

Akaroa Wastewater Treatment Plant Annual Monitoring Report 07/2014 - 06/2015

Prepared by: City Care Ltd

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On behalf of:

Christchurch City Council, City Water & Waste Unit

25 August 2015





Resource Consent Number: CRC133179 (replaces CRC071865.1)

File Number: CO6C/01282

Client Name: Christchurch City Council (City Solutions)

To: To discharge contaminants into the Coastal Waters. **Consent Location:** Red House Bay, Beach Road, AKAROA HARBOUR

State: Current

Events:

8/09/2013 Commencement Date 8/09/2020 Consent Expires

8/09/2020 Lapse Date if not Given Effect To

The discharge shall be only treated wastewater from the Akaroa Wastewater Treatment Plant (WWTP), located at Redhouse Bay, Akaroa Harbour at or about map reference (NZMG) NZMS 260: N37: 0569-0984; (NZTM) Topo 50: BY25:9568-4825, as shown on Plan CRC133179A, which forms part of this consent.

Compliance

Treated wastewater from the Akaroa Wastewater Treatment Plant shall be discharged into Akaroa Harbour via an existing 100 metre long submerged outfall at or about map reference (NZMG) NZMS 260: N37: 0558-0991; (NZTM) Topo 50: BY25:9558-4831, as shown on Plan CRC133179A.

Compliance

Warning notices, which can be read from a distance of five metres, shall be erected and maintained at the following locations: On the shoreline 400 metres either side of the point on the shoreline nearest the outfall, and Beside Beach Road adjacent to the rocks that lead out to Green Point. The warning notices shall advise the public of the existence of a wastewater outfall and the dangers of swimming in the area or eating shellfish collected in that location.

Compliance

4 a. The volume of wastewater discharged from the Akaroa Wastewater Treatment Plant shall be continuously recorded using a flow meter.

b. The readings from the flow meter shall be recorded in litres per second and shall be used to calculate the daily volume of wastewater discharged from the treatment plant. These daily volumes shall be recorded and used to determine compliance with Condition (5).

Compliance (Attachment 1)

The volume of treated wastewater discharged shall not exceed 750 cubic metres per day, except during rainfall events of a total of 50 millimetres or more over three consecutive days.

Note: For the purposes of this condition, the rainfall shall be that measured at the Akaroa EWS weather station operated by NIWA (Agent number = 36593).

Non-compliant (Attachments 1.1 and 2.1, 2.2); >750m³ recorded on the 23/07/14 following total of 45 millimetres rainfall depth over the three consecutive days.

Treated wastewater shall be sampled after treatment and prior to discharge into Akaroa Harbour via the outfall. The samples shall be grab samples collected at the frequencies specified, and analysed for the contaminants listed in Table 1: Treated wastewater quality monitoring – contaminants and sampling frequency Weekly (1 Dec-28 Feb) Faecal coliforms, enterococci, total suspended solids (TSS), total five day biochemical, oxygen demand (BOD5), dissolved reactive phorphorous (DRP), ammonia, Nitrogen oxides (NOx), total phosphorus (TP), Total nitrogen (TN), temperature Monthly (between 1 Mar and 30 Nov) Faecal coliforms, enterococci, total suspended solids (TSS), BOD5, DRP, ammonia, NOx, TP, TN, temperature Annually (during Jan) lead, copper, chromium, cadmium, zinc

Compliance (Attachment 3.1)

Sampling shall be undertaken in accordance with the sampling schedule in Conditions (6), (12) and (16). The schedule shall seek to incorporate sampling during times with variable environmental parameters listed in Condition (20) (b) to (d) This schedule is to be agreed with the Canterbury Regional Council's RMA Compliance and Enforcement Manager within one month of the commencement of this consent.

Compliance

8 The median concentration of faecal coliforms in the treated wastewater shall not exceed 1,000 per 100 millilitres

Non-compliant (Attachment 3.1); one exceedance in December 2014 (1875 FC), and three exceedances in January 2015 (1875, 1875, 1845).

9 The consent holder shall use the best practicable option to ensure the median concentration of BOD5 and TSS does not exceed 30 grams per cubic metre

Compliance (Attachment 3.1); maximum medians were 6.9 mg/L BOD₅ and 14.0 mg/L TSS

For the purposes of conditions (8) and (9) the median shall be calculated from the results of any five consecutive treated wastewater samples analysed

Compliance (Attachment 3.1)

- The receiving water shall be sampled and analysed for faecal coliforms and enterococci at the following locations, as shown on Plan CRC133179B, which forms part of this consent:
 - a. At the shoreline nearest the outfall;
 - b. 400 metres along the shoreline in a southerly direction from Site (a); and
 - c. 400 metres along the shoreline in a northerly direction from Site (a).

Compliance (Attachment 3.2)

Receiving water sampling and analysis for faecal coliforms and enterococci concentrations shall occur at least weekly between 1 December and 28 February each year and at least monthly for faecal coliforms between 1 March and 3 November each year. Receiving water sampling shall occur within six hours of treated wastewater sampling.

Compliance (Attachment 3.2)

- 13 In the event that the analysis of receiving water samples collected at each site beyond the 250 metre mixing zone in accordance with Conditions (11) and (12) indicates:
 - a. A concentration of faecal coliforms that exceeds a rolling median of 14 faecal coliforms per 100 millilitres from the previous five samples collected in the period 1 December to 28 February each year, the consent holder shall notify the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of detecting the exceedence;
 - b. That the concentration of the faecal coliforms in more than ten percent of total samples collected between 1 December and 28 February each year exceeds 43 faecal coliforms per 100 millilitres, the consent holder shall notify the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of detecting the exceedance.

