

GALINTEL
KEVINELKS
P. O. BOX 396
COFFS HARBOUR NSW 2450

BATCHNUMBER: 19/0907
No. of SAMPLES: 7
DATE COLLECTED: 10/04/19
DATE RECEIVED: 11/04/19
TIME RECEIVED: 12:25
DATE TESTING COMMENCED:
11/04/19

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
19/0907/1	PIT 1, 10.15PM, 10.4.19, C SAGGUS
19/0907/2	PIT 3, 10.15PM, 10.4.19, C SAGGUS
19/0907/3	PIT 4, 10.15PM, 10.4.19, C SAGGUS
19/0907/4	PIT 6, 10.15PM, 10.4.19, C SAGGUS
19/0907/5	PIT 7, 10.15PM, 10.4.19, C SAGGUS
19/0907/6	PIT 8, 10.15PM, 10.4.19, C SAGGUS
19/0907/7	POINT 9, 12.10PM, 10.4.19, C SAGGUS

ANALYSIS	UNITS	19/0907/1	19/0907/2	19/0907/3	19/0907/4	METHODNO
pH	pH unit	7.7	7.5	7.3	4.5	APHA 4500-H+ B
Conductivity	µS/cm	262	135	120	87	APHA 2510 B
Total Suspended Solids	mg/L	68	9	16	6	APHA 2540 D
Total Dissolved Solids	mg/L	168	86	76	56	EL7B
Total Hardness	mg CaCO ₃ /L	60	38	23	5	EL9A
Alkalinity	mg CaCO ₃ /L	25	24	11	<2	APHA 2320 B
Chloride	mg/L	67	20	24	19	EL10A
Sulfate	mg/L	4.7	5.1	5.4	3.0	EL9A
Calcium	mg/L	22	13	6.3	0.41	EL9A
Magnesium	mg/L	1.6	1.2	1.7	1.0	EL9A
Sodium	mg/L	15	9.6	12	9.4	EL9A
Potassium	mg/L	4.0	1.9	1.5	0.35	EL9A
Zinc	mg/L	24.6	1.2	0.25	1.8	EL9A
Zinc - Filtered	mg/L	15	1.1	0.18	1.7	EL9A
Copper	mg/L	0.13	0.033	0.036	0.022	EL9A
Copper - Filtered	mg/L	0.011	0.017	0.012	0.021	EL9A
Nickel	mg/L	0.010	0.007	<0.005	<0.005	EL9A
Nickel - Filtered	mg/L	0.005	0.007	<0.005	<0.005	EL9A



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.

ANALYSIS	UNITS	19/0907/1	19/0907/2	19/0907/3	19/0907/4	METHOD NO
Manganese	mg/L	0.29	0.044	0.030	0.010	EL9A
Manganese - Filtered	mg/L	0.20	0.033	0.006	0.009	EL9A
Iron	mg/L	7.26	0.81	0.52	0.33	EL9A
Iron - Filtered	mg/L	<0.004	0.043	0.016	0.037	EL9A
Lead	mg/L	0.10	<0.010	<0.010	0.21	EL9A
Lead - Filtered	mg/L	<0.010	<0.010	<0.010	0.13	EL9A
Cobalt#	mg/L	<0.008	<0.008	<0.008	<0.008	EL9A
Cobalt - Filtered#	mg/L	<0.008	<0.008	<0.008	<0.008	EL9A
Chromium Trivalent	mg/L	0.031	0.004	<0.003	<0.003	EL9A
Chromium - Hexavalent*	mg/L	0.003	<0.001	<0.001	<0.001	NW D2
Chromium	mg/L	0.034	0.004	<0.003	<0.003	EL9A
Ammonia Nitrogen	mg/L	1.01	0.04	0.07	0.14	EL13F

