



Works approval number W6724/2022/1

Works approval holder Golden Spur Resources Pty Ltd

ACN 161 329 933

Registered business address Ground Floor, 24 Outram Street
WEST PERTH WA 6005

DWER file number DER2022/000143

Duration 4/11/2022 to 3/11/2027

Date of issue 4/11/2022

Premises details Bellevue Gold Processing Plant
Bellevue Gold Project
Mining tenement M36/25

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	1,000,000 tonnes per annum

This works approval is granted to the works approval holder, subject to the attached conditions, on 4 November 2022, by:

**A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
4/11/2022	W6724/2022/1	Granting of works approval for construction of category 5 ore processing infrastructure– time limited operations restricted to crushing, screening and stockpiling of ore and storage of water in process and raw water dams

Interpretation

In this works approval:

- (a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:
 - (a) construct and/or install the infrastructure and/or equipment;
 - (b) in accordance with the corresponding design and construction / installation requirements; and
 - (c) at the corresponding infrastructure location; and
 - (d) within the corresponding timeframe,
 as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Water storage ponds: Process water pond Raw water pond Water services	a) HDPE lined such that permeability is $1 \times 10^{-9} \text{ ms}^{-1}$ b) Contained within Catchment Area 1 such that spills or overflow from ponds will be directed to the site drainage pond.	Refer to Schedule 1, Figure 2 – Process plant layout: Infrastructure area labelled: Water process pond, Raw water pond and Water services.
2.	Pipelines carrying process or saline water	a) Positioned within secondary containment sufficient to contain any spill for a period equal to the time between routine inspections: or b) Contained within Catchment Area 1 such that spills or overflow from pipelines will be directed to the site drainage pond.	Within footprint of the processing plant. Not depicted in Schedule 1.
3.	Crushing and screening circuit: Primary jaw crusher Secondary cone crusher Tertiary cone crusher Fine ore bin	a) Misting systems and sprinklers to be fitted on crushers b) Machinery fitted with mufflers and reversing air horns where practical. c) Contained within Catchment Area 1 such that stormwater runoff will be directed to the site drainage pond.	Refer to Schedule 1, Figure 2 Infrastructure area labelled: Crushing and Screening
4.	Grinding and classification circuit: Ball mill Gravity screen Gravity concentrators Cyclone	Contained within Catchment Area 1 such that spills or overflow of process water, ore slurry and stormwater runoff will be directed to the site drainage pond.	Refer to Schedule 1, Figure 2 Infrastructure area labelled: Milling

	Infrastructure	Design and construction / installation requirements	Infrastructure location
5.	<p>Leach and adsorption circuit:</p> <p>Trash screen</p> <p>Pre-leach thickener</p> <p>Leach tank</p> <p>Adsorption tanks</p> <p>Barren carbon screen</p> <p>Tailings screen</p> <p>Tailings thickener</p>	<p>a) All infrastructure is positioned within concrete bunding constructed with the following parameters:</p> <ul style="list-style-type: none"> i. minimum kerb height of 150mm; ii. provided with locally operated permanent sump pumps; iii. where required by dangerous goods safety legislation, sump pumps will be fitted with a level switch for remote starting; <p>where required under the <i>Dangerous Goods Safety Act 2004</i> and regulations the bunding will be sized such that it has 110% containment of the largest vessel and constructed to meet AS/NZS 4452 and AS 3780;</p> <p>b) Contained within Catchment Area 1 such that spills or overflow from process tanks and stormwater runoff is directed to the site drainage pond.</p>	<p>Refer to Schedule 1, Figure 2</p> <p>Infrastructure area labelled: CIL and Thickening</p>
6.	<p>Gold recovery and carbon regeneration:</p> <p>Intensive cyanidation and electrowinning</p>	<p>a) All infrastructure is positioned within concrete bunding constructed with the following parameters:</p> <ul style="list-style-type: none"> i. minimum kerb height of 150mm; ii. provided with locally operated permanent sump pumps; iii. where required under the <i>Dangerous Goods Safety Act 2004</i> and regulations, sump pumps will be fitted with a level switch for remote starting; iv. where required under the <i>Dangerous Goods Safety Act 2004</i> and regulations the bunding will be sized such that it has 110% containment of the largest vessel and constructed to meet AS/NZS 4452 and AS 3780; <p>b) Contained within Catchment Area 1 such that spills or overflow from process tanks and stormwater runoff is directed to the site drainage pond.</p> <p>c) Air emission points constructed as per the following parameters:</p> <p>d) The carbon regeneration kiln stack must be constructed to:</p> <ul style="list-style-type: none"> i. a height of 17.05m above ground level; ii. a diameter of 300mm; iii. be fitted with a stack monitoring port in accordance with AS 4323.1; 	<p>Refer to Schedule 1, Figure 2</p> <p>Infrastructure area labelled: Elution and Gold room</p> <p>Refer to Schedule 1, Figure 4</p> <p>Infrastructure area labelled:</p> <p>Carbon regeneration kiln stack</p> <p>Elution heater stack</p> <p>Furnace stack</p>