Compliance; ECAN was notified of three exceedances of the trigger levels. 7.7% of all summer samples > 43 cfu/100 ml

The notification required under Condition (13) shall include the information required to be collected in Condition (20) and shall identify whether the exceedance is likely to have resulted from wastewater discharged from the Akaroa Wastewater Treatment Plant and if so, shall detail what measures the consent holder has implemented or will implement to mitigate any adverse environmental effects as a result of the exceedance, and to prevent a reoccurrence.

Compliance ECAN was notified

- Grab samples of the receiving water shall be collected and analysed for temperature, Total Nitrogen (TN), Dissolved Inorganic Nitrogen (DIN, calculated as NOx + ammonia), Total Phosphorus (TP), chlorophyll-a and Dissolved Reactive Phosphorus (DRP) at the following locations as shown on Plan Consent detail CRC133179C, which forms part of this consent:
 - a. 250 metres due north of the outfall;
 - b. 250 metres due west of the outfall;
 - c. 250 metres due south of the outfall;
 - d. A control site located at or about map reference (NZMG) NZMS 260: N36:0592-1117; (NZTM) Topo 50: BY25:959-4958, located in French Bay; and
 - e. A control site located at or about map reference (NZMG) NZMS 260: N36:0472-1056; (NZTM) Topo 50: BY25:9471-4897, [potential site of long term outfall].

Compliance (Attachment 3.3)

16 The receiving water sampling and analysis carried out in accordance with Condition (15) shall occur once every three

weeks between 1 December and 28 February each year such that a total of four samples are taken over the summer

period. Receiving water sampling shall occur within six hours of treated wastewater sampling.

Compliance (Attachment 3.3)

17 For individual sampling events (as detailed in Condition (16)), if the analysis of receiving water samples

collected in accordance with Conditions (15) (a) to (c) indicates trigger values of:

- a. Dissolved inorganic nitrogen (DIN) (combined total of NOx and ammonia) that exceeds a median of 0.062 milligrams per litre (mq/L);
- b. Dissolved reactive phosphorus (DRP) that exceeds a median of 0.018 mg/L; and
- c. Ammonia that exceeds a maximum of 0.910 mg/L:

the consent holder shall identify whether the Akaroa Wastewater Treatment Plant is operating abnormally and if so, shall record what measures the consent holder has implemented or will implement to return the Akaroa Wastewater Treatment Plant to normal operation, and to prevent a reoccurrence.

Compliance (Attachment 3.3)

Within one month of the end of the monitoring period required by Condition (16), the consent holder shall notify the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager if the trigger values specified in Condition (17) were exceeded.

This notification shall include the information required to be collected in Condition (20) and shall identify whether the Consent detail exceedence is likely to have resulted from wastewater discharged from the Akaroa Wastewater Treatment Plant and if so, shall detail what measures the consent holder has implemented or will implement to mitigate any adverse environmental effects as a result of the exceedence, and to prevent a reoccurrence.

Compliance

- **19** All wastewater and receiving environment samples shall:
 - a. be collected by a suitably qualified or experienced person; and
 - b. be analysed at a laboratory accredited for the analyses to ISO guide 25, either by International Accreditation New Zealand (IANZ), or by an organisation with a mutual agreement with IANZ.

Compliance

- At the time the wastewater and receiving environment samples are collected, the following parameters shall be recorded;
 - a. time and date of sampling and time delay between wastewater and receiving environment samples collection;
 - b. the precipitation over the three consecutive days prior to sampling;
 - c. the tidal state in the receiving environment at the time of sampling in the receiving environment; and
 - d. wind direction and strength.

Compliance (Attachment 3.3)

The consent holder shall submit to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, any sampling results required by this consent during each month by the 10th working day of the following month.

Compliance via this report

- The consent holder shall submit to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, an annual report prepared by a suitably qualified person by 31 August each year which includes, but is not limited to the following:
 - a. Results of the monitoring undertaken in the previous year from 1 July to 30 June;
 - b. An analysis of monitoring results against limits and trigger values specified in Conditions (8), (9), (13) and (17) of this consent;
 - c. A comparison of monitoring results for control sites and sites on the edge of the mixing zone for parameters as specified in Conditions (15) to (17).
 - d. An analysis of the extent of correlation between the receiving water monitoring results and treated wastewater monitoring results, as required in Conditions (6), (11), (12), (15) and (16). This shall include an assessment of the information collected for Condition (20), its impact on the results and any changes to the sampling regime as a result of this analysis that have been agreed with Canterbury Regional Council;
 - e. Comparison of monitoring results as required in Conditions (6), (11), (12), (15) and (16) with historical data;
 - f. Comparison of the monitoring results required in Conditions (6), (11), (12), (15) and (16). with operation and performance issues from the WWTP; Consent detail
 - g. An interpretation of the results in relation to the effects of the discharge on the environment;
 - h. Identification of any measures taken to remedy any exceedences;
 - i. Details of all changes or upgrades to the treatment plant that may affect the quality or volume of treated wastewater discharged; and
 - j. Summary of any inflow and/or infiltration investigations or works undertaken in the reporting period.

See below

Copies of all monitoring results and reports relating to the discharge from the Akaroa Wastewater Treatment Plant shall be made available to the community via the Akaroa Service Centre and the Christchurch City Council website.

CCC to follow up

- The consent holder shall submit to the Canterbury Regional Council, within six months of the grant of this consent, a management plan that details;
 - a. measures that will be taken to ensure compliance with the consent limits specified in this consent relating to treated wastewater, as specified in Condition (8) and (9) and receiving environment microbiological parameters specified in Condition (13); and;
 - b. Contingency measures in response to mechanical or electrical failures.

