

# Appendix H

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: RES Site No.: AM1  
 Date of visit: 17-4-2001 Hour of Visit: 1055  
 Staff name: W L MAK / HK TSANG  
 Used filter paper no.: LN35 New filter paper no.: LN37  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 29.0}{30.0}$  K Pressure,  $P_a = \frac{1008}{}$  mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading ( $\Delta H_{STD}$ ) corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$ .	Manometer reading at site conditions
EV08B01	5.1 (4/01)	$\Delta H_a = 1.500(P_a/T_a) =$
✓EV08B02	5.0 (3/01)	$\Delta H_a = 1.471(P_a/T_a) = \underline{4.91}$

Manometer reading before calibration: 5.20"

Adjustment of flow controller (Y/N): Y

Manometer reading after calibration: 5.00

Note: Manometer reading corrected to ambient conditions:  $\Delta H_a = \Delta H_{STD}(P_a/P_{STD})(T_{STD}/T_a)$

III. General Conditions of HVAS

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IV. Remarks

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HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: EAST GATE Site No.: AM2  
 Date of visit: 17-4-2011 Hour of Visit: 1335  
 Staff name: LJL NAK / HK TSANG  
 Used filter paper no.: LN34 New filter paper no.: LN36  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{213 + 32.5}{305.5}$  K Pressure,  $P_a = 1014$  mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading ( $\Delta H_{STD}$ ) corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$ .	Manometer reading at site conditions
EV08B01	5.1 (4/01)	$\Delta H_a = 1.500(P_a/T_a) = \underline{\hspace{2cm}}$
✓ EV08B02	5.0 (3/01)	$\Delta H_a = 1.471(P_a/T_a) = \underline{4.88}$

Manometer reading before calibration:                     

Adjustment of flow controller (Y/N):   Y  

Manometer reading after calibration:   4.9  

Note: Manometer reading corrected to ambient conditions:  $\Delta H_a = \Delta H_{STD}(P_a/P_{STD})(T_{STD}/T_a)$

III. General Conditions of HVAS

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IV. Remarks

CHANGE FLOW SENSOR  
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PARTISOL TSP SAMPLER  
SITE VISIT LOG SHEET

Site Name Ash Lagoon Site Number AM3  
Date of Visit 17/4/2001 Hour of Visit 11:40  
Staff Name HK Tsang  
Used Filter No.: PA06 New Filter No.: PA07  
Ambient temperature: 30.5 °C Ambient pressure: 1010 mbar

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube X
4. Clean / Replace pump head X
5. Clean / Replace piston X

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature  $\pm 2^\circ\text{C}$ )  
30.7 °C Before Calibration: X/N \_\_\_\_\_ °C After
2. Pressure Check (Ambient pressure  $\pm 20$  mbar)  
1008 mbar Before Calibration: X/N \_\_\_\_\_ mbar After
3. Flow Check ( $16.7 \pm 1.1$  litre/min)  
16.7 litre/min Before Calibration: X/N \_\_\_\_\_ litre/min After

III. Remarks

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MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name TYV Site No. AM4  
Date of Visit 17-4-2001 Hour of Visit 11:10  
Staff Name H.K. ISANG MVAS S/N 204P  
Used Filter Paper No. ME70 New Filter Paper No. ME71

Type of Filter Paper: Cellulose / Glass-Fibre  
(Delete as appropriate)

I. Calibration is performed by using DryCal DC-2 Flow  
Calibrator

5 Sl/min set point is recommended

500L Before 500L After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter X
2. Clean / Replace Pump Valves ✓
3. Clean / Replace Pump Diaphragms ✓
4. Clean Impaction Inlet X
5. Replace Timer Battery Every 6 Months ✓
6. Replace Inlet Filter ✓

III. Remarks

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**THE HONGKONG ELECTRIC CO., LTD.**  
**LAMMA POWER STATION EXTENSION**  
**TEOM 1400A CONTINUOUS DUST MONITOR**  
**DATA QUALITY ASSURANCE LOG SHEET**

