31 January 2020 Miss B Webber Waterside West (07) 5581 7501

CITY OF GOLDGOAST.

2019988 PN128937/1154/02(P1)

Ms Suzanne McLeod 17 Larentia St **CURRUMBIN WATERS QLD 4223** 

Dear Ms McLeod

I refer to your application dated 4 December 2019 pursuant to the Information Privacy Act 2009, in relation to water inundation into your home at the above address, wherein you advise:

"To complete my records, I now request, through FOI, all GCCC communications re my property."

The Council holds 143 documents (pages) that relate to your application. The documents have been examined and the following decision is offered.

I have, on 31 January 2020, decided to allow you access to all of the documents.

If you are not satisfied with this decision, you are entitled to seek either an internal review of the decision by a more senior officer here at the Council, or an external review, by the Office of the Information Commissioner, under the Information Privacy Act 2009.

You should make an application for review of the decision within 20 business days from the date of this letter. Further details of your rights of review and the procedures to be followed are enclosed.

Pursuant to section 94.(1) Notes 2 of the Information Privacy Act 2009, it is not necessary to have an internal review before applying for an external review.

I wish to advise that pursuant to s.88 of the Information Privacy Act 2009 information considered not relevant to your application has been removed from 19 of the documents provided. The deleted irrelevant information will be shown as a grey area on the documents provided and noted accordingly.

The irrelevant information relates to properties other than yours.

Please find enclosed a copy of the documents released pursuant to the Information Privacy Act 2009.

Please accept my sincere thanks for providing this agency with an extension of time in which to provide this decision.

Please do not hesitate to contact the writer on the number above should you have any further enquiries regarding your application.

Yours faithfully

Brenda Webber

RIGHT TO INFORMATION & INFORMATION PRIVACY DECISION MAKER

Enc144

187881:ipwtrnotes.doc\bw

## **INFORMATION PRIVACY ACT 2009**

### 96 Applying for Internal Review

An application for an internal review of a decision must -

- (a) be in writing; and
- (b) state an address to which notices under this Act may be sent to the applicant for internal review; and
- (c) be made within 20 business days after the date of the written notice of the decision or within the further time the agency or the Minister allows (whether before or after the end of the 20 business days); and
- (d) be lodged at an office of the agency or Minister

## 101 Applying for External review

- (1) An application for an external review must
  - (a) be in writing; and
  - (b) specify an address of the applicant to which notices may be sent under this Act; and
  - (c) give details of the decision for review; and
  - (d) be made within 20 business days from the date of the written notice of the decision, or within the longer period the information commissioner allows; and
  - (e) be lodged at an office of the OIC

Note -

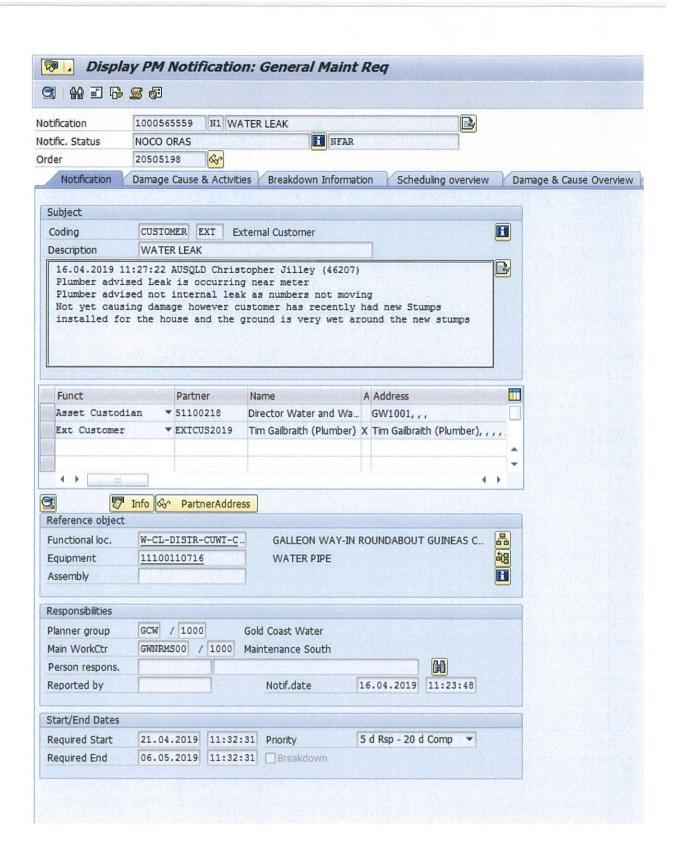
Section 196 clarifies the powers of those acting for others

(2) the application may contain details of the basis on which the applicant disputes the decision under review.

Address for the Office of the Information Commissioner:

Office of the Information Commissioner PO Box 10143 Adelaide Street BRISBANE QLD 4000 www.oic.qld.gov.au

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Request Numb	ber 334978		
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Date Receiv		Due date 11/05/2019 11:29:22 AM	
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Responsible Office	·	Customer Contact GCW	
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Customer type Co			
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Request Number	334978		
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Date Received		11:29:22 AM	Due date 11/05/2019 11:29:22 AM
Request Type Code	-	Water leak	TAPOPEOUS TRESTEE NO.
Receiving Officer		Trucker record	Christopher JILLEY
Responsible Officer			Customer Contact GCW
Actioning Officer			Customer Contact Overflow
Contact method Code		Telephone	CONTROL CONCENSION
Customer type Code	-	External	
Request Status		Actioned / C	Completed System Completion Date 20/12/2019 2:02:50 PM
Date Responded			Completed System Completion Date 20/12/2019 2:02:50 PM  Time Taken Days ▼ Calendar Days ▼
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16-Apr-2019 14:01:54 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

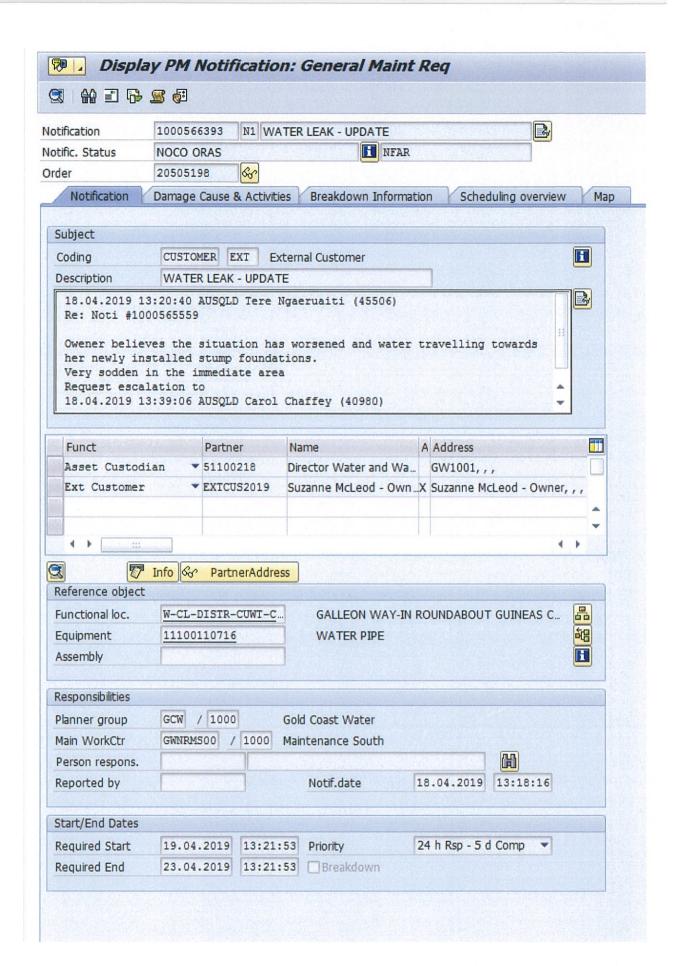
18-Apr-2019 13:22:26 - Tere NGAERUAITI - 1-LODGEACT 18/04/19 - TN 5619

Escalated request. Cuistomer concerned that issue has worsened. New Noti 1000566393

18-Apr-2019 14:03:22 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

20-Dec-2019 14:02:50 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED

20-Dec-2019 14:03:20 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED



18.04.2019 13:20:40 AUSQLD Tere Ngaeruaiti (45506) Re: Noti #1000565559

Owener believes the situation has worsened and water travelling towards her newly installed stump foundations.
Very sodden in the immediate area
Request escalation to

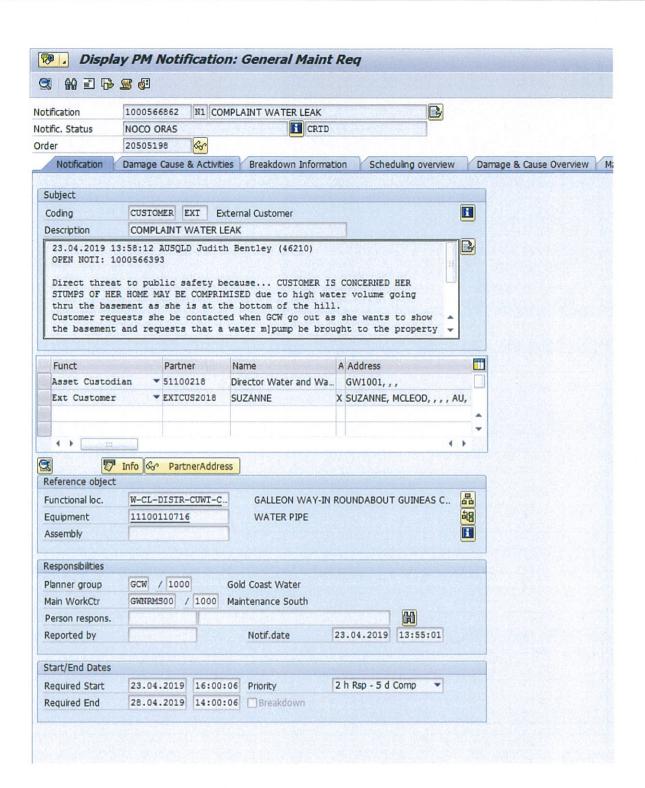
18.04.2019 13:39:06 AUSQLD Carol Chaffey (40980) 18.04.19 Upgraded to a P2 from a P2. CC.

Close \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ummary 🔑 Zoom	
Ready.		
Request Number	338115	
System Date Entered	23/04/2019 1:53:04 PM Service Date	
Date Received	23/04/2019 1:53:04 PM Due date 30/05/2019 1:53:04 PM	
Request Type Code	WS07 Water service request	
Receiving Officer	46210 Judy BENTLEY	
Responsible Officer	CCGCW Customer Contact GCW	
Actioning Officer	CCOF Customer Contact Overflow	
Contact method Code	T Telephone	
Customer type Code	EXT External	
Request Status	ACT Actioned / Completed System Completion Date 20/12/2019 2:03:39 PM	
Date Responded	20/12/20 19 2:03:39 PM Time Taken 169 Days ▼ Working Days ▼	
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23-Apr-2019 14:02:08 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACKNOWLEDGED AND SET TO IN PROGRESS

23-Apr-2019 17:02:31 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

20-Dec-2019 14:03:39 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED



23.04.2019 13:58:12 AUSQLD Judith Bentley (46210) OPEN NOTI: 1000566393

Direct threat to public safety because... CUSTOMER IS CONCERNED HER STUMPS OF HER HOME MAY BE COMPRIMISED due to high water volume going thru the basement as she is at the bottom of the hill. Customer requests she be contacted when GCW go out as she wants to show the basement and requests that a water m] pump be brought to the property to pump out excess water.