Compliance

25 The consent shall be exercise in accordance with the management plan.

Compliance

- **26** The consent holder shall achieve the following milestones within the term of this consent:
 - a. Lodge all applications for the approvals under the Resource Management Act 1991 required to commission the new Akaroa Wastewater Treatment Plant no later than 30 June 2014;
 - b. Award contracts for the construction of the new Wastewater Treatment Plant within eight calendar months of the commencement of the resource consents sought under clause (a) of this condition;
 - c. Require contractors to commence construction on the site of the new Wastewater Treatment Plant within nine months of awarding the contracts under clause (b) of this condition;
 - d. To have a fully operational new Wastewater Treatment Plant within 36 months of awarding the contracts under clause (b) of this condition.

CCC to follow up

The discharge from Akaroa WWTP at or about map reference (NZMG) NZMS 260: N37: 0558-0991; (NZTM) Topo 50: BY25:9558-4831, shall cease no more than five years following the commencement of Coastal Permit CRC133179. The consent holder shall submit an annual progress report to the Canterbury Regional Council by the 31 August each year detailing progress made towards meeting the deadline for cessation of the discharge and the clauses of Condition (26).

CCC to follow up

- The Canterbury Regional Council may, on any of the last five working days of May or November each year, serve notice of its intention to review the conditions of this consent for the purposes of:
 - a. dealing with any adverse effects on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage;
 - b. requiring the adoption of the best practicable option to remove or reduce any adverse effects on the environment; requiring the consent holder to conduct monitoring instead of, or in addition to, that required by the consent; and
 - c. complying with the requirements of a relevant rule in an operative regional plan.

ECAN to request

Treatment Plant Effluent Monitoring

Flows into the Akaroa Wastewater Treatment Plant (WWTP) were heavily impacted by heavy rain and stormwater on the 23/07/14 causing discharge in excess of the $750-m^3/d$ dry weather maximum. For this event, 45 mm of rainfall was received over three consecutive days (Attachment 2.1). No exceedance of the $3,000-m^3/d$ wet weather maximum applied and flows were compliant. Lower flows were recorded through the plant than the previous reporting period (i.e., $103,064~m^3$ in 2013-2014 vs. $79,046~m^3$ in 2014-2015) the 95^{th} percentile for flow recorded at $400~m^3/d$ (down from $470m^3/d$ in 2013/2014) (Attachment 1).

Plant performance relating to organic parameters BOD_5 , TSS, was very good with no exceedances above the 30-mg/L median limits for effluent quality (Table 1).

Four faecal coliform (FC) exceedances were recorded over the summer period when an increased loading was received at the plant considered to coincide with the high summer seasonal holiday population.

A new consent was granted in 2013 (CRC133179) which we are now working under and reporting on.

Receiving Environment Monitoring

Some trigger limits were exceeded for human-health related parameters (Attachment 3.2). An average of 6.2% of FC samples were >43 CFU/100mL. All location medians were <14 CFU/100mL FC.

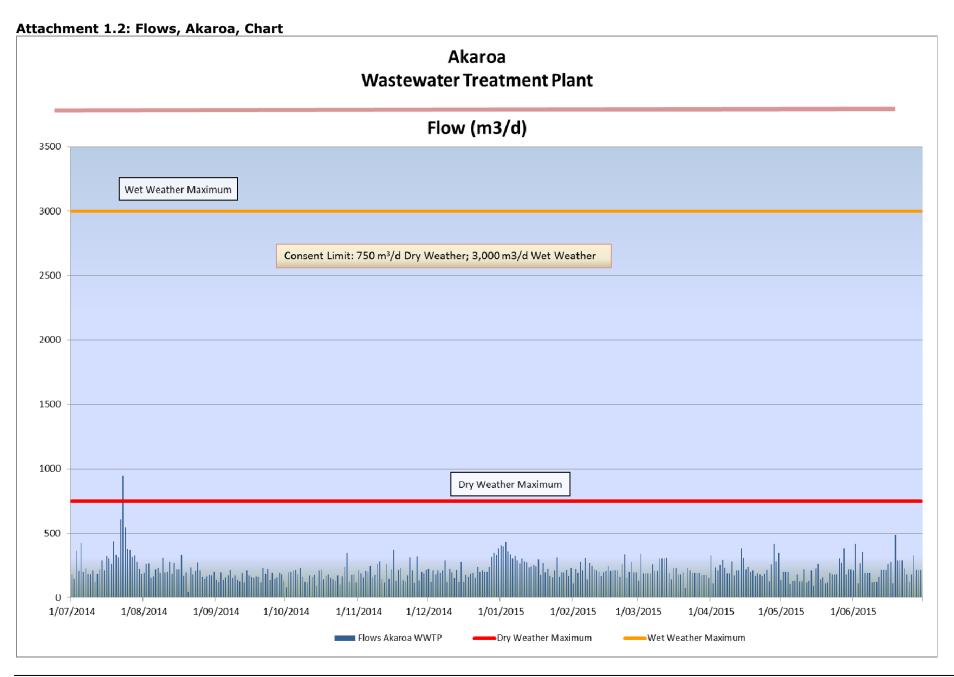
Nutrient data gathered from the receiving environment did not exceed trigger values at any locations for NOx (Attachment 3.3). This represents an improvement compared to 2012/2013 when 3 medians were exceeded.

Table 1. Summary of Monitoring Non-Compliances from July 2013-June 2014.

