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Published on: 6 October 2011

Statement No. 875

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED  
(PURSUANT TO THE PROVISIONS OF THE  
ENVIRONMENTAL PROTECTION ACT 1986)**

**AMMONIUM NITRATE PRODUCTION EXPANSION  
PROJECT: PHASE 2, KWINANA  
TOWN OF KWINANA**

**Proposal:** CSBP Limited proposes to expand its Kwinana Ammonium Nitrate Production Facility located within the CSBP Kwinana Industrial Complex approximately 40 kilometres south of Perth by incorporating additional components into the existing facility and re-engineering (debottlenecking) some existing components in order to increase ammonium nitrate production capacity from 520,000 tonnes per annum to 936,000 tonnes per annum. The proposal is further documented in Schedule 1 of this statement.

**Proponent:** CSBP Limited

**Proponent Address:** PO Box 345, KWINANA WA 6966.

**Assessment Number:** 1834

**Previous Assessment Number:** 1537

**Report of the Environmental Protection Authority:** 1407

**Previous Report of the Environmental Protection Authority:** 1182

**Previous Statement Number:** 689 (Published on 21 September 2005)

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

## **1 Proposal Implementation**

- 1-1 The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

## **2 Proponent Nomination and Contact Details**

- 2-1 The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.
- 2-2 The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority (CEO) of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

## **3 Time Limit of Authorisation**

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

## **4 Compliance Reporting**

- 4-1 The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the CEO.
- 4-2 The proponent shall submit to the CEO the compliance assessment plan required by condition 4-1 at least six months prior to the first compliance report required by condition 4-6, or prior to implementation, whichever is sooner.

The compliance assessment plan shall indicate:

1. the frequency of compliance reporting;
2. the approach and timing of compliance assessments;
3. the retention of compliance assessments;
4. the method of reporting of potential non-compliances and corrective actions taken;
5. the table of contents of compliance assessment reports; and

6. public availability of compliance assessment reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
- 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the CEO.
- 4-5 The proponent shall advise the CEO of any potential non-compliance within seven days of that non-compliance being known.
- 4-6 The proponent shall submit to the CEO the first compliance assessment report fifteen months from the date of issue of this Statement addressing the twelve month period from the date of issue of this Statement and then annually from the date of submission of the first compliance report.

The compliance assessment report shall:

1. be endorsed by the proponent's Managing Director or a person delegated to sign on the Managing Director's behalf;
2. include a statement as to whether the proponent has complied with the conditions;
3. identify all potential non-compliances and describe corrective and preventative actions taken;
4. be made publicly available in accordance with the approved compliance assessment plan; and
5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

## **5 Greenhouse gas abatement**

- 5-1 The proponent shall install, commission, and operate secondary nitrous oxide (N<sub>2</sub>O) abatement technology in the existing Nitric Acid Plants 1 and 2 prior to the commencement of debottlenecking procedures in these two plants.
- 5-2 The proponent shall provide the CEO with documentation which confirms the practical completion of the installation and commissioning of secondary N<sub>2</sub>O abatement technology in the existing Nitric Acid Plants 1 and 2 within six months following the completion of the installation and commissioning of secondary N<sub>2</sub>O abatement technology in the existing Nitric Acid Plants 1 and 2.

- 5-3 The proponent shall implement a Greenhouse Gas Abatement Program prior to the commencement of operation of the expanded project. The Program shall:
1. demonstrate that the expansion project is designed and operated in a manner which minimises greenhouse gas emissions as far as practicable;
  2. demonstrate that maximising energy efficiency and opportunities for future energy recovery have been given due consideration in the design of the proposed expansion project;
  3. ensure that the “greenhouse gas” intensity (measured in tonnes of CO<sub>2</sub>-e produced per tonne of product produced) is equivalent to, or better than, benchmarked best practice for equivalent plants; and
  4. achieve continuous improvement in “greenhouse gas” intensity through the periodic review, and if practicable, adoption of advances in technology and process management.
- 5-4 Following the implementation of the Greenhouse Gas Abatement Program, the proponent shall review each calendar year and submit an assessment to the CEO on the performance of the proposal against the requirements of condition 5-3 by 31 March of each year.
- 5-5 The proponent shall make the Greenhouse Gas Abatement Program required by condition 5-3 publicly available in a manner approved by the CEO.
- 5-6 Conditions 5-3, 5-4 and 5-5 continue to have effect and condition the implementation of the proposal until such time as it is determined by the Minister for Environment that they are non-complementary to the Commonwealth’s greenhouse gas reduction legislation applicable to the proposal.

## **6 Decommissioning**

- 6-1 At least six months prior to the anticipated date of closure, the proponent shall submit a Final Decommissioning Plan designed to ensure that the site is suitable for future land uses, for approval of the CEO. The Final Decommissioning Plan shall set out procedures and measures for:
1. removal or, if agreed in writing by the appropriate regulatory authority, retention of plant and infrastructure agreed in consultation with relevant stakeholders;
  2. rehabilitation of all disturbed areas to a standard suitable for the new land use(s) as agreed pursuant to the consultation referred to in condition 6-1(1); and

3. identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.
- 6-2 The proponent shall implement the Final Decommissioning Plan required by condition 6-1 from the date of closure until such time as the Minister for Environment determines, on advice of the CEO, that the proponent's decommissioning responsibilities have been fulfilled.
- 6-3 The proponent shall make the Final Decommissioning Plan required by condition 6-1 publicly available in a manner approved by the CEO.

#### **Notes**

1. Where a condition states "on advice of the Office of the Environmental Protection Authority", the Office of the Environmental Protection Authority will provide that advice to the proponent.
2. The Minister for Environment will determine any dispute between the proponent and the Office of the Environmental Protection Authority over the fulfilment of the requirements of the conditions.
3. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.