Month: APRIL Year: 2001

Reservoir (AM1)					
Date	Frequency (Hz) (260 - 280)	Noise ( $< 0.1$ )	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
4-4-2001	261.05	0.04	4	1.00	15.62
10-4-2001	270.78	0.032	4	1.00	15.54
16-4-2001	270.56	0.031	4	1.00	15.13
22-4-2001	270.05	0.047	4	1.00	15.28
28-4-2001	269.77	0.037	4	1.00	15.22

East Gate (AM2)					
Date	Frequency (Hz) (230 - 250)	Noise ( $< 0.1$ )	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
4-4-2001	230.28	0.040	4	1.00	15.66
10-4-2001	230.00	0.037	4	1.00	15.66
16-4-2001	229.76	0.041	4	0.99	15.66
22-4-2001	244.98	0.019	4	1.00	15.65
28-4-2001	244.73	0.040	4	1.00	15.66

Ash Lagoon (AM3)					
Date	Frequency (Hz) (230 - 250)	Noise ( $< 0.1$ )	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
4-4-2001	245.70	0.025	4	0.99	15.64
10-4-2001	245.62	0.035	4	1.00	15.64
16-4-2001	245.30	0.030	4	1.00	15.63
22-4-2001	245.03	0.030	4	1.00	15.65
28-4-2001	244.79	0.033	4	1.00	15.64

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter			
Pump Repair	✓		
Leak Check	✓		
Flow Audit			
Flow Controller Calibration			
A/C filter cleaning	✓	✓	✓

Remarks:

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Prepared by: Alex

Checked by: Chris

THE HONGKONG ELECTRIC CO., LTD.  
LAMMA POWER STATION EXTENSION  
NOISE MONITORING STATION  
SITE VISIT LOG SHEET

Location Ash Lagoon/~~Ching Lam~~\*

Date 20-4-2001 Time 15:30

Equipment Rion NA-27 Sound Level Meter

Serial Number ~~00111465/00111466/00111467~~\*

Staff Attended T.L. CHU ; H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94.2

Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

a. ~~Sunny/fine/cloudy/showery/heavy rain~~\*

b. ~~Strong wind/breeze/calm~~\*

3. Remark/Observation

Surge protector for AC power supply & signal cable installed

Note: \* - Please delete where inappropriate







## **RION CO., LTD.**

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533  
Phone:042(359)7888, Facsimile:042(359)7442

# **Certificate of Calibration**

**Name** : Precision sound level meter  
**Model** : NA-27 S/No. : 00111465  
**Microphone** : UC-53A S/No. : 100491  
**Preamplifier** : NH-20 S/No. : 05135  
**Date of Calibration** : March, 02, 2001

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.



*T. Yamamoto*  
Manager, Inspection Department



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3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533  
Phone:042(359)7888, Facsimile:042(359)7442

# **Certificate of Calibration**

**Name** : Precision sound level meter  
**Model** : NA-27      **S/No.** : 00111466  
**Microphone** : UC-53A      **S/No.** : 100495  
**Preamplifier** : NH-20      **S/No.** : 05136

**Date of Calibration** : March, 02, 2001

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

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*T. Yamamoto*  
Manager, Inspection Department



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3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533  
Phone:042(359)7888, Facsimile:042(359)7442

# **Certificate of Calibration**

**Name :** Sound level calibrator

**Model :** NC-74

**S/No. :** 01200042

**Date of Calibration :** March, 02, 2001

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

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RION CO., LTD.  
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*J. Yamamoto*  
Manager, Inspection Department

### Equipment Calibration Record

Equipment No.	CM-ESG-022	Equipment description	YSI 6820 Multi-parameter Water Quality Monitor
Calibration method reference	OD-ESG-075	Calibration equipment used (if any)	--