Treatm	ent Plant Efflu	ent	
Parameter	Single Samples Exceeding Limit	Median Limit Exceedances	Condition Non- Compliances
Dry Weather Flow < 750 m3/d	1	-	1
Wet Weather Flow < 3,000 m3/d	0	-	1
$BOD_5 < 30 \text{ mg/L}$	0	0	0
TSS < 30 mg/L	0	0	U
FC < 1,000 CFU/100 mL	6	4	6
Receiv	ing Environme	nt	
Parameter	Single Samples Exceeding Limit	Median Limit or % Exceedances	Condition Non- Compliances
Summer FC < 14 CFU/100 mL	4	0	4
<10% Summer FC > 43 CFU/100 mL	4	0	7
DIN < 0.062 mg/L	0	0	
DRP median < 0.018 mg/L	0	0	0
NH3 median < 0.910 mg/L	0	0	

Attachment 1.1: Flows, Akaroa, Data

Date Flow 1/07/2014 1/07/2014 3/07/2014 4/07/2014 4/07/2014 5/07/2014 6/07/2014 6/07/2014 6/07/2014 6/07/2014 6/07/2014 1/	[m³/d] 180 180 180 361 203 426 201 228 185 180 212 124 220 289 326 307 262 440 332 313 608 946 548 377 370 317 328 226 184 191 191 262 264	Date 1/10/2014 2/10/2014 3/10/2014 4/10/2014 5/10/2014 6/10/2014 6/10/2014 7/10/2014 8/10/2014 10/10/2014 11/10/2014 11/10/2014 12/10/2014 13/10/2014 13/10/2014 15/10/2014 15/10/2014 15/10/2014 15/10/2014 20/10/2014 20/10/2014 20/10/2014 21/10/2014 22/10/2014 22/10/2014 23/10/2014 24/10/2014 25/10/2014 25/10/2014 26/10/2014 28/10/2014 28/10/2014 28/10/2014	Flow [m³/d] 80 198 202 214 218 182 233 159 125 114 172 162 219 466 170 181 152 145 134 173 98 166 239	Date 1/01/2015 2/01/2015 3/01/2015 3/01/2015 5/01/2015 5/01/2015 7/01/2015 7/01/2015 7/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 1/01/2015 2/01/2015	Flow [m³/d] 404 402 436 336 337 326 291 263 305 280 273 238 243 254 246 296 177 270 197 224	1/04/2015 2/04/2015 3/04/2015 4/04/2015 5/04/2015 5/04/2015 7/04/2015 7/04/2015 10/04/2015 11/04/2015 11/04/2015 12/04/2015 14/04/2015 15/04/2015 18/04/2015 18/04/2015 19/04/2015 19/04/2015 20/04/2015 20/04/2015	Flow [m³/d] 328 108 238 214 254 292 233 187 187 283 174 207 207 383 310 221 240 202 2100
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20/07/2014 21/07/2014 21/07/2014 22/07/2014 23/07/2014 23/07/2014 25/07/2014 25/07/2014 25/07/2014 26/07/2014 27/07/2014 28/07/2014 28/07/2014 29/07/2014 30/07/2014 31/07/2014 31/07/2014 31/08/2014 3/08/2014 3/08/2014 4/08/2014 5/08/2014 9/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 12/08/2014 12/08/2014 12/08/2014 12/08/2014 13/08/2014 15/08/2014 25/08/2014	332 313 608 946 548 377 370 317 328 275 226 184 191 262 264	20/10/2014 21/10/2014 22/10/2014 23/10/2014 24/10/2014 25/10/2014 26/10/2014 27/10/2014 28/10/2014 29/10/2014	152 145 134 173 98 166	20/01/2015 21/01/2015 22/01/2015 23/01/2015	197 224 169	20/04/2015	
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27/07/2014 28/07/2014 28/07/2014 30/07/2014 30/07/2014 31/07/2014 1/08/2014 1/08/2014 1/08/2014 3/08/2014 4/08/2014 5/08/2014 5/08/2014 1/09/2014 1/09/2014	317 328 275 226 184 191 262 264	27/10/2014 28/10/2014 29/10/2014	239	25/01/2015	315	25/04/2015	218
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29/07/2014 30/07/2014 30/07/2014 17/08/2014 27/08/2014 27/08/2014 37/09/2014 37/09/2014	275 226 184 191 262 264	29/10/2014	351	27/01/2015	198	27/04/2015	255
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1/08/2014 2/08/2014 2/08/2014 3/08/2014 4/08/2014 4/08/2014 5/08/2014 6/08/2014 6/08/2014 9/08/2014 1/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 12/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 23/08/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014 25/09/2014	191 262 264	31/10/2014	119	31/01/2015	232	1/05/2015	140
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6/08/2014 7/08/2014 7/08/2014 8/08/2014 9/08/2014 10/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 13/08/2014 13/08/2014 15/08/2014 15/08/2014 15/08/2014 15/08/2014 15/08/2014 12/08/2014 12/08/2014 12/08/2014 22/08/2014 22/08/2014 22/08/2014 23/08/2014 23/08/2014 25/08/2014 25/08/2014 26/08/2014 27/08/2014 17/08/2014 28/08/2014 28/08/2014 29/08/2014 26/08/2014 26/08/2014 27/08/2014 30/08/2014 1/09/2014 5/09/2014 4/09/2014 5/09/2014 1/09/2014 5/09/2014 1/09/2014		4/11/2014	206	4/02/2015	275	5/05/2015	105
7/08/2014 8/08/2014 8/08/2014 10/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 11/08/2014 15/08/2014 15/08/2014 15/08/2014 15/08/2014 17/08/2014 18/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 23/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 1/09/2014 3/09/2014 3/09/2014 1/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	163	5/11/2014	200	5/02/2015	213	6/05/2015	134
8/08/2014 9/08/2014 1/08/2014 11/08/2014 11/08/2014 12/08/2014 13/08/2014 13/08/2014 14/08/2014 15/08/2014 16/08/2014 16/08/2014 19/08/2014 20/08/2014 20/08/2014 22/08/2014 22/08/2014 22/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 26/08/2014 27/08/2014 27/08/2014 27/08/2014 26/08/2014 27/08/2014 27/08/2014 30/08/2014 30/08/2014 1/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014	221	6/11/2014	250	6/02/2015	308	7/05/2015	133