**HON BILL MARMION MLA  
MINISTER FOR ENVIRONMENT; WATER**

## Schedule 1

### The Proposal (Assessment No. 1834)

CSBP Limited proposes to expand its Kwinana Ammonium Nitrate Production Facility (ANPF) by incorporating additional components into the existing facility and re-engineering (debottlenecking) some existing components in order to increase ammonium nitrate production capacity from 520,000 tonnes per annum (tpa) to 936,000 tpa.

The ANPF is located within the CSBP Kwinana Industrial Complex (KIC), approximately 40 kilometres (km) south of Perth (Figure 1). The CSBP KIC covers an area of approximately 138 hectares (ha) within the Kwinana Industrial Area (KIA). The proposal encompasses an area of approximately 1 ha within the CSBP KIC (Figure 2). A site plan of the CSBP KIC is shown in Figure 3.

The proposal requires the following changes to be made to the existing ANPF:

1. Debottlenecking of the existing nitric acid ammonium nitrate plants by 20% and construction of an additional nitric acid ammonium nitrate plant, which will then be debottlenecked by 20%, which would result in a total nitric acid production capacity of 720,000 tpa and a total ammonium nitrate solution production capacity of 936,000 tpa.
2. Debottlenecking of the 2008 prilling plant by 100% to double output.
3. Construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).
4. Construction of an additional 305 cubic metre ammonium nitrate solution tank.
5. Construction of a new auxiliary boiler.
6. Construction of additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).
7. Upgrade of the existing ammonium nitrate solid and solution despatch facilities.
8. Upgrade of existing utilities and supporting infrastructure and construction of new utilities and supporting infrastructure to support the expansion.

The construction of the third nitric acid ammonium nitrate plant is planned to be completed before debottlenecking activities are undertaken on the existing nitric acid ammonium nitrate plants. Debottlenecking of the nitric acid ammonium nitrate plants would be undertaken as required to meet increased demand for product. There would be no increase in ammonia production or storage capacity on site.

The main characteristics of the proposal are summarised in Table 1 below. A detailed description of the proposal is provided in Chapter 1 - Section 5 of the Public Environmental Review document (Strategen & Parsons Brinckerhoff, 2010).

**Table 1: Summary of key proposal characteristics**

Element	Description
<b>General</b>	
CSBP KIC site area	Approximately 138 ha.
Proposal area	Approximately 1 ha within CSBP KIC site boundary.
Project life	20 - 30 years.
Plant operating hours	24 hours/day operation, 365 days per year, except for maintenance shutdowns.
<b>Plant components</b>	
Nitric acid plants	Increase from two plants to three plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N <sub>2</sub> O) abatement technology.
Nitric acid storage tanks	Increase in storage capacity from approximately 2,000 tonnes to 5,500 tonnes via construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).
Ammonium nitrate solution plants	Increase from two plants to three plants.
Ammonium nitrate (90% solution) storage tanks	Increase from approximately 305 m <sup>3</sup> to 610 m <sup>3</sup> total capacity.
Ammonium nitrate (70 - 90% solution) storage tank	Approximately 730 m <sup>3</sup> capacity (No change).
2008 prilling plant	Debottlenecked.
Ammonium nitrate bag packaging facility	No change to existing facility.
Ammonium nitrate solids storage facility	Construction of an additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).
New auxiliary boiler	
<b>Production</b>	
Total nitric acid production	Increase from approximately 400,000 tpa to 720,000 tpa.
Total ammonium nitrate solution production	Increase from approximately 520,000 tpa to 936,000 tpa.
Total prilled ammonium nitrate production	Increase from approximately 420,000 tpa to 780,000 tpa.
Net power generation	Increase from approximately 4 MW to 6 MW.
<b>Inputs</b>	
Water	Additional quantity of approximately 520 ML/yr above current usage of about 3,325 ML/yr consisting of about 400 ML/yr sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.  Additional quantity of approximately 1,500 to 1,900 ML/yr above current usage of about 3,325 ML/yr if sufficient water cannot be obtained from the KWRP and it has to be sourced from the superficial and sub-artesian aquifers, the WPC Industrial Water Source, and scheme water.
<b>Outputs</b>	
Oxides of nitrogen (NO <sub>x</sub> )	Increase from approximately 269 tpa to 569 tpa.
Ammonium nitrate particulates as PM <sub>2.5</sub>	Increase from approximately 12 tpa to 20 tpa.
Ammonia (NH <sub>3</sub> )	Increase from approximately 12 tpa to 18 tpa.
Greenhouse gas emissions	Decrease from approximately 925,688 tonnes of CO <sub>2</sub> -e per year to approximately 264,000 tonnes of CO <sub>2</sub> -e per year for Scenario 3 in the Public Environmental Review document.
Liquid waste	Increase from approximately 2 ML/day to 2.4 ML/day discharged via the Sepia Depression Ocean Outlet Landline (SDOOL).

**Abbreviations**

CO <sub>2</sub> -e	carbon dioxide equivalent	MW	megawatts (10 <sup>6</sup> watts)
ha	hectares	PER	Public Environmental Review
m <sup>3</sup>	cubic metres	PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter of less than 2.5 micrometres
ML/day	megalitres per day	tpa	tonnes per annum
ML/yr	megalitres per year		

**References**

1. Strategen & Parsons Brinckerhoff (2010). *CSBP Kwinana: Ammonium Nitrate Production Expansion Project: Phase 2 Public Environmental Review*. Prepared by Strategen & Parsons Brinckerhoff for CSBP Limited. November 2010.

**Figures (attached):**

Figure 1: Regional location (Source: Figure 1.1 from Strategen & Parsons Brinckerhoff, 2010).