Use of Reference material (if any)	pH	DO	Turbidity
	pH 6.86 & 10.01 buffer RM ESG-006 RM ESG-007	--	0 NTU & 200 NTU RM-ESG-0002 RM-ESG-0003
Permissible tolerance of calibration	± 0.12 pH	±5%	±5%

#### Calibration Result

Date	Standard	pH		DO	Turbidity		Calibrated by
		6.86	10.01	100%	0	200	
2/4/01	Before	6.84	9.88	100.4	-0.4	194.3	Franky
	After	6.86	10.01	100.0	0	200.0	
4/4/01	Before	6.81	10.04	101.3	-0.3	202.5	Franky
	After	6.86	10.01	100.0	0	200.0	
6/4/01	Before	6.82	10.06	95.9	0.0	198.4	TMichelle
	After	6.86	10.01	100.0	0.0	200.0	
9/4/01	Before	6.80	10.09	97.8	0.1	202.2	TMichelle
	After	6.86	10.01	100.0	0	200.0	
11/4/01	Before	6.96	10.11	108.7	-0.1	206.0	TMichelle
	After	6.86	10.01	100.0	0.0	200.0	
13/4/01	Before	6.88	10.04	96.7	-0.2	197.3	Franky
	After	6.86	10.01	100.0	0.0	200.0	
16/4/01	Before	6.87	10.01	98.0	-0.1	198.6	TMichelle
	After	6.86	10.01	100.0	0.1	199.9	
18/4/01	Before	6.86	10.02	95.8	-0.3	198.8	Franky
	After	6.86	10.01	100.0	0.0	200.0	
20/4/01	Before	6.88	10.09	94.3	0.2	200.4	Franky
	After	6.86	10.01	100.0	0.0	200.0	
22/4/01	Before	6.85	10.03	105.3	-0.2	198.5	TMichelle
	After	6.86	10.01	100.0	0.0	200.0	
25/4/01	Before	6.89	10.05	105.2	0.4	202.3	TMichelle
	After	6.86	10.01	100.0	0.0	200.0	
27/4/01	Before	6.84	9.99	105.3	-0.2	198.7	TMichelle
	After	6.86	10.01	100.0	0.0	200.0	
30/4/01	Before	6.88	9.88	98.9	0.2	199.7	Franky
	After	6.86	10.01	100.0	0	200	
	Before						
	After						

