

Appendix 1 – Application Form

Form

Environmental Protection Act 1994

Submission of a plan of operations

This is the approved form that is to be used by an environmental authority holder under section 291 of the Environmental Protection Act 1994 (EP Act) to submit a plan of operations to the administering authority¹

A plan of operations is only required for an environmental authority for a petroleum activity authorised under a petroleum lease (other than a petroleum lease granted under the *Petroleum Act 1923*), if the petroleum activity is an ineligible environmentally relevant activity (ERA). However, where the information provided in this plan of operations is to be used to satisfy the spatial information and/or rehabilitation plan requirements in the Estimated Rehabilitation Cost (ERC) application, this plan of operations must include all disturbance and rehabilitation activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, authority to prospect (ATP) etc).

An environmental authority holder must not carry out, or allow the carrying out of, an activity under the relevant lease unless a plan of operations for all relevant activities has been given to the administering authority. The environmental authority holder must comply with the plan of operations when carrying out an activity under the relevant lease.

This plan of operations form may be used for submission of an initial plan of operations, replacement plan of operations, or amendment of a current plan of operations. **All of the information provided in this form, including all attachments and submitted spatial information, amounts to the plan of operations.**

Note that a proposed plan of operations may relate to one or more petroleum leases authorised under an environmental authority.

For information on plans of operations, including details of submission requirements and supporting information to be provided, please refer to the guideline *Preparing a plan of operations for an environmental authority relating to a petroleum lease* (ESR/2015/1821²).

If you would like to have a pre-lodgement meeting, please fill out and lodge the form *Application for pre-lodgement services* (ESR/2015/1664) prior to lodging this application.

Definitions of terms used in this form

Where there is inconsistency between the definition of terms here and the terms used in the EP Act, the terms in the EP Act apply.

Ineligible ERA	An environmentally relevant activity that does not comply with the eligibility criteria in effect for the activity, or for which eligibility criteria are not in effect, or that is carried out as part of a significant project.
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¹ The Department of the Environment, Tourism, Science and Innovation is the administering authority under the *Environmental Protection Act 1994*.

² This is the publication number. The publication number can be used as a search term to find the latest version of a publication at www.qld.gov.au.

GUIDE

If you require assistance in answering any part of this form, or have any questions about your submission, please contact the Energy and Extractive Resources Business Centre. Contact details are at the end of this form.

The environmental authority number and details may be found on the existing environmental authority or quoted in other correspondence received from the administering authority.

If more space is required for any responses, please attach additional information as a separate page.

If there is an agent acting on behalf of the environmental authority holder, provide details in this section. An agent could be a consultant or a contact for the environmental authority holder.

As statutory documents need to be sent to all applicants, this section can also be used when there are multiple environmental authority holders to nominate an address for statutory documentation to be sent 'care of' to.

Application details**1. Environmental authority**

ENVIRONMENTAL AUTHORITY NUMHBER

P-EA-100178150

ENVIRONMENTAL AUTHORITY HOLDER NAME/S

SANTOS QNT PTY LTD & COMET RIDGE MAHALO PTY LTD

Project name (if applicable)

Mahalo (PL 1082 & PL 1083)

Address for service / Agent details

The address supplied here will be used as a service address for sending statutory documents. If blank, statutory documents will be sent to the address previously supplied for the holder or principal applicant for the environmental authority.

INDIVIDUAL OR BUSINESS NAME (INCLUDE TRADING NAME IF RELEVANT)

SANTOS QNT PTY LTD

RESIDENTIAL ADDRESS OR REGISTERED BUSINESS ADDRESS (NOT A POST OFFICE BOX ADDRESS)

GROUND FLOOR, SANTOS CENTRE, 60 FLINDERS STREET, ADELAIDE, SA,
5000

POSTAL ADDRESS (IF DIFFERENT FROM ABOVE)

LEVEL 22, 32 TURBOT STREET, BRISBANE, QLD, 4000

CONTACT PERSON AND POSITION

William Inonda - Acting Team Leader - Eastern Queensland and NSW

PHONE

07 3838 3000

FACSIMILE

N/A

EMAIL

ONSHOREENVCOMPLIANCE@SANTOS.COM

2. Plan of operations type☐ Amendment

Proceed to question 3

☒ Replacement

Proceed to question 4

☐ Initial

Proceed to question 4

Refer to the guideline
Preparing a plan of
operations for an
environmental authority
relating to a petroleum
lease (ESR/2015/1821), for
the most up to date
information required to be
included with this
submission.

A plan of operations must
state a plan period of a
maximum of five years
An amendment cannot
extend the current plan
period.

An ERC decision must be
in effect and cover the
period of the plan period.

If you are submitting a
replacement plan of
operations, you must
submit an ERC decision
application on the same
day with the same period.

3. Amendment details

Provide details of the amendments, including the reasons for the amendment and a summary of any changes to activities.

4. Plan period

State the period for which the plan will apply.

COMMENCEMENT DATE	31 / 01 / 2026
COMPLETION DATE	31 / 01 / 2031

It is a condition of the environmental authority that the plan period for the plan of operations must be consistent with the ERC period. The commencement date for the plan of operations should be on or after the ERC commencement date, and the completion date for the plan of operations should be on the same day as the completion date for the ERC completion date.

However, if you are submitting a replacement plan of operations you must submit an ERC decision application on the same day, with the same period.

☒ An application for an ERC decision requesting the same period as the proposed plan of operations period has been submitted

OR

☐ An existing ERC decision that covers the period of the initial proposed plan of operations period is in effect and the existing ERC amount for that decision has not changed.

Petroleum resource being extracted includes all minerals authorised under the P&G Act. For example, Crude Oil, CSG or Natural Gas.

5. Description of each petroleum lease

Provide a description of each petroleum lease for the environmental authority in the table below.

LEASE NUMBER	PETROLEUM RESOURCE BEING EXTRACTED	WILL THERE BE ANY NEW DISTURBANCE TO THE LEASE DURING THE PLAN PERIOD?
PL 1082 & PL 1083	CSG	☐ Yes ☒ No
		☐ Yes ☐ No
		☐ Yes ☐ No

6. Description of land to which each lease applies

Spatial information must provide a description of the land to which each petroleum lease applies. This description must address the following information for each lease:

- Original land use(s)
- Post-operation land use(s)
- Sensitive receptor(s)
- Project boundary

This information must be consistent with the applicable schema table in Attachment 1.

☒ Spatial information has been submitted

OR

If you have previously submitted this spatial information in a former plan of operations and the information is still current and relevant, you may use this information to satisfy this requirement.

☐ Spatial information has previously been submitted to the department

7. Description of the land to which the plan applies

Identify the categories contained in the table below, where relevant to any areas or potential areas of significant disturbance during the plan period.

CATEGORY	RELEVANT?
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Spatial information must be prepared and submitted in accordance with the department's guideline: Spatial Information Submission (ESR/2018/4337).

Refer to the guideline Preparing a plan of operations for an environmental authority relating to a petroleum lease (ESR/2015/1821), for the most up to date information required to be included with this submission, and the

definitions of these categories.

Category A environmentally sensitive area (ESA) defined under the Environmental Protection Regulation 2019	☒ No ☐ Yes
Category B ESA defined under the Environmental Protection Regulation 2019	☐ No ☒ Yes
Matters of National Environmental Significance (MNES) under the <i>Environment Protection and Biodiversity Conservation Act 1999</i>	☒ No ☐ Yes
Matters of State environmental significance (MSES) under the Environmental Offsets Regulation 2014	☐ No ☒ Yes
Areas of regional interest under the <i>Regional Planning Interest Act 2014</i>	☐ No ☒ Yes
Critically endangered, endangered, vulnerable, near threatened or least concern wildlife species under the <i>Nature Conservation Act 1992</i>	☐ No ☒ Yes
Watercourses, wetlands, springs (including relevant environmental values) or river improvement trust asset areas	☐ No ☒ Yes

8. Plan of all activities

Provide a plan describing all activities to be carried out on the land within the plan period.

The plan must include:

A. Existing activities

Spatial information must provide the location and details of all existing activities carried out/ infrastructure constructed on the land at the commencement of the plan period. This information must be consistent with the applicable schema table in Attachment 1.

☒ Spatial information has been submitted

B. Proposed activities

Attach details of all proposed activities to be carried out/ infrastructure to be constructed on the land within the plan period. This information must be in the same format and include the information outlined in Appendix 1.

☒ Proposed activities attached

Spatial information must be prepared and submitted in accordance with the department's guideline: Spatial Information Submission (ESR/2018/4337).

Refer to the guideline
Preparing a plan of
operations for an
environmental authority
relating to a petroleum
lease (ESR/2015/1821), for
the most up to date
information required to be
included with this
submission.

Refer to the guideline
Preparing a plan of
operations for an
environmental authority
relating to a petroleum
lease (ESR/2015/1821), for
the most up to date
information required to be
included with this
submission.

Spatial information must be
prepared and submitted in
accordance with the
department's guideline:
Spatial Information
Submission
(ESR/2018/4337)

9. Action program

Attach an action program for complying with each schedule of conditions in your environmental authority. This program must be in the same format and include the information outlined in Appendix 2.

☒ Action program attached

OR

If you have previously submitted this action program (in the format of Appendix 2) in a former plan of operations and the information is still current and relevant, you may use this document to satisfy this requirement.

☐ Action program has previously been submitted to the department

10. Rehabilitation program

Attach a rehabilitation program for land disturbed or proposed to be disturbed under each relevant lease during the plan period.

Note: If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation program in the plan of operations is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance.

The rehabilitation program must contain the following:

A. Rehabilitation plan

Attach a detailed rehabilitation plan developed with consideration of the nature, staging and areas of proposed rehabilitation works:

☒ Rehabilitation plan attached

OR

If you have previously submitted a rehabilitation plan, or equivalent plan, to the administering authority and the information is still current and relevant, you may use this plan to satisfy this requirement.

☐ Equivalent document has previously been submitted to the department

Name of document:

Date document was submitted:

B. Rehabilitation schedule

Attach a schedule of rehabilitation activities detailing the type and areas of rehabilitation proposed to be undertaken within the plan period. This schedule must be in the same format and include the information outlined in Appendix 3.

Note: If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation schedule is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance.