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		<ul style="list-style-type: none"> iv. be of sufficient diameter to accommodate apparatus used for the monitoring of off-gas; e) The effluent heater stack must have a height of 10.91m above ground level and a diameter of 400mm; f) The gold room furnace stack must have a height of 11.46m above ground level and a diameter of 500mm. 	
7.	Reagent storage	<ul style="list-style-type: none"> a) All infrastructure is positioned within concrete bunding constructed with the following parameters: <ul style="list-style-type: none"> i. minimum kerb height of 150mm; ii. provided with locally operated permanent sump pumps; iii. where required under the <i>Dangerous Goods Safety Act 2004</i> and regulations, sump pumps will be fitted with a level switch for remote starting; iv. where required under the <i>Dangerous Goods Safety Act 2004</i> and regulations the bunding will be sized such that it has 110% containment of the largest vessel and constructed to meet AS/NZS 4452 and AS 3780; b) Contained within Catchment Area 1 such that spills or overflow from process tanks and stormwater runoff will be directed to the site drainage pond. 	<p>Refer to Schedule 1, Figure 2</p> <p>Infrastructure area labelled: Reagents</p>
8.	Surface water drainage infrastructure and site drainage pond	<ul style="list-style-type: none"> a) Drainage must be constructed such that contaminated water or process material within the Catchment Area 1, and not contained by concrete bunds, reports to the site drainage pond; b) The site drainage pond must have a capacity of 11,850m³; c) Windrows must be constructed at the position and of the length indicated in Figure 3 of Schedule 1; d) Windrows must be no less than 0.5m in height; e) Trapezoidal diversion drains must be constructed at the position and of the length indicated in Figure 3 of Schedule 1; f) Surface water from Catchment Area 2 must be diverted from entering Catchment area 1. 	<p>Refer to Schedule 1, Figure 3 – Process plant site drainage:</p> <p>Items of infrastructure labelled:</p> <p>Windrow</p> <p>Trapezoidal diversion drain</p> <p>Site drainage pond</p> <p>CSP culverts</p>

Compliance reporting

2. The works approval holder must within 60 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:
 - (a) undertake an audit of their compliance with the requirements of condition 1; and
 - (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.
3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:
 - (a) certification by a mining process engineer with at least 10 years experience, a civil engineer with at least 10 years experience and mechanical engineer with at least 10 years experience that the gold processing plant or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
 - (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
 - (c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Time limited operations phase

Commencement and duration

4. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 5 (as applicable):
 - (a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 4 for that item of infrastructure; or
 - (b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 5(a).

Time limited operations requirements and emission limits

5. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment requirements during time limited operations

	Site infrastructure and equipment	Operational requirement	Infrastructure location
1.	Water storage ponds: Process water pond Raw water pond Water services	<ol style="list-style-type: none">a) The HDPE lining is maintained such that permeability is $1 \times 10^{-9} \text{ ms}^{-1}$b) Ponds and associated infrastructure are inspected at least once every 12 hours.	Refer to Schedule 1, Figure 2 – Process plant layout: Infrastructure area labelled: Water process pond, Raw water pond and Water services.

	Site infrastructure and equipment	Operational requirement	Infrastructure location
2.	Pipelines carrying process or saline water	<p>a) Only pipelines required for the operation of the crushing and screening circuit or recovery of water from the site drainage pond are to be operated.</p> <p>b) Pipelines in operation must be inspected at least once every 12 hours.</p>	Within footprint of the processing plant. Not depicted in Schedule 1.
3.	Crushing and screening circuit: Primary jaw crusher Secondary cone crusher Tertiary cone crusher Fine ore bin	<p>a) Misting systems and sprinklers fitted on crushers are maintained and operated as required to minimise dust.</p> <p>b) Mufflers and reversing air horns fitted on machinery are maintained.</p>	Refer to Schedule 1, Figure 2 Infrastructure area labelled: Crushing and Screening
4.	Site drainage pond	<p>a) Maintained such that it retains a capacity of greater than a 72 hour 1 in 5-year rainfall event.</p> <p>b) Water will be removed from the site drainage pond following a rainfall event by pumping the water to the process water pond.</p>	Refer to Schedule 1, Figure 3 – Process plant site drainage

