approx. 300-400mm deep and 10m long.
Yaloo garrie Creek T1 & Tributaries KP 179.962 – KP 181.364	<ul style="list-style-type: none"> • No significant changes observed to the creek and its tributaries. 


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Yaloogarrie Creek Tributaries KP 184.200 KP 185.000</p>	<ul style="list-style-type: none"> No change observed to the creeks tributaries, rock pitching areas covered by vegetation overgrowth. 
<p>Yaloogarrie Creek Tributaries KP 188.900</p>	<ul style="list-style-type: none"> The water crossing at this location appeared in good condition; rock pitching covered by overgrowth. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
KP 191.119	<ul style="list-style-type: none"> Previously reported minor water erosion developing in this location and flowing around the diversion bank across the pipeline crown; unable to be observed due to vegetation cover.
KP 191.829	<ul style="list-style-type: none"> Below image shows some moderate erosion developing close to a known T3 water crossing. 
Watercourse T3 KP 198.071	<ul style="list-style-type: none"> The water crossing at this location appeared in reasonable condition; rock pitching not visible due to vegetation overgrowth.
Watercourse T3 KP 198.384	<ul style="list-style-type: none"> The water crossing at this location appeared in reasonable condition; rock pitching not visible due to vegetation overgrowth.
Watercourse T3 KP 198.666	<ul style="list-style-type: none"> The water crossing at this location appeared in reasonable condition; rock pitching not visible due to vegetation overgrowth.


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 206.110</p>	<ul style="list-style-type: none"> • Below image shows previously reported major erosion and washout over the pipeline. • No major changes observed since previous inspection. • Helicopter landed; only a small section of marker tape was visible this time. • Erosion is likely 500mm in depth from the actual NGL and the silt left behind from the last flows appear to have filled in some of the deeper holes. 
<p>Gravel Road KP 218.100</p>	<ul style="list-style-type: none"> • No change observed to the current condition of the road crossing. 

