



Environmental Division

CERTIFICATE OF ANALYSIS							
Work Order	EW1302330	Page	: 1 of 4				
Client		Laboratory	: Environmental Division NSW South Coast				
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Project	: Whytes Gully Stormwater Annual Overflow	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement				
Order number	: 3015425						
C-O-C number	:	Date Samples Received	: 13-AUG-2013				
Sampler	: Craig Wilson	Issue Date	: 23-AUG-2013				
Site	:						
		No. of samples received	: 1				
Quote number	: WL/001/11 Whytes Gully Stormwater	No. of samples analysed	: 1				

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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	NATA Accredited Laboratory 825	Signatories	electronically signed by the authorized signatories	indicated below Electronic signing has been			
NATA	Accredited for compliance with ISO/IEC 17025.	carried out in compliance with procedures specified in 21 CFR Part 11.					
		Signatories Position		Accreditation Category			
		Ankit Joshi	Inorganic Chemist	Sydney Inorganics			
		Celine Conceicao	Senior Spectroscopist	Sydney Inorganics			
		Glenn Davies	Environmental Services Representative	Laboratory - Wollongong			
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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.

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



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Clie	ent sample ID	Stormwater	 	
Client sampling date / time		13-AUG-2013 11:55	 	 		
Compound	CAS Number	LOR	Unit	EW1302330-001	 	
EA025: Suspended Solids						
Suspended Solids (SS)		5	mg/L	23	 	
ED037P: Alkalinity by PC Titrator						
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	 	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	8	 	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	563	 	
Total Alkalinity as CaCO3		1	mg/L	570	 	
ED041G: Sulfate (Turbidimetric) as SO4 2-	· by DA					
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	14	 	
ED045G: Chloride Discrete analyser						
Chloride	16887-00-6	1	mg/L	189	 	
ED093T: Total Major Cations						
Calcium	7440-70-2	1	mg/L	49	 	
Magnesium	7439-95-4	1	mg/L	36	 	
Sodium	7440-23-5	1	mg/L	187	 	
Potassium	7440-09-7	1	mg/L	50	 	
EG020F: Dissolved Metals by ICP-MS						
Iron	7439-89-6	0.05	mg/L	0.67	 	
EK040P: Fluoride by PC Titrator						
Fluoride	16984-48-8	0.1	mg/L	0.4	 	
EK055G: Ammonia as N by Discrete Analy	/ser					
Ammonia as N	7664-41-7	0.01	mg/L	41.7	 	
EK057G: Nitrite as N by Discrete Analyse	r					
Nitrite as N		0.01	mg/L	0.34	 	
EK058G: Nitrate as N by Discrete Analyse	er					
Nitrate as N	14797-55-8	0.01	mg/L	0.19	 	
EK059G: Nitrite plus Nitrate as N (NOx) b	y Discrete Anal	yser				
Nitrite + Nitrate as N		0.01	mg/L	0.53	 	
EN67 PK: Field Tests						
рН		0.1	pH Unit	8.4	 	
Electrical Conductivity (Non		1	µS/cm	1670	 	
Compensated)						
Dissolved Oxygen		0.01	mg/L	8.82	 	
Temperature		0.1	°C	15.3	 	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	VATER (Matrix: WATER) Client sample ID			Stormwater				
	Cli	ent samplii	ng date / time	13-AUG-2013 11:55				
Compound	CAS Number	LOR	Unit	EW1302330-001				
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon		1	mg/L	71				
EP035G: Total Phenol by Discrete Analyser								
Phenols (Total)		0.05	mg/L	<0.05				