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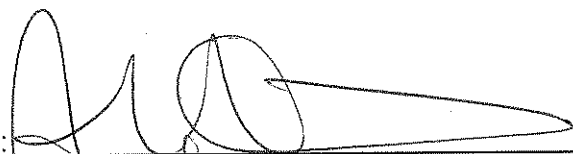
MateriaLab

Ref No.: 100440EN120024

Contract No. EP/SP/58/08
Sludge Treatment Facilities
Environmental Monitoring and Audit Report
For
January 2012

MateriaLab Ref No.: 100440EN120024

Certified by



John K. M. Ho
(Environmental Team Leader)

Date

: 04 February 2012



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Date 8 February 2012
Our Ref. MTL/CH/0197/2012/C

Veolia Water - Leighton – John Holland Joint Venture
30/F Tower 1 Kowloon Commerce Centre,
No. 51 Kwai Cheong Road,
Kwai Chung, Hong Kong.

Attn. : Mr. Andrew Watson

By fax & mail
Fax : 2430 8022

Dear Sir,

**Contract No. EP/SP/58/08 -
Sludge Treatment Facilities
Monthly Monitoring Report for January 2012**

We enclose herewith one original, seven copies and two electric copies of the Monthly Monitoring Report for January 2012 (100440EN120024) for the captioned project.

Should there be any queries, please feel free to contact us.

Assuring you of our best services at all times.

Yours faithfully,
for and on behalf of
FUGRO TECHNICAL SERVICES LIMITED

John Ho
Environmental Team Leader
Chemical & Environmental

JH/kc

BMT Asia Pacific Ltd
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8 February 2012 2012
Our Ref: 8764/0261

By Post

VW-VES (HK) Limited
Unit 3006-10,
Level 30, Tower 1,
Kowloon Commerce Centre,
No. 51 Kwai Cheong Road,
Kwai Chung

Attention: Mr. Vincent Deleu, Project Manager

Dear Sir,

**CONTRACT NO. EP/SP/58/08 DESIGN, BUILD AND OPERATE OF SLUDGE
TREATMENT FACILITIES
- MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT
(JANUARY 2012)**

I refer to the revised report from Environmental Team provided on 6 February 2012. I do not have further comment and have verified the captioned report.

Yours faithfully
BMT Asia Pacific Limited



Claudine Lee
Independent Environmental Checker

Cc. Environmental Manager – Mr. Chris Chan (By email)
ET Leader - Fugro Technical Services Ltd., Mr. John Ho (By email)

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1. Executive Summary

Construction work commenced on 22 December 2010. It was of main concern to ascertain whether there was any undesirable effect of the construction activities on various environmental parameters over the site area and the surrounding environment. Impact environmental monitoring on water quality, ecology and landscape and visual impact were carried out to acquire data for assessing any impact associated with the construction activities. This report covers the period from 25 December 2011 to 24 January 2012 inclusive.

Marine Water Quality

Pursuant to EM&A manual, marine water quality monitoring is required during the foundation piling. Piling work was commenced on 21 February 2011 while marine water quality monitoring was conducted during the foundation piling. Although the foundation piling work was completed on 13 October 2011, the unexpected obstruction from Type A Rock Fill during the excavation and lateral support (ELS) works for the construction of facilities required additional pre-bore operation. Hence, marine water quality monitoring resumed to ensure no adverse impact caused to the nearby marine environment.

As far as the water quality was concerned, 1 event of non-compliance of Action / Limit levels for aluminium content was recorded in the reporting period.

With regards the exceedance and pursuant to the Action Plan, the frequency of monitoring has been increased to daily basis starting on 21 January 2011. After received the most updated results, the aluminium content of seawater collected on the consecutive days after the incident was found to return below the trigger level.

Stream Water Quality

As far as the water quality was concerned, 5 events of non-compliance of Action level regarding pH were recorded in the reporting period.

The recorded exceedances are not caused by the construction activities so there was no action taken with regards to the action plan.