Figure 2: Site location (Source: Figure 1.2 from Strategen & Parsons Brinckerhoff, 2010).

Figure 3: CSBP Limited Kwinana Industrial Complex plant layout (Source: Figure 1.4 from Strategen & Parsons Brinckerhoff, 2010).



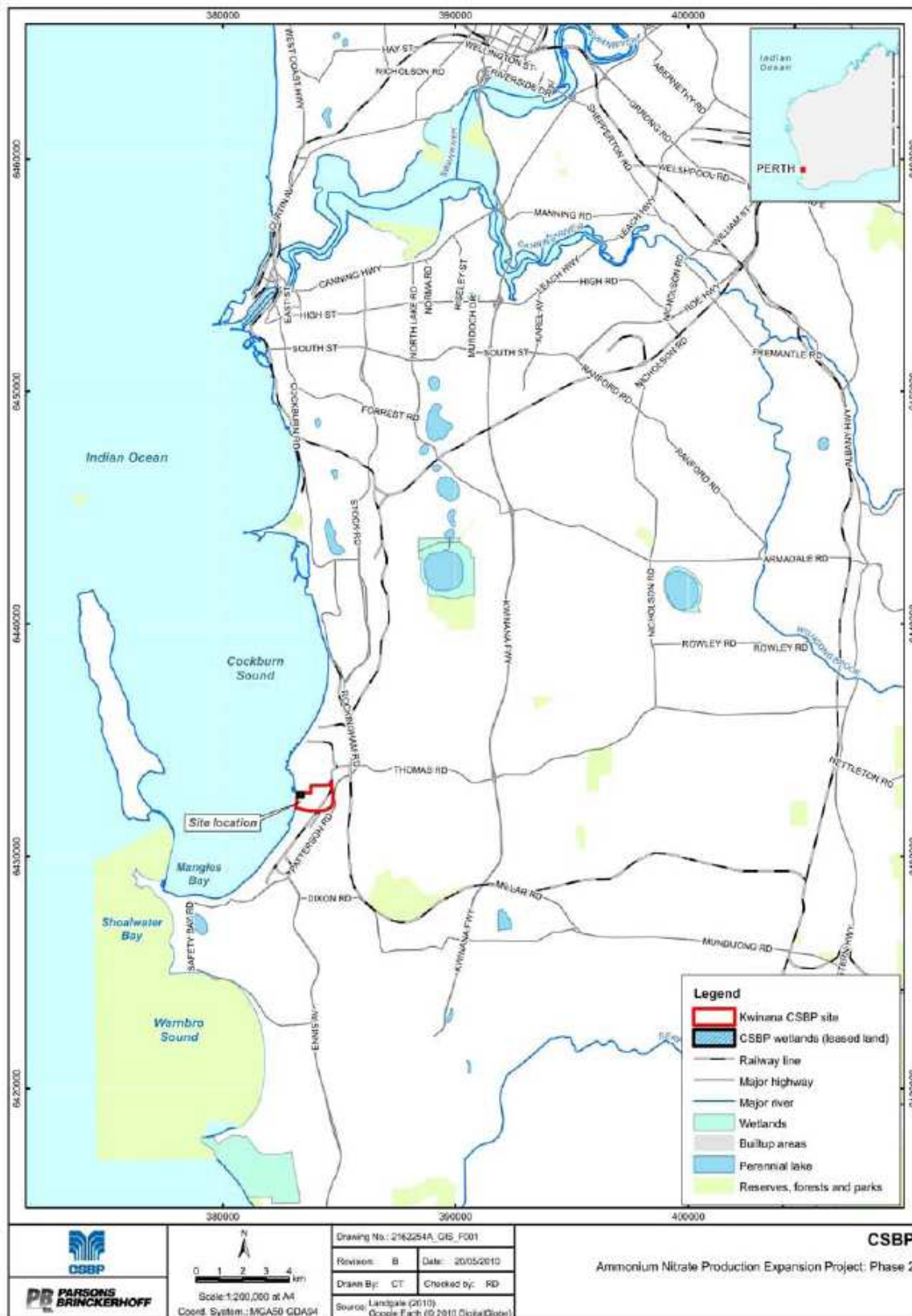


Figure 1: Regional location



**Figure 2: Site location**



## Attachment 1 to Ministerial Statement 875

### Change to proposal under s45C of the *Environmental Protection Act 1986*

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**Proposal:** Ammonium Nitrate Expansion Project: Phase 2

**Proponent:** CSBP Limited

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**Change:** Removal of “Greenhouse gas emissions”.

#### **The Proposal (Assessment No. 1834)**

CSBP Limited proposes to expand its Kwinana Ammonium Nitrate Production Facility (ANPF) by incorporating additional components into the existing facility and re-engineering (debottlenecking) some existing components in order to increase ammonium nitrate production capacity from 520,000 tonnes per annum (tpa) to 936,000 tpa.

The ANPF is located within the CSBP Kwinana Industrial Complex (KIC), approximately 40 kilometres (km) south of Perth (Figure 1). The CSBP KIC covers an area of approximately 138 hectares (ha) within the Kwinana Industrial Area (KIA). The proposal encompasses an area of approximately 1 ha within the CSBP KIC (Figure 2). A site plan of the CSBP KIC is shown in Figure 3.

The proposal requires the following changes to be made to the existing ANPF:

1. Debottlenecking of the existing nitric acid ammonium nitrate plants by 20% and construction of an additional nitric acid ammonium nitrate plant, which will then be debottlenecked by 20%, which would result in a total nitric acid production capacity of 720,000 tpa and a total ammonium nitrate solution production capacity of 936,000 tpa.
2. Debottlenecking of the 2008 prilling plant by 100% to double output.
3. Construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).
4. Construction of an additional 305 cubic metre ammonium nitrate solution tank.
5. Construction of a new auxiliary boiler.
6. Construction of additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).
7. Upgrade of the existing ammonium nitrate solid and solution despatch facilities.