☒ Rehabilitation schedule attached

Existing Rehabilitation

Spatial information must provide the location and details of all existing rehabilitation present on the land at the commencement of this plan period. This information must be consistent with the applicable schema table in Attachment 1.

☒ Spatial information has been submitted

The compliance statement must be made:

- 1) If the holder is an individual/s—by the holder
- 2) If the holder is a corporation—by the executive officer of the corporation

11. Compliance statement

A compliance statement for this plan of operations must be provided by completing the form in Appendix 4: Compliance statement for a plan of operations.

Please note: **It is an offence to give the administering authority information that is false, misleading or incomplete.**

☒ Compliance statement attached

Where there is more than one holder of the environmental authority, this declaration is to be signed by all holders, unless there is an agreement between all holders that one can sign on behalf of the other.

Note: If only one holder is signing this application form, they are committing all holders to the content of the application and the declaration.

Where the environmental authority holder is a company, this form must be signed by an authorised person for that company.

Privacy statement

Pursuant to section 540 of the *Environmental Protection Act 1994* (EP Act), A copy of this form, its attachments and submitted spatial information are releasable to the public register. The public register is available for inspection by members of the public who are able to take extracts, or copies of the documents from the public register. Documents that are required to be kept on the public register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@detsi.qld.gov.au or telephone 13 74 68.

12. Declaration

Note: If you have not told the truth in this application you may be prosecuted.

Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox.

☒ I have the authority to sign this form on behalf of all the joint holders of the environmental authority.

I declare that:

- I am the holder of the environmental authority or an authorised signatory.
- The information provided is true and correct to the best of my knowledge.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, is false or misleading in a material particular.
- I understand that it is an offence under section 480A of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, contains incomplete information in a material particular.
- I understand that failure to provide sufficient information may lead to the plan of operations being invalid.
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

SIGNATORY'S NAME	
Refer to Attachment 1	
SIGNATURE	
POSITION OF SIGNATORY	DATE
JOINT HOLDER'S NAME (IF APPLICABLE)	JOINT HOLDER'S SIGNATURE (IF APPLICABLE)
JOINT HOLDER'S NAME (IF APPLICABLE)	JOINT HOLDER'S SIGNATURE (IF APPLICABLE)

Applicant checklist

- ☒ Application form has been completed and signed
- ☒ Question 6: Spatial information describing each petroleum lease submitted
- ☒ Question 8A: Spatial information for all existing activities submitted
- ☒ Question 8B: Plan of proposed activities attached
- ☒ Question 9: Action program attached
- ☒ Question 10A: Rehabilitation plan attached (if applicable)
- ☒ Question 10B: Rehabilitation schedule for the plan period attached
- ☒ Question 10C: Spatial information for all existing rehabilitation submitted
- ☒ Question 11: Compliance statement attached

Further information

The latest version of this publication and other publications referenced in this document can be found at www.qld.gov.au using the relevant publication number (e.g. ESR/2018/4340 for this document) as a search term.

Please submit your completed form to the Energy and Extractive Resources Business Centre, Department of the Environment, Tourism, Science and Innovation by:

- Email: EnergyandExtractive@detsi.qld.gov.au
- Regular post: GPO Box 2454, BRISBANE QLD 4001

Enquiries:

Energy and Extractive Resources Business Centre

Phone: 07 3330 5715

Email: EnergyandExtractive@detsi.qld.gov.au

APPENDIX 1—PLAN OF ACTIVITIES: PART B (PROPOSED ACTIVITIES)

1. Include all domains which are applicable to the activities proposed to be undertaken on the land during the plan period.
2. For each domain, add a line for each activity that applies. A list of activities is provided in Attachment 2 of this form.
3. Where a particular activity is not listed in Attachment 2, you may add your own line item to the below table. This activity can be inserted into the applicable domain, or into the 'Additional Activity' domain.
4. Where the information provided in this plan of operations is to be used to satisfy the spatial information requirements in the Estimated Rehabilitation Cost (ERC) application, this plan of activities must include all proposed activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, ATP's etc) and must be consistent with what will be input into the ERC calculator.

ACTIVITY <i>Example (exploration): Seismic 2D</i>	DISTURBANCE DETAILS														
	YEAR 1			YEAR 2 <i>(if applicable)</i>			YEAR 3 <i>(if applicable)</i>			YEAR 4 <i>(if applicable)</i>			YEAR 5 <i>(if applicable)</i>		
	TENURE <i>Example: PL 123</i>	ADDITIONAL PARAMETERS <i>Example: 200 km</i>	DISTURBANCE AREA (ha) <i>Example: XX Ha</i>	TENURE	ADDITIONAL PARAMETERS	DISTURBANCE AREA (ha)	TENURE	ADDITIONAL PARAMETERS	DISTURBANCE AREA (ha)	TENURE	ADDITIONAL PARAMETERS	DISTURBANCE AREA (ha)	TENURE	ADDITIONAL PARAMETERS	DISTURBANCE AREA (ha)
DOMAIN 1: EXPLORATION <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 2: ROADS, TRACK, LAYDOWN AND BORROW PITS <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															

Form

Submission of a plan of operations

DOMAIN 3: CAMPS, BUILDINGS AND SEWAGE TREATMENT PLANTS <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 4: POWER GENERATION AND DISTRIBUTION <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 5: WELL PADS AND ASSOCIATED INFRASTRUCTURE <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 6: PIPELINES <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 7: GAS PROCESSING AND OIL STORAGE FACILITIES <i>(if applicable)</i>															

Form

Submission of a plan of operations

Total Domain Disturbance Area (ha)															
DOMAIN 8: WATER TREATMENT PLANTS AND TRANSFER STATIONS <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 9: WATER STORAGE INFRASTRUCTURE (DAMS / PONDS & TANKS) <i>(if applicable)</i>															
Total Domain Disturbance Area (ha)															
DOMAIN 10: ADDITIONAL ACTIVITIES <i>(if applicable)</i>															
Domain Disturbance Area (ha)															
TOTAL DISTURBANCE AREA (ha) per year <i>(= D1 + D2 + D3 + D4 + D5 + D6 + D7 + D8 + D9 + D10)</i>															

APPENDIX 2 —ACTION PROGRAM

- 1. Complete required details demonstrating how you will comply with the conditions of your environmental authority.
- 2. At a minimum, include all schedules on your environmental authority. Individual conditions may also be included where appropriate.

EA CONDITION	INTERNAL PROCESS / MANAGEMENT SYSTEM <i>(if applicable)</i>	ENVIRONMENTAL MANAGEMENT STRATEGIES
<i>Example: Schedule X</i>	<i>XXXX Monitoring Plan</i>	<i>Schedule construction for dry time of year, get CPESC to develop ESC plan, undertake monitoring and ensure maintenance of ESC measures during construction phase</i>

APPENDIX 3 —REHABILITATION SCHEDULE

- *Detail all the rehabilitation activities proposed to be undertaken on the land during the plan period.*
- *Similar rehabilitation activities can be aggregated together (e.g. 3 wells), provided that the same rehabilitation methodology will be used for all sites and they are all located in areas of equal environmental sensitivity (e.g. if one well is located in a MSES that would need to be a separate line item).*
- *Where the information provided in this plan of operations is to be used to satisfy the spatial information requirements in the ERC application, this schedule must include all rehabilitation activities under all tenures of the environmental authority for the plan period (including 1923 petroleum leases, ATP's etc).*
- *If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation schedule in the plan of operations is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance. The 'DOMAIN' and 'REHABILITATION WORKS ALREADY UNDERTAKEN' columns are only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application.*

DOMAIN ¹	ACTIVITY	LOCATION	AREA (ha)	POST- OPERATION LAND USE	TIMING (WHEN) ²	REHABILITATION METHODOLOGY ³	REHABILITATION WORKS ALREADY UNDERTAKEN ⁴
Roads, Tracks, Laydowns and Borrow Pits	Roads	PLXXX	XX	Grazing	Rehabilitation site works – Q3 2026 (Year 4 of the Plan) Completed for handover or relinquishment – Q3 2027 (Year 5 of the Plan)	• Removal of aboveground infrastructure. • Strip capping material and reprofile pad. • Reinstate natural drainage lines and contours. • Reinstate topsoil. • Application of seed and fertiliser. • Installation of erosion and sediment controls as required. • Installation of fencing as required.	Nil, sites are still active.

Form

Submission of a plan of operations

- ¹ This column is only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application. If this column is required, insert the Domain type from the ERC calculator.
- ² If this rehabilitation schedule is to be used to satisfy the rehabilitation plan requirements in the ERC application and the rehabilitation is to be undertaken outside of the plan period, include the year if known or insert "Rehabilitation to be undertaken outside of plan period".
- ³ Provide a description of rehabilitation activities that will be specifically undertaken during the plan period. If this rehabilitation schedule is to be used to satisfy the rehabilitation plan requirements in the ERC application, include the rehabilitation methodology required to restore all existing disturbance and disturbance proposed to be undertaken in the plan period to its post-operation land use.
- ⁴ This column is only required where this plan of operations is to be used to satisfy the rehabilitation plan requirements in the ERC application. If this column is required, provide a description of rehabilitation activities that have already been undertaken at the start of the plan period.

APPENDIX 4 – COMPLIANCE STATEMENT

GUIDE

The compliance statement must be made:

- 1) If the holder is an individual/s—by the holder
- 2) If the holder is a corporation—by the executive officer of the corporation.

Where there is more than one environmental authority holder, this certification is to be signed by the person authorised to sign on behalf of all EA holders (i.e. the principal holder).

1. Joint holders

Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox.

- ☐ I have the authority to sign this form on behalf of all the joint holders of the environmental authority.

2. Person(s) making the compliance statement

This compliance statement is made by (tick one):

- ☐ **A.** The environmental authority holder (individual/s):

PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME
PRINT FULL NAME

- ☐ **B.** An executive officer of the environmental authority holder (corporation):

NAME OF ENVIRONMENTAL AUTHORITY HOLDER(S)
ABN / ACN
NAME OF EXECUTIVE OFFICER
POSITION OF EXECUTIVE OFFICER
ADDRESS OF EXECUTIVE OFFICER

Please read carefully
through the certification
opposite before signing.

The address provided
must be the residential
address of the signatory.

