

Licence # 6163

Full licence available at:

<http://www.epa.nsw.gov.au/prpoeoapp/ViewPOELicence.aspx?DOCID=38801&SYSUID=1&LICID=6163>

Tomago Aluminium Company Limited

638 Tomago Road, Tomago NSW 2322

Monitoring Period: Dec-15

Date Published: 14/01/2016

| EPA Monitoring Point | Descriptor | Gaseous Fluoride, mg/m3, monthly average | Gaseous Fluoride, mg/m3, minimum daily value | Gaseous Fluoride, mg/m3, maximum daily value | Monitoring frequency requirement | Total Fluoride, kg F / t Al | Monitoring frequency requirement | Sulfur Dioxide, mg/m3 | Monitoring frequency requirement |
|----------------------|--------------------------|--|--|--|----------------------------------|-----------------------------|----------------------------------|-----------------------|----------------------------------|
| 1 | Line 1 West Stack | 0.6 | 0.3 | 3.7 | continuous | 0.07 | twice per quarter | NMR | Quarterly |
| 2 | Line 1 East Stack | 0.5 | 0.4 | 0.7 | continuous | 0.06 | twice per quarter | NMR | Quarterly |
| 3 | Line 2 West Stack | 0.4 | 0.3 | 0.5 | continuous | NMR | twice per quarter | NMR | Quarterly |
| 4 | Line 2 East Stack | 0.6 | 0.4 | 0.7 | continuous | 0.07 | twice per quarter | NMR | Quarterly |
| 5 | Anode Plant 1 Stack | 0.8 | 0.3 | 1.5 | continuous | NMR | twice per quarter | NMR | Yearly |
| 6 | Anode Plants 2&3 Stack | 0.6 | 0.3 | 1.9 | continuous | 0.005 | twice per quarter | 399 | Yearly |
| 7 | Line 3 West Stack | 0.5 | 0.3 | 0.7 | continuous | NMR | twice per quarter | NMR | Quarterly |
| 8 | Line 3 East Stack | 0.4 | 0.3 | 0.6 | continuous | 0.05 | twice per quarter | 173 | Quarterly |
| 9 | Line 1&2 Extension Stack | 0.3 | 0.2 | 0.4 | continuous | 0.04 | twice per quarter | 161 | Quarterly |

Notes:

There are no applicable licence limits for the above monitoring points

mg/m3 = milligrams per cubic metre

kg F / t Al = kilograms fluoride per tonne aluminium produced

NMR = No monitoring requirement

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| EPA Monitoring Point | Descriptor | Total Fluoride, kg F / t Al | Monitoring frequency requirement | Licence Limit | Exceedance? |
|----------------------|--|-----------------------------|----------------------------------|---------------|-------------|
| 10 | Potroom A Roof Vent | 0.38 | Monthly | NA | |
| 11 | Potroom B Roof Vent | 0.28 | Monthly | NA | |
| 12 | Potroom C Roof Vent | 0.36 | Monthly | NA | |
| 13 | Potroom D Roof Vent | 0.35 | Monthly | NA | |
| 14 | Potroom E Roof Vent | 0.40 | Monthly | NA | |
| 15 | Potroom F Roof Vent | 0.30 | Monthly | NA | |
| 30 | Total smelter emissions sum of point sources | 0.41 | Monthly | 0.8 | No |

Notes:

NA = No Applicable Licence Limit

kg F / t Al = kilograms fluoride per tonne aluminium produced

Comments on exceedances: _____

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EPA Monitoring Point 16

The point of controlled discharge to the Hunter River from the stormwater pond

| Pollutant | Units of measure | Monitoring frequency requirement | No. of times measured during month | Mean value | Maximum value | Licence Limit | Exceedance? |
|------------------------|------------------|----------------------------------|------------------------------------|------------|---------------|---------------|-------------|
| Conductivity | uS/cm | Daily during discharge | 1 | 220 | | NA | |
| Fluoride | mg/L | Daily during discharge | 1 | 34 | 34 | 40 | No |
| pH | pH | Daily during discharge | 1 | 6.8 | | NA | |
| Total Suspended Solids | mg/L | Daily during discharge | 1 | 10 | 10 | 50 | No |
| Volume | kL/day | Daily during discharge | 1 | 2194 | 2194 | 4320** | No |

Notes:

uS/cm = microsiemens per centimetre

mg/L = milligrams per litre

NMR = No monitoring requirement

NA = No Applicable Licence Limit

kL/day = kilolitres per day

**This limit may be exceeded under wet weather conditions

Comments on exceedances: _____

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EPA Monitoring Point 17

Discharge to utilisation area

| Pollutant | Units of measure | Monitoring frequency requirement | No. of times measured during month | Mean value | Maximum value | Licence Limit | Exceedance? |
|------------------------|------------------|----------------------------------|------------------------------------|------------|---------------|---------------|-------------|
| BOD | mg/L | Quarterly | NMR | NMR | | NA | |
| Fluoride | mg/L | Weekly | 4 | 4.0 | | NA | |
| pH | pH | Weekly | 4 | 6.3 | | NA | |
| Total Suspended Solids | mg/L | Quarterly | NMR | NMR | | NA | |
| Volume | mm/week | weekly | 5 | 14 | 17 | 30 | No |

Notes:

NA = No Applicable Licence Limit

mm/week = millimetres per week

NMR = No monitoring requirement

BOD = Biochemical Oxygen Demand

Comments on exceedances: _____

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EPA Monitoring Point 35

Stormwater overflow

| Pollutant | Units of measure | Monitoring frequency requirement | No. of days of overflow during month | Mean value |
|-----------|------------------|----------------------------------|--------------------------------------|------------|
| Fluoride | mg/L | Each overflow event | 10 | 37 |
| pH | pH | Each overflow event | | 6.5 |
| Volume | kL/day | Continuous during discharge | | 4066 |

Notes:

There are no applicable licence limits for the above monitoring points

mg/L = milligrams per litre

kL/day = kilolitres per day