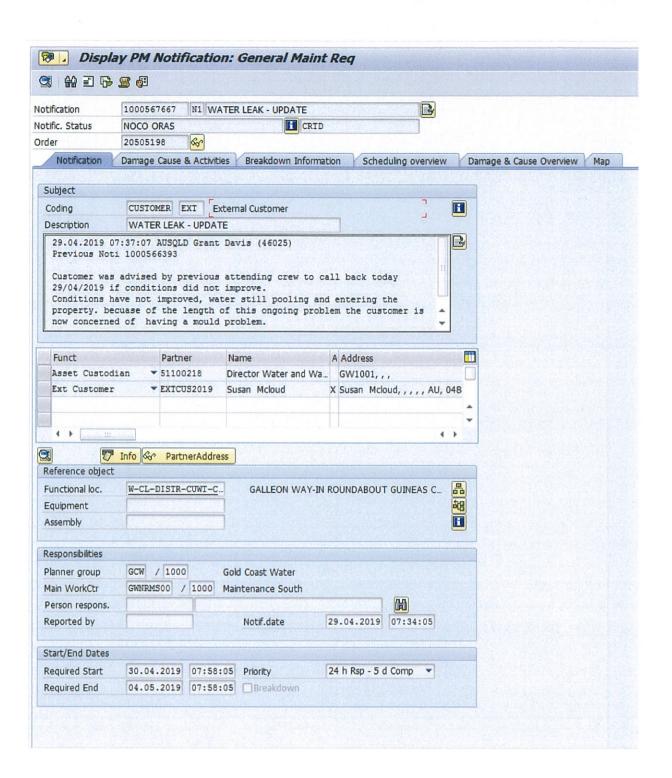
Customer is dropping off childrent to school and would like to be contacted on 0488 148 589 Suzanne McLeod

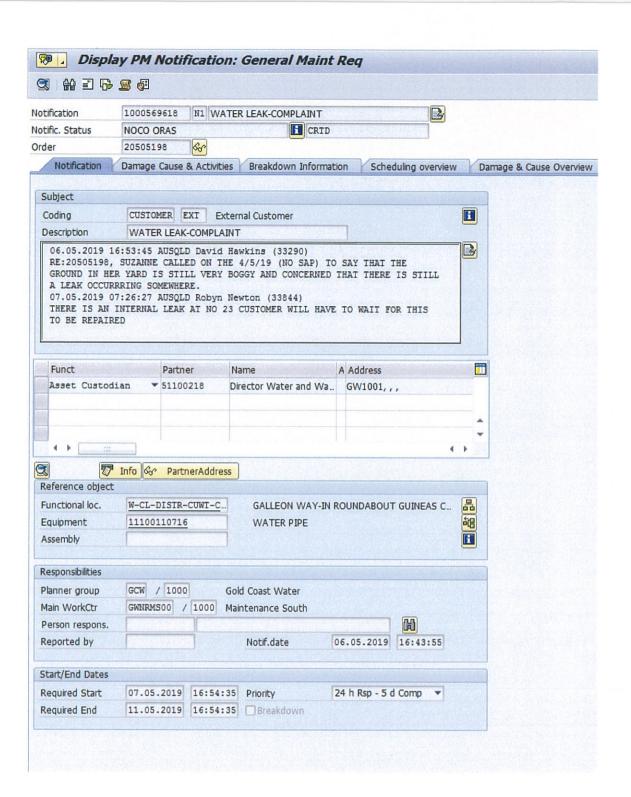
🕽 Close 🔝 Notes S						
16	ummary 🍶	D Zoom				
i) Ready.						
Request Number	3408	65				
System Date Entered	·	019 7:39:28 AM	Se	ervice Date		
Date Received	-	019 7:39:28 AM		Due date 2	.4/05/2019 7:39:28 A	M
Request Type Code		Water leak			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Receiving Officer			Grant Davis			
Responsible Officer			Customer Contact G	GCW		
Actioning Officer			Customer Contact C			
Contact method Code		Telephone		- 1 - 1 1 1 1 1		
Customer type Code		External				
Request Status			Completed	Sys	tem Completion Date	20/12/2019 2:03:56 PM
Date Responded		019 2:03:56 PM	Time Taken	235	-	Calendar Days ▼
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29-Apr-2019 08:02:40 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

20-Dec-2019 14:03:56 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED





Page:

1 of 2

Batch Number:

19050813

Survey Name:

Seepage - GCW&W

CITY OF GOLDCOAST.

## **Certificate of Analysis**

Contact:

Roshani Shrestha

Date Received:

9/05/2019

Customer:

W&W-SS-Environment

**Date Commenced:** 

9/05/2019

Address:

CoGC, Water & Waste, Service

Time Commenced (Microbiology): 1320

Sustainability NERANG QLD 4211

Date Reported:

10/05/2019

No. of Samples:

1

Cust Ref:

Comments:

Seepage address: 17 Larentia Street, Currumbin Waters

Trace amounts of THMS present but Below reporting Limits.

Samples were collected as per sampling method SS.PM.2.4 (2.9.2) and at sites specified by customer.

For information on Uncertainty of Measurement, please go to http://www.goldcoast.qld.gov.au/48452.html

**Kev:** ND = Not detected \* = Approximation only < = less than > = greater than EST = Estimated ^ = Test not covered by scope of NATA accreditation LOR = Level of Reporting NP = Not Performed

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

Authorised By

Owen Walsh Scientific Officer

Tabatha Del Fabbro Senior Scientific Officer

Accreditation No. 2536 Accredited for compliance with ISO/IEC 17025 - Testing

Your feedback is important to us, please submit your comments to scientificservices@goldcoast.qld.gov.au

Page:

2 of 2

Batch Number: 19050813

Survey Name:

Seepage - GCW&W

CITY OF GOLDCOAST.

# **Certificate of Analysis**

	Client Sample ID:						
,	Client Samp	ling Date:	9/05/2019				
(	Client Samp	ling Time:	0615				
Parameter	Units	LoR	17 Larentia Street				
MMM M15 : Coliforms (Membra	ne Filtratior	1)					
E.coli	CFU /100mL	1	<100				
APHA 2320 : Alkalinity	the same						
Alkalinity	mg CaCO3/L	2	58				
CMM 3.2.4 : Chlorine (Colorime	ter)						
Chlorine Free	mg/L	0.05	<0.05				
Chlorine Total	mg/L	0.05	<0.05				
APHA 2510 B : Conductivity (in	situ)						
Conductivity	mS/cm	0.03	0.232				
APHA 4500F C : Fluoride							
Fluoride	mg/L	0.1	0.4				
APHA 4500 H+ : pH (insitu)							
рН		0.03	7.3				
HACH 8008 / HACK 8034 : Trac Spectrophotometer	e Metals by						
^ Iron (HACH)	mg/L	0.1	0.2				
^ Manganese (HACH)	mg/L	0.1	0.1				
CMM 7.1.3 / CMM 7.2.1 / CMM 1 Nutrients by Spectrophotometer		ble					
^ Ammonia Nitrogen	mg/L	0.1	0.2				
^ Nitrate Nitrogen (HACH)	mg/L	0.6	0.6				
^ Orthophosphate Phosphorus	mg/L	0.4	<0.4				
CMM 2.5.6 - Volatile Organics (	GCMS)						
Bromodichloromethane	mg/L	0.005	<0.005				
Bromoform	mg/L	0.005	<0.005				
Chloroform	mg/L	0.005	<0.005				
Dibromochloromethane	mg/L	0.005	<0.005				
Total Trihalomethanes	mg/L	0.005	<0.005				

17 Larentia Street, Currumbin Waters

			Results		Water o	uality - pot	able water	
		9/05/2019	Comment	Mean				95%ile
Ammonia (as NH <sub>3</sub> )	mg/L	0.244		0.012	0.009	< 0.006	0.041	< 0.006
Chlorine Free	mg/L	< 0.05	The value is lower than the typical quality of potable wate	0.49	0.47	< 0.05	1.8	1.1
Chlorine Total	mg/L	< 0.05						
Fluoride (Total)	mg/L	0.4		0.78	0.8	0.3	0.9	0.9
Iron (Total)	mg/L	0.2		0.014	< 0.01	< 0.01	0.13	0.05
Manganese (Total)	mg/L	0.1		0.0021	0.001	< 0.001	0.16	0.007
Nitrate as (NO <sub>3</sub> )	mg/L	<2.658		0.34	0.24	0.015	2.4	0.887
Alkalinity	mg/L	58	The value is within the typical quality of potable water.	41.8	40	30	61	54
Conductivity	mS/cm	0.232	The value is within the typical quality of potable water.	0.277	0.27	0.149	0.525	0.406
рН		7.3	The value is within the typical quality of potable water.	7.47	7.4	6.5	9.2	7.9
Bromodichloromethane	mg/L	< 0.005		J				
Bromoform	mg/L	< 0.005						
Chloroform	mg/L	< 0.005						
Dibromochloromethane	mg/L	< 0.005						
Total Trihalomethanes	mg/L	< 0.005	The value is lower than the typical quality of potable wate	0.085	0.084	0.034	0.15	0.133
E.coli (Colilert)	cfu/100mL	<100		< 1	< 1	< 1	10	99.95%
Orthophoshate phosphorou	is mg/L	<0.4						

Note: The results indicate that the source of the seepage is likely to be from a natural source i.e. groundwater, stormwater, etc.