8. Upgrade of existing utilities and supporting infrastructure and construction of new utilities and supporting infrastructure to support the expansion.

The construction of the third nitric acid ammonium nitrate plant is planned to be completed before debottlenecking activities are undertaken on the existing nitric acid ammonium nitrate plants. Debottlenecking of the nitric acid ammonium nitrate plants would be undertaken as required to meet increased demand for product. There would be no increase in ammonia production or storage capacity on site.

The main characteristics of the proposal are summarised in Table 1, below. A detailed description of the proposal is provided in Chapter 1 - Section 5 of the Public Environmental Review document (Strategen & Parsons Brinckerhoff, 2010).

**Key Characteristics Table:** This table replaces Table 1 in Schedule 1

Element	Description	Description of approved change to proposal
<b>General</b>		
CSBP KIC site area	Approximately 138 ha.	Approximately 138 ha.
Proposal area	Approximately 1 ha within CSBP KIC site boundary.	Approximately 1 ha within CSBP KIC site boundary.
Project life	20 - 30 years.	20 - 30 years.
Plant operating hours	24 hours/day operation, 365 days per year, except for maintenance shutdowns.	24 hours/day operation, 365 days per year, except for maintenance shutdowns.
<b>Plant components</b>		
Nitric acid plants	Increase from two plants to three plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N <sub>2</sub> O) abatement technology.	Increase from two plants to three plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N <sub>2</sub> O) abatement technology.
Nitric acid storage tanks	Increase in storage capacity from approximately 2,000 tonnes to 5,500 tonnes via construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).	Increase in storage capacity from approximately 2,000 tonnes to 5,500 tonnes via construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).
Ammonium nitrate solution plants	Increase from two plants to three plants.	Increase from two plants to three plants.
Ammonium nitrate (90% solution) storage tanks	Increase from approximately 305 m <sup>3</sup> to 610 m <sup>3</sup> total capacity.	Increase from approximately 305 m <sup>3</sup> to 610 m <sup>3</sup> total capacity.
Ammonium nitrate (70 - 90% solution) storage tank	Approximately 730 m <sup>3</sup> capacity (No change).	Approximately 730 m <sup>3</sup> capacity (No change).
2008 prilling plant	Debottlenecked.	Debottlenecked.
Ammonium nitrate bag packaging facility	No change to existing facility.	No change to existing facility.
Ammonium nitrate solids storage facility	Construction of an additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).	Construction of an additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).
New auxiliary boiler		
<b>Production</b>		
Total nitric acid production	Increase from approximately 400,000 tpa to 720,000 tpa.	Increase from approximately 400,000 tpa to 720,000 tpa.
Total ammonium nitrate solution production	Increase from approximately 520,000 tpa to 936,000 tpa.	Increase from approximately 520,000 tpa to 936,000 tpa.
Total prilled ammonium nitrate production	Increase from approximately 420,000 tpa to 780,000 tpa.	Increase from approximately 420,000 tpa to 780,000 tpa.
Net power generation	Increase from approximately 4 MW to 6 MW.	Increase from approximately 4 MW to 6 MW.
<b>Inputs</b>		
Water	Additional quantity of approximately 520 ML/yr above current usage of about 3,325 ML/yr consisting of about 400 ML/yr sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.  Additional quantity of approximately 1,500 to 1,900 ML/yr above current usage of about 3,325 ML/yr if sufficient water cannot be obtained from	Additional quantity of approximately 520 ML/yr above current usage of about 3,325 ML/yr consisting of about 400 ML/yr sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.  Additional quantity of approximately 1,500 to 1,900 ML/yr above current usage of about 3,325 ML/yr if sufficient water cannot be obtained from the

	the KWRP and it has to be sourced from the superficial and sub-artesian aquifers, the WPC Industrial Water Source, and scheme water.	KWRP and it has to be sourced from the superficial and sub-artesian aquifers, the WPC Industrial Water Source, and scheme water.
<b>Outputs</b>		
Oxides of nitrogen (NO <sub>x</sub> )	Increase from approximately 269 tpa to 569 tpa.	Increase from approximately 269 tpa to 569 tpa.
Ammonium nitrate particulates as PM <sub>2.5</sub>	Increase from approximately 12 tpa to 20 tpa.	Increase from approximately 12 tpa to 20 tpa.
Ammonia (NH <sub>3</sub> )	Increase from approximately 12 tpa to 18 tpa.	Increase from approximately 12 tpa to 18 tpa.
Greenhouse gas emissions	Decrease from approximately 925,688 tonnes of CO <sub>2</sub> -e per year to approximately 264,000 tonnes of CO <sub>2</sub> -e per year for Scenario 3 in the Public Environmental Review document.	<b>Removed as inconsistent with the Clean Energy Act 2011</b>
Liquid waste	Increase from approximately 2 ML/day to 2.4 ML/day discharged via the Sepia Depression Ocean Outlet Landline (SDOOL).	Increase from approximately 2 ML/day to 2.4 ML/day discharged via the Sepia Depression Ocean Outlet Landline (SDOOL).

Note: Text in **bold** in the Proposal and Key Characteristics Table, indicates changes to the proposal.

#### Abbreviations

CO <sub>2</sub> -e	carbon dioxide equivalent	MW	megawatts (10 <sup>6</sup> watts)
ha	hectares	PER	Public Environmental Review
m <sup>3</sup>	cubic metres	PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter of less than 2.5 micrometres
ML/day	megalitres per day	tpa	tonnes per annum
ML/yr	megalitres per year		

#### References

1. Strategen & Parsons Brinckerhoff. *CSBP Kwinana: Ammonium Nitrate Production Expansion Project: Phase 2 Public Environmental Review*. November 2010.