Approved by EMC: \_\_\_\_\_

Date: 30/4 \_\_\_\_\_

SUMMARY OF QUALITY CONTROL DATA - BLANK RESULTS

Parameter	Control Limit	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value
Suspended Solids mg/L	< 1	BK0104002	< 1	BK0104102	< 1	BK0104202	< 1	BK0104302	< 1	BK0104006	< 1	BK0104106	< 1	BK0104206	< 1
		BK0104109	< 1	BK0104209	< 1	BK0104309	< 1	BK0104010	< 1	BK0104110	< 1	BK0104210	< 1	BK0104310	< 1
		BK0104217	< 1	BK0104317	< 1	BK0104417	< 1	BK0104517	< 1	BK0104617	< 1	BK0104717	< 1	BK0104019	< 1
		BK0104319	< 1	BK0104024	< 1	BK0104124	< 1	BK0104214	< 1	BK0104324	< 1	BK0104026	< 1	BK0104126	< 1
		BK0105002	< 1	BK0105102	< 1	BK0105202	< 1	BK0105302	< 1	BK0104021	< 1	BK0104121	< 1	BK0101221	< 1
		BK0104306	< 1	BK0104009	< 1	BK0104119	< 1	BK0104219	< 1	BK0104017	< 1	BK0104117	< 1	BK0104226	< 1
		BK0104326	< 1												
Unionized Ammonia (as Ammonia) mg/L	< 0.01	BK0104003	< 0.01	BK0104103	< 0.01	BK0104203	< 0.01	BK0104303	< 0.01	BK0104006	< 0.01	BK0104106	< 0.01	BK0104026	< 0.01
		BK0104109	< 0.01	BK0104209	< 0.01	BK0104309	< 0.01	BK0104010	< 0.01	BK0104110	< 0.01	BK0104210	< 0.01	BK0104310	< 0.01
		BK0104217	< 0.01	BK0104317	< 0.01	BK0104018	< 0.01	BK0104118	< 0.01	BK0104218	< 0.01	BK0104318	< 0.01	BK0104019	< 0.01
		BK0104319	< 0.01	BK0104023	< 0.01	BK0104123	< 0.01	BK0104223	< 0.01	BK0104323	< 0.01	BK0104024	< 0.01	BK0104124	< 0.01
		BK0104026	< 0.01	BK0104126	< 0.01	BK0104226	< 0.01	BK0104326	< 0.01	BK0104306	< 0.01	BK0104009	< 0.01	BK0104017	< 0.01
		BK0104119	< 0.01	BK0104219	< 0.01	BK0104117	< 0.01	BK0104224	< 0.01	BK0104324	< 0.01				
Total Inorganic Nitrogen (as Nitrite and Nitrate) mg/L	< 0.01	BK0104003	< 0.01	BK0104103	< 0.01	BK0104203	< 0.01	BK0104004	< 0.01	BK0104106	< 0.01	BK0104009	< 0.01	BK0104109	< 0.01
		BK0104110	< 0.01	BK0104210	< 0.01	BK0104011	< 0.01	BK0104111	< 0.01	BK0104012	< 0.01	BK0104112	< 0.01	BK0104212	< 0.01
		BK0104017	< 0.01	BK0104117	< 0.01	BK0104217	< 0.01	BK0104317	< 0.01	BK0104018	< 0.01	BK0104118	< 0.01	BK0104218	< 0.01
		BK0104219	< 0.01	BK0104020	< 0.01	BK0104120	< 0.01	BK0104220	< 0.01	BK0104023	< 0.01	BK0104123	< 0.01	BK0104223	< 0.01
		BK0104224	< 0.01	BK0104025	< 0.01	BK0104125	< 0.01	BK0104026	< 0.01	BK0104019	< 0.01	BK0104119	< 0.01	BK0104124	< 0.01
		BK0104209	< 0.01	BK0104010	< 0.01	BK0104312	< 0.01	BK0104116	< 0.01	BK0104024	< 0.01				

