

## NSW Health Approved Form 3 Report

**Location:** CLINGCAST METALS  
**Client:** CLINGCAST METALS PTY LTD  
**Client No:** N14779  
**Contract:** NC10691

**System name:** BAC  
**Month:** July 2021

### Site and Contact Details

Provide the name, phone numbers (business hours, after hours and mobile numbers) email address and postal address for each of the contact person listed below.

Record	Details	
Site Address	98 BATH ROAD, KIRRAWEE, NSW, 2322	
Cooling water system details (number of cooling towers and unique identification number for each cooling tower)	<b>Number of cooling towers</b>	<b>UID</b>
	1	● SSC-HLT832583-0026-01
Local government authority (where this system is located)	Sutherland Shire Council	
Occupier name and contact details (the person or entity who owns the system)	Name: Paul L Clingan Email Address: Paul@clingcast.com.au Phone: 02 9521 1382 Phone Type: BUS DIR Address: PO Box 531, NSW, 1499	
<b>Duly qualified person</b>		
Duly qualified person name (the person who attended the site during this month)	LYNDSEY CHAN	
Employer and contact details (the person or entity who operates or maintain the system)	HydroChem Address: 12/71A Milperra Road, Revesby NSW 2212 Tel: (02) 9792 1444 Email: nsw@hydrochem.com.au	

### Period covered by this monthly report

Record	Details
Period being reported (calendar month)	July
Period covered by current RMP (up to 5 year period)	20 Jul 2021 TO 30 Jun 2022
Date(s) of inspection(s) carried out this month	● 07 Jul 2021

### Microbial testing- in accordance with section 3.2 and 3.3 of AS/NZS 3666.3:2011

Record	Details	Date(s) sampled
Legionella Count	0	07 Jul 2021
HCC Count	1000	07 Jul 2021

### Chemical analysis- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details	Date(s) tested
Conductivity/TDS	1000 (Min= 500.0 Max= 1500.0)	07 Jul 2021
pH	7.9 (Min= 7.0 Max= 8.2)	07 Jul 2021
TAH	0 (Min= 0.4 Max= 1.0)	07 Jul 2021
Other criteria necessary for effective management of corrosion, scaling, fouling and microbial growth	Inhibitor	200 (Min= 200.0 Max= 400.0 )
	Chloride	390 (Min= 200.0 Max= 500.0)
	M Alkalinity	220 (Min= 20.0 Max= 300.0 )
Temperature (measured at the return line)	14.5	07 Jul 2021

### Inspection and other checks- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details	Date(s) reviewed
Physical condition of the system	Fair	07 Jul 2021
Operation of the bleed control system	operational	07 Jul 2021
Operation of the make-up water system (including chemical dosing and control system)	operational	07 Jul 2021
Cycles of concentration	NA	NA

Corrosion rate (involving monthly visual assessment and/or quarterly laboratory testing, as required by RMP)	no signs				07 Jul 2021	
	Coupon Type	Date In	Weight In	Date Out	Weight Out	Corrosion Rate (mpy)
	NA	NA	NA	NA	NA	NA

### Inspection and other checks- in accordance with section 3.4 and 3.5 of AS/NZS 3666.3:2011

Record	Details	Date(s) reviewed
Adequacy of scale and corrosion inhibition	200 (Min= 200.0 Max= 400.0 )	07 Jul 2021
Cleanliness of wet surfaces (visibly free from accumulation of sludge, foam, slime, rust, scale, dirt and larger mineral or organic deposits)	mildly dirty	07 Jul 2021
Date of most recent cleaning (in accordance with the RMP)		06 Aug 2021
Changes in the local environment (for example, local building demolition or construction, which should be recorded if noted during inspection)	no changes	07 Jul 2021

### Remedial actions taken or recommended- in accordance with section 3.7 of AS/NZS 3666.3:2011

Note any remedial actions taken or recommended by the duly qualified person during this month. Action may be taken in response to a significant change in the local environment, work practice or equipment. The duly qualified person can use this step to prompt the occupier to engage a competent person to take a preventative or corrective actions, corrective actions, and potentially undertake a new risk assessment and RMP.

List of remedial action taken or recommended this month.		
no action taken		Action Taken

Attach documents and photographs to support the monthly report after this page.

The Regulation require certain result and records to be kept on the premises and made available immediately, or kept electronically and made available within 4 hours of request. These include operating and maintenance manuals; RMPs; results of microbial and testing and chemical analysis; and maintenance records (in accordance with section 3, 7 of AS/NZS 3666.3:2011).

