GALINTEL
KEVIN ELKS
P. O. BOX 396
COFFS HARBOUR NSW 2450

BATCH NUMBER: 17/2358
No. of SAMPLES: 6
DATE COLLECTED: 06/11/17
DATE RECEIVED: 07/11/17
TIME RECEIVED: 11:40
DATE TESTING COMMENCED: 07/11/17

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
17/2358/1	POINT 1
17/2358/2	POINT 3
17/2358/3	POINT 4
17/2358/4	POINT 5
17/2358/5	POINT 6
17/2358/6	POINT 7

ANALYSIS	METHOD NO	UNITS	17/2358/1	17/2358/2	17/2358/3	17/2358/4
pH	APHA 4500-H+ B	pH unit	7.1	7.4	7.2	5.3
Conductivity	APHA 2510 B	µS/cm	247	107	115	34
Total Suspended Solids	APHA 2540 D	mg/L	19	7	5	15
Total Dissolved Solids	EL7B	mg/L	158	69	74	22
Total Hardness	EL9A	mg $CaCO_3$/ L	76	32	32	1
Alkalinity	APHA 2320 B	mg $CaCO_3$/ L	22	26	19	<2
Chloride	EL10A	mg/L	56	10	17	3.3
Sulfate	EL9A	mg/L	5.2	4.6	4.1	0.66
Calcium	EL9A	mg/L	28.4	11.5	11.3	0.25
Magnesium	EL9A	mg/L	1.2	0.83	0.99	0.11
Sodium	EL9A	mg/L	7.2	3.9	5.2	0.55
Potassium	EL9A	mg/L	3.5	2.4	1.5	0.90
Zinc - Total*	NT2_47	ug/L	7,200	1,100	1,600	450
Zinc - Filtered*	NT2_47	ug/L	7,000	1,000	1,700	460
Copper - Total*	NT2_47	ug/L	47	19	8	11
Copper - Filtered*	NT2_47	ug/L	13	13	5.6	8.9
Nickel-Total*	NT2_47	ug/L	7.6	2.3	2.2	<1
Nickel-Filtered*	NT2_47	ug/L	7.2	2.0	2.1	<1

ANALYSIS	METHOD NO	UNITS	17/2358/1	17/2358/2	17/2358/3	17/2358/4
Manganese - Total*	NT2_47	ug/L	280	21	57	6.9
Manganese - Filtered*	NT2_47	ug/L	280	17	56	5.2
Iron - Total*	NT2_47	mg/L	1,900	310	240	220
Iron - FIltered*	NT2_47	ug/L	<5	14	52	23
Lead - Total*	NT2_47	ug/L	25	5	16	8
Lead - Filtered*	NT2_47	ug/L	<1	<1	10	5.5
Cobalt -Total*	NT2_47	ug/L	<1	<1	<1	<1
Chromium - Trivalent*	NT2_47	ug/L	9.0	1.0	1.4	<1
Chromium - Hexavalent*	NW_D2	mg/L	0.002	0.011	<0.001	<0.001
Chromium - Total*	NT2_47	ug/L	11	12	1	<1
Ammonia Nitrogen	EL13F	mg/L	0.26	<0.05	0.05	0.12

ANALYSIS	METHOD NO	UNITS	17/2358/5	17/2358/6
pH	APHA 4500-H+ B	pH unit	4.4	4.5
Conductivity	APHA 2510 B	µS/cm	55	80
Total Suspended Solids	APHA 2540 D	mg/L	30	8
Total Dissolved Solids	EL7B	mg/L	35	51
Total Hardness	EL9A	mg $CaCO_3$/ L	1	3
Alkalinity	APHA 2320 B	mg $CaCO_3$/ L	<2	<2
Chloride	EL10A	mg/L	6.6	14
Sulfate	EL9A	mg/L	0.67	1.1
Calcium	EL9A	mg/L	0.25	0.40
Magnesium	EL9A	mg/L	0.13	0.51
Sodium	EL9A	mg/L	0.28	4.3
Potassium	EL9A	mg/L	0.66	0.82
Zinc - Total*	NT2_47	ug/L	2,200	2,100
Zinc - Filtered*	NT2_47	ug/L	2,200	2,300
Copper - Total*	NT2_47	ug/L	50	63
Copper - Filtered*	NT2_47	ug/L	46	43
Nickel-Total*	NT2_47	ug/L	6.6	7.0
Nickel-Filtered*	NT2_47	ug/L	6.4	7.1
Manganese - Total*	NT2_47	ug/L	21	340
Manganese - Filtered*	NT2_47	ug/L	15	350
Iron - Total*	NT2_47	mg/L	1,100	3,000
Iron - FIltered*	NT2_47	ug/L	180	31
Lead - Total*	NT2_47	ug/L	450	130
Lead - Filtered*	NT2_47	ug/L	440	120
Cobalt -Total*	NT2_47	ug/L	<1	<1
Chromium - Trivalent*	NT2_47	ug/L	8.4	<1
Chromium - Hexavalent*	NW_D2	mg/L	<0.001	<0.001
Chromium - Total*	NT2_47	ug/L	<1	<1
Ammonia Nitrogen	EL13F	mg/L	0.33	0.32

ANALYSIS	METHOD NO	UNITS	17/2358/1	17/2358/2	17/2358/3	17/2358/4
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	NGCMS_1121	ug/L	<25	<25	<25	<25
TRH C10-C14*	NGCMS_1112	ug/L	<25	<25	<25	<25
TRH C15-C28*	NGCMS_1112	ug/L	<100	<100	<100	<100
TRH C29-C36*	NGCMS_1112	ug/L	<100	<100	<100	<100
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	NGCMS_1121	ug/L	<25	<25	<25	<25
TRH C6- C10 less BTEX (F1)	NGCMS_1121	ug/L	<25	<25	<25	<25
TRH>C10-C16	NGCMS_1112	ug/L	<25	<25	<25	<25
TRH>C10 - C16 less Naph(F2)	NGCMS_1112	ug/L	<25	<25	<25	<25
TRH>C16-C34(F3)	NGCMS_1112	ug/L	<100	<100	<100	<100
TRH>C34-C40(F4)	NGCMS_1112	ug/L	<100	<100	<100	<100

ANALYSIS	METHOD NO	UNITS	17/2358/5	17/2358/6
TOTAL RECOVERABLE HYDROCARBONS				
TRH C6-C9*	NGCMS_1121	ug/L	<25	850
TRH C10-C14*	NGCMS_1112	ug/L	<25	390
TRH C15-C28*	NGCMS_1112	ug/L	<100	<100
TRH C29-C36*	NGCMS_1112	ug/L	<100	<100
TOTAL RECOVERABLE HYDROCARBON*				
TRH C6- C10	NGCMS_1121	ug/L	<25	850
TRH C6- C10 less BTEX (F1)	NGCMS_1121	ug/L	<25	<25
TRH>C10-C16	NGCMS_1112	ug/L	<25	250
TRH>C10 - C16 less Naph(F2)	NGCMS_1112	ug/L	<25	250
TRH>C16-C34(F3)	NGCMS_1112	ug/L	<100	<100
TRH>C34-C40(F4)	NGCMS_1112	ug/L	<100	<100

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water
& Wastewater", 22nd Edition, 2012, APHA. Raw data sheets stating analysis dates are available upon request.
Tests marked with '#' are not covered by NATA Accreditation.
*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) R/N:1178069.

Approved: 20/11/17
B J Wadleigh
Laboratory Manager

NATA

Accredited for compliance with ISO/IEC 17025
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.