3. Compliance statement

State the extent to which the plan of operations complies with the conditions of the environmental authority:

--

4. Compliance statement certification

I do solemnly and sincerely declare that:

- I am the holder, or where the holder is a corporation, an executive officer of the holder of the environmental authority.
- To the best of my knowledge all information provided as part of this compliance statement, including attachments, addresses the relevant matters and is true, correct, complete, and does not contain misleading information.
- I have not knowingly failed to reveal any relevant information or document to the administering authority.
- The opinions expressed in this compliance statement, including attachments, are honestly and reasonably held.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, is false or misleading in a material particular.
- I understand that it is an offence under section 480A of the *Environmental Protection Act 1994* to give to the administering authority a document containing information that I know, or ought reasonably to know, contains incomplete information in a material particular.
- I understand that all information supplied as part of this compliance statement, including attachments, can be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

SIGNATURE	DATE
NAME	
ADDRESS	
JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)	JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)
JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)	JOINT HOLDER SIGNATURE(S) (WHERE APPLICABLE)

Attachment 1—Spatial data requirements for plan of operations

Attachment 1 provides guidance on the required content of spatial information (shapefiles) for the submission of areas of disturbance and rehabilitation on site as authorised under an environmental authority. This attachment should be read in conjunction with the department's guideline: Spatial Information Submission (ESR/2018/4337). To obtain a copy of the guideline visit www.qld.gov.au and search for "ESR/2018/4337". The following sections provide information about the required fields and attributes for datasets.

Important note: where the information provided in a plan of operations is to be used to satisfy the spatial information requirements in the ERC application, the plan of operations must include all disturbance and rehabilitation activities under all tenures of the environmental authority for the relevant plan period (including 1923 petroleum leases, ATP's etc.)

1. Required files—Table 1

Environmental authority holders must submit shapefiles detailing the existing disturbance and rehabilitation on site in addition to a description of the relevant petroleum lease(s). Where the plan relates to a site that has no existing disturbance or rehabilitation, this should be stated in the spatial information submission email to which the description of the petroleum lease file is attached.

Each geometry type must be submitted in a separate file, as outlined within table 1. Each file must be named in accordance with the requirements outlined within the department's guideline: Spatial Information Submission (ESR/2018/4337).

Table 1: Plan of operations shapefile checklist

File	Spatial information requirement	Schema	Example file name (e.g. using submission date of 30 June 2023)
1	Disturbance and rehabilitation on site – points	Table 2	EPPR00372287_PoO_PT_30062023.zip
2	Disturbance and rehabilitation on site -lines	Table 2	EPPR00372287_PoO_LN_30062023.zip
3	Disturbance and rehabilitation on site - polygons	Table 2	EPPR00372287_PoO_PY_30062023.zip
4	Description of petroleum lease	Table 3	EPPR00372287_PoOL_PY_30062023.zip

Where:

- PT = point (geometry)
- PY = polygon (geometry)
- LN = line (geometry)
- PL = description of the petroleum lease(s)

2. Requirements for disturbance and rehabilitation data – Table 2

Table 2 comprises the schema for disturbance and rehabilitation data as required within questions 8A and 10C of the approved form. It is important to note that a number of options are provided for some fields, however only one value for each field should be populated from the available list.

A master schema spreadsheet and a shapefile template is available on the department's website at www.detsi.qld.gov.au, using the search term "submission of spatial information".

Table 2: Schema for plan of operations - disturbance and rehabilitation

Field Name	Type	Length	Definition	Domain Values ³	Domain Value Description	Mandatory/ Optional
PERMIT_REF	TEXT	50	The alpha-numeric environmental authority number relevant to the spatial information.			Mandatory
PROCESS	TEXT	4	The relevant process spatial data is being submitted for.	AR	Annual Return	Mandatory
				ERCP	Estimated Rehabilitation Cost Petroleum	
				PoO	Plan of Operations	
SITE_NAME	TEXT	254	Site name relating to the environmental authority.			Mandatory
SITE_ID	TEXT	20	This field contains a unique identifier for the spatial feature, which has been generated by the proponent.			Mandatory for ARs. And PoO. Optional for ERCs.
MAP_ID	TEXT	5	This field contains a unique user entered identifier linking to ERC calculator. This field is optional and should only be used where a MAP ID is to be			Not required for ARs. Optional for ERC / PoO.

³ If blank, populate based on Attribute type & definition

Form

Submission of a plan of operations

			provided in the ERC Calculator and is not required for Annual Returns.			
DATE_START	DATE	dd/mm/yyyy	This field indicates the reporting commencement date e.g. 01/01/2023.			Mandatory
DATE_END	DATE	dd/mm/yyyy	This field indicates the reporting end date e.g. 31/12/2023.			Mandatory
STATUS	TEXT	2	This field relates to the status of the activity in terms of rehabilitation or disturbance. Polygons which represent areas of disturbance should describe this field as 'D1' for disturbance. <u>Polygons which represent areas of rehabilitation should describe this field as either R1, R2 or R3 depending on the status of the rehabilitation.</u> R1 - indicates that rehabilitation works have commenced on ground. R2 - indicates where rehabilitation has been completed but not certified in accordance with the EP Act. R3 - indicates areas of completed and certified rehabilitation in accordance with the EP Act.	D1	Disturbance	Mandatory
				R1	Rehabilitation Commenced (non-certified)	
				R2	Completed Rehabilitation (for which progressive certification has not yet been approved in accordance with the EP Act)	
				R3	Certified Rehabilitation (for which progressive certification has been approved in accordance with the EP Act)	
SOURCE	TEXT	5	This field identifies the source of the spatial information and the capture methodology for the spatial information provided.	DIG	Digitising (Tracing over Ortho Imagery)	Mandatory
				GPSD	GPS Differential Survey	
				GPSND	GPS Non Differential Survey	
				RTK	Real-Time Kinematic (RTK) Survey	
				UK	Unknown	

Form

Submission of a plan of operations

ACT_TYPE	TEXT	4	This field indicates the type of activity. If the activity is for rehabilitation, please select the previous activity for the area. If your activity is not available from the list and the ACTIVITY_TYPE is selected as 'Other', you must select the appropriate domain in the DOMAIN_TYPE field and provide information on the activity type in the COMMENTS field.	AW	Appraisal Well (Point)	Mandatory for ERC and PoO. Not required for Annual Returns.
				Core	Core hole (Point)	
				OGW	Conventional oil/gas well (Point)	
				OW	Operational Well (Point)	
				GPA	Gas pipeline (above ground) (Line)	
				GPB	Gas pipeline (below ground) (Line)	
				OPA	Oil pipeline (above ground) (Line)	
				OPB	Oil pipeline (below ground) (Line)	
				PL	Power Lines (Line)	
				WPA	Water pipeline (above ground) (Line)	
				WPB	Water pipeline (below ground) (Line)	
				AT	Access Track (Polygon)	
				BP	Borrow Pit (Polygon)	
				CT	Communication tower (Polygon)	
				DTB	Demountable / temporary building (Polygon)	
				GPF	Gas processing facility (Polygon)	
				LF	Landfills (Polygon)	
				LNGP	LNG plant (Polygon)	
LY	Laydown yard (Polygon)					
NRDL	Non-regulated dam - lined (Polygon)					

Form

Submission of a plan of operations

				NRDU	Non-regulated dam - unlined (Polygon)	
				OSF	Oil storage facility (Polygon)	
				PB	Stand-alone permanent building (Polygon)	
				PC	Permanent camp (Polygon)	
				PGF	Power generation facility (Polygon)	
				RDL	Regulated dam - lined (Polygon)	
				RDU	Regulated dam - unlined (Polygon)	
				Road	Road (Polygon)	
				RoW	Right of way (Polygon)	
				STP	Sewage treatment plant (Polygon)	
				S2D	Seismic 2D (Polygon)	
				S3D	Seismic 3D (Polygon)	
				TC	Temporary camp (Polygon)	
				WaTS	Water transfer station (Polygon)	
				WP	Well pads (Polygon)	
				WTP	Water treatment plant (Polygon)	
				WTS	Waste transfer station (Polygon)	
				OTH	Other (Point, Line, Polygon)	
DOM_TYPE	TEXT	4	This field indicates the domain for the petroleum activity.	Exp	Exploration	Mandatory for ERC and PoO.
				RTL	Roads, tracks, laydown, borrow pits	

Form

Submission of a plan of operations

			If the activity is for rehabilitation, please select the domain of the previous activity for the area. If the ACTIVITY_TYPE = 'Other', select the relevant domain to the activity type.	CB Camps, Buildings and Sewage Treatment Plants	Not required for Annual Returns.
				PGD Power generation and distribution facility	
				WPI Well Pads and associated infrastructure	
				Pipe Pipelines	
				GOF Gas processing facility or Oil Storage	
				WTTS Water treatment plants and transfer stations	
				WS Water Storage infrastructure	
				LNG LNG plant	
				AA Additional Activities	
REHAB_ACT	TEXT	254	This field provides a description of the rehabilitation activities which have been undertaken to date. Mandatory if STATUS = R1.		Mandatory if STATUS = R1 for ERC or PoO. Not required for Annual Returns.
AREA_HA	DOUBLE	N/A	This field indicates the area in Hectares. (Polygon only)		Mandatory if GEOMETRY = polygon.
COMMENTS	TEXT	254	A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data or to provide a description for activities which are not included in this table.		Mandatory if ACT_TYPE = OTH.

Form

Submission of a plan of operations

3. Requirements for describing petroleum leases—Table 3

Table 3 outlines the schema for providing spatial information to describe the petroleum lease(s) as required within question 6 of the approved form. All data for the petroleum lease(s) description is required to be provided as a single file which meets the naming convention within the department's guideline: Spatial Information Submission.

All features provided in this shapefile must be a polygon.