# 73416477

Ammonia | Coversion Ammonia (Nitrate nitr Coversion Nitrate as (NO<sub>3</sub>)

0.2 1.22 0.244 0.6 4.43 2.658 9/05/2019

## Interconverting Nitrate as Nitrate (Nitrate-NO3) and Nitrate as Nitrogen (Nitrate-N)

The atomic weight of nitrogen is 14,0067 and the molar mass of nitrate anion (NO<sub>3</sub>) is 62.0049 g/mole

Therefore, to convert Nitrate-NO3 (mg/L) to Nitrate-N (mg/L):

Nitrate-N (mg/L) = 0.2259 x Nitrate-NO3 (mg/L)

And to convert Nitrate-N (mg/L) to Nitrate-NO3 (mg/L):

Nitrate-NO3 (mg/L) = 4.4268 x Nitrate-N (mg/L)

#### Intercoverting Ammonia Nitrogen to Ammonia (as NH3)

Ammonia Nitrogen = 0.8333 x Ammonia (as NH3)

Ammonia (as NH3) = 1.22 x Ammonia Nitrogen

00/		0.0055	0.75	- 0.005	0.00	0.000	007	41	
0.2 (A	Y	0.0657	0.75	< 0.005	0.03	0.039	227	mg/L	Aluminium (A
0.5 (A	Y	< 0.006	0.041	< 0.006	0.009	0.012	72	mg/L	Ammonia (as
0.01 (H	Υ	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	72	mg/L	Arsenic (Tota
le No guidelin			0	0	0	0	18	g/kg	Asbestos
4 (H	Y	0.1105	0.17	< 0.03	< 0.03	0.037	80	mg/L	Boron (Total)
0.002 (H	Υ	< 0.001	0.001	< 0.001	< 0.001	< 0.001	72	mg/L	Cadmium (Tc
le No guidelin	• •		23	9.8	15	15.5	72	mg/L	Calcium (Tota
5 (H	Y	1.1	1.8	< 0.05	0.47	0.49	1963	mg/L	Chlorine Free
0.05 (F	Y	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	72	mg/L	Chromium (T
2 (H	Y	0.01	0.03	< 0.005	< 0.005	0.0055	72	mg/L	Copper (Tota
1.5 (F	Y	0.9	0.9	0.3	0.8	0.78	247	mg/L	Fluoride (Tota
0.3 (A	Y	0.05	0.13	< 0.01	< 0.01	0.014	72	mg/L	Iron (Total)
0.01 (F	Y	0.007	0.009	< 0.005	< 0.005	< 0.005	72	mg/L	Lead (Total)
le No guidelin			7.6	1.1	2.8	3.52	72	mg/L	Magnesium (
0.5 (1	Υ	0.007	0.16	< 0.001	0.001	0.0021	1960	mg/L	Manganese (
0.001 (F	Υ	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	227	mg/L	Mercury (Tota
0.02 (H	Υ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	72	mg/L	Nickel (Total)
50 (H	Υ	0.887	2.4	0.015	0.24	0.34	72	mg/L	Nitrate as (NC
3 (H	Υ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	71	mg/L	Nitrite Nitroge
80 ( <i>A</i>	Υ	15.08	16.1	12.3	12.8	13.1	18	mg/L	Silica
180 ( <i>A</i>	Υ	29.45	35	10	17	19	72	mg/L	Sodium (Tota
e No guidelin	o guideline		35.8	15.1	23.5	23.1	1962	°C	Temperature
3 (4	Y ********************************	0.02	0.04	< 0.01	< 0.01	< 0.01	72	mg/L	Zinc (Total)
				31.88 (S) <u>(S)</u>					Physical
le No guidelin	t applicab	54 No	61	30	40	41.8	52	mg/L	Alkalinity
le No guidelin	t applicab	0.406 No	0.525	0.149	0.27	0.277	573	mS/cm	Conductivity
200 (A	Υ	73.45	89	9.9	50.5	51.5	72	mg/L	Hardness
6.5 <b>-</b> 8.5 (A	Υ	7.9	9.2	6.5	7.4	7.47	1963		pН
600 (A	Υ	193	210	98	135	140	18	mg/L	Total Dissolv
15 ( <i>A</i>	Υ	3	12	1	1	1.6	1962	HU	True Colour
5 (4	Υ	0.49	8.9	< 0.1	0.22	0.26	1963	NTU	Turbidity
									Organics
0.01 (H	Υ	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	18	mg/L	Bis (2-Ethylhe
								FIRST CONTRACTOR AND	Disinfection B
					0.004	0.085	76	mg/L	Total Trihalor
0.25 (H	Y	0.133	0.15	0.034	U.U84				
0.25 (H	Y	0.133 % Pass	0.15	0.034	0.084	0.000	, ,	A CONTRACTOR OF THE PROPERTY O	Microbiologic

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cled Water Class C. July 2014 - June 2015

				f Treatment		
Component		، Units	Tests	Coombabah		Elanora
Alkalinity		CaCO <sub>3</sub> /L	53	110	110	230
Chlorine Free	J	mg/L	53	0.05	0.07	<0.05
Chlorine Total		mg/L	53	0.24	0.41	0.12
Conductivity		mS/cm	53	1.77	1.02	1.73
E. coli	CFl	J/100mL	53	130	20	80
Elements a -		mg/L	1	0.12	0.072	0.034
	Arsenic (T	mg/L	1	< 0.05	< 0.05	< 0.05
- 1	Beryllium (	mg/L	1	< 0.01	< 0.01	< 0.01
<b>-</b> - 1	Boron (Tol	mg/L	1	0.16	0.09	0.12
- (	Cadmium	mg/L	1	< 0.001	< 0.001	< 0.001
= (	Calcium (1	mg/L	1	32	28	44
- (	Chromium	mg/L	1	< 0.001	< 0.001	< 0.001
- (	Cobalt (To	mg/L	1	< 0.001	< 0.001	< 0.001
- (	Copper (Ti	mg/L	1	< 0.005	< 0.005	< 0.005
- 1	Fluoride (1	mg/L	1	0.6	0.7	0.7
- 1	Iron (Total	mg/L	1	0.06	0.07	0.07
<del>-</del>	Lead (Tota	mg/L	1	< 0.005	< 0.005	< 0.005
<u>-</u>	Lithium (Tr	mg/L	1	< 0.04	< 0.04	< 0.04
- 1	Magnesiur	mg/L	1	31	13	56
~ i	Manganes	mg/L	1	0.11	0.11	0.04
- 1	Mercury (T	mg/L	1	< 0.0003	< 0.0003	< 0.0003
- 1	Molybdeni	mg/L	1	< 0.05	< 0.05	< 0.05
- 1	Nickel (To	mg/L	1	< 0.005	< 0.005	< 0.005
- 1	Potassium	mg/L	1	29	21	27
	Selenium ı	mg/L	1	< 0.05	< 0.05	< 0.05
	Silica (Toti	mg/L	1	15	16	15
	Silver (Tot	mg/L	1	< 0.005	< 0.005	< 0.005
	Sodium (T	mg/L	1	320	160	250
- '	Vanadium	mg/L	1	< 0.005	< 0.005	< 0.005
- ;	Zinc (Tota	mg/L	1	0.04	0.02	< 0.01
Nitrogen, Amr	nonia	mg/L	53	0.11	0.25	1.7
Nitrogen, Oxid	ised	mg/L	53	0.81	1.4	4.3
Nitrogen, Tota	al	mg/L	53	2.1	2.9	7
Oxygen, Bioch	nemical De	mg/L	53	<2	<2	2
Oxygen, Cher	nical Dem	mg/L	53	40	30	30
Oxygen, Disso	olved	mg/L	53	7.3	8.2	7.4
рН		-	53	7.6	7.7	8.1
Phosphorus, (	Orthophos	mg/L	53	1.4	0.16	2.3
Phosphorus.		mg/L	53	1.7	0.31	2.5
Sodium Adsor		-3-	1	9.7	6.3	5.9
Sulfate	•	mg/L	1	110	66	90
Suspended S	olids	mg/L	53	4	3	2
Temperature		°C	53	25.3	25.9	25.1
Tomporature		Ţ	00	20,0	20.0	20.1

#### Comments

greater than or equal to the

medians of 24hr composite samples collected weekly between 01/07/2014 - 30/06/2015. All

<sup>&</sup>lt;sup>a</sup> Median metal result determined from sample collected on 04/11/2014 for Coombabah,

Recycled Water Class A+. July 2014 - June 2015

Recycle	d Water	Class A+	THE PARTY OF THE P		June 2015
					Treatment
Component	emercents common emerce memors	Units		Tests	Plant
Alkalinity		mg CaCO	3/L	53	130
Chlorine Fre	e	mg	/L	53	4
Chlorine Tot	al	mg	)/L	53	4.9
Conductivity		mS/d	cm	53	0.888
E. coli		CFU/100r	nL	53	<1
C. perfringer	າຮ	CFU/100r	nL	53	<1
F-RNA bacte	eriophages	PFU/100r	nL	53	<1
Somatic coli	phages	PFU/100r	nL	53	<1
Elements a	- Aluminiur	n mg	<sub>2</sub> /L	1	0.087
	- Arsenic (		7/L	1	< 0.05
	- Beryllium			1	< 0.01
	- Boron (To	_		1	0.07
	- Cadmium	_		1	< 0.001
	- Calcium (	~		1	28
	- Chromiur			1	< 0.001
	- Cobalt (T	_		1	< 0.001
	- Copper (	-		1	< 0.005
	- Fluoride (	_		1	0.5
	- Iron (Tota			1	< 0.01
	- Lead (To			1	< 0.005
	- Lead (10 - Lithium (1	-	-	1	< 0.003
	- Magnesit	-		1	8.8
	- Magnesic - Mangane			1	< 0.001
			-		
	- Mercury (			1	< 0.0003
	- Molybder	-	g/L	1	< 0.05
	- Nickel (To	-	3/L	1	< 0.005
	- Potassiur	-	j/L	1	22
,	- Selenium	ı mç	g/L	1	< 0.05
	- Silica (To		J/L	1	13
	- Silver (To	at mg	٦/L	1	< 0.005
	- Sodium (	T mg	3/L	1	140
	- Vanadiun	n mg	J/L	1	< 0.005
	- Zinc (Tota			1	0.03
Nitrogen, An	•		į/L	53	< 0.01
Nitrogen, Or		-	j/L	53	0.54
Nitrogen, Ox			j/L	53	0.29
Nitrogen, To		-	9/L	53	0.88
Oxygen, Bio			)/L	53	<2
		-			
Oxygen, Chi		-	]/L	53	20
Oxygen, Dis	solved	ŧ t i Ç	g/L	53	7.7
pH				53	7.7
Phosphorus		-	g/L	53	0.02
Phosphorus			g/L	53	0.05
Sodium Ads	orption Ra	tio		1	5. <del>9</del>
Sulfate		mg	g/L	1	100
Suspended	Solids	mg	g/L	53	<2
Temperature	9		°C	53	25.7
Total Dissolv	ved Salts	mg	j/L	53	510
True Colour			HU	53	5
Turbidity			TU	53	0.28
		,,	-		

## Comments

mg/L = Milligrams per Litre (or Parts per † mS/cm = Millisiemens per Centimetre

°C = Degrees Celcius

PFU = Plaque Forming Unit

mg CaCO<sub>3</sub>/L = mg/L of Calcium Carbonal HU = Hazen Units

the numbers have a value greater than or equal to the median, and

oxygen, E. coli, C. perfringens, F-RNA bacteriophages, Somatic

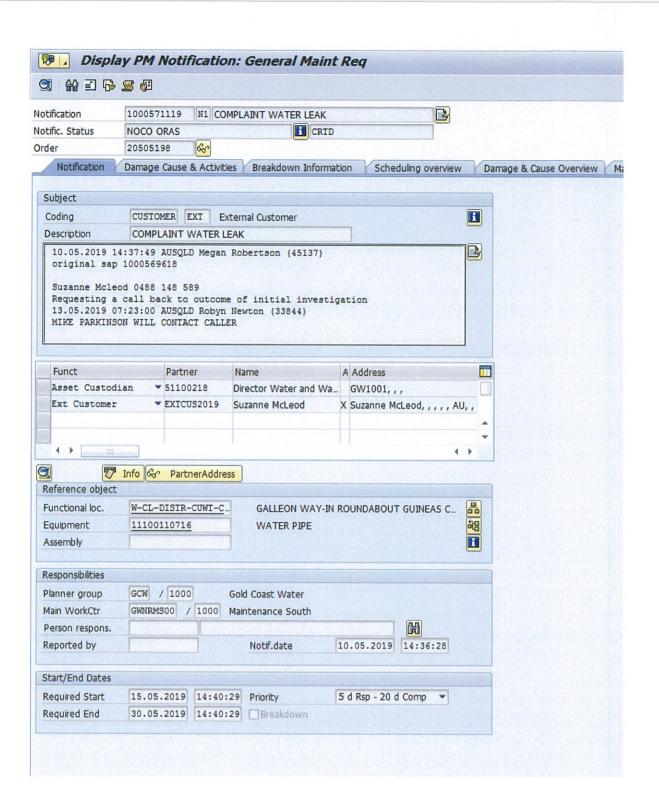
<sup>&</sup>lt;sup>a</sup> Mean metal result determined from sample collected on 04/11/2014

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Responsible Office	CCGCW			Custome	r Contact GCW							
Actioning Office	r CCOF			Custome	er Contact Overflo	w						
Contact method Code	e T	Telep	ohone									
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THE . P. LEWIS CO., LANSING, MICH. 499.	Acceptable Comments	-	Neter erree i	vumber					-			
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10-May-2019 17:01:42 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACKNOWLEDGED AND SET TO IN PROGRESS

13-May-2019 08:02:55 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

20-Dec-2019 14:04:40 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED



#### **JOHNSON Kath**

From:

MAHARDHIKA Hapsara

Sent:

Monday, 13 May 2019 8:55 AM

To:

**RANKIN Tony** 

Subject:

SEEPAGE REPORT 17 LARENTIA STREET, CURRUMBIN WATERS 9 MAY 2019

Attachments:

TRACKS-#73416477-v1-SEEPAGE\_REPORT\_17

\_LARENTIA\_STREET\_\_CURRUMBIN\_WATERS\_9\_MAY\_2019.XLSX

Hi Tony,

As discussed, the source of the seepage is likely to be from a natural source i.e. stormwater, groundwater, etc. Both Free Chlorine and Total Trihalomethanes (THM) were not detected.