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**HON BILL MARMION MLA  
MINISTER FOR ENVIRONMENT; WATER**

Approval date: 3 January 2013

## Attachment 2 to Ministerial Statement 875

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

This Attachment replaces Schedule 1 and all previous Attachments of Ministerial Statement 875

**Proposal: Ammonium Nitrate Expansion Project: Phase 2**

**Proponent: CSBP Limited**

#### Changes:

- Increase the boundary of Project Area;
- Addition of an ammonium nitrate emulsion plant and associated infrastructure;
- Remove elements that are not a significant key characteristic relevant to the environment or are regulated under Part V of *the Environmental Protection Act 1986*; and
- Update Figures and reference coordinates.

**Table 1: Summary of the Proposal**

Proposal Title	Ammonium Nitrate Expansion Project: Phase 2
Short Description	<p>The proposal is for the expansion of the Kwinana Ammonium Nitrate Production Facility (ANPF) to include a third nitric acid ammonium nitrate plant by incorporating additional components into the existing facility and re-engineering (debottlenecking) some existing components (including the 2008 prilling plant) in order to increase ammonium nitrate production capacity from 520,000 tonnes per annum (tpa) to 936,000 tpa.</p> <p>The proposal is located within the 138 ha CSBP Kwinana Industrial Complex (KIC), approximately 40 kilometres south of Perth (Figure 1). The project area for the proposal is shown on Figure 2.</p> <p>The proposal includes the construction and operation of the Kwinana Ammonium Nitrate Production Facility including:</p> <ul style="list-style-type: none"><li>• Three nitric acid plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N<sub>2</sub>O) abatement technology;</li><li>• Nitric acid storage tanks;</li><li>• Three ammonium nitrate solution plants;</li><li>• Ammonium nitrate solution storage;</li><li>• An ammonium nitrate bag packaging facility;</li><li>• A solid ammonium nitrate storage facility (within the Dangerous Goods Licence approved limit);</li><li>• A new auxiliary boiler;</li><li>• A debottlenecked prilling plant;</li><li>• An ammonium nitrate emulsion plant and associated infrastructure to manufacture up to 100,000 tonnes per annum of ammonium nitrate emulsion (ANE); and</li><li>• Upgraded utilities and supporting infrastructure to support the expansion.</li></ul>

**Table 2: Location and authorised extent of physical and operational elements**

<b>Element</b>	<b>Previously Authorised Extent</b>	<b>Authorised Extent</b>
<i>General</i>		
CSBP KIC site area	Approximately 138 ha.	See “Proposal area”.
Proposal area	Approximately 1 ha within CSBP KIC site boundary.	<b>Up to 2.3 ha</b> within the CSBP KIC site boundary.
Project life	20 - 30 years.	<b>Removed as not a significant key characteristic relevant to the environment.</b>
Plant operating hours	24 hours/day continuous operation, except for maintenance shutdowns.	<b>Removed as not a significant key characteristic relevant to the environment.</b>
<i>Plant components</i>		
Nitric acid plants	Increase from two plants to three plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N <sub>2</sub> O) abatement technology.	<b>Removed as included in the description of the proposal.</b>
Nitric acid storage tanks	Increase in storage capacity from approximately 2,000 tonnes to 5,500 tonnes via construction of an additional 3,500 tonne 100% nitric acid solution tank (to store 63% nitric acid solution).	<b>Up to 5,500 tonnes storage capacity.</b>
Ammonium nitrate solution plants	Increase from two plants to three plants.	<b>Removed as included in the description of the proposal.</b>
Ammonium nitrate (90% solution) storage tanks	Increase from approximately 305 m <sup>3</sup> to 610 m <sup>3</sup> total capacity.	<b>Up to 610 m<sup>3</sup> storage capacity.</b>
Ammonium nitrate (70 - 90% solution) storage tank	Approximately 730 m <sup>3</sup> capacity (No change).	<b>Up to 730 m<sup>3</sup> storage capacity.</b>
2008 prilling plant	Debottlenecked.	<b>Removed as included in the description of the proposal.</b>
Ammonium nitrate bag packaging facility	No change to existing facility.	<b>Removed as included in the description of the proposal.</b>
Ammonium nitrate solids storage facility	Construction of an additional solid ammonium nitrate storage facility (within Dangerous Goods Licence approved limit).	<b>Removed as included in the description of the proposal.</b>
New auxiliary boiler		<b>Removed as managed under Part V of the <i>Environmental Protection Act 1986</i>.</b>
<i>Production</i>		
Total nitric acid production	Increase from approximately 400,000 tpa to 720,000 tpa.	<b>Up to 720,000 tpa.</b>



<b>Element</b>	<b>Previously Authorised Extent</b>	<b>Authorised Extent</b>
Total ammonium nitrate solution production	Increase from approximately 520,000 tpa to 936,000 tpa.	<b>Up to 936,000 tpa.</b>
Total prilled ammonium nitrate production	Increase from approximately 420,000 tpa to 780,000 tpa.	<b>Up to 780,000 tpa.</b>
Net power generation	Increase from approximately 4 MW to 6 MW.	<b>Up to 6 MW.</b>
Ammonium Nitrate Solution storage for Emulsion	<b>Not previously defined.</b>	<b>Up to 80 tonnes storage capacity.</b>
Final Ammonium Nitrate Emulsion storage	<b>Not previously defined.</b>	<b>Up to 370 tonnes storage capacity.</b>
Total ammonium nitrate emulsion production	<b>Not previously defined.</b>	<b>Up to 100,000 tpa.</b>
<i>Inputs</i>		
Water	<p>Additional quantity of approximately 520 ML/yr above current usage of about 3,325 ML/yr consisting of about 400 ML/yr sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.</p> <p>Additional quantity of approximately 1,500 to 1,900 ML/yr above current usage of about 3,325 ML/yr if sufficient water cannot be obtained from the KWRP and it has to be sourced from the superficial and sub-artesian aquifers, the WPC Industrial Water Source, and scheme water.</p>	<b>Up to 5.25 GL/annum of water</b> sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.
<i>Outputs</i>		
Oxides of nitrogen (NO <sub>x</sub> )	Increase from approximately 269 tpa to 569 tpa.	<b>Up to 569 tpa.</b>
Ammonium nitrate particulates as PM <sub>2.5</sub>	Increase from approximately 12 tpa to 20 tpa.	<b>Up to 20 tpa.</b>
Ammonia (NH <sub>3</sub> )	Increase from approximately 12 tpa to 18 tpa.	<b>Up to 18 tpa.</b>