### Details of person completing the form

Name of person completing the form	Contact details (phone number, email, postal address)
LYNDSEY CHAN	(02) 9792 1444

Signature of person completing the form	Date
LYNDSEY CHAN	17 Aug 2021

Role of person completing the form	Employer (name of company or organization)
Services Engineer	HydroChem

**CLINGCAST METALS PTY LTD****CLINGCAST METALS****July 2021**

This report summarises all Legionella and HCC results for **CLINGCAST METALS** for **July 2021**

**1. BAC**

## Legionella Species Report:

Date	Service Call ID	Result (CFU/mL)	Acceptable
07 Jul 2021	2107-2482	0	YES

**1. BAC**

## Heterotrophic Colony Count Report:

Date	Service Call ID	Result (CFU/mL)	Acceptable
07 Jul 2021	2107-2482	1000	YES

## 2. WHAT DO MY RESULTS MEAN?

### Legionella Species Report:

A zero result indicates less than 10 organisms per 1 millilitre (AS/NZS 3896). Results were estimated after an incubation period of 7 days at 36C+/-1C. Sampled using procedures certified to ISO 9001 (Reg No 6465). Analyses carried out using procedures to AS3896. All samples were tested by a NATA Registered Laboratory

### Heterotrophic Colony Count Report:

HCC Result is useful in assessing the efficacy of biocidal treatment and state of microbiological control of organisms in the system. It is not a measurement of Legionella and does not reflect the physical condition of the cooling water.

Results are reported as colony forming units in 1 millilitre of sample. Samples incubated for 48 hours at 36C+/-1C as per AS4276.3.1/2. All samples were tested by a NATA Registered Laboratory

### Contact Us

At HydroChem we're recognised as the clear market leader in Australia's water treatment industry. Our mission is simple: to bring world-class water treatment products and services to clients across Australia. Please contact your account manager for any queries.

# Water Treatment Service Report



**Location:** CLINGCAST METALS  
**Client:** CLINGCAST METALS PTY LTD  
**Attention:** PAUL\* **Technician:** LYNDSEY CHAN  
**Date:** 7/07/2021 **Service Call:** 2107-2482  
**Client No:** N14779 **Issued By:** SYDN  
**Contract:** NC10691 **Contact No:** 02 9792 1444

## Risk Assessment

If risk identified, refer to JSEA for details (✓ = pass, X = fail)

- |                                                                        |                                                                             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Safe access (falls, slips, trips)? | <input checked="" type="checkbox"/> Acceptable noise level with use of PPE? |
| <input checked="" type="checkbox"/> Safe manual handling?              | <input checked="" type="checkbox"/> Shutdown procedure?                     |
| <input checked="" type="checkbox"/> Adequate lighting?                 | <input checked="" type="checkbox"/> Other (refer JSA)                       |

## Results

Analysis			
	BAC		
pH	7	7.9	8.2
M Alkalinity (CaCO <sub>3</sub> )	20	220	300
Chloride (CaCO <sub>3</sub> )	200	390	500
TDS (CaCO <sub>3</sub> )	500	1000	1500
Inhibitor	Hydro 260		
	200	200	400
Free Available Halogen	Hydro 360		
	0.4	0	1
<b>Inhibitor adjustments</b>			
Adjustment (L / Kg)	Hydro 260		
Adjustment (L / Kg)	Hydro		
<b>Inhibitor pump</b>			
Start% / Added / Finish%	Hydro 260		
	95		95
Operational	<input checked="" type="checkbox"/>		
<b>Biocide adjustments</b>			
Adjustment (L / Kg)	Hydro 360		
	.5		
Adjustment (L / Kg)	Hydro 256		
<b>Biocide pump 1</b>			
Start% / Added / Finish%	Hydro 360		
	80		80
Operational	<input checked="" type="checkbox"/>		
<b>Biocide pump 2</b>			
Start% / Added / Finish%	Hydro 256		
	85		85
Operational	<input checked="" type="checkbox"/>		
<b>Other tests</b>			
Cycles	10		
ORP set point (mV)			
<b>Water Meter Reading</b>			
Make up Reading			
Bleed Reading			
<b>Cooling tower inspection</b>			
Visible condition	Satisfactory.		

## How to interpret the results

All results in mg/L unless indicated otherwise

## Chemical analysis

Desired minimum → 7 7.7 9.5 ← Desired maximum

Actual result

## Dosing tank / pump

Product name → Hydro 464  
 Tank start level % → 75 6.2 100 ← Tank final level %  
 Amount added in litres → ☒ ← Pump operational

## Comments

CTS: Oxidising biocide residual was outside desired limits. All other residuals are satisfactory. Adjustment was made to correct levels. Online disinfection carried out.

## Site Signature

N/A