In general, the stream water quality was not significantly deteriorated after the commencement of the major construction works on 21 February 2011.

Landfill Gas Monitoring

There was no excavation in the WENT Landfill Consultation Zone in the reporting period. Monitoring for landfill gas was not carried out in the reporting period.

Ecology Monitoring

Four surveys were conducted on 29 December 2011, 05, 12 and 20 January 2012 at the Middle Lagoon. Total of 56 nos. of birds of 3 species was recorded on 05 January 2012. None of the birds showed any apparent signs of disturbance arising from the STF construction activities. All measures were followed to minimize the disturbance of the wildlife. No disturbance was observed while construction work in progress.

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Landscape and Visual Monitoring

Landscape and visual impact monitoring was conducted on 06 and 20 of January 2012. Details are presented in Section 4.4.

Works Undertaken During Reporting Period

The construction phase commenced on 22 December 2010, major site activities conducted in the reporting period includes:

- Site Formation;
- Waterproofing;
- Steel Works;
- Strut Erection;
- Formwork Erection;
- Substructure Works: Reinforcement, Formwork, Concreting;
- Structure Works: Reinforcement, Formwork, Concreting;
- Assembly of Boiler;
- Structural Steel Erection;
- Temporary Access Bridge Construction;
- Temporary Transformer Room Construction;
- Welfare Facilities Construction (include canteen, area for morning exercise); and
- Pre-bore Operation.

Works area is shown in Figure 1.1

Reporting Changes and Future Key Issues

It is anticipated that the existing operation should not create significant nuisance and disturbance on the environmental aspects of air quality, noise level and water quality. Foundation piling was started on 21 February 2011 and completed on 13 October 2011. Additional pre-bore operation was started during the reporting period. Contractor should implement proposed measures to minimize potential impact to the noise and prevent releasing of heavy metals into the Deep Bay Water Control Zone.

Complaints, Summons and Successful Prosecutions

As far as complaints, summons and successful prosecutions on the construction work in respect of the environmental protection and pollution control was concerned, there was no documented correspondence received in the reporting period.

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2. Introduction

This monthly report reviews the progress of the environmental monitoring and audit work at the site for Contract No. EP/SP/58/08 from 25 December 2011 to 24 January 2012 (the reporting period) and forecasts the activities for February 2012. The monitoring results for water quality are presented in Appendix 3 and the corresponding graphical plots are shown in Appendix 4. Findings of Ecology and Landscape monitoring are presented in Section 4.

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3. General Review

3.1 Background

The Contractor, VW-VES (HK) Limited, has been awarded a contract by the Environmental Protection Department of the Government of the Hong Kong Special Administrative Region for the Sludge Treatment Facilities. The location of the site is shown in Figure 3.1.

The program commenced in November 2010 and is anticipated to complete in 2013.

The construction schedule will be based on the major works associated with the project. The major works under this contract include:

Incineration Plant

- a) Sludge receiving, storage and feeding system
- b) Fluidized bed incinerators
- c) Waste heat recovery and power generation system
- d) Flue gas treatment system
- e) Ash storage and handling system
- f) Residue storage and handling system
- g) Fluidized bed sand storage and handling system
- h) Reagent reception and storage system
- i) Process control and monitoring system

Ancillary and supporting Facilities

- a) Weighbridge
- b) Site security
- c) Administration building
- d) Vehicle washing facilities
- e) Maintenance workshop and utility yard
- f) Drainage system
- g) Sewerage system
- h) Sewage treatment works
- i) Water supply system
- j) Deodorization system

Construction program for the captioned project is enclosed in Appendix 5.

Fugro Technical Services Ltd. – MateriaLab Division (MateriaLab) has been commissioned by the client as the Environmental Team which comprises the monitoring staff and the environmental auditor to undertake the environmental monitoring and audit work for this project. The project management structure and organization chart is shown in Appendix 6.

The contact person and telephone numbers of key personnel for the captioned project are shown in Table 3.1.