Table 3: Description of petroleum lease schema

Field Name	Type	Length	Definition	Domain Values ⁴	Domain Value Description	Mandatory/ Optional
FID	Object ID	N/A	The unique identifier for the spatial feature.			Mandatory
SHAPE	Geometry	N/A	Allowed Geometry: Polygon			Mandatory
PERMIT_REF	TEXT	50	The alpha-numeric environmental authority number relevant to the spatial information.			Mandatory
PROCESS	TEXT	4	The relevant process spatial data is being submitted for	PoOL	Plan of Operations Lease	Mandatory
SITE_NAME	TEXT	254	Site name relating to the environmental authority.			Mandatory
FEATURE	TEXT	4	This field contains the land use feature on site which this polygon is describing. Select the relevant option of either original land use, post-operation land use, sensitive receptor or project boundary using the codes specified.	OLU	Original land use	Mandatory
				PoLU	Post-operation land use	
				SR	Sensitive receptor	
				PB	Project boundary	

⁴ If blank, populate based on Attribute type and definition.

Form

Submission of a plan of operations

Field Name	Type	Length	Definition	Domain Values ⁴	Domain Value Description	Mandatory/Optional
FEAT_DETSIC	TEXT	254	Feature description		This field provides a description of the feature identified in 'FEATURE'.	Mandatory
DATE_	DATE	dd/mm/yyyy	Date of submission			Mandatory
SOURCE	TEXT	5	This field identifies the source of the spatial information and the capture methodology for the spatial information provided.	DIG	Digitising (Tracing over Ortho Imagery)	Mandatory
				GPSD	GPS Differential Survey	
				GPSND	GPS Non Differential Survey	
				RTK	Real-Time Kinematic (RTK) Survey	
				UK	Un Known	
COMMENTS	TEXT	254	A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data.			Optional

Attachment 2—list of petroleum activities

1. Use the following list to complete the table in Appendix 1 (Proposed Activities) and Appendix 3 (Rehabilitation Schedule).
2. Where a particular activity is not listed in the table below, you may add your own line item into the applicable table and choose the appropriate 'additional parameters' (e.g. if you have additional work areas on site, add these as an additional line item in Appendix 1 and include the 'number' of work areas as the additional parameter).
3. Where using this table to complete information which will be used for an ERC application, ensure that the ERC calculator is consistent with the domains and activity types used in the supporting information.

Domain	Activity type	Additional Parameters
Exploration	Seismic 2D	Length (km)
	Seismic 3D	Length (km)
	Coreholes	Number
Roads, Track, Laydown and Borrow Pits	Road	Length (km)
	Access Track	Length (km)
	Laydown Yard	Number
	Borrow Pits	Number
	Landfills	Number
Camps, Buildings and Sewage Treatment Plants	Temporary Camp	Number
	Permanent Camp	Number
	Demountable/ Temporary Building	Number
	Stand-alone Permanent Building	Number
	Waste Transfer Station	Number
	Sewage Treatment Plant	Number
Power Generation and Distribution	Power Lines	Length (km)
	Power Generation Facility	Number
	Communication Tower	Number
Well Pads and Associated Infrastructure	Appraisal Well	Number
	Operational Well	Number
	Conventional Oil/ Gas Well	Number
	Well pads	Number
Pipelines	Gas Pipelines (Below Ground)	Length (km)

Form

Submission of a plan of operations

	Oil Pipelines (Below Ground)	Length (km)
	Water Pipelines (Below Ground)	Length (km)
	Gas Pipelines (Above Ground)	Length (km)
	Oil Pipelines (Above Ground)	Length (km)
	Water Pipelines (Above Ground)	Length (km)
	Right of way	Number
Gas Processing and Oil Storage Facilities	Gas Processing Facility	Number
	Oil Storage Facility	Number
Water Treatment Plants and Transfer Stations	Water Treatment Plant	Number
	Water Transfer Station	Number
Water Storage Infrastructure (Dams and Tanks)	Regulated Dam – lined	Number
	Regulated Dam – unlined	Number
	Non-regulated Dam – lined	Number
	Non-regulated Dam – unlined	Number
Additional Activities	(Description of activity)	Number / Length (km)

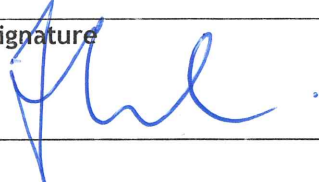
Santos

Attachment 1 – Declaration

Question 12. Declaration

I declare that:

- I am the holder of the environmental authority or an authorised signatory.
- The information provided is true and correct to the best of my knowledge.
- I am aware that under section 480 of the EP Act that it is an offence to give the administering authority or an authorised person a document that contains information that I known, or ought reasonably know, to be false or misleading in a material particular.
- I am aware that under section 480A of the EP Act that, if I am required to give a document to the administering authority, it is an offence to give a document that contains incomplete information in a material particular.
- I understand that failure to provide sufficient information may result in the application being refused.
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

Environmental Authority Holder's Name Santos QNT Pty. Ltd.	
Signature 	
Position of Signatory Manager Environment - EA PNG	Date 20/1/26
Joint Holder's Name Comet Ridge Mahalo Pty. Ltd.	Joint Holder's Signature 

Appendix 2 – Spatial Information

Submitted as per Queensland Spatial Submission Guideline and Inbox

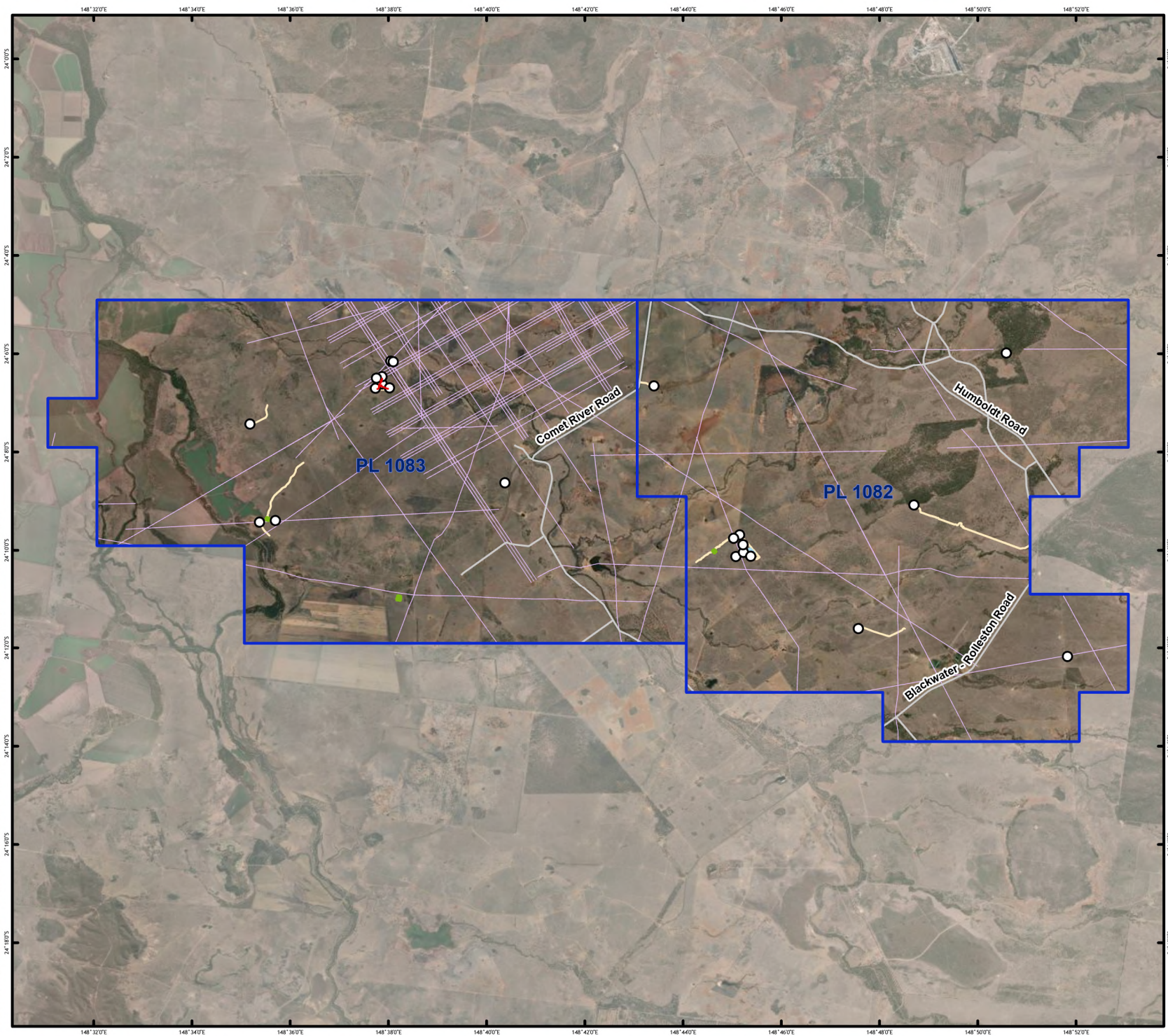
Appendix 3 – Plan of Activities

Plan of Activities

In accordance with Question 8B of the DETSI Form – *Submission of a plan of operations (ESR/2018/4340)*, the details of all proposed activities to be carried out / infrastructure to be constructed on the land within the plan period is detailed in Table 1.

No development is planned to be carried out within the Mahalo Project Area.

**Appendix 4 – Existing Disturbance
Map**



Existing Infrastructure

- Well
 - Gas Pipeline
 - Road
 - Access Track
 - Dam/Pond
 - Seismic Line
 - Well Pad
- Other**
- Santos Tenement



Scale 1:200,000 (A4)



Coordinate System: GDA2020



FIGURE 1 EXISTING INFRASTRUCTURE

QEJ25098
Santos - Mahalo ERC

Drawn SOH - 08/01/2026

Page 1 of 1

Appendix 5 – Action Program

Action Program

This Action Program has been developed utilising the Santos Management System (SMS) to demonstrate Santos's capacity to comply with the conditions of the EA relevant to this PoO. The action program is detailed in Table 2, and further information on the SMS is provided in Sections 1.1 to 1.2. The Action Program addresses the requirements of Question 9 of the DETSI Form – Submission of a plan of operations (ESR/2018/4340).

1.1 Management Framework

Santos has a company-wide integrated management system (the Santos Management System (SMS)), which applies to all Santos operations worldwide. The SMS provides a structured framework for effective environmental, and health and safety practices across all activities and operations through the company's corporate values, policy statements (particularly the environment, health and safety policy) and supporting the standards and procedures, processes and tools, which set minimum performance requirements. Although the SMS is not certified, its goals and processes are consistent with those of ISO 14001/18001.