Total: 43

Total: 40

Total: 40

SUMMARY OF QUALITY CONTROL DATA - QC SAMPLES RESULTS

Parameter	Control Limit	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value
Suspended Solids mg/L	8.9 - 10.3	QC 0104002	9.6	QC 0104102	9.4	QC 0104202	10.0	QC 0104302	9.3	QC 0104006	9.8	QC 0104106	9.4	QC 0104206	9.8
		QC 0104306	10.0	QC 0104009	10.0	QC 0104109	9.6	QC 0104209	9.7	QC 0104309	9.6	QC 0104010	9.3	QC 0104110	9.3
		QC 0104210	9.4	QC 0104310	9.8	QC 0104017	9.1	QC 0104117	9.9	QC 0104217	9.3	QC 0104317	9.5	QC 0104417	9.7
		QC 0104517	9.9	QC 0104617	9.7	QC 0104717	9.9	QC 0104321	9.4	QC 0104119	10.1	QC 0104219	9.6	QC 0104028	9.8
		QC 0104024	10.1	QC 0104124	9.4	QC 0104214	10.1	QC 0104324	9.3	QC 0104026	9.5	QC 0104126	9.8	QC 0104226	10.1
		QC 0104326	9.4	QC 0105002	9.6	QC 0105102	9.3	QC 0104202	9.7	QC 0104302	9.6	QC 0104021	9.3	QC 0104121	9.8
		QC 0104221	9.4												
Unionized Ammonia (as Ammonia) mg/L	0.09 - 0.12	QC 0104003	0.09	QC 0104103	0.09	QC 0104203	0.10	QC 0104303	0.10	QC 0104006	0.10	QC 0104106	0.10	QC 0104206	0.10
		QC 0104306	0.10	QC 0104009	0.09	QC 0104109	0.09	QC 0104209	0.09	QC 0104309	0.09	QC 0104010	0.11	QC 0104110	0.10
		QC 0104210	0.10	QC 0104310	0.11	QC 0104017	0.10	QC 0104117	0.10	QC 0104217	0.10	QC 0104317	0.10	QC 0104018	0.10
		QC 0104118	0.10	QC 0104218	0.10	QC 0104318	0.10	QC 0104019	0.10	QC 0104119	0.10	QC 0104219	0.10	QC 0104319	0.11
		QC 0104023	0.10	QC 0104123	0.10	QC 0104223	0.10	QC 0104323	0.10	QC 0104024	0.10	QC 0104124	0.11	QC 0104224	0.11
		QC 0104324	0.10	QC 0104026	0.10	QC 0104126	0.10	QC 0104226	0.10	QC 0104326	0.10				
Total Inorganic Nitrogen (as Nitrite and Nitrate) mg/L	0.36 - 0.44	QC 0104003	0.37	QC 0104103	0.38	QC 0104203	0.37	QC 0104004	0.38	QC 0104106	0.39	QC 0104009	<0.01	QC 0104109	0.39
		QC 0104209	0.40	QC 0104010	0.38	QC 0104110	0.38	QC 0104210	0.39	QC 0104011	0.40	QC 0104111	0.41	QC 0104012	0.40
		QC 0104112	0.39	QC 0104212	0.40	QC 0104312	0.39	QC 0104116	0.38	QC 0104017	0.39	QC 0104117	0.39	QC 0104217	0.39