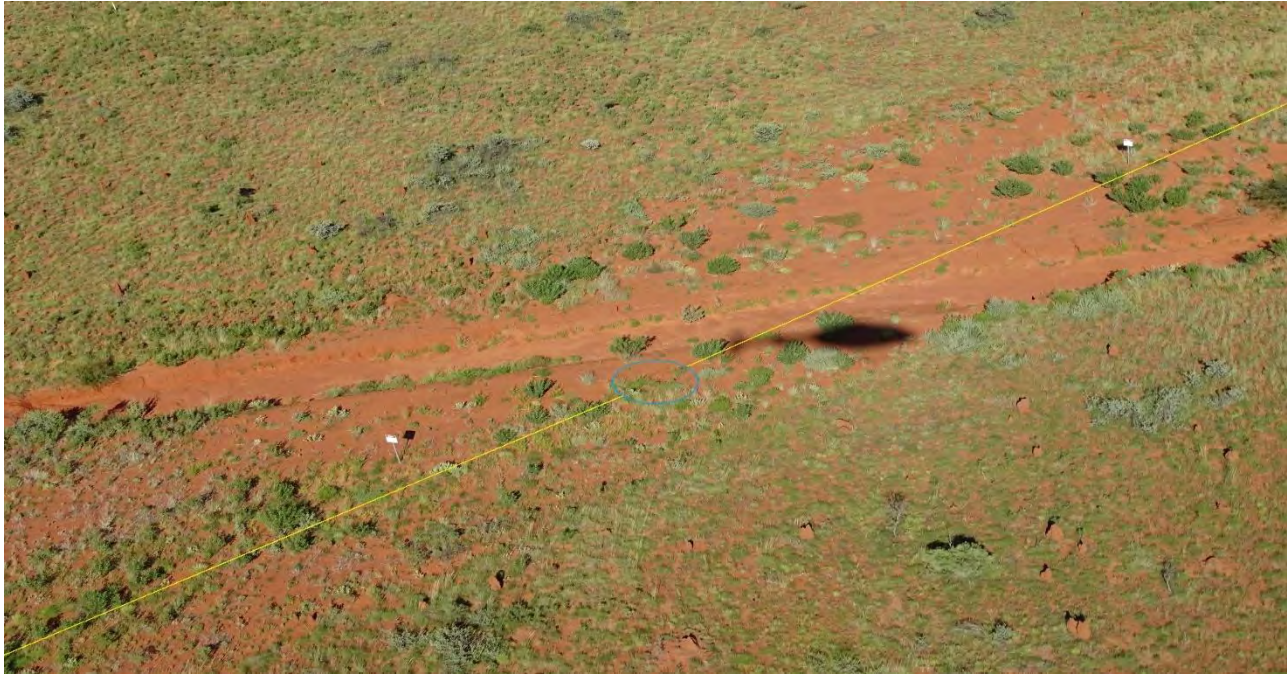

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
Flood Out Creek T2 KP 228.158	<ul style="list-style-type: none"> All appeared correct at Flood Out Creek crossing.
KP 229.607 Water Course T3	<ul style="list-style-type: none"> Below image shows minor to moderate damage to the banks of this creek. 
KP 235.568	<ul style="list-style-type: none"> All appear correct at the track crossing. No further unauthorised access has been noticed on the TGP Corridor in this location.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 241.139</p>	<ul style="list-style-type: none"> No changes to known significant erosion on the upstream bank of the swale drain crossing at KP 241.139 
<p>KP 252.000 KP 254.000</p>	<ul style="list-style-type: none"> Below image shows vegetation overgrowth in this section is starting to block line of sight. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 258.300</p>	<ul style="list-style-type: none"> Below image shows vegetation overgrowth in this section is starting to block line of sight. 
<p>Mount Theo Rd KP 263.239</p>	<ul style="list-style-type: none"> Mount Theo Road Crossing is in good condition. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Watercourse T2 Chilla Well KP 266.640</p>	<ul style="list-style-type: none"> All appeared correct at the watercourse at KP 266.640. 
<p>SS2 Chilla Well KP 279.374</p>	<ul style="list-style-type: none"> Appeared correct and secure. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Camp 3/Laydown KP 286.291</p>	<ul style="list-style-type: none"> All correct at previous camp/laydown yard. 
<p>KP 287.634</p>	<ul style="list-style-type: none"> No changes to significant erosion to the bank of a known swale drain crossing point at KP 287.634
<p>KP 323.830</p>	<ul style="list-style-type: none"> The previously observed Tanami Road Crew camp set up on the east side of the corridor is no longer in place. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 328.830</p>	<ul style="list-style-type: none"> Below image shows excavation have occurred in proximity to the easement since the previous flight; all remained clear of the easement.  

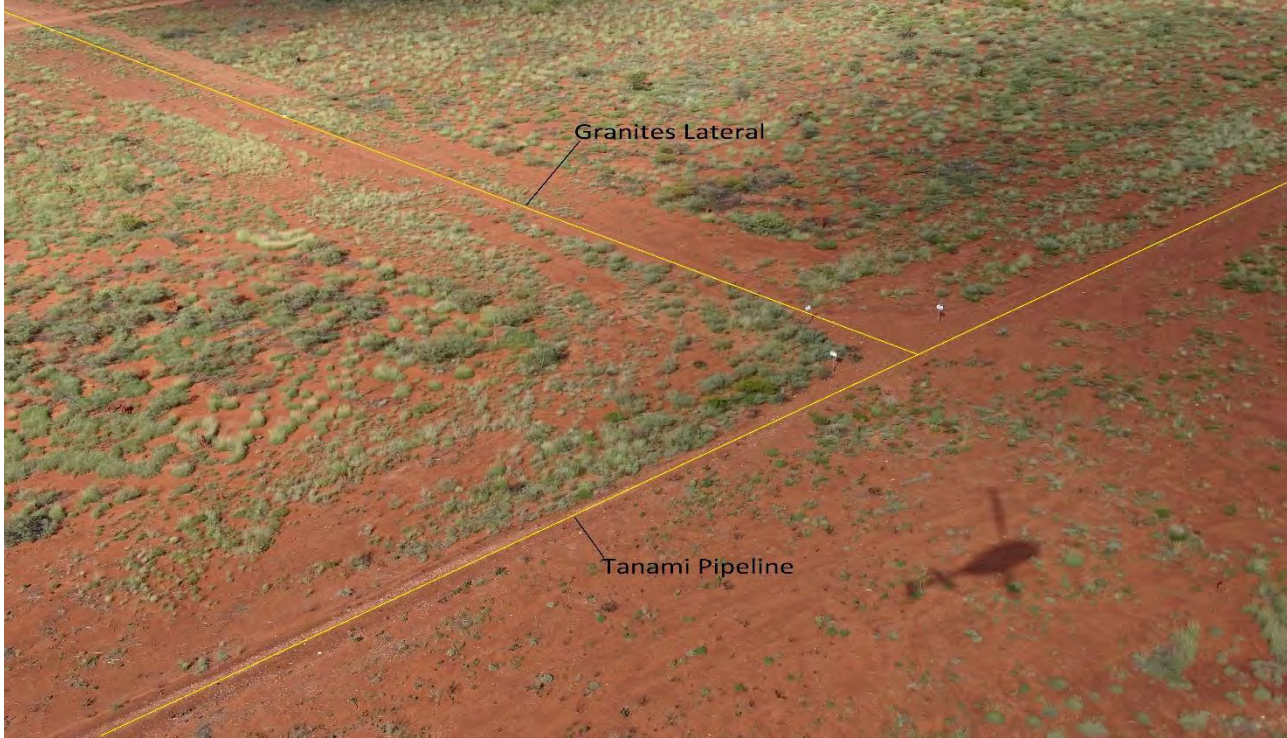

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
Camp 4/Laydown No.1 KP 385.321	<ul style="list-style-type: none"> All correct at previous camp/laydown yard.
Mount Davidson/ Billabong Borefield Rd KP 390.576	<ul style="list-style-type: none"> All correct at the road crossing. Vegetation on the downstream side starting to impact line of sight. 
KP 395.100 Granites Airstrip	<ul style="list-style-type: none"> Thick regrowth has occurred on the corridor and will start to impact line of sight in the near future. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Off take/Valve for Granites lateral KP 397.837</p>	<ul style="list-style-type: none"> All appeared correct.  <ul style="list-style-type: none"> Below image shows a drill crew from the mine operating in proximity to the lateral. 