The documents that constitute the SMS are controlled, with the current version maintained in electronic form in a central database ("Discover"), which is accessible to all Santos sites and personnel.

Further discussion of the components of the SMS is provided in the following sections.

1.1.1 Policies and the Santos Code of Conduct

The policies and code of conduct outline the company's objectives and the behaviours expected of anyone who works for or with Santos. Relevant policies are outlined in Table 1.

Table 1. Relevant Corporate Policies

Policy	Commitment
Environment, Health and Safety policy	Santos is committed to a workplace where we all go home without injury or illness and manage the impact of our operations on the environment.
Climate change policy	Santos recognises the science of climate change and supports the objective of limiting global temperature rise to less than 2 degrees Celsius. Our strategy focusses on natural gas which we believe will continue to play a key role in a low carbon future. We are committed to being part of the solution by supporting the twin objectives of limiting greenhouse gas emissions while providing access to reliable and affordable energy to domestic and global markets.
Risk Management	Santos is committed to managing risk in a proactive, structured and effective manner in order to achieve our business objectives.

1.1.2 Management Standards and Procedures

Each Policy is supported by Management Standards and Procedures which set the minimum performance requirements:

- **Management standards** — identifies the minimum and mandatory requirements in relation to key business processes, operational matters and assurance activities to systematically manage environmental health and safety (EHS) risk across our operations and activities; and

- **Procedures, Technical Standards, Processes and Tools** – outline how the performance requirements and expectations in the Policies, Code of Conduct and Management Standards are to be met.

The management standards and corresponding procedures, technical standards, processes and tools relevant to Environment, Health and Safety are listed below:

- Environment, Health and Safety Policy
- Climate Change Policy
- SMS-OES-OS02-PD04 Management of Change Procedure
- SMS-HSS-OS08-PD01 HSE Contractor Management Procedure
- Environment Management - Technical Standard
- Information Systems Operating standards
- SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure
- SMS-OES-OS04-PD02 Operating Practices Procedure
- Environment Approvals - Technical Standard
- SMS-OES-OS01-PD01 – Operations Governance Framework Procedure

1.1.3 Environmental Management Plans

Environmental Management Plans have been prepared to address requirements of the Santos Project. These management plans are largely risk based, taking into account the legal, other obligations and commitments for the Project. These plans include:

- Santos Eastern QLD Upstream and GTP Contingency Plan for Emergency Environmental Incidents.
- Santos Queensland Onshore CSG Soil Management Plan.
- Santos Eastern QLD Upstream and GTP Noise Management Plan.
- Santos GLNG Upstream Decommissioning and Demolition Management Plan
- Santos Eastern QLD Upstream and GTP Waste Management Plan
- Santos GLNG Upstream Rehabilitation Monitoring Plan
- Santos GLNG Project Significant Species Management Plan
- Santos Eastern Queensland Stimulation Impact Monitoring Program
- Eastern QLD Upstream and GTP Seepage Monitoring Program
- Santos GFD Project Offset Plan
- Santos GLNG Environmental Protocol for Constraints Planning and Field Development – GFD
- Santos GLNG Significant Species Management Plan – GFD Project
- Santos GFD CSG Waste Management Plan.

A summary overview of the environmental management documents and their applicability to the schedules of the EA is provided in Table 2.

1.2 Key Compliance Tools

Santos uses the following key compliance systems / tools to manage compliance with legal and other obligations:

- EHS Toolbox.
 - Incident Management System (IMS).
 - Audit and Inspection Manager (AIM).
 - Integrated Risk Register (IRR).
 - SRM Complaints Register
- landfolio (regulatory approvals database).
- EQUIS (Environmental Quality Information System).
- EART Database – environmental approval request tracking database.

Table 2: Action Plan

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
Schedule A – General Conditions	• Environment, Health and Safety Policy • Climate Change Policy • Charters for the Board and Executive sub committees • SMS-LR G-OS04 - Compliance Standard • SMS-INS-OS02 - Data and Information Management Standard	• Santos Eastern QLD Upstream and GTP Contingency Plan for Emergency • Environmental Incidents • SMS-OES-OS04-PD02 Operating Practices Procedure • SMS-OES-OS04-PD03 Competency Framework Procedure • SMS-OES-OS02-PD02 Process Safety in Operations Procedure • 1541-012-WPR-0010 Operational Risk Management • SMS-HSS-OS08-PD01 HSE Contractor Management Procedure • SMS-OES-OS02-PD04 Management of Change Procedure • SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure • Environment Approvals – Technical Standard • Environment Management – Technical Standard • SMS-HSS-OS02-PD14-Consultation and Communication Procedure • EHS Toolbox: ○ Incident Management System (IMS) ○ Audit and Inspection Manager (AIM) ○ Integrated Risk Register (IRR) ○ SRM Complaints Register • Landfolio (regulatory approvals database) • Environmental Quality Information System (EQulS) • Third Party Audit Report
Part B Schedule B – Water	• Environment, Health and Safety Policy • Climate Change Policy • Charters for the Board and Executive sub committees • SMS-LR G-OS04 - Compliance Standard	• Santos Eastern QLD Upstream and GTP Waste Management Plan • Santos GLNG Project Environmental Protocol for Planning Constraints and Field Development - GFD • Santos Queensland Onshore CSG Soil Management Plan • SMS-EXA-OS01-PD02 Environmental Hazard Controls Procedure

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
	SMS-INS-OS02 - Data and Information Management Standard	- SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure - SMS-OES-OS02-PD02 Process Safety in Operations Procedure - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-OES-OS02-PD04 Management of Change Procedure - SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure - Environment Approvals – Technical Standard - Environment Management – Technical Standard - SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule H – Regulated Structures	- Environment, Health and Safety Policy - Climate Change Policy - Charters for the Board and Executive sub committees - SMS-LR G-OS04 - Compliance Standard - SMS-INS-OS02 - Data and Information Management Standard	- Santos GLNG Environmental Protocol for Constraints Planning and Field Development – GFD - SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure. - SMS-HSS-OS02-PD03 Lifting Operations Procedure, - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-HSS-OS08-PD01 HSE Contractor Management Procedure. - SMS-OES-OS02-PD04 Management of Change Procedure. - SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure - Environment Approvals – Technical Standard - Environment Management – Technical Standard - SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule C & D – Land and Biodiversity Values	- Environment, Health and Safety Policy - Climate Change Policy	- Santos GLNG Environmental Protocol for Constraints Planning and Field - Development – GFD

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
	• Charters for the Board and Executive sub committees • SMS-LR G-OS04 - Compliance Standard • SMS-INS-OS02 - Data and Information Management Standard	• Santos Queensland Onshore CSG Soil Management Plan. • Santos GLNG Upstream Rehabilitation Monitoring Plan • Santos Eastern QLD Upstream and GTP Waste Management Plan • Santos GFD Project Offset Plan • Santos GLNG Project Significant Species Management Plan • Santos GLNG Upstream Decommissioning and Demolition Management Plan • Environment Management – Technical Standard • SMS-OES-OS04-PD02 Operating Practices Procedure • SMS-OES-OS04-PD03 Competency Framework Procedure. • SMS-HSS-OS02-PD03 Lifting Operations Procedure, • SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. • SMS-HSS-OS08-PD01 HSE Contractor Management Procedure. • SMS-OES-OS02-PD04 Management of Change Procedure. • SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure • Environment Approvals – Technical Standard • SMS-HSS-OS02-PD14-Consultation and Communication Procedure • EHS Toolbox (tools and resources as described in Schedule A)
Schedule F – Environmental Nuisance	• Environment, Health and Safety Policy • Climate Change Policy • Charters for the Board and Executive sub committees • SMS-LR G-OS04 - Compliance Standard • SMS-INS-OS02 - Data and Information Management Standard	• Santos Eastern QLD Upstream and GTP Noise Management Plan. • Environment Management – Technical Standard • SMS-OES-OS04-PD02 Operating Practices Procedure • SMS-OES-OS04-PD03 Competency Framework Procedure • SMS-OES-OS02-PD02 Process Safety in Operations Procedure • SMS-PRC-OS01-PD01 Source to Contract Procedure • SMS-MS01-ST04 Management of Change Procedure • SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure • Environment Approvals – Technical Standard

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
		- SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule G - Air	- Environment, Health and Safety Policy - Climate Change Policy - Charters for the Board and Executive sub committees - SMS-LR G-OS04 - Compliance Standard - SMS-INS-OS02 - Data and Information Management Standard	- Santos GLNG Environmental Protocol for Constraints Planning and Field - Development – GFD - SMS-EXA-OS01-PD02 Environmental Hazard Controls Procedure - SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure. - SMS-HSS-OS02-PD03 Lifting Operations Procedure, - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-HSS-OS08-PD01 HSE Contractor Management Procedure. - SMS-OES-OS02-PD04 Management of Change Procedure. - SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure - Environment Management – Technical Standard - Environment Approvals – Technical Standard - SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule E – Waste	- Environment, Health and Safety Policy - Climate Change Policy - Charters for the Board and Executive sub committees - SMS-LR G-OS04 - Compliance Standard - SMS-INS-OS02 - Data and Information Management Standard	- Santos Eastern QLD Upstream and GTP Waste Management Plan - Santos GFD CSG Waste Management Plan. - Environment Approvals – Technical Standard - Environment Management – Technical Standard - SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure. - SMS-HSS-OS02-PD03 Lifting Operations Procedure, - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-HSS-OS08-PD01 HSE Contractor Management Procedure.