Element	Previously Authorised Extent	Authorised Extent
Liquid waste	Increase from approximately 2 ML/day to 2.4 ML/day discharged via the Sepia Depression Ocean Outlet Landline (SDOOL).	<b>Up to 2.5 ML/day</b> discharged via the Sepia Depression Ocean Outlet Landline (SDOOL).

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Abbreviations**

ha	hectares	GL/annum	gigalitres per annum
m <sup>3</sup>	cubic metres	tpa	tonnes per annum
ML/day	megalitres per day	PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter of less than 2.5 micrometres
MW	megawatts (10 <sup>6</sup> Watts)		

**Figures – All previous Figures are replaced by the following:**

**Figure 1** Site Location

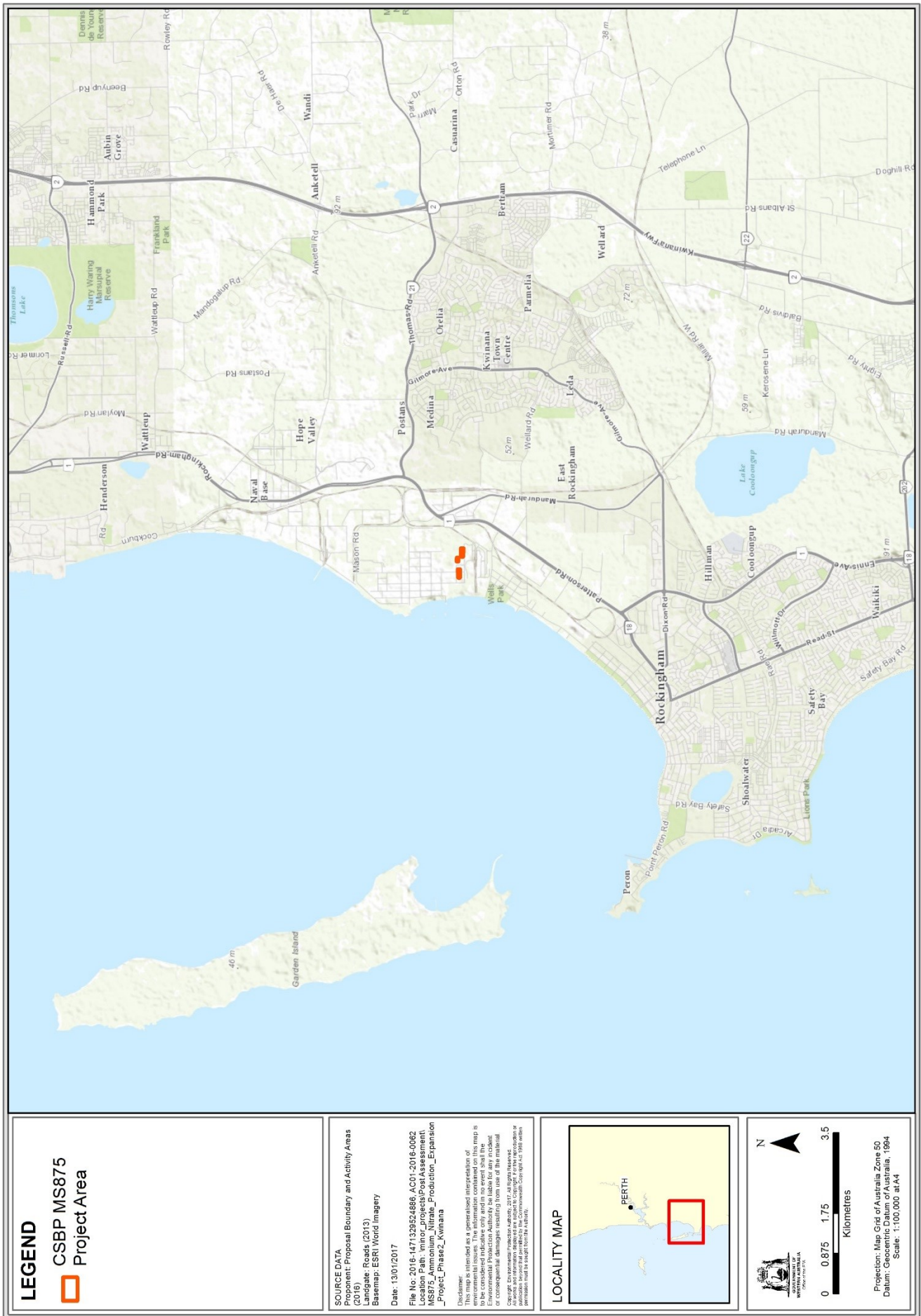
**Figure 2** Statement 875 Project Area

Coordinates defining the Project Area are held by the Office of the Environmental Protection Authority (Reference Number 2017 – 1484728360712).