9/08/2014 10/08/2014 11/08/2014 11/08/2014 11/08/2014 13/08/2014 13/08/2014 13/08/2014 15/08/2014 15/08/2014 15/08/2014 15/08/2014 16/08/2014 17/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 22/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 10/09/2014 30/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 25/09/2014 31/08/2014 31/08/2014 1/09/2014 5/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014	233 193	7/11/2014 8/11/2014	156 176	7/02/2015 8/02/2015	143 270	8/05/2015 9/05/2015	179 129
10/08/2014 11/08/2014 11/08/2014 12/08/2014 13/08/2014 14/08/2014 15/08/2014 16/08/2014 17/08/2014 17/08/2014 18/08/2014 19/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 26/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 29/08/2014 29/08/2014 10/09/2014 30/08/2014 1/09/2014 30/08/2014 1/09/2014	308	9/11/2014	262	9/02/2015	249	10/05/2015	129
11/08/2014 12/08/2014 12/08/2014 13/08/2014 14/08/2014 15/08/2014 15/08/2014 15/08/2014 16/08/2014 16/08/2014 17/08/2014 19/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 25/08/2014 25/08/2014 26/08/2014 26/08/2014 27/08/2014 28/08/2014 10/09/2014 30/08/2014 30/08/2014 30/08/2014 30/08/2014 1/09/2014 1/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	195	10/11/2014	282	10/02/2015	221	11/05/2015	220
13/08/2014 14/08/2014 14/08/2014 15/08/2014 15/08/2014 17/08/2014 17/08/2014 18/08/2014 18/08/2014 18/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 27/08/2014 27/08/2014 27/08/2014 29/08/2014 3/08/2014 3/08/2014 3/09/2014 3/09/2014 3/09/2014 5/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	200	11/11/2014	143	11/02/2015	209	12/05/2015	117
14/08/2014 15/08/2014 15/08/2014 16/08/2014 17/08/2014 18/08/2014 19/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 26/08/2014 26/08/2014 29/08/2014 29/08/2014 30/08/2014 1/09/2014 30/08/2014 29/09/2014 30/08/2014 29/09/2014 1/09/2014 1/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	279	12/11/2014	118	12/02/2015	201	13/05/2015	132
15/08/2014 16/08/2014 16/08/2014 17/08/2014 19/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 25/08/2014 25/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 1/09/2014 3/09/2014 5/09/2014 5/09/2014 5/09/2014 5/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 10/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014	184	13/11/2014	261	13/02/2015	168	14/05/2015	210
16/08/2014 17/08/2014 17/08/2014 18/08/2014 20/08/2014 21/08/2014 21/08/2014 22/08/2014 23/08/2014 23/08/2014 25/08/2014 25/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 29/08/2014 30/08/2014 1/09/2014 3/09/2014 3/09/2014 3/09/2014 3/09/2014 3/09/2014 3/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	269	14/11/2014	147	14/02/2015	197	15/05/2015	91
17/08/2014 18/08/2014 19/08/2014 19/08/2014 20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 25/08/2014 27/08/2014 28/08/2014 29/08/2014 29/08/2014 31/08/2014 31/08/2014 1/09/2014 3/09/2014 5/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	221	15/11/2014	221	15/02/2015	204	16/05/2015	229
18/08/2014 19/08/2014 19/08/2014 20/08/2014 21/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 26/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 31/08/2014 1/09/2014 4/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	221 333	16/11/2014 17/11/2014	370 134	16/02/2015 17/02/2015	250 205	17/05/2015 18/05/2015	260 146
19/08/2014 20/08/2014 21/08/2014 22/08/2014 23/08/2014 24/08/2014 25/08/2014 25/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 30/08/2014 1/09/2014 3/09/2014 3/09/2014 4/09/2014 5/09/2014 6/09/2014 9/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	170	18/11/2014	216	18/02/2015	205	19/05/2015	155
20/08/2014 21/08/2014 22/08/2014 22/08/2014 23/08/2014 25/08/2014 25/08/2014 25/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 3/09/2014 3/09/2014 4/09/2014 5/09/2014 5/09/2014 8/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	198	19/11/2014	234	19/02/2015	208	20/05/2015	107
22/08/2014 23/08/2014 24/08/2014 25/08/2014 26/08/2014 27/08/2014 28/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 2/09/2014 3/09/2014 5/09/2014 5/09/2014 6/09/2014 8/09/2014 9/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	47	20/11/2014	137	20/02/2015	214	21/05/2015	115
23/08/2014 24/08/2014 25/08/2014 25/08/2014 27/08/2014 27/08/2014 29/08/2014 30/08/2014 30/08/2014 31/08/2014 30/08/2014 30/09/2014 30/09/2014 4/09/2014 5/09/2014 5/09/2014 5/09/2014 6/09/2014 9/09/2014 10/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014	237	21/11/2014	129	21/02/2015	162	22/05/2015	193