Compliance reporting

6. The works approval holder must submit to the CEO a report on the time limited operations within 60 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.
7. The works approval holder must ensure the report required by condition 6 includes the following:
 - (a) a summary of the time limited operations, including timeframes and amount of material processed;
 - (b) a summary of the environmental performance of all infrastructure as constructed or installed (as applicable);
 - (c) a review of performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and
 - (d) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

8. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
 - (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.
9. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:
 - (a) the works conducted in accordance with condition 1;
 - (b) any maintenance of infrastructure that is performed in the course of complying with condition 5; and
 - (c) complaints received under condition 8.
10. The books specified under condition 9 must:
 - (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - (c) be retained by the works approval holder for the duration of the works approval; and
 - (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 3 have the meanings defined.

Table 3: Definitions

Term	Definition
AS 4323.1	means the Australian standard: <i>Stationary source emissions: Method 1: Selection of sampling positions and measurement of velocity in stacks.</i>
AS/NZS 4452	means the Australian standard: <i>The storage and handling of toxic substances</i>
AS 3780	means the Australian standard: <i>The Storage and Handling of Corrosive Substances</i>
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V Division 3 of the EP Act.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map Figure 1 in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.

Term	Definition
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

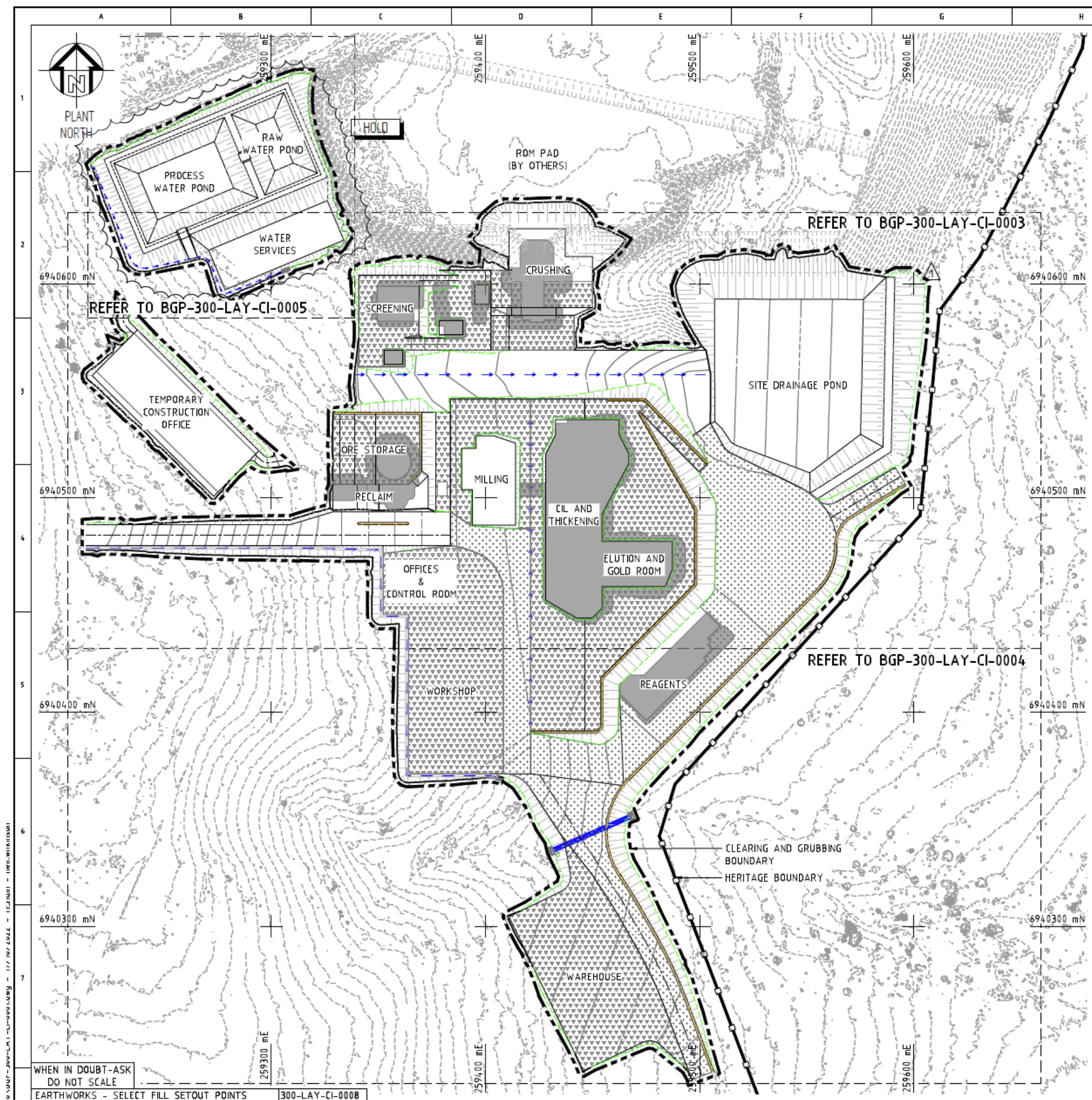
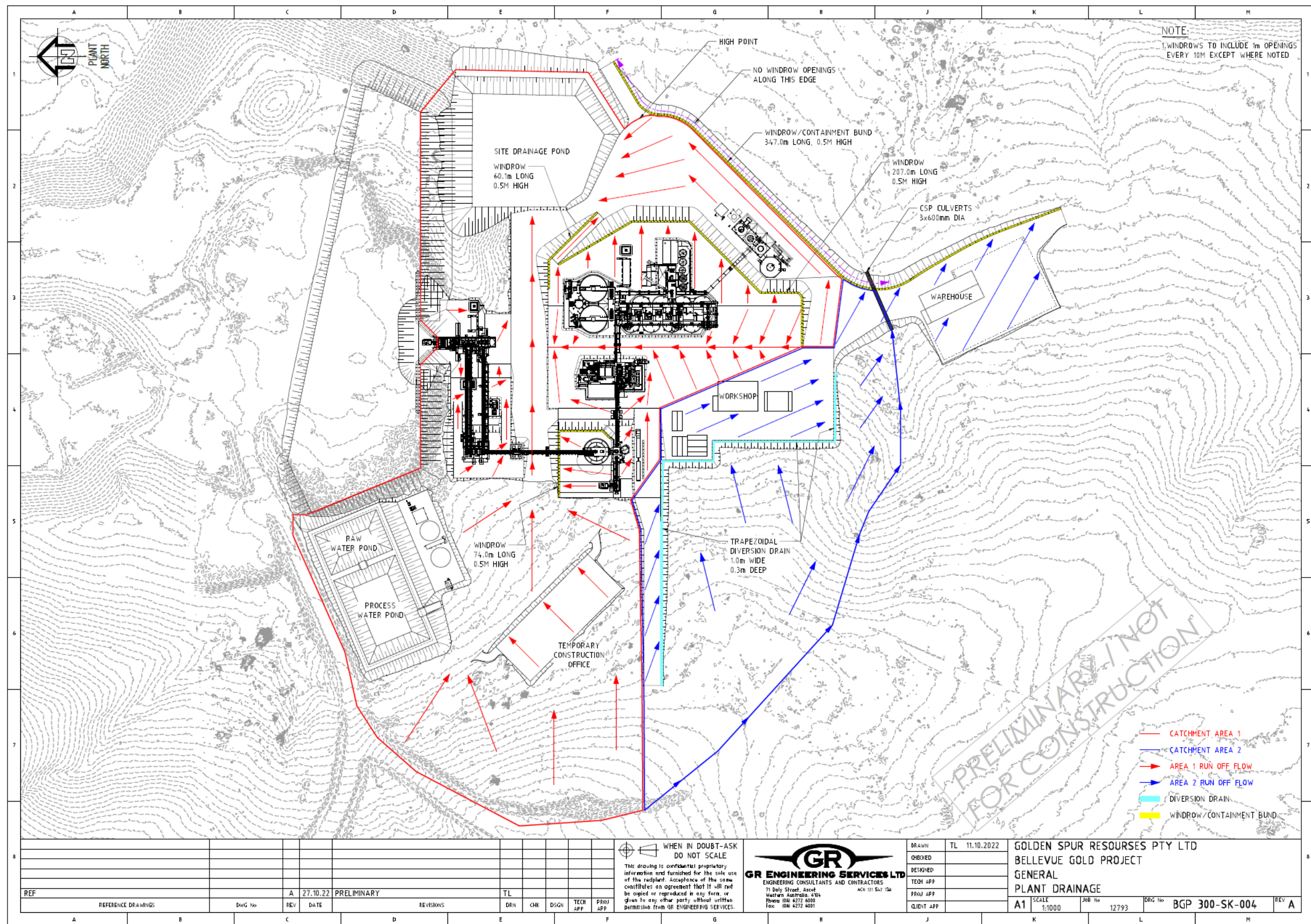