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
		- SMS-OES-OS02-PD04 Management of Change Procedure. - SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure - SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule J – Rehabilitation	- Environment, Health and Safety Policy - Climate Change Policy - Charters for the Board and Executive sub committees - SMS-LR G-OS04 - Compliance Standard - SMS-INS-OS02 - Data and Information Management Standard	- Santos GLNG Upstream Rehabilitation Monitoring Plan - Santos GLNG Upstream Decommissioning and Demolition Management Plan - Environment Management – Technical Standard - Environment Approvals – Technical Standard - SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure. - SMS-HSS-OS02-PD03 Lifting Operations Procedure, - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-HSS-OS08-PD01 HSE Contractor Management Procedure. - SMS-OES-OS02-PD04 Management of Change Procedure. - SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure - SMS-HSS-OS02-PD14-Consultation and Communication Procedure - EHS Toolbox (tools and resources as described in Schedule A)
Schedule I – Well Construction, Maintenance and Stimulation	- Environment, Health and Safety Policy - Climate Change Policy - Charters for the Board and Executive sub committees - SMS-LR G-OS04 - Compliance Standard - SMS-INS-OS02 - Data and Information Management Standard	- Santos Eastern Queensland Stimulation Impact Monitoring Program - Environment Management – Technical Standard - Environment Approvals – Technical Standard - SMS-OES-OS04-PD02 Operating Practices Procedure - SMS-OES-OS04-PD03 Competency Framework Procedure. - SMS-HSS-OS02-PD03 Lifting Operations Procedure, - SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. - SMS-HSS-OS08-PD01 HSE Contractor Management Procedure.

EA Condition	Internal Process/Management System (if applicable)	Environmental Management Strategies
		• SMS-OES-OS02-PD04 Management of Change Procedure. • SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure • SMS-HSS-OS02-PD14-Consultation and Communication Procedure • EHS Toolbox (tools and resources as described in Schedule A)
Schedule K – Notification	• Environment, Health and Safety Policy • Climate Change Policy • Charters for the Board and Executive sub committees • SMS-LR G-OS04 - Compliance Standard • SMS-INS-OS02 - Data and Information Management Standard	• Santos Eastern QLD Upstream and GTP Contingency Plan for Emergency Environmental Incidents. • Environment Management – Technical Standard • Environment Approvals – Technical Standard • SMS-OES-OS04-PD02 Operating Practices Procedure • SMS-OES-OS04-PD03 Competency Framework Procedure. • SMS-HSS-OS02-PD03 Lifting Operations Procedure, • SMS-HSS-OS04-PD01 Fitness for Work & Fatigue Management Procedure. • SMS-HSS-OS08-PD01 HSE Contractor Management Procedure. • SMS-OES-OS02-PD04 Management of Change Procedure. • SMS-HSS-OS05-PD01 – Crisis, Incident Management & Emergency Response Procedure • SMS-HSS-OS02-PD14-Consultation and Communication Procedure • EHS Toolbox (tools and resources as described in Schedule A)

Appendix 6 – Rehabilitation Program

1. Rehabilitation Program

In accordance with Question 10 of the Department of Environment, Tourism, Science and Innovation (DETSI) Form – *Submission of a plan of operations (ESR/2018/4340)*, a rehabilitation program must be provided for land disturbance or proposed to be disturbed during the plan period. The program must be comprised of a rehabilitation plan, schedule of rehabilitation activities and spatial information. The rehabilitation plan and schedule of rehabilitation activities for P-EA-100178150 are presented in the Sections 1.1 to 1.6 below. Spatial information detailing all existing rehabilitation present on the land at the commencement of this plan period will be provided to DETSI at the time of Plan of Operations submission in accordance with ESR/2018/4340. Details of existing rehabilitation is presented in Section 1.7.

1.1. Rehabilitation Requirements

Rehabilitation will occur progressively over the life of the project in accordance with the conditions of the Environmental Authority (EA) P-EA-100178150. During the plan of operations period, it is proposed to rehabilitate the pipeline right of way by backfilling the trench, reinstating the topsoil and re-profiling, reinstatement of surface drainage as required and re-establishment of appropriate groundcover. In accordance with the conditions of the EA, the pipeline trenches will be backfilled and topsoils reinstated within three months after pipe laying and the reinstatement and revegetation of the right of way will commence within six months following the completion of construction. The rehabilitated right of way must be:

- a) a stable landform;
- b) re-profiled to a level consistent with surrounding soils;
- c) re-profiled to original contours and established drainage lines; and
- d) vegetated with groundcover which is not a declared pest species, and which is established and growing

Areas no longer required for the on-going activities will be rehabilitated within 12 months and maintained to meet transitional rehabilitation criteria (TRC), defined as:

- a) contaminated land resulting from petroleum activities is remediated and rehabilitated
- b) the areas are:
 - i. non-polluting;
 - ii. a stable landform;
 - iii. re-profiled to contours consistent with the surrounding landform
- c) surface drainage lines are re-established;
- d) topsoil is reinstated; and
- e) either:
 - i. groundcover, that is not a declared pest species, is growing; or
 - ii. an alternative soil stabilisation methodology that achieves effective stabilisation is implemented and maintained.

At decommissioning/abandonment, final rehabilitation will be completed to meet the final rehabilitation criteria (FRC) measured either against the highest ecological value adjacent land use or the pre disturbed land use:

- a) greater than or equal to 70 per cent of native ground cover species richness
- b) greater than or equal to the total per cent ground cover
- c) less than or equal to the per cent species richness of declared plant pest species
- d) where the adjacent land use contains, or the pre-clearing land use contained, one or more regional ecosystem(s), then at least one regional ecosystem(s) from the same broad vegetation group, and

with the equivalent biodiversity status or a biodiversity status with a higher conservation value as any of the regional ecosystem(s) in either the adjacent land or pre disturbed land, must be present.

Where petroleum activities have resulted in significant disturbance to land in an environmentally sensitive area (ESA), the following final additional rehabilitation criteria as measured against the pre disturbance biodiversity values assessment must be met:

- a) greater than or equal to 50 per cent of organic litter cover;
- b) greater than or equal to 50 per cent of total density of coarse woody material; and
- c) all predominant species in the ecologically dominant layer, that define the pre-disturbance Regional Ecosystem(s) are present.

1.2. Roles and Responsibilities

Santos Project personnel are responsible for the environmental performance of their activities, for complying with relevant approval/permit requirements and for ensuring that all environmental objectives associated with the work are achieved. Santos Project personnel must also be mindful of the General Environmental Duty as outlined in the *Environmental Protection Act 1994* (Qld) (EP Act). Section 319 of the EP Act states that “a person must not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practical measures to prevent or minimise the harm.”

1.3. Disturbance Lifecycle and Maintenance Monitoring

The disturbance lifecycle can be defined by three distinct stages: construction, operational, and rehabilitation. Regardless of the stage, all works aim to achieve a safe, stable, and non-polluting landform. All new disturbance works are planned, approved, and recorded in a Geographic Information System (GIS) database.

During the construction stage, works are undertaken using standardised designs. These designs include both temporary (construction) and long-term erosion and sediment controls (ESC).

During the operational stage, a risk-based inspection program is implemented to ensure installed ESC is functioning and disturbed areas are stabilising through vegetation growth. Maintenance actions will be implemented where inspections identify that performance criteria are not being met. Detail on this program is not discussed in this RMP in detail.

The rehabilitation stage is broken into two stages transitional and final rehabilitation. Transitional rehabilitation is undertaken at the completion of the operational stage to decommission the site and undertake civil works and final rehabilitation. The transitional and final rehabilitation stage is undertaken with tools such as the GIS database, the rehabilitation register, civil works request system and rehabilitation monitoring.

1.4. Disturbance lifecycle process

Figure 1 below visually explains the process of transitional and final rehabilitation from the time the disturbance area is no longer required by the business to the transfer of the asset to a landholder or certification when relinquishing or surrendering a tenure or EA.

Santos maintains a rehabilitation register which lists disturbances/legacy assets that have been identified by the business. The register is a live document that is updated whenever new information is presented by the business to plan and execute rehabilitation, which is confirmed for each asset through the Asset Suspension & Abandonment Approval - GLNG and EQ Santos Forms Portal. Business approval of this form defines legacy assets/disturbances that are “no longer required for ongoing petroleum activities”. The

register is administered by the Environmental Adviser and is saved on the companies SharePoint site which allows for effective document control and tracking.

When legacy assets and disturbances identified by the business are added to the rehabilitation register, the following steps are tracked:

1. Desktop review if asset/disturbance requires contaminated land assessment. If required provide details to the Environmental Technical Team to administer the contaminated land process.
2. If no contaminated land process required seek confirmation via forms portal approval form that the disturbance/asset is 'no longer required for ongoing petroleum activities'.
3. Status of the site is confirmed via field or desktop assessment
4. Final land use check with Land Access Team i.e., retained by landholder for use (access tracks, dams etc as agreed in writing with the landholder) or put back to previous land use (agriculture or ESA)
5. Civil works can proceed with the aim to bring the site to the transitional rehabilitation criteria through landform, surface water and topsoil works.
6. Once civil works are complete, then stabilisation or planting/seeding works will be completed as required.
7. Ecological surveys are organised after time to allow for groundcover to establish. The surveys follow a consistent methodology (0007-650-TEM-0009) across the Eastern Queensland fields, by a suitably qualified person.
8. Appropriate documentation is organised with landholder or government department to hand the site over. The GIS is updated with the new rehabilitation status of the site