Cheers,

Hapi

#### Hapsara Mahardhika

Senior Environmental Officer Water & Waste City of Gold Coast

s.88 Information Not Relevant

T: 07 5582 8217 MRemoved

PO Box 5042 Gold Coast Mail Centre Qld 9729

cityofgoldcoast.com.au

CITY OF

GOLDCOAST.

17 Larentia Street, Currumbin Waters

			Results		Water o	uality - pot	able water	
		9/05/2019	Comment	Mean			Maximum	95%ile
Ammonia (as NH <sub>3</sub> )	mg/L	0.244		0.012	0.009	< 0.006	0.041	< 0.006
Chlorine Free	mg/L	<0.05	The value is lower than the typical quality of potable wate	0.49	0.47	< 0.05	1.8	1.1
Chlorine Total	mg/L	<0.05						
Fluoride (Total)	mg/L	0.4		0.78	0.8	0.3	0.9	0.9
Iron (Total)	mg/L	0.2		0.014	< 0.01	< 0.01	0.13	0.05
Manganese (Total)	mg/L	0.1		0.0021	0.001	< 0.001	0.16	0.007
Nitrate as (NO <sub>3</sub> )	mg/L	<2.658		0.34	0.24	0.015	2.4	0.887
Alkalinity	mg/L	58	The value is within the typical quality of potable water.	41.8	40	30	61	54
Conductivity	mS/cm	0.232	The value is within the typical quality of potable water.	0.277	0.27	0.149	0.525	0.406
рН		7.3	The value is within the typical quality of potable water.	7.47	7.4	6.5	9.2	7.9
Bromodichloromethane	mg/L	<0.005						
Bromoform	mg/L	< 0.005						
Chloroform	mg/L	< 0.005						
Dibromochloromethane	mg/L	< 0.005						
Total Trihalomethanes	mg/L	< 0.005	The value is lower than the typical quality of potable wate	0.085	0.084	0.034	0.15	0.133
E.coli (Colilert)	cfu/100mL	<100		< 1	<1	< 1	10	99.95%
Orthophoshate phosphorous	mg/L	<0.4						

Note: The results indicate that the source of the seepage is likely to be from a natural source i.e. groundwater, stormwater, etc.



Ammonia Coversion Ammonia Nitrate nitr Coversion Nitrate as (NO<sub>3</sub>) 9/05/2019 0.2 1.22 0.244 0.6 4.43 2.658

#### Interconverting Nitrate as Nitrate (Nitrate-NO3) and Nitrate as Nitrogen (Nitrate-N)

The atomic weight of nitrogen is 14.0067 and the molar mass of nitrate anion (NO $_3$ ) is 62.0049 g/mole

Therefore, to convert Nitrate-NO3 (mg/L) to Nitrate-N (mg/L):

Nitrate-N (mg/L) = 0.2259 x Nitrate-NO3 (mg/L)

And to convert Nitrate-N (mg/L) to Nitrate-NO3 (mg/L):

Nitrate-NO3 (mg/L) = 4.4268 x Nitrate-N (mg/L)

## Intercoverting Ammonia Nitrogen to Ammonia (as NH3)

Ammonia Nitrogen = 0.8333 x Ammonia (as NH3)

Ammonia (as NH3) = 1.22 x Ammonia Nitrogen

Aluminium (A	mg/L	227	0.039	0.03	< 0.005	0.75	0.0657	Υ	0.2 (A)
Ammonia (as	mg/L	72	0.012	0.009	< 0.006	0.041	< 0.006	Υ	0.5 (A)
Arsenic (Tota	mg/L	72	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	Υ	0.01 (H)
Asbestos	g/kg	18	0	0	0	0	0	Not applic	cable No guideline
Boron (Total)	mg/L	80	0.037	< 0.03	< 0.03	0.17	0.1105	Υ	4 (H)
Cadmium (Tc	mg/L	72	< 0.001	< 0.001	< 0.001	0.001	< 0.001	Υ	0.002 (H)
Calcium (Tota	mg/L	72	15.5	15	9.8	23	21	Not applic	cable No guideline
Chlorine Free	mg/L	1963	0.49	0.47	< 0.05	1.8	1.1	Υ	5 (H)
Chromium (T	mg/L	72	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	Υ	0.05 (H)
Copper (Tota	mg/L	72	0.0055	< 0.005	< 0.005	0.03	0.01	Υ	2 (H)
Fluoride (Tota	mg/L	247	0.78	0.8	0.3	0.9	0.9	Υ	1.5 (H)
Iron (Total)	mg/L	72	0.014	< 0.01	< 0.01	0.13	0.05	Υ	0.3 (A)
Lead (Total)	mg/L	72	< 0.005	< 0.005	< 0.005	0.009	0.007	Υ	0.01 (H)
Magnesium (*	mg/L	72	3.52	2.8	1.1	7.6	6.39	Not applic	cable No guideline
Manganese (	mg/L	1960	0.0021	0.001	< 0.001	0.16	0.007	Υ	0.5 (H)
Mercury (Tota	mg/L	227	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	Υ	0.001 (H)
Nickel (Total)	mg/L	72	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	Υ	0.02 (H)
Nitrate as (NC	mg/L	72	0.34	0.24	0.015	2.4	0.887	Υ	50 (H)
Nitrite Nitroge	mg/L	71	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Υ	3 (H)
Silica	mg/L	18	13.1	12.8	12.3	16.1	15.08	Υ	80 (A)
Sodium (Tota	mg/L	72	19	17	10	35	29.45	Υ	180 (A)
Temperature	°C	1962	23.1	23.5	15.1	35.8	28.1	No guide	eline No guideline
Zinc (Total)	mg/L	72	< 0.01	< 0.01	< 0.01	0.04	0.02	Y	3 (A)
Physical									
Alkalinity	mg/L	52	41.8	40	30	61			cabl€ No guideline
Conductivity	mS/cm	573	0.277	0.27	0.149	0.525	0.406	Not appli	cable No guideline
Hardness	mg/L	72	51.5	50.5	9.9	89	73.45	Υ	200 (A)
pН		1963	7.47	7.4	6.5	9.2	7.9	Υ	6.5 - 8.5 (A)
Total Dissolv	mg/L	18	140	135	98	210	193	Υ	600 (A)
True Colour	HU	1962	1.6	1	1	12	3	Υ	15 (A)
Turbidity	NTU	1963	0.26	0.22	< 0.1	8.9	0.49	Υ	5 (A)
Organics									
Bis (2-Ethylho	mg/L	18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Υ	0.01 (H)
Disinfection B	y-Products								
Total Trihalor	mg/L	76	0.085	0.084	0.034	0.15	0.133	Υ	0.25 (H)
Microbiologic	al						% Pass		
E.coli (Colil€	cfu/100mL	1962	< 1	< 1	< 1	10	99.95%	Y	< 1 (H)

cled Water Class C. July 2014 - June 2015

		777. <del>2 - 1</del> 79. 2019. <del>199. 199. 199. 199. 199. 199. 199. </del>		r Class C. Ji		
a de la companion			Number of <u>Treatment Plant Median Result</u> Tests Coombabal Merrimac Elanora			
Component		Jnits	Tests			Elanora
Alkalinity	_	aCO₃/L	53	110	110	230
Chlorine Free		mg/L	53	0.05	0.07	<0.05
Chlorine Total		mg/L	53	0.24	0.41	0.12
Conductivity		mS/cm	53	1.77	1.02	1.73
E. coli		/100mL	53	130	20	80
Elements a -		mg/L	1	0.12	0.072	0.034
	Arsenic (T	mg/L	1	< 0.05	< 0.05	< 0.05
	Beryllium (	mg/L	1	< 0.01	< 0.01	< 0.01
-	Boron (Tol	mg/L	1	0.16	0.09	0.12
	Cadmium	mg/L	1	< 0.001	< 0.001	< 0.001
<b></b>	Calcium (1	mg/L	1	32	28	44
<u>-</u> 1	Chromium	mg/L	1	< 0.001	< 0.001	< 0.001
- 1	Cobalt (To	mg/L	1	< 0.001	< 0.001	< 0.001
-	Copper (T	mg/L	1	< 0.005	< 0.005	< 0.005
-	Fluoride (1	mg/L	1	0.6	0.7	0.7
-	Iron (Total	mg/L	1	0.06	0.07	0.07
- 1	Lead (Tota	mg/L	1	< 0.005	< 0.005	< 0.005
	Lithium (To	mg/L	1	< 0.04	< 0.04	< 0.04
_	Magnesiur	mg/L	1	31	13	56
-	Manganes	mg/L	1	0.11	0.11	0.04
	Mercury (1	mg/L	1	< 0.0003	< 0.0003	< 0.0003
	Molybdeni	mg/L	1	< 0.05	< 0.05	< 0.05
	Nickel (To	mg/L	1	< 0.005	< 0.005	< 0.005
	Potassium	mg/L	1	29	21	27
	Selenium ı	mg/L	1	< 0.05	< 0.05	< 0.05
	Silica (Toti	mg/L	1	15	16	15
	Silver (Tot	mg/L	1	< 0.005	< 0.005	< 0.005
	Sodium (T	mg/L	1	320	160	250
	Vanadium	mg/L	1	< 0.005	< 0.005	< 0.005
	Zinc (Tota	mg/L	1	0.04	0.02	< 0.01
Nitrogen, Ami	*	mg/L	53	0.11	0.25	1.7
Nitrogen, Oxid		mg/L	53	0.81	1.4	4.3
Nitrogen, Tota		mg/L	53	2.1	2.9	7.3
		_		<2	<2	2
Oxygen, Bioch		mg/L	53			
Oxygen, Cher		mg/L	53	40	30	30
Oxygen, Disse	olved	mg/L	53	7.3	8.2	7.4
pН			53	7.6	7.7	8.1
Phosphorus,		mg/L	53	1.4	0.16	2.3
Phosphorus,		mg/L	53	1.7	0.31	2.5
Sodium Adso	rption Ratio		1	9.7	6.3	5.9
Sulfate		mg/L	1	110	66	90
Suspended S	olids	mg/L	53	4	3	2
Temperature		°C	53	25.3	25.9	25.1
•						