Figure 2: Process plant layout



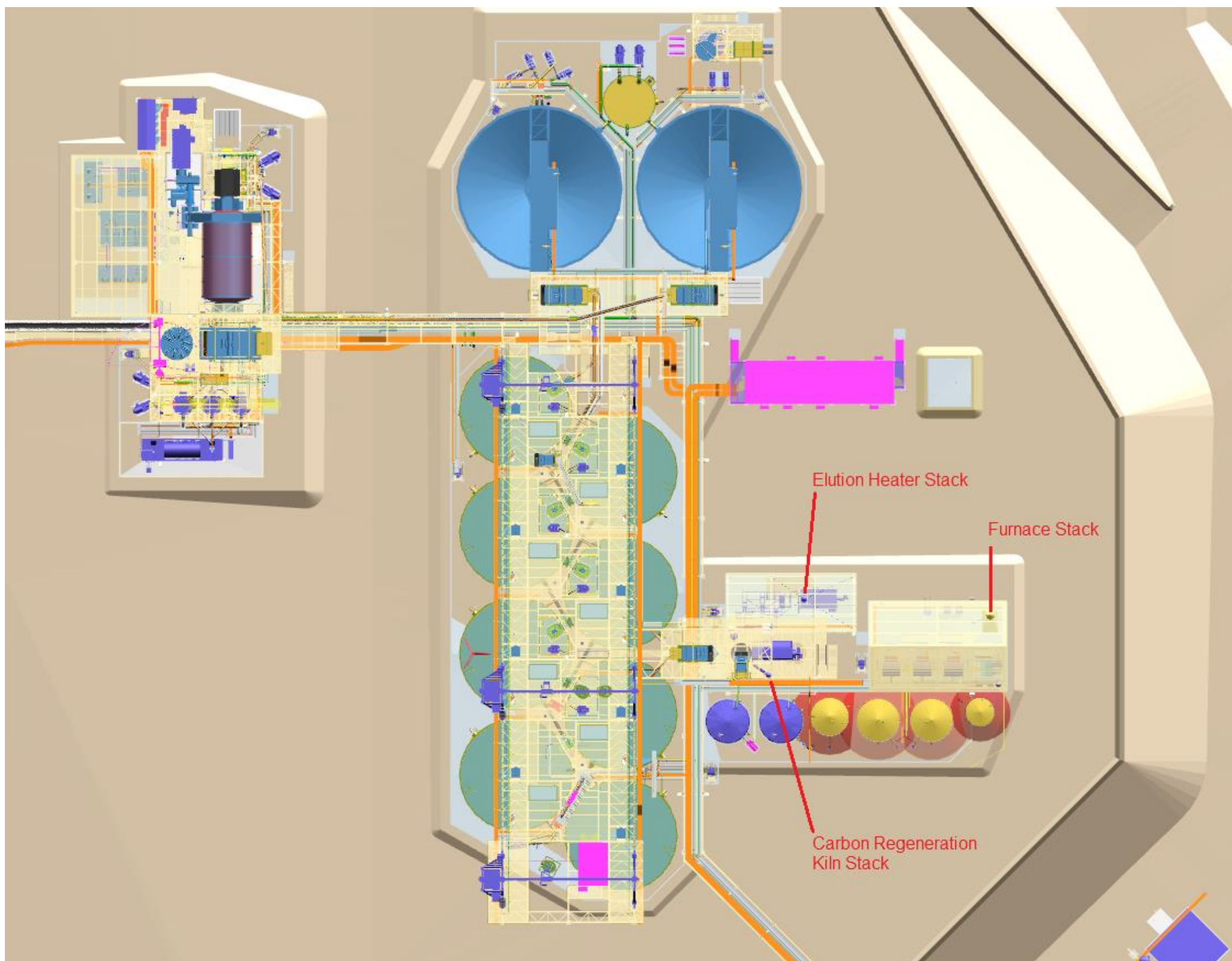


Figure 4: Position of stacks for point source air emissions