24/08/2014 25/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 2/09/2014 3/09/2014 5/09/2014 5/09/2014 5/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014 1/09/2014	180	22/11/2014	172	22/02/2015	260	23/05/2015	182
25/08/2014 26/08/2014 26/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 2/09/2014 5/09/2014 5/09/2014 6/09/2014 9/09/2014 10/09/2014 10/09/2014 10/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014	206	23/11/2014	313	23/02/2015	339	24/05/2015	182
26/08/2014 27/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 31/08/2014 1/09/2014 2/09/2014 3/09/2014 4/09/2014 5/09/2014 6/09/2014 8/09/2014 9/09/2014 10/09/2014 11/09/2014 11/09/2014 11/09/2014 11/09/2014	271 209	24/11/2014 25/11/2014	207	24/02/2015 25/02/2015	154	25/05/2015	182
27/08/2014 28/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 1/09/2014 3/09/2014 4/09/2014 5/09/2014 5/09/2014 5/09/2014 10/09/2014 10/09/2014 10/09/2014 11/09/2014 11/09/2014 11/09/2014 12/09/2014 13/09/2014 13/09/2014	159	26/11/2014	110 323	26/02/2015	200 276	26/05/2015 27/05/2015	306 267
28/08/2014 29/08/2014 30/08/2014 31/08/2014 1/09/2014 1/09/2014 2/09/2014 5/09/2014 5/09/2014 5/09/2014 7/09/2014 10/09/2014 10/09/2014 11/09/2014 11/09/2014 12/09/2014 13/09/2014 13/09/2014 13/09/2014	150	27/11/2014	136	27/02/2015	196	28/05/2015	381
30/08/2014 31/08/2014 1/09/2014 1/09/2014 3/09/2014 4/09/2014 5/09/2014 5/09/2014 5/09/2014 8/09/2014 1/09/2014 1/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	166	28/11/2014	200	28/02/2015	196	29/05/2015	179
31/08/2014 1/09/2014 2/09/2014 3/09/2014 3/09/2014 4/09/2014 5/09/2014 5/09/2014 7/09/2014 8/09/2014 9/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 13/09/2014	177	29/11/2014	189	1/03/2015	131	30/05/2015	219
1/09/2014 2/09/2014 3/09/2014 4/09/2014 5/09/2014 5/09/2014 6/09/2014 8/09/2014 9/09/2014 10/09/2014 11/09/2014 12/09/2014 14/09/2014	171	30/11/2014	215	2/03/2015	342	31/05/2015	219
2/09/2014 3/09/2014 4/09/2014 5/09/2014 6/09/2014 7/09/2014 8/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	201	1/12/2014	226	3/03/2015	190	1/06/2015	210
3/09/2014 4/09/2014 5/09/2014 5/09/2014 7/09/2014 7/09/2014 8/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	139	2/12/2014	123	4/03/2015	190	2/06/2015	419
4/09/2014 5/09/2014 6/09/2014 7/09/2014 8/09/2014 8/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	126 196	3/12/2014 4/12/2014	208 180	5/03/2015 6/03/2015	190 190	3/06/2015 4/06/2015	106 265
5/09/2014 6/09/2014 7/09/2014 8/09/2014 9/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	140	5/12/2014	210	7/03/2015	256	5/06/2015	354
6/09/2014 7/09/2014 8/09/2014 9/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	155	6/12/2014	194	8/03/2015	204	6/06/2015	194
8/09/2014 9/09/2014 10/09/2014 11/09/2014 11/09/2014 13/09/2014 14/09/2014	174	7/12/2014	209	9/03/2015	205	7/06/2015	193
9/09/2014 10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	216	8/12/2014	288	10/03/2015	307	8/06/2015	193
10/09/2014 11/09/2014 12/09/2014 13/09/2014 14/09/2014	151	9/12/2014	126	11/03/2015	307	9/06/2015	122
11/09/2014 12/09/2014 13/09/2014 14/09/2014	172	10/12/2014	226	12/03/2015	307	10/06/2015	123
12/09/2014 13/09/2014 14/09/2014	140 127	11/12/2014 12/12/2014	198 153	13/03/2015 14/03/2015	307 192	11/06/2015 12/06/2015	123 162
13/09/2014 14/09/2014	194	13/12/2014	218	15/03/2015	143	13/06/2015	216
14/09/2014	115	14/12/2014	123	16/03/2015	234	14/06/2015	216
	208	15/12/2014	276	17/03/2015	234	15/06/2015	216
	171	16/12/2014	126	18/03/2015	179	16/06/2015	260
16/09/2014	160	17/12/2014	177	19/03/2015	179	17/06/2015	279
17/09/2014		18/12/2014	161	20/03/2015	195	18/06/2015	109
18/09/2014	153	19/12/2014	183	21/03/2015	77	19/06/2015	488
19/09/2014	153 164	20/12/2014	194	22/03/2015	234	20/06/2015	290
20/09/2014 21/09/2014	153 164 159	21/12/2014 22/12/2014	153 241	23/03/2015 24/03/2015	212 193	21/06/2015 22/06/2015	290 290
22/09/2014	153 164 159 122	23/12/2014	202	25/03/2015	193 192	23/06/2015	290
23/09/2014	153 164 159 122 234	24/12/2014	202	26/03/2015	192	24/06/2015	179
24/09/2014	153 164 159 122	25/12/2014	200	27/03/2015	192	25/06/2015	123
25/09/2014	153 164 159 122 234 184	26/12/2014	202	28/03/2015	176	26/06/2015	181
26/09/2014	153 164 159 122 234 184 224	27/12/2014	242	29/03/2015	176	27/06/2015	331
27/09/2014	153 164 159 122 234 184 224 140 194	28/12/2014	316	30/03/2015	175	28/06/2015	215
28/09/2014	153 164 159 122 234 184 224 140 194 148	29/12/2014	351	31/03/2015	154	29/06/2015	215
29/09/2014 30/09/2014	153 164 159 122 234 184 224 140 194	30/12/2014	333 382			30/06/2015	215