		QC 0104317	0.39	QC 0104018	0.38	QC 0104118	0.39	QC 0104218	0.39	QC 0104019	0.38	QC 0104119	0.39	QC 0104219	0.38
		QC 0104020	0.39	QC 0104120	0.39	QC 0104220	0.39	QC 0104023	0.39	QC 0104123	0.38	QC 0104223	0.40	QC 0104024	0.38
		QC 0104124	0.37	QC 0104224	0.37	QC 0104025	0.39	QC 0104125	0.40	QC 0104026	0.40				

Total: 43

Total: 40

Total: 40

SUMMARY OF QUALITY CONTROL DATA - MATRIX SPIKE RESULTS

Parameter	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)	Spiked ID	Recovery (%)
Unionized Ammonia (as Ammonia) mg/L	RT 0104003	96.0	RT 0104103	99.0	RT 0104203	100.0	RT 0104303	91.0	RT 0104006	99.0	RT 0104106	95.0	RT 0104206	93.0
	RT 0104306	107.0	RT 0104009	96.0	RT 0104109	100.0	RT 0104209	93.0	RT 0104309	104.0	RT 0104010	101.0	RT 0104110	111.0
	RT 0104210	101.0	RT 0104310	105.0	RT 0104017	94.0	RT 0104117	99.0	RT 0104217	97.0	RT 0104317	99.0	RT 0104018	99.0
	RT 0104118	105.0	RT 0104218	94.0	RT 0104318	99.0	RT 0104019	95.0	RT 0104119	107.0	RT 0104219	105.0	RT 0104319	96.0
	RT 0104023	98.0	RT 0104123	102.0	RT 0104223	100.0	RT 0104323	99.0	RT 0104024	97.0	RT 0104124	105.0	RT 0104224	99.0
	RT 0104324	103.0	RT 0104026	105.0	RT 0104126	93.0	RT 0104226	93.0	RT 0104326	96.0				
Total Inorganic Nitrogen (as Nitrite + Nitrate) mg/L	RT 0104003	111.0	RT 0104103	88.0	RT 0104203	92.0	RT 0104004	97.0	RT 0104106	97.0	RT 0104009	87.0	RT 0104109	85.0
	RT 0104209	105.0	RT 0104010	97.0	RT 0104110	101.0	RT 0104210	111.0	RT 0104011	108.0	RT 0104111	99.0	RT 0104112	100.0
	RT 0104212	94.0	RT 0104312	90.0	RT 0104116	92.0	RT 0104017	87.0	RT 0104117	90.0	RT 0104217	97.0	RT 0104317	86.0
	RT 0104018	98.0	RT 0104118	96.0	RT 0104218	90.0	RT 0104019	102.0	RT 0104119	99.0	RT 0104219	89.0	RT 0104020	101.0
	RT 0104120	102.0	RT 0104220	99.0	RT 0104023	98.0	RT 0104123	108.0	RT 0104223	98.0	RT 0104024	102.0	RT 0104124	97.0
	RT 0104224	105.0	RT 0104224	105.0	RT 0104025	97.0	RT 0104125	100.0	RT 0104026	105.0				