ANALYSIS	UNITS	19/0907/5	19/0907/6	19/0907/7		METHOD NO
pH	pH unit	7.3	11.7	7.1		APHA 4500-H+ B
Conductivity	µS/cm	188	651	12,800		APHA 2510 B
Total Suspended Solids	mg/L	6	107	7		APHA 2540 D
Total Dissolved Solids	mg/L	120	417	8,190		EL7B
Total Hardness	mg CaCO ₃ /L	60	76	1,180		EL9A
Alkalinity	mg CaCO ₃ /L	55	136	57		APHA 2320 B
Chloride	mg/L	11	29	4,900		EL10A
Sulfate	mg/L	18	15	735		EL9A
Calcium	mg/L	22	29	97		EL9A
Magnesium	mg/L	1.1	0.82	287		EL9A
Sodium	mg/L	14	42	2,390		EL9A
Potassium	mg/L	1.3	34	112		EL9A
Zinc	mg/L	0.44	1.9	0.043		EL9A
Zinc - Filtered	mg/L	0.41	0.090	0.040		EL9A
Copper	mg/L	0.15	0.13	<0.004		EL9A
Copper - Filtered	mg/L	0.076	0.026	0.007		EL9A
Nickel	mg/L	<0.005	<0.005	<0.005		EL9A
Nickel - Filtered	mg/L	<0.005	<0.005	<0.005		EL9A
Manganese	mg/L	0.006	0.26	0.082		EL9A
Manganese - Filtered	mg/L	0.005	<0.003	0.073		EL9A
Iron	mg/L	0.23	5.06	0.54		EL9A
Iron - Filtered	mg/L	0.005	0.051	0.039		EL9A
Lead	mg/L	0.014	0.019	<0.010		EL9A
Lead - Filtered	mg/L	0.010	<0.010	<0.010		EL9A
Cobalt#	mg/L	<0.008	<0.008	<0.008		EL9A
Cobalt - Filtered#	mg/L	<0.008	<0.008	<0.008		EL9A
Chromium Trivalent	mg/L	<0.003	0.016	<0.003		EL9A
Chromium - Hexavalent*	mg/L	<0.001	0.019	<0.001		NW D2
Chromium	mg/L	<0.003	0.035	<0.003		EL9A
Ammonia Nitrogen	mg/L	<0.02	0.04	<0.02		EL13F



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ANALYSIS	UNITS	19/0907/1	19/0907/2	19/0907/3	19/0907/4	METHOD NO
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	ug/L	<25	<25	<25	<25	NGCMS 1121
TRH C10-C14*	ug/L	<25	<25	<25	<25	NGCMS 1112
TRH C15-C28*	ug/L	<100	<100	<100	<100	NGCMS 1112
TRH C29-C36*	ug/L	<100	<100	<100	<100	NGCMS 1112
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	ug/L	<25	<25	<25	<25	NGCMS 1121
TRH C6- C10 less BTEX (F1)	ug/L	<25	<25	<25	<25	NGCMS_1121
TRH>C10-C16	ug/L	<25	<25	<25	<25	NGCMS 1112
TRH>C10 - C16 less Naph (F2)	ug/L	<25	<25	<25	<25	NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	<100	<100	<100	NGCMS 1112
TRH>C34-C40(F4)	ug/L	<100	<100	<100	<100	NGCMS 1112

ANALYSIS	UNITS	19/0907/5	19/0907/6	19/0907/7		METHOD NO
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	ug/L	<25	<25	<25		NGCMS 1121
TRH C10-C14*	ug/L	<25	<25	<25		NGCMS 1112
TRH C15-C28*	ug/L	<100	<100	<100		NGCMS 1112
TRH C29-C36*	ug/L	<100	<100	<100		NGCMS 1112
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	ug/L	<25	<25	<25		NGCMS 1121
TRH C6- C10 less BTEX (F1)	ug/L	<25	<25	<25		NGCMS_1121
TRH>C10-C16	ug/L	<25	<25	<25		NGCMS 1112
TRH>C10 - C16 less Naph (F2)	ug/L	<25	<25	<25		NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	<100	<100		NGCMS 1112
TRH>C34-C40(F4)	ug/L	<100	<100	<100		NGCMS 1112

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN1230578.

Report Date: 2/05/19



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Approved:

B J Wadleigh
Laboratory Manager