

## CERTIFICATE OF ANALYSIS

**Work Order** : **EW1904355**  
**Client** : **HANSON CONSTRUCTION MATERIALS PTY LTD**  
**Contact** : MR STEVE BUTCHER  
**Address** : BOOLLWARROO PDE  
 SHELLHARBOUR NSW, AUSTRALIA 2529  
  
**Telephone** : +61 02 4295 1355  
**Project** : Bass Point Water Monitoring  
**Order number** : ----  
**C-O-C number** : ----  
**Sampler** : ----  
**Site** : ----  
**Quote number** : WL/043/11 Bass Point Water Monitoring  
**No. of samples received** : 6  
**No. of samples analysed** : 6

**Page** : 1 of 4  
**Laboratory** : Environmental Division NSW South Coast  
**Contact** : Glenn Davies  
**Address** : 1/19 Ralph Black Dr, North Wollongong 2500  
 4/13 Geary Pl, North Nowra 2541  
 Australia NSW Australia  
**Telephone** : 02 42253125  
**Date Samples Received** : 15-Oct-2019 14:32  
**Date Analysis Commenced** : 15-Oct-2019  
**Issue Date** : 21-Oct-2019 08:42



Accreditation No. 825  
 Accredited for compliance with  
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Robert DaLio	Sampler	Laboratory - Wollongong, NSW



## General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting  
∅ = ALS is not NATA accredited for these tests.  
~ = Indicates an estimated value.

- Site BH 2 - Site found flooded at time of sampling.
- Site BH7, MW01 & MW06 - Site found destroyed at time of sampling.
- Sites Paddock NE- No Access at time of sampling
- Sampling and sample data supplied by ALS Wollongong.
- Sampling completed as per EN/67.11 Groundwater Sampling.
- Field tests completed on day of sampling/receipt.
- Sampling Completed as per EN/67.4 Lakes and Reservoirs



### Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH 1	BT702	BT703	BT1201	BT1202
Client sampling date / time				[15-Oct-2019]	15-Oct-2019 10:30	15-Oct-2019 11:00	[15-Oct-2019]	[15-Oct-2019]	
Compound	CAS Number	LOR	Unit	EW1904355-001	EW1904355-002	EW1904355-003	EW1904355-004	EW1904355-005	
				Result	Result	Result	Result	Result	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	2080	1710	----	----	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	----	19.8	18.7	----	----	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	destroyed	----	----	destroyed	no access	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	----	25.6	5.29	----	----	



**Analytical Results**

Sub-Matrix: <b>WATER</b> (Matrix: <b>WATER</b> )			Client sample ID	<b>Killalea Lagoon</b>	----	----	----	----
			Client sampling date / time	15-Oct-2019 11:40	----	----	----	----
Compound	CAS Number	LOR	Unit	<b>EW1904355-006</b>	-----	-----	-----	-----
				Result	----	----	----	----
<b>FWI-EN/002: Surface Water Sampling - Depth</b>								
Depth - Surface Water	----	0.01	m	<b>0.75</b>	----	----	----	----