Total: 40

Total: 40

Acceptance Criteria: 75% to 125%

SUMMARY OF QUALITY CONTROL DATA - DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value
Suspended Solids mg/L	exceed 20%		13.3		10.1		17.5		13.0		13.3		11.5		13.1
		WC 0104452	13.2	WC 0104472	10.1	WC 0104479	18.3	WC 0104499	13.0	WC 0104596	12.9	WC 0104611	13.1	WC 0104632	11.5
			12.4		14.1		9.6		23.7		10.8		8.2		9.8
		WC 0104647	11.8	WC 0104683	12.7	WC 0104698	11.0	WC 0104734	22.9	WC 0104710	10.6	WC 0104773	9.8	WC 0104788	10.6
			19.4		16.7		9.3		10.9		10.0		11.8		10.4
		WC 0104809	19.8	WC 0104824	17.7	WC 0104971	10.5	WC 0104986	10.9	WC 0105007	11.2	WC 0105022	10.4	WC 0105050	10.2
			11.5		7.1		7.8		11.6		6.6		8.4		11.4
		WC 0105065	11.9	WC 0105086	7.5	WC 0105101	8.4	WC 0105142	10.2	WC 0105157	8.2	WC 0105178	8.6	WC 0105518	11.0
			10.4		27.8		9.7		10.3		20.4		12.0		11.4
		WC 0105193	9.6	WC 0105401	29.2	WC 0105420	8.9	WC 0105441	11.7	WC 0105461	19.3	WC 0105503	13.0	WC 0105539	12.8
			10.3		9.4		8.6		10.6		10.0		13.3		18.0
		WC 0105554	8.9	WC 0105710	10.2	WC 0105725	7.0	WC 0105746	8.8	WC 0105761	11.6	WC 0105305	14.1	WC 0105316	17.6
			10.4												
		WC 0105320	10.0												
Unionised Ammonia (as Ammonia) mg/L	exceed 20%		0.001		0.001		0.007		<0.001		0.001		0.006		0.001
		WC 0104459	0.001	WC 0104479	0.001	WC 0104698	0.007	WC 0104519	<0.001	WC 0104596	0.001	WC 0104611	0.006	WC 0104632	0.001
			0.005		<0.001		0.001		0.001		0.007		0.003		0.107
		WC 0104647	0.005	WC 0104683	<0.001	WC 0104971	0.001	WC 0104719	0.001	WC 0104734	0.007	WC 0105022	0.004	WC 0104788	0.109
			0.003		0.008		0.001		0.007		0.001		0.001		<0.001
		WC 0105065	0.003	WC 0104824	0.008	WC 0105101	0.001	WC 0104986	0.007	WC 0105007	0.001	WC 0105178	0.001	WC 0105050	<0.001
			0.001		<0.001		0.002		<0.001		0.021		0.007		0.003
		WC 0105305	0.001	WC 0105086	<0.001	WC 0105341	0.002	WC 0105142	<0.001	WC 0105157	0.021	WC 0105420	0.007	WC 0105193	0.003
			0.003		0.004		0.004		0.004		0.001		0.005		0.001
		WC 0105456	0.003	WC 0105320	0.004	WC 0105518	0.004	WC 0105356	0.003	WC 0105405	0.001	WC 0105554	0.005	WC 0105441	0.001
	0.001		0.001		0.001		0.011		0.009						
WC 0105539	0.001	WC 0105503	0.001	WC 0105631	0.001	WC 0105682	0.011	WC 0105667	0.009						
Total Inorganic Nitrogen (as Nitrite + Nitrate) mg/L	exceed 20%		0.07		0.15		0.06		0.09		0.05		0.04		0.03
		WC 0104441	0.07	WC 0104461	0.15	WC 0104481	0.05	WC 0104501	0.09	WC 0104585	0.06	WC 0104605	0.05	WC 0104625	0.03
			0.05		0.06		0.04		0.10		0.09		0.10		0.06
		WC 0104645	0.05	WC 0104672	0.06	WC 0104692	0.04	WC 0104712	0.10	WC 0104732	0.08	WC 0104762	0.11	WC 0104777	0.06
			0.14		0.09		0.05		0.03		0.06		0.02		0.03
		WC 0104782	0.14	WC 0104802	0.09	WC 0104960	0.06	WC 0104980	0.02	WC 0105000	0.06	WC 0105010	0.02	WC 0105030	0.03
			0.04		0.05		0.07		0.06		0.04		0.06		0.07
		WC 0105039	0.04	WC 0105059	0.06	WC 0105079	0.07	WC 0105099	0.06	WC 0105131	0.04	WC 0105151	0.06	WC 0105156	0.06
			0.02		0.06		0.02		0.06		<0.01		0.07		0.01
		WC 0105171	0.02	WC 0105191	0.05	WC 0105294	0.02	WC 0105314	0.07	WC 0105334	<0.01	WC 0105354	0.07	WC 0105394	0.01
			0.09		0.09		0.09		0.08		0.06				
		WC 0105414	0.08	WC 0105414	0.08	WC 0105434	0.09	WC 0105454	0.08	WC 0105492	0.07				