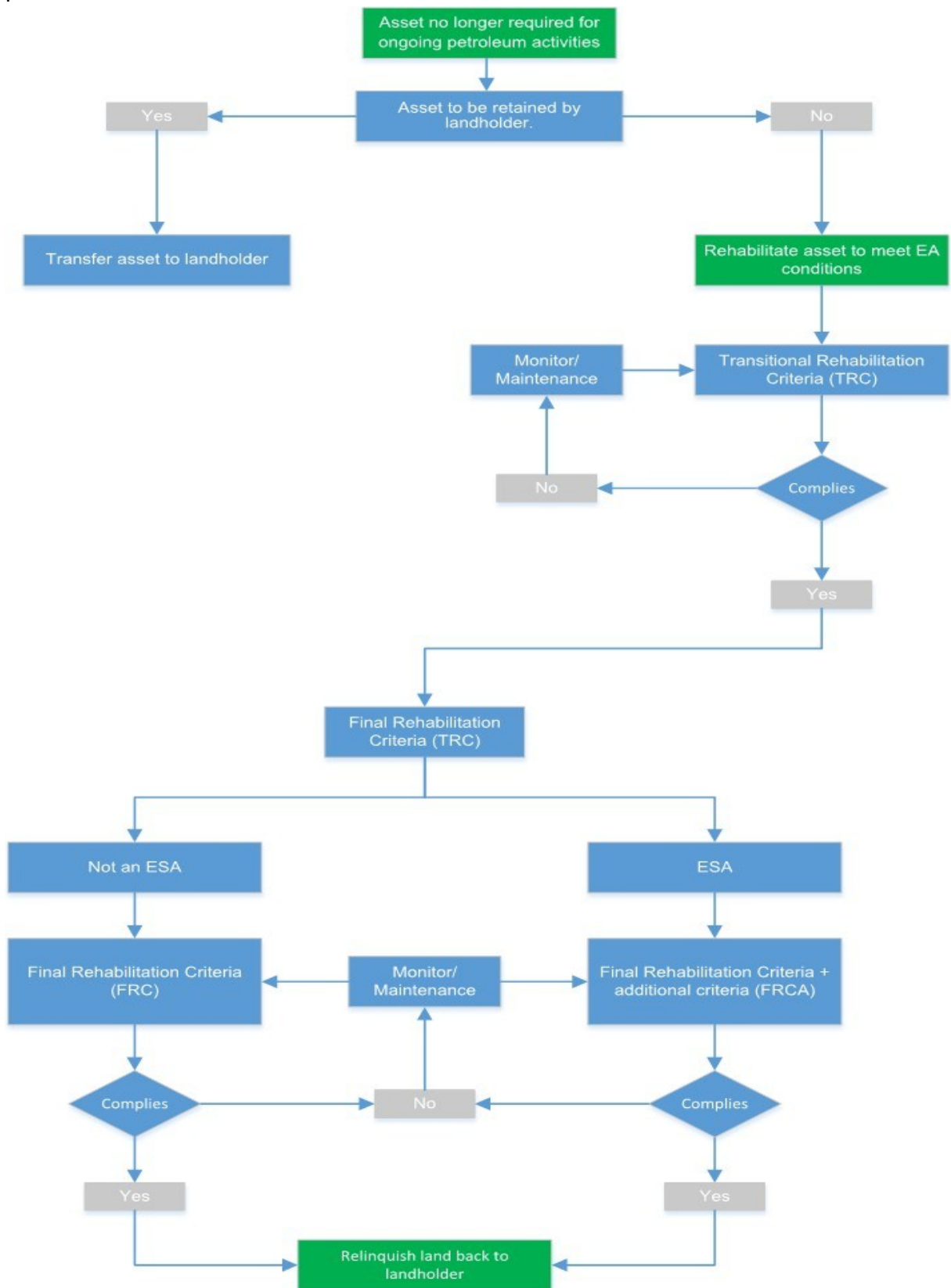


Figure 1: Final Rehabilitation Process Flowchart

1.5. Rehabilitation techniques

There are several techniques available to Santos to carry out rehabilitation works, where required, to achieve the rehabilitation requirements.

Site preparation

All infrastructure (except items wanted by the landholder) will be removed from the site and correctly disposed of in accordance with the waste hierarchy and Waste Management Plan (0007-650-EMP-0030). Steel, concrete, and metal items will be preferentially recycled, with landfilling as the last option for disposal. If appropriate, concrete pads and foundations can be crushed to be reused. This will be considered prior to recycling.

If required, erosion and sedimentation control devices will be installed prior to the commencement of rehabilitation works.

Contaminated Land

Where there is a risk of contaminated land occurring, a site-specific contaminated land assessment and subsequent management plan may be developed for each asset. The scale and type of contamination will determine the chosen management strategy. Small volumes may be disposed offsite via facilities licenced to accept the waste whereas larger volumes may be managed on site using landfarming techniques.

Landform Management

Sites will be reprofiled to a safe and stable landform, with surface drainage lines and topsoil profile re-instated. Where practical, sites will be reprofiled to contours consistent with the surrounding landform. However, where this is not practical (i.e., cut and fill operations on slopes, or within highly dispersive soils), a stable landform will be reinstated by surface re-profiling, contouring, or benching. Methods to reshape the landform will vary depending on the level of disturbance.

Soil Compaction

For long-term disturbances such as well leases, it is likely that the soil will have become compacted over time. Where necessary, the soil will be treated (i.e., deep ripped) to alleviate the soil compaction. This will occur prior to reshaping the upper layers of the soil stratum.

Topsoil Management

Topsoil that is stripped and stored as part of construction activities is to be re-spread as part of stabilisation and rehabilitation activities. Correctly preserved topsoil resources can provide viable sources of seed-stock, biological life and nutrient conditions that assist with soil productivity and fertility, and thereby vegetation establishment.

Sodic Soil Amelioration

Sodic soils when encountered will be blended with an appropriate soil ameliorant (i.e., gypsum, lime) during rehabilitation processes to reduce dispersiveness. A good layer of topsoil will be placed on top of sodic soils during rehabilitation works. Amelioration with gypsum and/or lime or addition of organic mulch can improve soil structure, infiltration and soil aeration can promote vegetation establishment.

Watercourse Crossings

Where clearing of riparian vegetation is unavoidable, the objective will be to reinstate the creek banks and riparian vegetation as soon as practical post-construction. To minimise erosion and destabilisation of creek banks, erosion controls will be constructed or installed, where necessary. The surface will typically be lightly scarified before spreading the topsoil, to promote regeneration of native vegetation and prevent loss of topsoil.

Revegetation

Active seeding will be completed where revegetation is required to ensure stability during operations or to meet transitional and/or final rehabilitation criteria. Within areas of native vegetation, a combination of tube-stock and seeding may be implemented. Tube-stock will be used for canopy and shrub species, while a combination of tube-stock and seeding is appropriate for herbs, forbs and grasses. Species will be selected based on assessments of the adjacent vegetation community composition and other appropriate benchmark guidelines. Any habitat features such as logs, hollow bearing trees and rocks retained during construction will be placed back in the rehabilitated area.

Mulching and Placement of Vegetation

Vegetation cleared during construction phases, will be retained on-site for use during stabilisation and/or rehabilitation activities. Mulch and vegetation may be respread over the site as required. This will assist in site stabilisation, revegetation efforts and suppressing weed growth.

Weed Management

Weed management will be required to enable the regeneration of pre-disturbance land uses and to ensure that the disturbance does not allow for the introduction of new species to an area or increase the localised population of a species. Weed control requiring chemicals will be undertaken as per the Biosecurity Management Plan (0007-650-EMP-0007).

Pest and Livestock Management

Where livestock occur within areas undergoing rehabilitation, temporary stock fencing may be erected to ensure cattle/pigs etc cannot damage rehabilitation works. Fencing will be erected primarily to well pads, laydowns etc where there is a localised disturbance footprint. Rehabilitation of linear infrastructure is more difficult to fence and will require detailed planning to ensure cattle remain off site for as long as practicable.

1.6. Rehabilitation methodology

A summary of rehabilitation methodology to meet TRC and FRC is presented in Table 1 below. These are standard methods to be applied to all significantly disturbed areas.

In ESAs, additional criteria are to be met to meet FRC. Specific techniques for ESAs generally include the use of tube stock and placement of any habitat features such as logs, hollow bearing trees and rocks retained during construction.

Table 1: Rehabilitation Methodology

Activity	Rehabilitation Methodology
Seismic	+ Stabilise significantly disturbed land, topsoil and re-establish natural drainage. + Lightly rip surface to relieve any compaction. + Application of seed and fertiliser or alternative soil stabilisation, as required.

Activity	Rehabilitation Methodology
	+ Declared pest plant control, where required.
Roads/Tracks	+ Strip capping material and reinstate topsoil. + Rip to relieve compaction, where required. + Reinstall natural drainage lines and contours. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Declared pest plant control, where required.
Laydowns	+ Strip capping material and reprofile pad. + Rip to relieve compaction, where required. + Reinstall natural drainage lines and contours. + Reinstall topsoil. + Contaminated land assessment completed as required. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Borrow pits	+ Stabilise landform by surface re-profiling, contouring, or benching. + Reinstall topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Camps and buildings	+ Removal of infrastructure. + If present, removal of concrete pad and foundations or capping material and re-profile (concrete footings and pads will be broken up to at least 1.5 metres below the surface for crushing for beneficial reuse). + Contaminated land assessment completed as required. + Rip to relieve compaction, where required. + Reinstall natural drainage lines and contours. + Reinstall topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Power generation and distribution	+ Removal of infrastructure. + If present, removal of concrete pad and foundations or capping material and re-profile (concrete footings and pads will be broken up to at least 1.5 metres below the surface for crushing for beneficial reuse). + Contaminated land assessment completed as required. + Rip to relieve compaction, where required.

Activity	Rehabilitation Methodology
	+ Reinstate natural drainage lines and contours. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Well pads	+ Removal of infrastructure. + Strip capping material and reprofile pad. + Rip to relieve compaction, where required. + Reinstate natural drainage lines and contours. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Contaminated land assessment, as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Pipelines	+ Backfill trenches and compact. + Re-instate topsoil, natural channels, and drainage. Reprofiled to levels consistent with surrounding areas. Compliant to Australian Standards. + Install erosion and sediment controls (watercourse crossings stabilisation, diversion berms, fencing etc) as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + In some instances, temporary fencing may be installed during rehabilitation of high-risk sites e.g., watercourse crossings. + Declared pest plant control, where required.
Gas processing facilities	+ Removal of infrastructure. + If present, removal of concrete pad and foundations or capping material and re-profile (concrete footings and pads will be broken up to at least 1.5 metres below the surface for crushing for beneficial reuse). + Contaminated land assessment completed as required. + Rip to relieve compaction, where required. + Reinstate natural drainage lines and contours. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.

Activity	Rehabilitation Methodology
Water treatment plants and transfer stations	+ Removal of infrastructure. + If present, removal of concrete pad and foundations or capping material and re-profile (concrete footings and pads will be broken up to at least 1.5 metres below the surface for crushing for beneficial reuse). + Contaminated land assessment completed as required. + Rip to relieve compaction, where required. + Reinstate natural drainage lines and contours. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required. + Installation of fencing as required. + Declared pest plant control, where required.
Water storage infrastructure	Dams + Decommissioning will be conducted in accordance with statutory requirements, and in accordance with the conditions of the EA. + Dams to be retained by landholders (agreement in writing) to be decommissioned to no longer accept inflow from petroleum activities and water to be of suitable quality for ongoing use by landholder + Contaminated land assessment will be undertaken as required. + Disturbance area will be re-shaped. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required + Installation of fencing as required. + Declared pest plant control, where required. Tanks + Removal of infrastructure. + Strip capping material and reprofile pad. + Reinstate natural drainage lines and contours. + Reinstate topsoil. + Installation of erosion and sediment controls as required. + Application of seed and fertiliser or alternative soil stabilisation, as required + Installation of fencing as required. + Declared pest plant control, where required.