#### Comments

greater than or equal to the

medians of 24hr composite samples collected weekly between 01/07/2014 - 30/06/2015. All

<sup>&</sup>lt;sup>a</sup> Median metal result determined from sample collected on 04/11/2014 for Coombabah,

Recycled Water Class A+. July 2014 - June 2015

Component		Numbe	r of Treatment
Component Alkalinity	Units mg CaCO <sub>3</sub> /L	Tests	130
Chlorine Free	mg/L	53 53	4
Chlorine Total	mg/L	53	4.9
Conductivity	mS/cm	53	0.888
E. coli	CFU/100mL	53	<1
C. perfringens	CFU/100mL	53	<1
F-RNA bacteriophage		53	<1
Somatic coliphages	PFU/100mL	53	<1
Elements <sup>a</sup> - Aluminiu		1	0.087
- Arsenic		1	< 0.05
- Berylliun	, •	1	< 0.00
- Boron (T	_	1	0.07
- Cadmiur	_	1	< 0.001
- Calcium		1	28
- Chromiu		1	< 0.001
- Cobalt (	_	1	< 0.001
- Copper		1	< 0.005
- Fluoride		1	0.5
- Iron (Tot		1	< 0.01
- Lead (To		1	< 0.005
- Lithium (	-	1	< 0.04
- Magnesi		1	8.8
- Mangan	=	1	< 0.001
- Mercury		1	< 0.0003
- Molybde		1	< 0.05
- Nickel (1		1	< 0.005
- Potassiu		1	22
- Seleniur		1	< 0.05
- Silica (T	•	1	13
- Silver (T		1	< 0.005
- Sodium		1	140
- Vanadiu		1	< 0.005
- Zinc (To	•	1	0.03
Nitrogen, Ammonia	mg/L	53	<0.01
		53	0.54
Nitrogen, Organic	mg/L	53	0.29
Nitrogen, Oxidised	mg/L		0.88
Nitrogen, Total	mg/L	53	0.88 <2
Oxygen, Biochemical		53	20
Oxygen, Chemical De		53	
Oxygen, Dissolved	mg/L	53	7.7
pH		53	7.7
Phosphorus, Orthoph		53	0.02
Phosphorus, Total	mg/L	53	0.05
Sodium Adsorption Ra		1	5.9
Sulfate	mg/L	1	100
Suspended Solids	mg/L	53	<2
Temperature	°C	53	25.7
Total Dissolved Salts	mg/L	53	510
True Colour	HU	53	5
Turbidity	NTU	53	0.28

## Comments

mg/L = Milligrams per Litre (or Parts per I mS/cm = Millisiemens per Centimetre

°C = Degrees Celcius

PFU = Plaque Forming Unit

mg CaCO<sub>3</sub>/L = mg/L of Calcium Carbonat HU = Hazen Units

the numbers have a value greater than or equal to the median, and

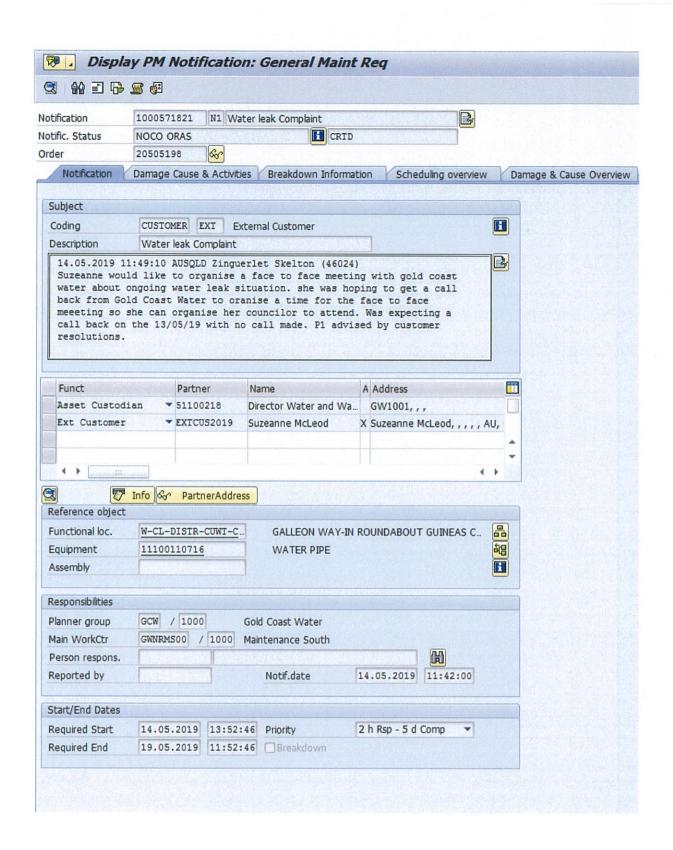
oxygen, E. coli, C. perfringens, F-RNA bacteriophages, Somatic

<sup>&</sup>lt;sup>a</sup> Mean metal result determined from sample collected on 04/11/2014

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14-May-2019 14:02:28 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND A WORK ORDER HAS BEEN ASSIGNED

20-Dec-2019 14:04:41 - SYSAC - IOn Iterface User - 1-LODGEACT THE NOTIFICATION HAS BEEN ACTIONED AND COMPLETED



The property – 17 Larentia Street, Currumbin Waters, Queensland 4223

Owner – Suzanne K McLeod, mobile 0488 148 589, email <a href="mailto:skmcleod@hotmail.com">skmcleod@hotmail.com</a>,

Issue – Water migrating onto the above property from Gold Coast City Council land.

Investigative Process as below:

Date of	Times I phoned	GCCC Staff member.	Discussion
communications		Job ID/Notification No.	
April 15 2019		John, Louise Job ID 1041296014	I advised GCCC of water leaking onto the above property and was told to get my plumber to inspect.
April 16 2019		Oceanside Plumbing	Inspection completed and advised the leak is on the side of GCCC and they would report to GCCC.
April 16 2019		Nicki, Job ID 100056	I phoned to see if GCCC had received report from Oceanside Plumbing
April 18 2019		Terry Job ID 1000566393	I was advised someone would be in touch within 24 hours.
April 19 2019	Good Friday 8.00am	Trent	He inspected the inundation and metre confirmed the leak was coming from GCCC land.
April 23 2019	6.00am	Blake, Judy	Explained the above
April 23 2019	1.30pm	Melissa, Judy	I was advised the fault would be repaired today or tomorrow
April 23 2019	2.00pm	Tony	I explained the above
April 23 2019	Evening		Several trucks and staff repaired leak outside No 19 Larentia St.
April 29 2019	7.30am	Graham	I advised him that the inundation, water coming from GCCC side has not been fixed.

			He said someone would come in 2 hours.
April 29 2019	10.00-11.00am	Tony	He was not able to fix the issue and told me he was advising another team.
May 1 2019	9.30	Graham	He advised me someone would come today and would phone me.
May 1 2019	pm	Brett	He visited and advised me the leak is coming from No 23 Larentia St and a Repair Order has been placed in the owner's letter box. I said it was Chris (owner of No 23) who first noticed my inundation.  I visited Chris with details of my communications with GCCC. He is good neighbour
May 4 2019	3.30pm	David	He was unable to access my Job ID, said he would text through a Job ID.
May 6 2019		David. Notification Number 1000569618	He text through the new Notification Number
May 8 2019		Chris	I was advised a new team was being sent today. I don't think they came. I request I be advised of staff arriving so I can attend.
May 8 2019		Megan	She said a team came yesterday but I was out. I explained they don't phone prior or after a visit.

8402010	10.45	200001100	Diameter and the second second second
May 8 2019	10.45am	20505198	Placed in my letter box
			a note advising
			"Internal leaks have
			been fixed at Nos 23
			and 36. Have now
	and		organised to have a lab
	3-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		sample taken to
		]	confirm either potable
		1	water or ground
			water"
May 10 2019	2.00pm	Megan	I was advised she is
•	•		sending an email to
			the relevant
			department to take
			water samples.
			I requested and was
			1 1
			given the ph no of Councillor Daphne
		ļ	, ,
			McDonald. At this
		1	stage I had not
			checked my letter box
	1		– note the above from
			GCCC.
May 13 2019	8.30am	Mike	He phoned me to say
	· ·		lab samples were
			taken Fri. He will
	***************************************		phone me today with
			results. I advised him
			that the stagnant
	1		water is now attracting
			mosquitos
May 14 2019	11.15am	Zimmerman	I requested results and
Way 14 2015	11.120111	Zammerman	a meeting on site at an
			agreed time. In
			attendance to be
			someone from from
			GCCC with authority,
	Į		myself, a family
			member and a
			Councillor. I said I
			wasn't going to hang
			up until I had a
			commitment to an
			onsite meeting by
	W		GCCC. After holding
			my position on that for
			at least 20 mins he said
			"they will phone back
			in a couple of hours."
			· · · · · · · · · · · · · · · · · · ·
l			This did not happen.

 May 15 2019			I went to Councillor McDonald's office to enquire about the
			process, however I was told I am not in her Ward, but to contact Councillor Gail O'Neill
May 15 2019	pm	Daniel (?)	He phoned me whilst I was in the car and said he was in the area and could visit. I said I wanted formal advice to have the relevant people attending.
May 15 2019	pm		A neighbour text me advising that while I was out a GCCC vehicle arrived with three staff.
May 16 2019	7.15am	Michelle	Again, I requested a formal onsite meeting. She said she is contacting GC Water and will get back to me.
May 16 2019			Long time neighbours said there was a problem with a spring on Council land some years ago. We also agreed that major work was done on GCCC land in the vicinity of No 9 approx 6 weeks ago. That would be around the time water commenced migrating
May 16 2019	10.00am	Vicki, Customer Resolution Dept.	onto my property.  Whilst cordial, I was shocked to be informed the inundation of water on my property from GCCC land is not
			coming from GCCC assets hence "they are stepping away from this job" and I would have to resolve this independently.