Attachment 1.3: Flows, Akaroa, '% less than'

Akaroa WWTP flows < x m3/d



Attachment 2.1: Rainfall data, Akaroa

Attaciiii	Attachment 2.1. Kamian data, Akaroa										
Station in	formation:										
Name Agent Number		Network N	Latitude	(dec.deg)	Longitu	Height (r	Posn_Pr	Observin	g Authority		
Akaroa Ev 36593		H32895	-43.809		172.97	45	G	Niwa			
Note: Position precision types are: "W" = based on whole minutes, "T" = estimated to									ninute,		
G = derive	ed from gridref ,	"E" = error	cases der	rived from g	ridref,						
H = based	on GPS reading	s (NZGD49)	, "D" = by	definition i	.e. grid p	oints.					
Rain: Daily											
			3 day								
	Date(NZST):	Amount	total		Deficit	Runoff	Period				
Station	Time	(mm)	(mm)	SofG	(mm)	(mm)	(Hrs)	Freq	Comment		
36593	20140719:0900	11.8		-	0	11.1	24	D			
36593	20140720:0900	5.8		-	0	5.1	24	D			
36593	20140721:0900	4.4	22	-	0	3.7	24	D			
36593	20140722:0900	21.4	31.6	-	0	20.7	24	D			
36593	20140723:0900	19	44.8	-	0	18.3	24	D	<50mm/3d		
36593	20140724:0900	0.6	41	-	0.1	0	24	D			

Attachment 2.2: Rainfall Station 36593, Akaroa

Station Details for Agent: 36593

Check Data Availability | Sensor and Site History

	1
Parameter 🕜	Indicator
Agent Number	36593
Network Number	H32895
Name	Akaroa Ews
Lat (dec deg, S of equator is neg)	-43.80938
Longitude (dec deg, E of Greenwich is pos e.g. NZ)	172.96574
Position Precision	G
Note: Position precision types are: "W" = based on whole minutes, "T" = estimated to tenth minute, "G" = derived from gridref, "E" = error cases derived from gridref, "H" = based on GPS readings (NZGD49), "D" = by definition i.e. grid points.	,
Height above MSL in metres	45m
Grid Reference (NZ Metric Map Series)	N36073109
Start Date	12-Nov-2008
End Date	-
Closed Indicator (Closed = 1)	0
Stty Station Type	C: Clitel
Synoptic Number (World Met. Organisation Number)	-
WRA No	328905
Observing Authority	Niwa

Current Indicators

Note: the following indicators show the current status for open stations. Closed stations may show no recorded parameters.

Parameter	Indicator	Parameter	Indicator
Rain	X	Evaporation	-
Surface Wind Dirn	X	Surface Wind Speed	X
Max Gust Dirn	-	Max Gust Speed	-
Solar Radiation	-	Sunshine Hours	-
10cm Earth Temp	X	20cm Earth Temp	X
30cm Earth Temp	-	100cm Earth Temp	-
Dry Bulb Temp	X	Wet Bulb Temp	X
Grass Min Temp	X	Weather Phenomonen	-
Max Temp	X	Min Temp	X
Visibility	-	Cloud Amount	-
MSL Pressure	-		
Wind Run	-		
Time Offset (from UTC)	12	dayl_daylight_area	02

Attachment 3.1: Lab Data, Akaroa Wastewater Treatment Plant (Conditions 6-10)

												5-Sar	nple M	edian
	Date	NH ₄ -N	BOD ₅	ENT	FC	Temp	NOx	DRP	TP	TSS	TN	BOD ₅	TSS	FC
		[mg/l]	[mg/l]	M PN/100ml	CFU/100ml	[deg C]	[mg/l]	[mg/l]	[mg/l]	[mg/l]	[mg/l]	[mg/l]	[mg/l]	CFU/100ml
Jul-14	2/07/2014	0.96	5.6	10	10	11.0	1 9	3.9	4.2	15	18	4.7	12	10
Aug-14	5/08/2014	1.0	4.6	10	10	7.5	1 8	3.2	4.0	10	3.6	4.6	12	10
Sep-14	2/09/2014	5.4	9.1	10	10	11.8	1 7	3.7	4.7	17.0	1.2	4.4	15	10
Oct-14	1/10/2014	24	11	10	10	13.0	7.0	5.9	6.6	17	1.7	4.6	16	10
Nov-14	10/11/2014	1 6	9.3	230	500	14.0	8.8	4.5	6.0	19	5.2	4.4	15	10
	2/12/2014	7.8	5.2	10	10	17.0	14	4.8	5.0	12	9.3	5.6	13	10
	9/12/2014	1 2	4.5	20	20	18.0	1 4	4.7	5.5	10	11	8.0	17	10
Dec-14	16/12/14	8.4	6.7	40	250	18.6	18.0	4.9	6.6	16.0	5.7	6.7	16	10
	23/12/14	5	3.2	230	3,500	18.0	17.0	5.5	6.8	13.0	7.6	5.0	15	250
	30/12/14	23.0	2.5	16000	6,000	21.0	8.6	5.5	8.6	24.0	17	3.2	16	1,875
	6/01/2015	23	7.4	40	190	22.0	5.0	7.1	8.3	15	22	5.0	16	1,875
Jan-15	13/01/2015	21	14.0	1300	5000	21.0	7.7	3.9	8.9	28	27	6.7	16	1,875
Jan-15	20/01/2015	17	5.6	10	10	17.0	1 3	7.2	8.0	15	26	6.2	19	1,845
	27/01/2015	8.4	6.2	170	1,400	21.8	2 1	6.0	7.5	10.0	6.6	6.2	17	795
	3/02/2015	4.9	6.1	1500	4400	22.0	2 6	5.4	6.9	13.0	9.7	6.2	12	190
Feb-15	10/02/2015	11	5.8	1000	5600	21.0	23	7.0	7.8	16.0	11	6.1	13	705
reb-15	17/02/2015	8.3	6.0	41	140	19.0	2 1	6.1	7.6	11.0	8.9	6.2	12	140
	24/02/2015	5.1	4.6	10	100	21.0	25	6.2	6.7	10.0	19	6.2	11	140
Mar-15	3/03/2015	3.6	4.0	10	100	21.3	2 6	5.2	6.1	17.0	22	6.2	13	100
Apr-15	1/04/2015	3.1	6.6	84	40	18.4	1 9	4.0	5.0	20	4.8	6.1	14	100
May-15	7/05/2015	3.4	5.6	10	10	12.9	2 5	3.5	4.3	26	2.0	6.2	11	100
Jun-15	10/06/2015	14	8.5	10	1	12.0	6.3	2.0	3.3	42	1.0	6.1	14	55
											Limit	30	30	1,000