[Signed 24 January 2017]

**Dr Tom Hatton**  
 CHAIRMAN  
 Environmental Protection Authority  
 under delegated authority

Approval date: \_\_\_\_\_



**LEGEND**

CSBP MS875  
Project Area



**SOURCE DATA**  
 Consultant: Proposal Boundary and Activity Areas (2016)  
 Landgate: Roads (2013)  
 Basemap: ESRI World Imagery

Date: 13/01/2017  
 File No.: 2016-1471329524886\_ACO1-2018-0062  
 Location Path: \minor\_projects\Post Assessment\MS875\_Ammonium\_Nitrate\_Production\_Expansion\Project\_Phase2\_Kwinana

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**LOCALITY MAP**



0 0.875 1.75 3.5  
Kilometres

Projection: Map Grid of Australia Zone 50  
 Datum: Geocentric Datum of Australia, 1994  
 Scale: 1:100,000 at A4

Figure 1 Site Location



Figure 2 Statement 875 Project Area

## Attachment 3 to Ministerial Statement 875

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

This Attachment replaces Attachment 2 of Ministerial Statement 875

**Proposal:** Ammonium Nitrate Expansion Project: Phase 2

**Proponent:** CSBP Limited

#### Changes:

- Removal of the authorised extent of up to 2.5 ML/day of liquid waste output from the Key Characteristics Table.

**Table 1: Summary of the Proposal**

Proposal Title	Ammonium Nitrate Expansion Project: Phase 2
Short Description	<p>The proposal is for the expansion of the Kwinana Ammonium Nitrate Production Facility (ANPF) to include a third nitric acid ammonium nitrate plant by incorporating additional components into the existing facility and reengineering (debottlenecking) some existing components (including the 2008 prilling plant) in order to increase ammonium nitrate production capacity from 520,000 tonnes per annum (tpa) to 936,000 tpa.</p> <p>The proposal is located within the 138 ha CSBP Kwinana Industrial Complex (KIC), approximately 40 kilometres south of Perth (Figure 1). The project area for the proposal is shown on Figure 2.</p> <p>The proposal includes the construction and operation of the Kwinana Ammonium Nitrate Production Facility including:</p> <ul style="list-style-type: none"> <li>• three nitric acid plants. The new third nitric acid plant will be designed and constructed to incorporate tertiary nitrous oxide (N<sub>2</sub>O) abatement technology;</li> <li>• nitric acid storage tanks;</li> <li>• three ammonium nitrate solution plants;</li> <li>• ammonium nitrate solution storage;</li> <li>• an ammonium nitrate bag packaging facility;</li> <li>• a solid ammonium nitrate storage facility (within the Dangerous Goods Licence approved limit);</li> <li>• a new auxiliary boiler;</li> <li>• a debottlenecked prilling plant;</li> <li>• an ammonium nitrate emulsion plant and associated infrastructure to manufacture up to 100,000 tonnes per annum of ammonium nitrate emulsion (ANE); and</li> <li>• upgraded utilities and supporting infrastructure to support the expansion.</li> </ul>

**Table 2: Location and authorised extent of physical and operational elements**

Element	Previously Authorised Extent	Authorised Extent
<i>General</i>		
Proposal Area	Up to 2.3 ha within the CSBP Kwinana Industrial Complex site boundary.	Up to 2.3 ha within the CSBP Kwinana Industrial Complex site boundary.

<b>Element</b>	<b>Previously Authorised Extent</b>	<b>Authorised Extent</b>
<i>Plant components</i>		
Nitric acid storage tanks	Up to 5,500 tonnes storage capacity.	Up to 5,500 tonnes storage capacity.
Ammonium nitrate (90% solution) storage tanks	Up to 610 m <sup>3</sup> storage capacity.	Up to 610 m <sup>3</sup> storage capacity.
Ammonium nitrate (70 – 90% solution) storage tank	Up to 730 m <sup>3</sup> storage capacity.	Up to 730 m <sup>3</sup> storage capacity.
<i>Production</i>		
Total nitric acid production	Up to 720,000 tpa.	Up to 720,000 tpa.
Total ammonium nitrate solution production	Up to 936,000 tpa.	Up to 936,000 tpa.
Total prilled ammonium nitrate production	Up to 780,000 tpa.	Up to 780,000 tpa.
Net power generation	Up to 6 MW.	Up to 6 MW.
Ammonium nitrate solution storage for emulsion	Up to 80 tonnes storage capacity.	Up to 80 tonnes storage capacity.
Final ammonium nitrate emulsion storage	Up to 370 tonnes storage capacity.	Up to 370 tonnes storage capacity.
Total ammonium nitrate emulsion production	Up to 100,000 tpa.	Up to 100,000 tpa.
<i>Inputs</i>		
Water	Up to 5.25 GL/annum of water sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.	Up to 5.25 GL/annum of water sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.
<i>Outputs</i>		
Oxides of nitrogen (NO <sub>x</sub> )	Up to 569 tpa.	Up to 569 tpa.
Ammonium nitrate particulates as PM <sub>2.5</sub>	Up to 20 tpa.	Up to 20 tpa.
Ammonium (NH <sub>3</sub> )	Up to 18 tpa.	Up to 18 tpa.
Liquid Waste	Up to 2.5 ML/day discharged via the Sepia Depression Ocean Outlet Landline (SDOOL)	<b>Removed as managed under Part V of the <i>Environmental Protection Act 1986</i>, in conjunction with ministerial approval of the Sepia Depression Ocean Outlet Landline (SDOOL).</b>

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations**

Abbreviation	Term
ha	hectare
GL/annum	gigalitre per annum
m <sup>3</sup>	cubic metres
ML/day	megalitres per day
MW	megawatts (10 <sup>6</sup> Watts)
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter of less than 2.5 micrometres.
tpa	tonnes per annum

**Figures – All previous Figures in Attachment 2 still apply to the proposal.**

Coordinates defining the Project Area are held by the Department of Water and Environmental Regulation (Reference Number 2017 – 1484728360712).