			She advised it could be Referred to Storm Water Dept.
May 16 2019	10.30am		I contacted the office of Councillor Gail O'Neill and left my information with Emma. She promptly returned my call setting an appointment with Councillor 9.30am May 17.
May 16 2019	2.15pm	Vicki, Customer Resolution Dept	I phoned requesting a copy of all internal and external
COPY OF THIS			communications regarding the inundations of water from GCCC land onto 17 Larentia St Currumbin Waters. I advised this information would be obtained through Freedom of Information process. She said this would need to be released through GCCC Legal Services Dept.
RECORD TO BE GIVEN TO COUNCILLOR O'NEILL 9.30AM MAY 17 2019			

# **Customer request summary**

Print date: 20/05/2019 3:26 PM

Request details

Request number:

354772

Date entered:

20 May 2019 3:24 PM

Date received:

20 May 2019 3:24 PM

Due date: 24 June 2019 3:24 PM

Request type code:

CR11 - Economy, Planning and Environment

Receiving officer:

DIV14 - Division fourteen

Responsible officer:

DIRPE - Director, Planning and Environment

Actioning officer: Contact method:

CRPEG - P&E CR Group CR - Councillor initiated

Customer type:

CLR - Councillor

Request status:

NEW - New Request

Completion date:

Date responded:

Time taken:

iriority:

5

Available to public:

No

## Module links (if applicable)

Customer name:

Mrs Suzanne McLeodCouncillor O'Neill Division Fourteen

Councillor name:

Councillor O'Neill Division Fourteen

Division (ward):

Division 14

Property location of request:

17 Larentia Street, CURRUMBIN WATERS QLD 4223

Infringement number: Street/suburb location:

Rate assessment:

Application:

Licence:

### Notes (if applicable)

Note date and time: 20 May 2019 3:25 PM Noted by:

DIV14 - Division fourteen

Note type:

1-LODGEACT - Lodgement / action note

Note:

Suzanne Mcleod 17 Larentia Street, Currumbin Waters 0488 148 589 met with Cr O'Neill on 17 May 2019. Cr O'Neill requests investigation by Development Compliance - Stormwater officers regarding the complainants concerns about water running under her retaining wall and under her house which she believes may be as a result of recent Council roadworks in the street. Please make the necessary

arrangements and advise accordingly. Emma x7436

## Questionnaires (if applicable)

1. Please select the relevant request type

Development Compliance Stormwater

2. Provide details and/or further information.

GOLDGOAST.

References (if applicable)

# GOLDCOAST.

See CR# 361137

354772

# **Customer request summary**

Print date: 21/05/2019 8:27 AM

Request details

Request number: 354772

Date entered: 20 May 2019 3:24 PM

**Date received:** 20 May 2019 3:24 PM **Due date:** 24 June 2019 3:24 PM

Request type code: CR11 - Economy, Planning and Environment

Receiving officer: DIV14 - Division fourteen

Responsible officer: 37169 - Grant MCDONOUGH

Actioning officer: BLDCOMP - Building Compliance

Contact method: CR - Councillor initiated

Customer type: CLR - Councillor

Request status: NEW - New Request Completion date:

Date responded: Time taken:

Date responded: Till dority: 5

Available to public: No

Module links (if applicable)

Customer name: Mrs Suzanne McLeodCouncillor O'Neill Division Fourteen

Councillor name: Councillor O'Neill Division Fourteen

Division (ward): Division 14

Property location of request: 17 Larentia Street, CURRUMBIN WATERS QLD 4223

Infringement number: Street/suburb location:

Rate assessment:

Application:

Notes (if applicable)

Note date and time: 21 May 2019 8:22 AM Noted by: DIV14 - Division fourteen

Note type: 1-LODGEACT - Lodgement / action note

Note: Suzanne McLeod emailed Cr O'Neill this morning 21 May (please see email and photo paperclips). As

per her email she is adament the cause of the problem was due to recent roadworks conducted

recently between 9 and 16 Larentia Street, Currumbin Waters. Emma x7436

Note date and time: 20 May 2019 4:37 PM Noted by: 46907 - Tracey CARTWRIGHT

Note type: 1-LODGEACT - Lodgement / action note

Note: Councillor Request forwarded to Development Compliance Stormwater for investigation and action.

Note date and time: 20 May 2019 3:25 PM Noted by: DIV14 - Division fourteen

Note type: 1-LODGEACT - Lodgement / action note

Note: Suzanne Mcleod 17 Larentia Street, Currumbin Waters 0488 148 589 met with Cr O'Neill on 17 May

2019. Cr O'Neill requests investigation by Development Compliance - Stormwater officers regarding the complainants concerns about water running under her retaining wall and under her house which she believes may be as a result of recent Council roadworks in the street. Please make the necessary

arrangements and advise accordingly. Emma x7436

# CITY OF GOLDGOAST.

# Questionnaires (if applicable)

1. Please select the relevant request type

- Development Compliance Stormwater
- 2. Provide details and/or further information

References (if applicable)

## JOHNSON Kath

From:

Suzanne McLeod <skmcleod@hotmail.com>

Sent:

Monday, 20 May 2019 4:24 PM

To:

Division 14

Subject:

Suzanne Mcleod 17Larentia St Currumbin Waters

**Attachments:** 

IMG\_0633.JPG; ATT00001.txt

This email originates from outside of the City of Gold Coast. If suspicious send it to spam@goldcoast.gld.gov.au

#### Dear Gail

Thanks for seeing me on Friday 17 May and sorry I missed your call today.

Because of the continual deterioration of my property due to ground water migrating off GCCC land I have had to take action. I have contacted a structural engineer and also requesting a hydrology report from hydrologist.

I hope my photos give some indication of the problem.

The first is the road works conducted recently between Nos 9 and 16 Larentia St Currumbin Waters.

If all the photos don't come through I will use another format.

Best regards

Suzanne McLeod



## **MURPHY Emma**

From:

O'NEILL Gail

Sent:

Tuesday, 21 May 2019 11:55 AM

To:

'skmcleod@hotmail.com'

Cc:

Division 14

Subject:

RE: Suzanne Mcleod 17Larentia St Currumbin Waters

#### Hi Suzanne

I tried to give you a call this morning and left a message.

I have today updated my Councillor Request for investigation into the water problems you are experiencing in your property attaching your email below and photo attachment (I received only one photo).

My call yesterday was to give you the following information:

My Councillor Request has now been forwarded to Development Compliance Stormwater for investigation and action.

GOLDCOAST.

will contact you once I receive a response.

Regards Gail



# Councillor Gail O'Neill

Division 14

HOTOLOGIC CONTRACTOR CONTRACTOR

POTRATOR FURNISH MILENDER

Barabant Augua vartura gryssa. W zymborowed Transa. 및 Szebe k czna, i de tast cied (

----Original Message-----

From: Division 14

Sent: Tuesday, 21 May 2019 8:12 AM

To: O'NEILL Gail

Subject: FW: Suzanne Mcleod 17Larentia St Currumbin Waters

----Original Message-----

From: Suzanne McLeod [mailto:skmcleod@hotmail.com]

Sent: Monday, 20 May 2019 4:24 PM

To: Division 14

Subject: Suzanne Mcleod 17Larentia St Currumbin Waters

This email originates from outside of the City of Gold Coast. If suspicious send it to <a href="mailto:spam@goldcoast.qld.gov.au">spam@goldcoast.qld.gov.au</a>

Dear Gail

Thanks for seeing me on Friday 17 May and sorry I missed your call today.

Because of the continual deterioration of my property due to ground water migrating off GCCC land I have had to take action. I have contacted a structural engineer and also requesting a hydrology report from hydrologist.

I hope my photos give some indication of the problem.

The first is the road works conducted recently between Nos 9 and 16 Larentia St Currumbin Waters.

If all the photos don't come through I will use another format.

Best regards

Suzanne McLeod

# WATER LEAK \$.88 Information Not Relevant Removed

WATER LEAK

16.04.2019 11:27:22 AUSQLD Christopher Jilley (46207)

Plumber advised Leak is occurring near meter

Plumber advised not internal leak as numbers not moving

Not yet causing damage however customer has recently had new Stumps

installed for the house and the ground is very wet around the new stumps

18.04.2019 13:20:40 AUSQLD Tere Ngaeruaiti (45506)

Re: Noti #1000565559

Owener believes the situation has worsened and water travelling towards

her newly installed stump foundations.

Very sodden in the immediate area

Request escalation to.

18.04.19 Upgraded from a P4 to a P1. CC

Mobile status set to RECEIVED by user 38150 on 2019-04-18 15:12:00

Mobile status set to TRAVEL by user 38150 on 2019-04-19 07:02:11 for

operation 0010

Mobile status set to START by user 38150 on 2019-04-19 07:21:23 for

operation 0010

Mobile status set to TRAVEL by user 45026 on 2019-04-19 07:59:03

operation 0020

Mobile status set to START by user 45026 on 2019-04-19 07:59:07 for

operation 0020

Mobile status set to HOLD by user 45026 on 2019-04-19 07:59:10 for

operation 0020

Reason - FIRD - Further Investigation R -

Mobile status set to HOLD by user 38150 on 2019-04-19 08:02:01 for

operation 0010

Reason - FIRD - Further Investigation R -

Created from Mobile by Roberts, Trent ON 04/19/2019 08:01:53 Leak detection required notified customer, will try to get hold of leak

detection gear over the weekend

Mobile status set to START by user 45026 on 2019-04-23 06:55:10 for operation 0020

Mobile status set to COMPLETED by user 45026 on 2019-04-23 06:55:14 for operation 0020

Mobile status set to TRAVEL by user 39760 on 2019-04-23 09:55:40 for operation 0030

Mobile status set to START by user 39760 on 2019-04-23 10:48:44 for operation 0030

Mobile status set to COMPLETED by user 39760 on 2019-04-23 11:51:24 for

## s.88 Information Not Relevant Removed

Resident notified of repair today or Wednesday.

23/4/19 14.15 Direct threat to public safety because... CUSTOMER IS

CONCERNED HER STUMPS OF HER HOME MAY BE COMPRIMISED due to high water

volume going thru the basement as she is at the bottom of the hill.

Customer requests she be contacted when GCW go out as she wants to show

the basement and requests that a water m]pump be brought to the property

to pump out excess water.

Customer is dropping off childrent to school and would like to be

contacted on 0488 148 589 Suzanne McLeod. (SOG)

Mobile status set to TRAVEL by user 18517 on 2019-04-23 19:24:26 for operation 0050

Mobile status set to TRAVEL by user 32260 on 2019-04-23 19:27:04 for operation 0060

Mobile status set to START by user 18517 on 2019-04-23 19:51:14 for

operation 0050

Mobile status set to START by user 32260 on 2019-04-23 19:55:06 for operation 0060

Mobile status set to COMPLETED by user 18517 on 2019-04-23 21:25:02 for operation 0050 Created from Mobile by Kettle, Garry ON 04/23/2019 21:24:41 Repair leak raise pm 06 notifyed 17 of repair

Mobile status set to COMPLETED by user 32260 on 2019-04-23 21:29:58 for operation 0060

Mobile status set to START by user 39760 on 2019-04-24 05:51:34 for operation 0040

Mobile status set to COMPLETED by user 39760 on 2019-04-24 05:51:38 for

operation 0040

Created from Mobile by Rankin, Tony ON 04/24/2019 05:51:22 Contacted resident and advised repair would be completed either on call

or on Wednesday. Advised a sump pump may cause more damage by allowing

the groundwater from weekend rain to force its way through the area at

much higher volumes and higher flow rate causing erosion. She was happy with this so I left it to the on call crews to attend if possible.

Mobile status set to TRAVEL by user 38150 on 2019-04-24 13:03:51 for operation 0010

Mobile status set to START by user 38150 on 2019-04-24 13:03:55 for operation 0010

Mobile status set to COMPLETED by user 38150 on 2019-04-24 13:04:00 for operation 0010 29.04.2019 07:37:07 AUSQLD Grant Davis (46025) Previous Noti 1000566393

Customer was advised by previous attending crew to call back

today

29/04/2019 if conditions did not improve.

Conditions have not improved, water still pooling and entering

property. becuase of the length of this ongoing problem the customer is

now concerned of having a mould problem.