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Table 3.1 The Contact Persons and Telephone Numbers of Key Personnel

| Company / Department | Role in the Contract | Contact Person | Telephone Number |
|--|-----------------------------------|-------------------|------------------|
| VW-VES (HK) Limited | Contractor | Mr. Vincent Deleu | 2253 2600 |
| Environmental Protection Department | Employer | Mr. Kenneth Chan | 2872 1800 |
| Environmental Protection Department, EIAO | EIAO Officer | Mr. Thomas To | 2835 1103 |
| JACOBS | Employer Representative | Mr. Leslie Swann | 2880 9788 |
| Fugro Technical Services Ltd. – MaterialLab Division | Environmental Team | Mr. John Ho | 2450 8233 |
| BMT Asia Pacific Ltd. | Independent Environmental Checker | Ms. Claudine Lee | 2241 9847 |

3.2 Summary of Environmental Monitoring and Audit (EM&A) Requirements

The EM&A program requires the monitoring of water quality prior to the commencement of and during the construction. A baseline report was prepared in December 2010 for the contract based on monitoring data acquired before the commencement of construction works.

Impact monitoring of water quality is to be undertaken at the designated monitoring stations. The monitored parameters are summarized in Table 3.2.

Action and Limit (AL) levels are established based on the data from the baseline report. Should the monitoring results indicate any non-compliance of AL levels, actions according to the Event / Action Plan in Appendix 7 are to be followed and appropriate environmental mitigation measures as in Appendix 8 are to be implemented to rectify the situation. The implementation status of mitigation measures is also shown in Appendix 8.

Impact ecology and visual survey are to be conducted at the construction area on regular basis. Monitoring parameters are tabulated in Table 3.2.

The Contractors (VW-VES (HK) Limited) is responsible for waste control within the construction site, removal of the waste material produced from the site and to implement any mitigation measures to minimize waste or redress problems arising from the waste from the site. The waste material may include any sewage, waste water or effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the site onto any adjoining land, storm sewer, sanitary water, or any waste matter or refuse to be deposited anywhere within the site or onto any adjoining land.

The Contractor shall also pay attention to the Waste Disposal Ordinance, the Dumping at Sea Ordinance, the Public Health and Municipal Services Ordinance and the Water Pollution Control Ordinance, and carry out the appropriate waste management work. The relevant licence / permit, such as the effluent discharge licence, the chemical waste producer registration, etc. shall be obtained. The

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Contractor shall refer to the relevant booklets issued by EPD when applying for the licence / permit.

The environmental mitigation measures and status for waste management are summarized in Appendix 8.

Table 3.2 Summary of Monitored Parameters

| Parameters | Monitored Items | Number of Stations | Frequency | Requirement |
|-----------------------------|---|--|--|---|
| Marine water | <ul style="list-style-type: none"> ▪ Cadmium ▪ Chromium ▪ Aluminium | 2 monitoring stations and 1 control station | Three days per week for mid-ebb and mid-flood tides during foundation piling of the STF. | Sampling is taken at three water depths, namely, 1m below water Surface, mid-depth and 1m above sea bed, except where the water depth be less than 6m, in which case the mid-depth station may be omitted. Shall the water depth be less than 3m, only the mid-depth station will be monitored. |
| Stream water | <ul style="list-style-type: none"> ▪ pH ▪ Turbidity ▪ Suspended solids ▪ Dissolved oxygen | 3 monitoring stations and 2 control stations | Three days per week for mid-ebb and mid-flood tides during site formation and foundation piling of the STF and construction of the access road. | <ul style="list-style-type: none"> ▪ Two consecutive measurements of DO concentration, DO saturation, turbidity and pH are taken at mid-depth at each location. ▪ Water samples for SS measurement is collected at the same depth at each location. |
| Ecology | Site condition and bird monitoring | Whole Middle Lagoon and 20 m from the boundary of the Lagoon | <ul style="list-style-type: none"> ▪ Monthly monitoring for avifauna. ▪ Habitat monitoring at least twice per month. ▪ Monthly vegetation monitoring. | <ul style="list-style-type: none"> ▪ Avifauna and their behavior. ▪ All birds seen and heard should be identified and counted. ▪ Signs of breeding of birds. ▪ Coverage of water and PFA filling activities in Middle Lagoon. |
| Landscape and Visual Impact | All measures, including compensatory planting, undertaken by both the Contractor and the specialist Landscape Sub-Contractor | East Lagoon | Biweekly. | Ensure compliance with the intended aims of the measures and the effectiveness of the mitigation measures. |