1.7. Rehabilitation Monitoring Requirements

Monitoring will inform rehabilitation decisions in relation to actioning of non-conformances relating to transitional criteria. Where required, data will be compared to the pre-disturbed land use data or an analogue site in the highest ecological value adjacent land use. As a guide the following formal monitoring schedule (**Table 2**) is proposed as a minimum to inform rehabilitation requirements. Monitoring is to be undertaken by a suitably qualified person.

Table 2: Proposed monitoring frequency

Rehabilitation Status	Monitoring frequency	Method
Rework	Annually (post rehabilitation)	Remote sensing / ground survey/ sampling
Monitor	Annually (pending weather conditions)	Remote sensing / ground survey/ sampling
Ready for site Relinquishment	Based on previously collected data	Rehabilitation report and progressive certification (ESR/2015/1616 & ESR/2015/1563)

Following the completion of decommissioning/abandonment and civil works to get the site to TRC or FRC, monitoring is to be undertaken against the TRC and FRC (**Table 3** and Table). The status of sites should be entered into the rehabilitation register along with any recommended rehabilitation requirements. Based on this initial assessment, monitoring frequency will be assessed on a case-by-case basis and may depend on weather conditions and predicted time to meet the rehabilitation criteria.

1.8. Data capture

Table 3 and Table 4 provide the parameters and data to be captured for each final land use. Documents should be kept on file for a minimum of five (5) years.

Transitional Rehabilitation

Table 3: TRC Monitoring parameters

Land use	TRC	Monitoring data indicators
All	Contaminated land resulting from petroleum activities is remediated and rehabilitated	Where there is a risk, or records confirming contaminated land (i.e., hydrocarbon/chemicals) occurring from petroleum activities, remediate to meet legislative requirements.
	Stable landform, non-polluting and re-profiled to contours consistent with the surrounding landform	No run-off or subsidence caused by the decommissioning of petroleum activities. Erosion no more than surrounding landscape. Re-profiled to natural landform or where not practical reprofiled to ensure stability and ESC.
	Surface drainage lines are re-established	No evidence of ponding, landform reinstated to be consistent with drainage in surrounding landscape

Land use	TRC	Monitoring data indicators
	Topsoil is reinstated	Where disturbed during decommissioning, reinstated topsoil is consistent with surrounding soil profile of the site. No evidence of soil profile mixing or compaction.
	Groundcover, that is not a declared pest species, is growing OR an alternative soil stabilisation methodology that achieves effective stabilisation is implemented and maintained	No restricted species present on site. Ground cover stable across site.

Final Rehabilitation Criteria

Table 4: FRC Monitoring parameters

Land use	FRC	Monitoring data indicators/ methodology
All	Greater than or equal to 70 per cent of native ground cover species richness For agricultural areas native refers to what is naturalised and native to the site – found in reference site. In vegetated areas native refers to native Australian plants as defined by the Herbarium.	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 50x10 m plot method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
	Greater than or equal to the total per cent ground cover	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 1x1 m quadrats method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site. Per cent ground cover will be categorised into gradients of <19%, 19-39%, 40-59%, 60-79%, 80-100%
	Less than or equal to the per cent species richness of Prohibited or restricted pest species	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 50x10 m plot method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.

Land use	FRC	Monitoring data indicators/ methodology
Non-ESA areas only	Where the adjacent land use contains, or the pre-clearing land use contained, one or more regional ecosystem(s), then: (i) at least one Regional Ecosystem(s) from the same broad vegetation group, as demonstrated by the predominant species in the ecologically dominant layer, must be present; and, (ii) the Regional Ecosystem present must possess an equivalent or higher conservation value (biodiversity status) than the Regional Ecosystem(s) in either the adjacent land or pre-disturbed land	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use Regional Ecosystem delineation following the "Methodology for survey and mapping of regional ecosystems and vegetation communities in Queensland. Version 5.0." (Neldner et al, 2019) or any subsequent updated version of this methodology. Once Regional Ecosystem has been confirmed it will require confirmation of its Broad Vegetation Group, as well as the Biodiversity status.
ESA only	Greater than or equal to 50 per cent of organic litter cover	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 1x1 m quadrats method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
	Greater than or equal to 50 per cent of total density of coarse woody material	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 50x20 m or adapted plot method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
	All predominant species in the ecologically dominant layer, that define the pre-disturbance Regional Ecosystem(s) are present	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use The 100x50 m or adapted plot method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
Lonesome Holding (Lot 2 on SP313789) &	Equal to or greater than the dominant canopy species in the pre-disturbance regional ecosystem, are present as regeneration in the rehabilitation	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use. Species richness measure (canopy) in a 100x50 m or adapted plot method of the BioCondition Assessment methodology V2.2

Land use	FRC	Monitoring data indicators/ methodology
Expedition Resource Reserve (Lot 5 on Plan TR839674)		as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
	The canopy layer is dominated by species that are characteristic of the canopy layer in the pre-disturbance Regional Ecosystem(s)	Comparison with analogue site in either the highest ecological value adjacent land use or the pre-disturbed land use. Species richness measure (canopy) in a 100x50 m or adapted plot method of the BioCondition Assessment methodology V2.2 as per Eyre et al. (2015) or any subsequent updated version is to be used in the rehabilitated area in comparison to the analogue site.
	Final rehabilitation should not require active management by the landowner greater than the surrounding undisturbed area	Transitional criteria being met and landholder signoff achieved.

Where plot sizes are reduced, adjustments to calculations will be required to adequately scale up data from plots to hectare rates.

1.9. Final acceptance reporting

Rehabilitation requirements apply when assets are no longer required for ongoing petroleum activities or when the asset is not intended to be utilised or retained by the landholder or overlapping tenure holder. The transfer of infrastructure assets to landholders will be undertaken in compliance with the Department of Environment and Science Guideline for Petroleum Activities (ESR/2020/5403) before the surrender of the environmental authority or petroleum tenure. This step coincides with ceasing landholder agreements.

For the purposes of this plan, assets being retained by the landholder may be categorised into Category 1, 2 or 3 assets as defined under the *Transferring petroleum infrastructure to landholders guideline* (DES, 2022) and may or may not be subject to the rehabilitation requirements in this plan. As per the guideline, areas classified as ESAs are excluded from being transferred to landholders.

When an area has met the final rehabilitation acceptance criteria, landholders will be requested to formally accept the return of land as part of the asset relinquishment process (Figure 1: Final Rehabilitation Process Flowchart).

1.10. Rehabilitation Schedule

In accordance with Question 10 of the DETSI Form – *Submission of a plan of operations (ESR/2018/4340)*, a schedule of rehabilitation activities detailing the type and areas of rehabilitation proposed to be undertaken within the plan period is detailed below in Table 5.

No development is proposed within the plan of operations period; thus, no rehabilitation is scheduled.

Table 5: Rehabilitation Schedule

Domain	Activity	Location	Area (ha)	Post-Operation Land Use	Timing (When)	Rehabilitation Activities
N/A	N/A	Mahalo	0 ha	N/A	N/A	N/A

1.11. Existing Rehabilitation

Details on existing rehabilitation activities are presented in Table 6 below.

Table 6. Existing rehabilitation

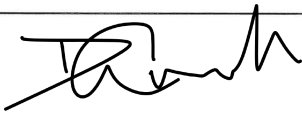
Domain	Summary of rehabilitation methodology	Rehabilitation works already undertaken
Camps, Buildings and Sewage Treatment Plants	Camps and Buildings • Removal of infrastructure. • If present, removal of concrete pad and foundations or capping material and re-profile (concrete footings and pads will be broken up to at least 1.5 metres below the surface for crushing for beneficial reuse). • Contaminated land assessment completed as required. • Rip to relieve compaction, where required. • Reinstate natural drainage lines and contours. • Reinstate topsoil. • Installation of erosion and sediment controls as required. • Application of seed and fertiliser or alternative soil stabilisation, as required. • Installation of fencing as required. • Declared pest plant control, where required.	The temporary camp has been rehabilitated.
Well Pads and Associated Infrastructure	Well pads • Removal of infrastructure. • Strip capping material and reprofile pad. • Rip to relieve compaction, where required. • Reinstate natural drainage lines and contours. • Reinstate topsoil. • Installation of erosion and sediment controls as required. • Contaminated land assessment, as required. • Application of seed and fertiliser or alternative soil stabilisation, as required. • Installation of fencing as required. • Declared pest plant control, where required.	Rehabilitation has commenced on well pads, including: • Removal of infrastructure. • Strip capping material and reprofile pad. • Rip to relieve compaction, where required. • Reinstate natural drainage lines and contours. • Reinstate topsoil. • Installation of erosion and sediment controls as required.

Appendix 7 – Compliance Statement

Question 11. Compliance Statement Certification

I do solemnly and sincerely declare that:

- I am the holder, or where the holder is a corporation, an executive officer of the holder of the environmental authority.
- To the best of my knowledge all information provided as part of this compliance statement, including attachments, addresses the relevant matters and is true, correct, complete, and does not contain misleading information.
- I have not knowingly failed to reveal any relevant information or document to the administering authority.
- The opinions expressed in this compliance statement, including attachments, are honestly and reasonably held.
- I understand that it is an offence under section 480 of the Environmental Protection Act 1994 to give to the administering authority a document containing information that I know, or ought reasonably to know, is false or misleading in a material particular.
- I understand that it is an offence under section 480A of the Environmental Protection Act 1994 to give to the administering authority a document containing information that I know, or ought reasonably to know, contains incomplete information in a material particular.
- I understand that all information supplied as part of this compliance statement, including attachments, can be disclosed publicly in accordance with the Right to Information Act 2009 and the Evidence Act 1977.

Environmental Authority Holder's Name Santos QNT Pty. Ltd.	
Signature 	
Position of Signatory Manager Environment - EA PNG	Date 20/1/26
Position of Signatory Comet Ridge Mahalo Pty. Ltd.	Joint Holders Signature 