Please attend and investigate.

29.04.2019 CREW WILL ATTEND THIS MORNING TO INVESTIGATE.SC

Mobile status set to TRAVEL by user 39760 on 2019-04-29 08:43:38 for

operation 0070

Mobile status set to START by user 39760 on 2019-04-29 09:13:40 for

operation 0070

Created from Mobile by Thurlow, Mervyn ON 04/29/2019 11:29:11 Vac down on ferule cock for number 17 larentia street- found no leak &

s.88 Information Not Relevant Removed

Mobile status set to TRAVEL by user 29838 on 2019-04-29 11:34:22 for operation 0080

Mobile status set to START by user 29838 on 2019-04-29 11:34:25 for operation 0080

Mobile status set to COMPLETED by user 29838 on 2019-04-29 11:34:29 for operation 0080

Created from Mobile by Rankin, Tony ON 04/29/2019 11:34:21 \$88 Information Not Relevant Sent operation to Merv Thurlow to expose Removed service to

17 to eliminate leak.

Found no leaks in area, suspect may be ground water still s.88 Information Not Relevant Removed

Exposed short service to 17 leaks

no

found and no trench water visible. Passed on to Programmed Maintenance,

Shane Hollindale, for correlation of water main.

s.88 Information Not Relevant Removed

2L/min. Both residents informed and Smart centre emailed.

Mobile status set to HOLD by user 39760 on 2019-04-29 11:52:06 for

operation 0070

Reason - AWRE - Awaiting Resource -

Leak detection will be attending today and will contact customer

Mobile status set to START by user 46567 on 2019-05-02 07:57:06 for

operation 0110

Mobile status set to HOLD by user 46567 on 2019-05-02 07:57:11 for

operation 0110

Reason - EDOS - End of Shift -

Mobile status set to START by user 39760 on 2019-05-03 11:32:09 for

operation 0070

Mobile status set to COMPLETED by user 39760 on 2019-05-03 11:32:13 for

operation 0070

Created from Mobile by Rankin, Tony ON 05/03/2019 11:31:42 Programmed Maintenance attended and confirmed no further leaks

## s.88 Information Not Relevant Removed

06.05.2019 16:53:45 AUSQLD David Hawkins (33290)

RE:20505198, SUZANNE CALLED ON THE 4/5/19 (NO SAP) TO SAY THAT THE

GROUND IN HER YARD IS STILL VERY BOGGY AND CONCERNED THAT THERE IS STILL

A TEAK OCCUPERING COMEWHERE S.88 Information Not Relevant Removed

DAN ORGAN WORKS OFFICER WILL ATTEND SITE TO DISCUSS WITH RESIDENT

Mobile status set to TRAVEL by user 39047 on 2019-05-07 14:14:33 for operation 0120

Mobile status set to START by user 39047 on 2019-05-07 15:13:40 for operation 0120

Mobile status set to HOLD by user 39047 on 2019-05-07 16:17:01 for

operation 0120

Reason - FIRD - Further Investigation R -

Created from Mobile by Organ, Daniel ON 05/07/2019 16:16:47 Resident wasn't home - will call back around tomorrow

Mobile status set to START by user 39047 on 2019-05-08 10:34:55 for operation 0120

Mobile status set to COMPLETED by user 39047 on 2019-05-08 13:22:28 for

operation 0120

Created from Mobile by Rankin, Tony ON 05/08/2019 13:55:56 Lab sample arranged with Hapi. Email attached to notification.

Mobile status set to TRAVEL by user 30111 on 2019-05-10 08:37:21 for operation 0100

Mobile status set to START by user 30111 on 2019-05-10 08:37:25 for operation 0100

Mobile status set to COMPLETED by user 30111 on 2019-05-10 08:37:29 for operation 0100

Mobile status set to START by user 39760 on 2019-05-13 05:42:07 for operation 0130

Mobile status set to HOLD by user 39760 on 2019-05-13 08:34:09 for

operation 0130

Reason - CTHP - Called to Higher Priori -

Mobile status set to START by user 39760 on 2019-05-14 11:00:53 for operation 0130

Mobile status set to HOLD by user 39760 on 2019-05-14 12:27:25 for

operation 0130

Reason - AWSU - Awaiting Supervisor -

Created from Mobile by Rankin, Tony ON 05/14/2019 12:27:10 No further leaks found in street, groundwater as determined by lab

sample. Pooling due to poor drainage in yard.

Created from Mobile by Rankin, Tony ON 05/14/2019 14:55:38 External leak detection has been arranged with Lambert Locations.

I spoke with Ian Lambert and gave full details of works completed,

leaks, internal leaks found and repaired and lab results. He will attend

this week and provide results to us ASAP.

14.05.2019 11:49:10 AUSQLD Zinguerlet Skelton (46024) Suzeanne would like to organise a face to face meeting with gold coast

water about ongoing water leak situation. she was hoping to get a call

back from Gold Coast Water to oranise a time for the face to

meeeting so she can organise her councilor to attend. Was expecting a

call back on the 13/05/19 with no call made. P1 advised by customer

resolutions.

16.05.2019 LAMBERTS TO CORRELATE FOR FURTHER LEAK DETECTION. SAMPLE

RESULTS CAME BACK AS GROUND WATER. CUSTOMER HAS BEEN TOLD THIS. IF

CUSTOMER IS STILL UNSATISFIED SHE WILL NEED TO PUT IN AN OFFICIAL LETTER

OF COMPLAINT. AS ADVISED BY GLEN HARRIS. VIKKI FROM CUSTOMER RESOLUTION

WILL CALL CUSTOMER AND INFORM HER OF OUTCOME. SC

Mobile status set to RECEIVED by user 29838 on 18-05-2019 13:16:41

Mobile status set to START by user 46567 on 2019-05-20 10:31:53 for operation 0110

Mobile status set to COMPLETED by user 46567 on 2019-05-20 10:31:57 for operation 0110

Created from Mobile by Stokes, Jason ON 05/20/2019 10:31:39 Assisted leak detection team.

Mobile status set to START by user 34485 on 2019-05-21 06:52:37 for operation 0090

Mobile status set to COMPLETED by user 34485 on 2019-05-21

06:52:40 for operation 0090 Created from Mobile by Hollindale, Shane ON 05/21/2019 06:52:25 job was sent to Brett for leak detection and completed

## Division 14

From:

Suzanne McLeod <skmcleod@hotmail.com>

Sent:

Friday, 24 May 2019 3:18 PM Division 14: O'NEILL Gail

Cc:

Thomas

Subject:

17 Larentia St Currumbin Waters [UNSCANNED]

This email originates from outside of the City of Gold Coast. If suspicious send it to spam@goldcoast.qld.gov.au

Hello Gail and Thomas

Gail, as you can see I have requested Thomas Pugh of Aerial Engineering to visit my site, do an inspection of inundation, contact relevant officers within or outside GCCC and provide me with a report.

Unfortunately the week has ended with no progress by GCCC. The job was passed on to Mark Sullivan Development Compliance Officer, GCCC who visited my home without advising me and left his card. I contacted GCCC Thurs 23 May requesting to speak with him but not contactable. He returned my call and an onsite meeting was set for today 11.00am.

He arrived at 10.30 (again I could have been out) looked at the inundation and said my problem is not his department - GCCC sent the wrong department. He said his work is to look at water coming off house

gutters!!

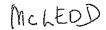
As yet I have not received the GCCC internal communications as promised last Friday.

As you can see, GCCC have not taken my problem seriously enough to progress the issue to the correct depart.

Can I request you both contact me next week. Regards and wishing you a good weekend.

Suzanne McLeod

S K McLeod mob 0488 148 589



### Division 14

From:

Aerial Engineering <aerialeng@bigpond.com>

Sent:

Monday, 27 May 2019 5:44 PM

To:

Division 14; O'NEILL Gail

Cc:

'Suzanne McLeod'

Subject:

Water Inundation - 17 Larentia St Currumbin Waters

Attachments:

IMG\_6429.JPG; IMG\_6413.JPG; IMG\_6425.JPG

This email originates from outside of the City of Gold Coast. If suspicious send it to spam@goldcoast.qld.gov.au

Hi Gail,

As noted below, I have been asked by Suzanne McLeod to have a look at the water inundation issues with her property.

When I visited the property on the Wednesday 22<sup>nd</sup> May 2019, I found areas of the front yard to be absolutely saturated under-foot, with Stagnant Surface Water in places. In addition the sub-floor area under the Upper section of the House had water leeching through the soil embankment and ponding behind the bedroom walls of the Dwelling's Downstairs area. I've attached some photo for reference.

I am very concerned about possible footing subsidence due to the amount of water coming through the Retaining Wall at the front of the property, and subsequently the soil embankment supporting the buildings foundations.

The Council Officers that Suzanne have been dealing with believe that any water problems are due to a leak on Suzanne's side of the Water Meter/Boundary. However, Oceanside Plumbing have inspected the Water Meter and carried out a Pressure Test (16/04/2019) on the dwelling side of the meter with no leakage detected.

Council Staff have recently done some work to the Water Main upstream from Suzanne's property (23/04/2019 - Outside Number 19 Larentia Street) but this does not appear to have remedied the situation.

Gail can you please look into this matter, as I am very concerned about the potential damage to the Building's foundations from the amount of water found, and also the associated health issues from the stagnant water in the front yard and water ponding against the Walls of the Downstairs bedrooms.

Kind Regards

Thomas Pugh B.Eng (Civil) MIEAust CPEng RPEQ Aerial Engineering Pty Ltd

M: 0412 451 051

E: aerialeng@bigpond.com tompugh@bigpond.com



Gail, as you can see I have requested Thomas Pugh of Aerial Engineering to visit my site, do an inspection of inundation, contact relevant officers within or outside GCCC and provide me with a report.

Unfortunately the week has ended with no progress by GCCC. The job was passed on to Mark Sullivan Development Compliance Officer, GCCC who visited my home without advising me and left his card. I contacted GCCC Thurs 23 May requesting to speak with him but not contactable. He returned my call and an onsite meeting was set for today 11.00am.