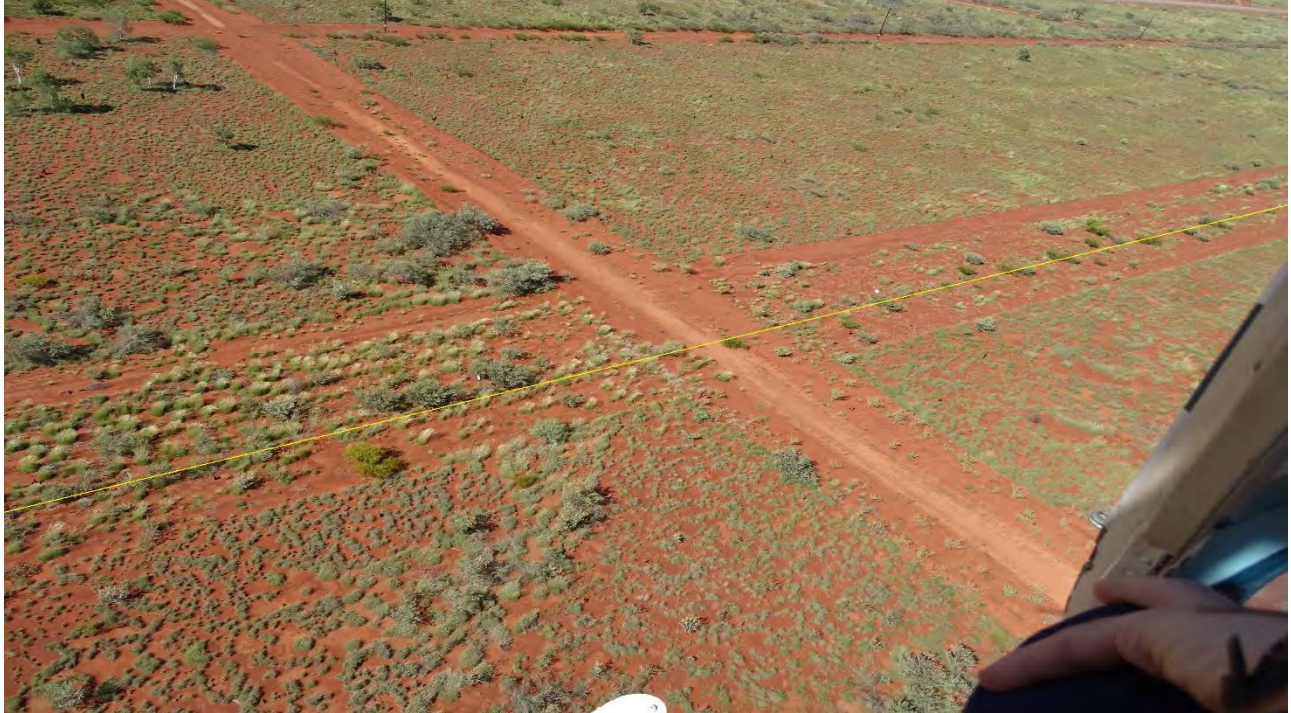

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Granites Meter Station KP 0.69</p>	<ul style="list-style-type: none"> All correct and secure at Granites Meter Station. 
<p>Swale drain KP 403.980</p>	<ul style="list-style-type: none"> No further water erosion damage observed since previous flight. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 436.070</p>	<ul style="list-style-type: none"> No further water erosion damage to the Swale Drain outside the corridor at KP 436.070 
<p>DBS Haul Road KP 436.992</p>	<ul style="list-style-type: none"> Below image shows the current condition of the haul road crossing point. 



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>Mine Road KP 437.447</p>	<ul style="list-style-type: none"> Below image shows the Mine Road crossing the pipeline remains in good condition. Water erosion is developing approximately 80m from the crossing at the pipeline bend. 
<p>KP 438.715</p>	<ul style="list-style-type: none"> Below image shows significant water erosion at the crossing point of a T3 Water Course. No significant changes to the erosion since the time of the last flight; estimated 500mm in depth. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>KP 439.470</p>	<ul style="list-style-type: none"> • No changes to previously reported significant erosion. • Facilities maintenance team attended site 10/08/2021 and completed site assessment. • Erosion confirmed 500mm in depth. 
<p>DBS Haul Road KP 439.760</p>	<ul style="list-style-type: none"> • All appears correct. • Known major works occurring in close proximity to the pipeline easement along the Haul Road appear to now be complete. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
<p>DBS Meter Station KP 440.000</p>	<ul style="list-style-type: none"> • Below image shows the current condition of the DBS Meter Station. • Zenith Power Station upgrade construction continues. • Exclusion zone installed and in suitable condition as approved by LM.  