Total: 43

Total: 40

Total: 40



SUMMARY OF QUALITY CONTROL DATA - BLIND DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value
Suspended Solids mg/L	exceed 20%	WC 0104512	12.9	WC 0104513	10.6	WC 0104514	9.6	WC 0104515	10.9	WC 0104516	10.8	WC 0104661	11.6	WC 0105770	8.2	WC 0104519	10.2	WC 0105465	14.8	WC 0105466	14.0	WC 0105467	19.6
			12.3		10.7		13.6		11.9		11.9		9.2		6.8		13.4		15.4		13.9		
		15.2	14.0	10.6	13.8	14.0	18.9	10.8	12.2	8.2	15.2	13.8											
		17.5	13.7	10.9	11.7	11.9	19.4	15.1	11.0	11.2	13.7	12.7											
		24.9	34.9	8.2	22.3	11.4	15.2	24.7	11.2	13.5	8.2	7.5											
		25.3	11.0	26.8	32.0	8.3	10.8	23.7	11.8	9.0	8.0	7.7											
		11.1	10.6	41.9	10.1	11.5	6.8	16.9	12.5	15.8	17.1	6.0											
		11.2	8.2	33.2	11.4	15.6	9.2	16.7	13.6	19.3	11.9	9.0											
		9.0	9.6	11.6	11.8	13.6	14.0	11.4	11.6	8.8	7.8	8.0											
		13.4	7.2	9.1	7.3	9.0	9.6	12.8	15.6	11.6	7.5	6.6											
		7.6	8.6	11.6	12.2	12.0	12.0	9.8	13.2	11.6	16.4	16.8											
		7.0	9.0	10.5	11.5	13.2	12.2	8.9	13.0	13.7	16.3	17.7											
		14.2	12.8	12.0	11.6	11.0	15.4	9.4	13.0	11.6	12.8	21.1											
		15.3	12.7	13.0	13.8	10.8	16.8	9.3	13.9	13.3	12.1	23.7											
		14.9	14.7	15.3	12.7	12.9	11.1	12.9	24.5	10.1													
		16.7	15.5	14.5	12.3	13.9	11.7	13.9	25.6	11.0													
		0.002	0.001	0.001	0.028	0.002	0.001	0.004	<0.001	0.001	0.001	0.006											
		0.002	0.001	0.001	0.026	0.003	0.001	0.004	<0.001	0.001	0.001	0.006											
		0.001	0.001	0.003	0.001	0.002	0.001	0.004	0.001	0.007	0.003	0.004											
		0.002	0.003	0.003	0.001	0.002	0.001	0.004	0.001	0.007	0.003	0.004											
		0.003	<0.001	0.002	0.004	0.003	0.001	0.005	0.001	0.001	0.001	0.004											
		0.003	0.001	0.002	0.004	0.003	0.001	0.005	0.001	0.001	0.001	0.003											
		0.004	0.001	0.003	0.001	0.002	0.001	0.008	0.001	0.001	0.006	0.001											
		0.004	0.004	0.004	0.001	0.002	0.001	0.008	0.008	0.001	0.006	0.001											
0.002	0.001	0.006	0.001	0.001	0.001	0.004	0.001	<0.001	0.003	<0.001													
0.003	0.001	0.005	0.001	0.001	0.001	0.003	0.001	0.001	0.003	<0.001													
0.001	0.001	0.002	0.003	<0.001	<0.001	<0.001	<0.001	0.002	0.006	0.002													
0.001	0.001	0.002	0.003	<0.001	0.001	<0.001	<0.001	0.002	0.005	0.001													
0.014	0.009	0.015	0.020	0.017	0.008	0.006	0.002	0.002	0.007	0.006													
0.014	0.009	0.015	0.020	0.017	0.008	0.006	0.002	0.002	0.007	0.006													
0.006	0.016																						
0.006	0.017																						
0.07	0.06	0.07	0.05	0.09	0.05	0.10	0.04	0.01	0.01	0.05													
0.07	0.06	0.07	0.05	0.09	0.05	0.10	0.04	0.01	0.01	0.05													
0.06	0.05	0.04	0.04	0.03	0.04	0.04	0.04	0.09	0.03	0.06													
0.06	0.04	0.04	0.04	0.03	0.04	0.03	0.03	0.09	0.02	0.07													
0.06	0.03	0.03	0.07	<0.01	0.04	0.09	0.03	0.05	0.02	0.11													
0.06	0.03	0.03	0.07	<0.01	0.03	0.08	0.03	0.05	0.02	0.11													
0.13	0.06	0.09	0.05	0.01	0.06	0.21	0.16	0.05	0.15	0.01													
0.14	0.06	0.09	0.05	0.01	0.07	0.21	0.15	0.05	0.14	0.01													
0.05	0.01	0.10	0.02	0.06	0.03	0.10	0.05	0.07	0.08	0.06													
0.05	0.01	0.11	0.02	0.05	0.04	0.09	0.05	0.07	0.10	0.07													
0.01	0.05	0.05	0.09	<0.01	0.01	<0.01	0.04	0.03	0.05	0.05													
0.01	0.04	0.05	0.10	<0.01	0.01	<0.01	0.04	0.04	0.06	0.05													
0.17	0.38	0.30	0.39	0.14	0.38	0.05	0.04	0.34	0.25	0.10													
0.17	0.37	0.30	0.39	0.14	0.38	0.05	0.04	0.34	0.25	0.10													
0.50	0.03																						
0.50	0.03																						

Total: 86

Total: 79

Total: 79