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Table 3.2 (Con't)

| Parameters | Monitored Items | Number of Stations | Frequency | Requirement |
|--------------|---|---|--|---|
| Landfill gas | <ul style="list-style-type: none"> ▪ Oxygen ▪ Methane ▪ Carbon dioxide | Excavation, operation in chamber and confined space within the WENT Landfill Control Zone. (See Figure 3.2) | During the construction and operation. | <ul style="list-style-type: none"> ▪ Excavation between 300mm to 1m deep: <ul style="list-style-type: none"> - Directly after the excavation has been completed. - Periodically whilst the excavation remains open. ▪ Excavation deeper than 1m: <ul style="list-style-type: none"> - At ground surface before excavations commences. - Immediately before any worker enters the excavation. - At the beginning of each working day for the entire period the excavation remains open. - Periodically whilst the excavation remains open. |

3.3 Action and Limit Levels

Water Quality Limit

Environmental auditing on the monitoring data is to be undertaken based on the Action and Limit (AL) levels for water quality to check against any non-compliances.

The AL levels for monitored parameters are formulated from the baseline monitoring data. The AL levels for marine and stream water quality are tabulated in Table 3.3.

Table 3.3 Action and Limit Levels for Marine and Stream Water Quality

| Parameters | Action Level | Limit Level |
|------------------------------|--|--|
| DO in mg/L (mid-depth) | ≤ 5.16 | ≤ 4 |
| SS in mg/L (mid-depth) | ≥ 41 AND 120% of control station's SS on the same day of measurement | ≥ 85 AND 130% of control station's SS on the same day of measurement |
| Turbidity in NTU (mid-depth) | ≥ 36.4 AND 120% of control station's turbidity on the same day of measurement | ≥ 78.9 AND 130% of control station's turbidity on the same day of measurement |
| pH | $\text{pH} \leq 7.55$ or $\text{pH} \geq 8.11$ | $\text{pH} \leq 6$ or $\text{pH} \geq 9$ |

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Table 3.3 (Con't)

| Parameters | Action Level | Limit Level |
|-------------------|--------------|-------------|
| Cadmium in µg/L | ≥ 0.5 | ≥ 0.5 |
| Chromium in µg/L | ≥ 1 | ≥ 1 |
| Aluminium in µg/L | ≥ 20 | ≥ 20 |

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Landfill Gas Limit

Depending on the results of the measurements, actions required will be vary and should be set down by the Safety Officer or other appropriately qualified person. The actions shown in Table 3.4 should be referred as the minimum requirements to be encompassed.

Table 3.4 Action Level for Landfill Gas Measurement

| Parameter | Measurement | Action |
|----------------|--------------------------------------|---|
| Oxygen | <19 % | ▪ Ventilate to restore oxygen to >19 % |
| | <18 % | ▪ Stop works ▪ Evacuate personnel / prohibit entry ▪ Increase ventilation to restore oxygen to >19 % |
| Methane | >10 % LEL (i.e. >0.5 % by volume) | ▪ Prohibit hot works ▪ Ventilate to restore methane to <10 % LEL |
| | >20 % LEL (i.e. >1 % by volume) | ▪ Stop works ▪ Evacuate personnel / prohibit entry ▪ Increase ventilation to restore methane to <10 % LEL |
| Carbon dioxide | >0.5 % | ▪ Ventilate to restore carbon dioxide to <0.5 % |
| | >1.5 % | ▪ Stop works ▪ Evacuate personnel / prohibit entry ▪ Increase ventilation to restore carbon dioxide to <0.5 % |

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4. Construction Phase Environmental Monitoring

The construction phase was commenced on 22 December 2010. During the construction phase, impact water quality monitoring for marine and stream is required. The monitoring locations are shown in Appendix 1.