[Signed 13 August 2018]

Hon Stephen Dawson MLC  
**MINISTER FOR ENVIRONMENT**

Approval date: \_\_\_\_\_

## Attachment 4 to Ministerial Statement 875

Amendment to proposal approved under section 45C of the  
*Environmental Protection Act 1986*


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This Attachment replaces Schedule 1 and all previous attachments of Ministerial Statement 875

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**Proposal: Ammonium Nitrate Expansion Project: Phase 2**

**Proponent: CSBP Limited**

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**Changes:**

- Debottlenecking at three existing nitric acid and ammonium nitrate (NAAN) plants in order to increase production capacity of nitric acid and ammonium nitrate solution.
- Installation of tertiary N<sub>2</sub>O abatement technology at NAAN plants 1 and 2 prior to debottlenecking.
- Increasing ammonium nitrate emulsion production capacity.
- Increasing storage at the ammonium nitrate emulsion plant.
- Construction of additional nitric acid and ammonium nitrate solutions storage and load-out infrastructure and acceptance infrastructure for third-party ammonium nitrate solutions.
- Removal of storage capacity from the proposal elements.
- Increasing water inputs.
- Reduced NO<sub>x</sub> emissions.
- Clarification that power generation extent applies to each generators.

**Table 1: Summary of the proposal**

Proposal title	Ammonium Nitrate Expansion Project: Phase 2
Short description	<p>The proposal is for the expansion of the Kwinana Ammonium Nitrate Production Facility (ANPF) by incorporating additional components into the existing facility and reengineering (debottlenecking) some existing components.</p> <p>The proposal includes the construction and operation of the Kwinana Ammonium Nitrate Production Facility including:</p> <ul style="list-style-type: none"> <li>• Three nitric acid plants incorporating tertiary nitrous oxide (N<sub>2</sub>O) abatement technology;</li> <li>• Nitric acid storage tanks;</li> <li>• Three ammonium nitrate solution plants;</li> <li>• Ammonium nitrate solution storage;</li> <li>• An ammonium nitrate bag packaging facility;</li> <li>• A solid ammonium nitrate storage facility;</li> <li>• A debottlenecked prilling plant;</li> </ul>



	<ul style="list-style-type: none"> <li>• An ammonium nitrate emulsion plant and associated infrastructure; and</li> <li>• Upgraded utilities and supporting infrastructure to support the expansion.</li> </ul>
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**Table 2: Location and authorised extent of physical and operational elements**

<b>Element</b>	<b>Previously Authorised Extent</b>	<b>Authorised Extent</b>
<i>General</i>		
Proposal Area	Up to 2.3 ha within the CSBP Kwinana Industrial Complex site boundary.	Up to <b>8.17 ha</b> within CSBP Kwinana Industrial Complex site boundary <b>as shown in Figure 1.</b>
<i>Plant components</i>		
Nitric acid storage tanks	Up to 5,500 tonnes storage capacity.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004.</i></b>
Ammonium nitrate (90% solution) storage tanks	Up to 610 m <sup>3</sup> storage capacity.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004.</i></b>
Ammonium nitrate (70 – 90% solution) storage tank	Up to 730 m <sup>3</sup> storage capacity.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004.</i></b>
<i>Production</i>		
Total nitric acid production	Up to 720,000 tpa.	Up to <b>876,000 tpa.</b>
Total ammonium nitrate solution production	Up to 936,000 tpa.	Up to <b>1,138,800 tpa.</b>
Total prilled ammonium nitrate production	Up to 780,000 tpa.	Up to 780,000 tpa.
Net power generation	Up to 6 MW.	Up to 6 MW <b>per generator (3 generators)</b>
Ammonium nitrate solution storage for emulsion	Up to 80 tonnes storage capacity.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004.</i></b>
Final ammonium nitrate emulsion storage	Up to 370 tonnes storage capacity.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004.</i></b>

Element	Previously Authorised Extent	Authorised Extent
Total ammonium nitrate emulsion production	Up to 100,000 tpa.	<b>Removed as managed under the <i>Dangerous Goods Safety Act 2004</i>.</b>
<i>Inputs</i>		
Water	Up to 5.25 GL/annum of water sourced from the Kwinana Water Reclamation Plant (KWRP) and the remainder sourced from the superficial aquifer, the Western Power Corporation (WPC) Industrial Water Source, and scheme water.	Up to <b>5.95 GL/annum of water sourced from the Kwinana Water Reclamation Plant (KWRP) and/or an additional water treatment plant, with the remainder sourced from the superficial aquifer and scheme water.</b>
<i>Outputs</i>		
Oxides of nitrogen (NOx)	Up to 569 tpa.	Up to <b>240 tpa.</b>
Ammonium nitrate particulates as PM <sub>2.5</sub>	Up to 20 tpa.	Up to 20 tpa.
Ammonium (NH <sub>3</sub> )	Up to 18 tpa.	Up to 18 tpa.

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations**

Abbreviation	Term
Ha	hectare
GL/annum	gigalitre
M <sup>3</sup>	cubic metres
ML/day	megalitres per day
MW	megawatts (10 <sup>6</sup> Watts)
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter of less than 2.5 micrometres.
tpa	tonnes per annum

**Figures (attached)**

Figure 1: Statement 875 Project Area

Coordinates defining the Project Area are held by the Department of Water and Environmental Regulation in Environment Online as document ID: DWER-801164602-323571

[Signed 7 March 2024]

**Prof Matthew Tonts**  
CHAIR  
Environmental Protection Authority  
under delegated authority



Figure 1 Statement 875 Project Area