He arrived at 10.30 (again I could have been out) looked at the inundation and said my problem is not his department - GCCC sent the wrong department. He said his work is to look at water coming off house

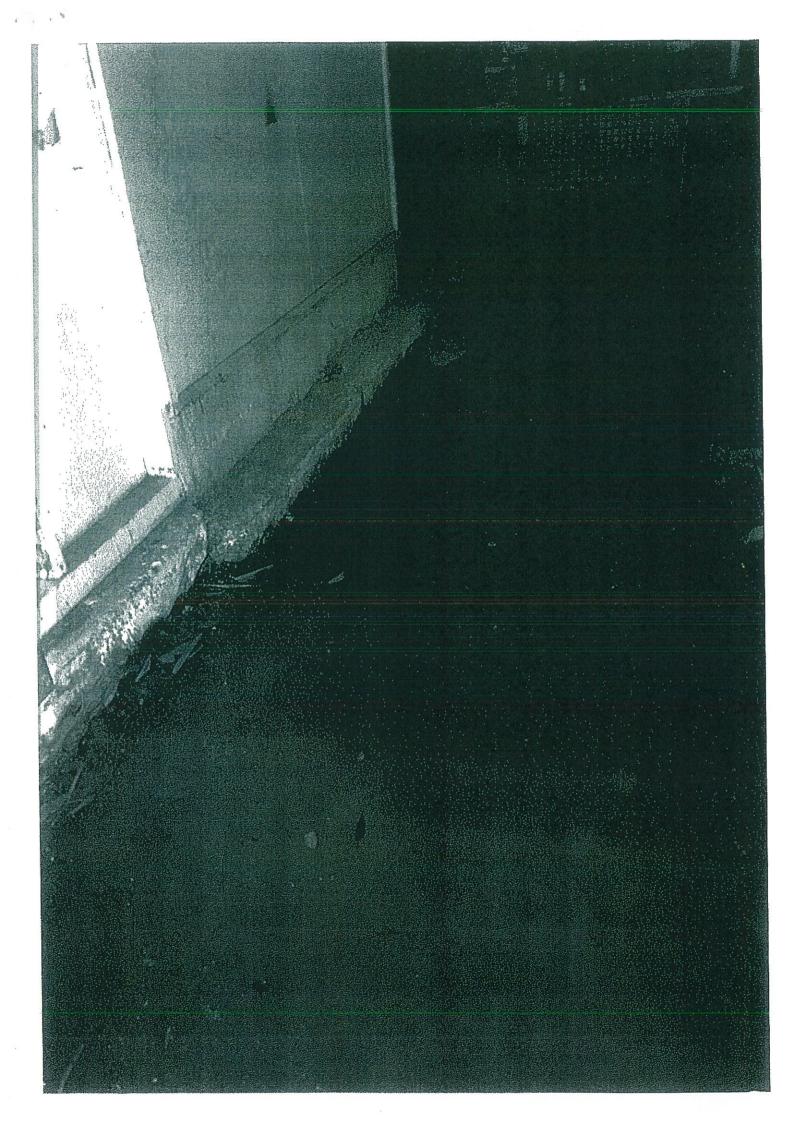
gutters!!

As yet I have not received the GCCC internal communications as promised last Friday.

As you can see, GCCC have not taken my problem seriously enough to progress the issue to the correct depart.

Can I request you both contact me next week. Regards and wishing you a good weekend. Suzanne McLeod

S K McLeod mob 0488 148 589







# CITY OF GOLDCOAST.

361137

# Customer request summary

Print date: 29/05/2019 10:24 AM

Request details

Request number:

361137

Date entered:

29 May 2019 10:22 AM

Date received:

29 May 2019 10:22 AM

Due date: 3 July 2019 10:22 AM

Request type code:

CR07 - Water and Waste

Receiving officer:

DIV14 - Division fourteen

Responsible officer:

DIRGCW - Director, Gold Coast Water and Waste

Actioning officer:

CMT - Customer Management Team

Contact method:

CR - Councillor initiated

Customer type:

CLR - Councillor

Request status:

NEW - New Request

Completion date:

Date responded:

Time taken:

Priority:

5

Available to public:

No

Module links (if applicable)

Customer name:

Mrs Suzanne McLeodCouncillor O'Neill Division Fourteen

Councillor name:

Councillor O'Neill Division Fourteen

Division (ward):

Division 14

Property location of request:

17 Larentia Street, CURRUMBIN WATERS QLD 4223

Infringement number:

Street/suburb location: Rate assessment:

Application:

Licence:

Notes (if applicable)

Note date and time: 29 May 2019 10:22 AM

Noted by:

DIV14 - Division fourteen

Note type:

1-LODGEACT - Lodgement / action note

Note:

Cr O'Neill requests Gold Coast Water investigate pooling of water on resident Suzanne McLeod's property 17 Larentia Street, Currumbin Waters 0488 148 589. Original Councillor Request #354772 was referred to Development Compliance. Cr O'Neill met with Development Complaince and the

Councillor can be contacted for more information on x7315. Emma x7436

Questionnaires (if applicable)

1. Please select the relevant request type

Other

CITY OF GOLDCOAST.

References (if applicable)



361137

Due date: 3 July 2019 10:22 AM

## Customer request summary

Print date: 29/05/2019 2:58 PM

Request details

Request number:

361137

Date entered:

29 May 2019 10:22 AM

Date received:

29 May 2019 10:22 AM

Request type code:

CR07 - Water and Waste

Receiving officer:

DIV14 - Division fourteen

Responsible officer:

DIRGCW - Director, Gold Coast Water and Waste

Actioning officer:

DIV14 - Division fourteen

Contact method:

CR - Councillor initiated

Customer type:

CLR - Councillor

Request status:

INP - In progress

Completion date:

Date responded:

Time taken:

riority:

5

Available to public:

No

## Module links (If applicable)

Customer name:

Mrs Suzanne McLeodCouncillor O'Neill Division Fourteen

Councillor name:

Councillor O'Neill Division Fourteen

Division (ward):

Division 14

Property location of request:

17 Larentia Street, CURRUMBIN WATERS QLD 4223

Infringement number:

Street/suburb location:

Rate assessment:

Application:

Licence:

## Notes (if applicable)

Note date and time: 29 May 2019 2:14 PM

Noted by:

38629 - Priva SINGH

Note type:

1-LODGEACT - Lodgement / action note

Note:

Water and Waste have undertaken extensive leak detection at 17 Larentia Street, Currumbin Waters. No water leaks have been found which would contribute to the pooling of water. A sample of the water was tested by the lab which indicated that the source of the seepage is likely to be from a natural source i.e. stormwater, groundwater, etc. Refer to iSpot# 73416477 for the lab report. To understand the report, you will notice that Chlorine and Total Trihalomethanes (THM) were not detected which is an indicator that the sample tested is not potable water.

Below is a summary of the works carried out by WW (SAP work order 20505198)

16/04/2019 - Water leak reported. Leak detection found leak at 19.

24/4/2019 - Leak repaired at 19. 17 notified.

29/4/2019 - Further leak detection - no leak found. s.88 Information Not Relevant Removed Exposed short service to 17 s.88 Information Not Relevant Removed

short service to 17

s.88 Information Not

3/05/2019 - Programmed Maintenance (WW) conducted further leak detection. Confirmed no leaks in the area.

Customer request summary - request number: 361137

Page 1 of 2



8/5/2019 - Water sample tested which indicated possible groundwater. 14/5/2019 - Lambert Locations (external leak detection) found no leaks.

A possible reason for pooling is due to poor drainage in the yard. A suggestion is to have Plumbing and Drainage investigate the matter.

Note date and time: 29 May 2019 2:14 PM

Noted by:

38629 - Priya SINGH

Note type:

1-LODGEACT - Lodgement / action note

Note:

Water and Waste have undertaken extensive leak detection at 17 Larentia Street, Currumbin Waters. No leaks have been found which would contribute to the pooling of water. A sample of the water was tested by the lab which indicated that the source of the seepage is likely to be from a natural source i.e. stormwater, groundwater, etc. Refer to iSpot# 73416477 for the lab report. To understand the report, you will notice that Chlorine and Total Trihalomethanes (THM) were not detected which is an indicator that the sample tested is not potable water.

Below is a summary of the works carried out by WW (SAP work order 20505198)

16/04/2019 - Water leak reported. Leak detection found leak at 19.

24/4/2019 - Leak repaired at 19, 17 notified.

29/4/2019 - Further leak detection - no leak found. s.88 Information Not s.88 Information Not Relevant Removed

s.88 Information Not Relevant Removed

Relevant Removed

3/05/2019 - Programmed Maintenance (WW) conducted further leak detection. Confirmed no leaks in

8/5/2019 - Water sample tested which indicated possible groundwater. 14/5/2019 - Lambert Locations (external leak detection) found no leaks.

A possible reason for pooling is due to poor drainage in the yard. A suggestion is to have Plumbing and Drainage investigate the matter.

Note date and time: 29 May 2019 10:22 AM

Noted by:

DIV14 - Division fourteen

Note type: Note:

1-LODGEACT - Lodgement / action note

Cr O'Neill requests Gold Coast Water investigate pooling of water on resident Suzanne McLeod's

property 17 Larentia Street, Currumbin Waters 0488 148 589. Original Councillor Request #354772 was referred to Development Compliance. Cr O'Neill met with Development Complaince and the

Councillor can be contacted for more information on x7315. Emma x7436

## Questionnaires (if applicable)

1. Please select the relevant request type

Other

References (if applicable)



Waters	
Currumbin	
Street,	•
Larentia	
17	

			Results		Water q	Water quality - potable water	ible water	
		9/05/2019	Comment	Mean	Median	Minimum	Maximum	95%ile
Ammonia (as NH <sub>3</sub> )	ma/L	0.244		0.012	0.009	< 0.006	0.041	< 0.006
Chlorine Free	mg/L	<0,05 The	<0.05 The value is lower than the typical quality of potable water	0.49	0.47	< 0.05	1.8	1.1
Chlorine Total	mg/L	<0.05						
Fluoride (Total)	ma/L	0.4		0.78	0.8	0.3	0.9	6.0
Iron (Total)	ma/L	0.2		0.014	< 0.01	< 0.01	0.13	
Manganese (Total)	mg/L	F.0		0.0021	0.001	< 0.001	0.16	0.00%
Nitrate as (NO <sub>3</sub> )	mg/L	<2:658		0.34	0.24	0.015	2.4	0.887
Alkalinity	ma/L	58 The	58 The value is within the typical quality of potable water	41.8	40	30	61	54
Conductivity	mS/cm	0.232 The	0232 The value is within the typical quality of potable water.	0.277	0.27	0.149	0.525	0.406
Ho		7.3 The	7/3 The value is within the typical quality of potable water.	7.47	7.4	6.5	9.5	4.9
Bromodichloromethane	ma/L	<0.005						
Bromoform	mg/L	<0:005						
Chloroform	mg/L	<0.0005						
Dibromochloromethane	l mg/L	<0.005		- 1	1		1	
Total Trihalomethanes	mg/L		<0.005 The value is lower than the typical quality of potable water	0.085	0.084	0.034	0.15	0.133
E.coli (Colilert)	cfu/100mL	< 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100  < 100		\ \	Ÿ	۲ ×	10	99395%
Orthophoshate phosphorous	mg/L	× 20:4						

Note: The results indicate that the source of the seepage is likely to be from a natural source i.e. groundwater, stormwater, etc.

Ammonia ı Coversion Ammonia ı Nitrate nitr Coversion Nitrate as (NO<sub>3</sub>) 9/05/2019 0.2 1.22 0.244 0.6 4.43 2.658

Interconverting Nitrate as Nitrate (Nitrate-NO3) and Nitrate as Nitrogen (Nitrate-N)

The atomic weight of nitrogen is 14.0067 and the notar mass of nitrate anion (NO<sub>3</sub>) is  $62.0049 \; \text{g/mole}$ 

Therefore, to convert Nitrate-NO3 (mg/L) to Nitrate-N (mg/L):

Nitrate-N (mg/L) =  $0.2259 \times \text{Nitrate-NO3 (mg/L)}$ 

And to convert Nitrate-N (mg/L) to Nitrate-NO3 (mg/L):

Nitrate-NO3 (mg/L) = 4.4268 x Nitrate-N (mg/L)

Intercoverting Ammonia Nitrogen to Ammonia (as NH3)

Ammonia Nitrogen = 0.8333 x Ammonia (as NH3)

Ammonia (as NH3) = 1.22 x Ammonia Nitrogen