Attachment 3.2: Lab Data, Receiving Environment (Condition 11-14 and 20)

Attachment 3.2:	400m	400m	· · · · · · · · · · · · · · · · · · ·	400m	400m	Shoreline		<i>,</i>	400m	400m	Shoreline	Shoreline
	Shoreline	Shoreline	Shoreline	Shoreline	Shoreline	nearest		400m Shoreline	Shoreline	Shoreline	nearest	nearest
	North	South	nearest OF	North	South	OF	North	North	South	South	Outfall	Outfall
								Time between		Time between		Time between
								samples taken		samples taken		samples
							Sample	from STP &	Sample	from STP &	Sample	taken from
	ENT	ENT	ENT	FC	FC	FC	Time	RCV	Time	RCV	Time	STP & RCV
	MPN/100ml	MPN/100ml	MPN/100ml	CFU/100ml	CFU/100ml	CFU/100ml						
2/07/2014				<1	<1	<1						
5/08/2014				<1	1	<1						
2/09/2014				<10	<10	<10						
1/10/2014				2	3	1						
10/11/2014				<2	<2	<2						
02/12/2014	not tested	not tested	not tested	17	9	7	07.20	0:10	07.10	0:15	07.00	0:20
09/12/2014	<10	<10	<10	2	4	2	07.00	0:25	07.10	0:10	07.20	0:20
16/12/2014	<10	<10	<10	<1	<1	<1	08.45	-0:10	08.55	-0:30	08.50	-0:20
23/12/2014	<10	<10	20	3	* 1	<10	08.35	0:10	08.45	0:05	08.40	0:15
30/12/2014	<10	<10	<10	8	1 2	21	07.45	-0:26	07.35	-0:20	07.40	-0:18
06/01/2015	<10	10	<10	" 1	" 1	<1	07.00	-0:18	07.10	-0:13	07.15	-0:08
13/01/2015	<10	<10	<10	<1	<1	<1	07.25	0:05	07.35	0:15	07.40	0:10
20/01/2015	320	240	250	444	496	520	07.25	-0:08	07.35	-0:17	07.30	-0:11
27/01/2015	10	7 98	41	36	34	46	08.40	-0:15	08.30	-0:20	08.35	-0:10
03/02/2015	120		120		4	7	07.25	0:25	07.20	0:15	07.15	0:20
10/02/2015	<10	<10	<10	<2	<2	<2	07.05	0:10	06.55	0:20	07.00	0:15
17/02/2015	<10	<10	<10	<1	* 1	1	07.52	0:10	07.37	0:30	07.45	0:20
24/02/2015	<10	<10	<10	7	6	5	08.25	-0:40	08.15	-0:10	08.20	-0:20
03/03/2015	10	<10	<10	6	6	7	08.30	-0:41	08.35	-0:11	08.40	-0:21
01/04/2015				1	<1	<1						
07/05/2015				220	230	230						
10/06/2015				<1	<1	<1						
Removed < for calculation	ons and hal	ved the valu	e.									
5 sample median of Sur		les >14		0	0	0						
# summer samples > 43				1	1	2						
% summer samples > 4	3			7.7%	7.7%	15.4%						
# total samples > 43	2	2	3									
% total samples > 43	9.1%	9.1%	13.6%									
// - II	40											
# all summer samples >			4									
% all summer samples	> 43		6.2									

Attachment 3.3: Lab Data, Receiving Environment (Conditions 15-18)

	250 metres due north							250 metres due west					250 metres due south								
	Temp	TN	NOx	NH3	DIN	TP	DRP	Temp	TN	NOx	NH3	DIN	TP	DRP	Temp	TN	NOx	NH3	DIN	TP	DRP
	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	∘C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TRIGGER				0.910	0.062		0.018				0.910	0.062		0.018				0.910	0.062		0.018
2/12/2014	13.0	0.22	0.011	0.003	0.014	0.0090	0.0041	13.0			0.010	0.010	0.011	0.0044	13.0	0.20	0.010	0.005	0.015	0.010	0.0048
16/12/2014	16.5	0.15	0.010	0.003	0.013	0.020	0.0057	16.5	0.11	0.010	0.0050	0.015	0.0050	0.0062	16.5	0.13	0.010	0.0050	0.015	0.018	0.0057
30/12/2014	18.0	0.17	0.010	0.051	0.061	0.016	0.0051	18.0	0.17	0.010	0.019	0.029	0.014	0.0050	18.0	0.17	0.010	0.018	0.028	0.014	0.0051
27/01/2015	17.0	0.15	0.010	0.005	0.015	0.024	0.010	17.0	0.12	0.010	0.005	0.015	0.027	0.0076	17.0	0.14	0.010	0.005	0.015	0.021	0.0079
10/02/2015	15.0	0.13	0.010	0.023	0.033	0.0090	0.0077	15.0	0.14	0.010	0.005	0.015	0.0090	0.013	15.0	0.15	0.020	0.011	0.031	0.014	0.015

	Plant Effluent											
	TN	NOx	NH3	TP	DRP							
	mg/L	mg/L	mg/L	mg/L	mg/L							
TRIGGER												
2/12/2014	22.4	14	7.8	5.0	4.8							
16/12/2014	27.7	18	8.4	6.6	4.9							
30/12/2014	34.6	8.6	23	8.6	5.5							
27/01/2015	28.8	21	8.4	7.5	6.0							
10/02/2015	31.3	26	4.9	6.9	5.4							

Removed < for calculations and halved the value.