4.1 Water Quality Monitoring

4.1.1 Monitoring Methodology

Marine Water Quality

During the course of foundation piling of the STF, the impact conditions of marine water quality are measured at two monitoring stations and one control station with coordinates as shown in Appendix 1. The Environmental Team Leader shall agree with the IEC and EPD on all the monitoring stations.

During the course of foundation piling, impact monitoring shall be undertaken three days per week, at mid-flood and mid-ebb tides, with sampling and measurement at the designated monitoring stations.

Although the foundation piling of the STF has been completed on 13 October 2011, the unexpected obstruction from Type A Rock Fill during the excavation and lateral support (ELS) works for the construction of facilities required additional pre-bore operation. Pursuant to Clause 5.1.1.2 of the EM&A Manual, marine water quality monitoring shall be carried out during construction activities that might cause impact to Deep Bay Water Zone.

With regards the exceedance reported for aluminium content in seawater sample collected at M1 on 10 January 2012 and pursuant to the Action Plan, the frequency of marine water quality monitoring has been increased to daily basis starting on 21 January 2012.

After received the most updated results, the aluminium content of seawater collected on the consecutive days (12 and 14 January 2012) after the incident was found to return below the trigger level (<20µg/L). According to the Action Plan, the ad-hoc monitoring will be cancelled starting on 01 February 2012.

Samples are to be taken at three water depths, namely 1m below water surface, mid-water and 1m above seabed at both mid-flood and mid-ebb tides, except where the water depth is less than 6m, the mid-depth station may be omitted. Should the water depth be less than 3m, only mid-depth will be monitored.

Water samples should be kept in chilled condition (~4°C) during delivery to laboratory and before commencement of the analysis. The parameters of laboratory analysis include Cadmium, Chromium and Aluminium. The method statements are shown in Table 4.1.

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Table 4.1 Method Statements of Laboratory Analysis of Marine Water Quality

| Parameters | Method | Detection limit, µg/L |
|------------|--------------------|-----------------------|
| Cadmium | USEPA method 6020A | 0.5 |
| Chromium | | 1 |
| Aluminium | | 20 |

Stream Water Quality

Monitoring of pH, turbidity level (NTU), suspended solids level (mg/L), and dissolved oxygen (mg/L) are conducted at the designated locations including three monitoring stations and two control stations as shown in Appendix 1. The method statements are shown in Table 4.2.

Dissolved oxygen, turbidity and pH are measured *in-situ* while suspended solids content is determined in a HOKLAS accredited laboratory.

Impact monitoring is undertaken three days per week during mid-ebb and mid-flood tides.

Table 4.2 Method Statements of Laboratory Analysis of Stream Water Quality

| Parameters | Method | Detection limit, mg/L |
|------------------|---------------------------------------|-----------------------|
| Suspended solids | APHA, 18 th edition, 2540D | 1 |

4.1.2 Monitoring Equipment

The equipment employed for the monitoring are presented in Table 4.3 and the calibration certificates are attached in Appendix 2.

Table 4.3 Water Quality Monitoring Equipment

| Equipment | Model | Parameters Measured |
|---|---|---------------------|
| <i>Fieldwork – Marine Water Quality Monitoring</i> | | |
| Global positioning system (GPS) | Trimble Scout Master / Magellan Colotrak | Positioning |
| Echo sounder | Eagle Magna 3 | Depth |
| Water sampler | Kahlsico 135WB153 | Water sampling |
| <i>Fieldwork – Surface Water Quality Monitoring</i> | | |
| pH meter | YSI Professional Plus Model: Proplus - 4 | pH |
| Dissolved oxygen meter | | Dissolved oxygen |
| Salinity meter | | Temperature |
| Turbidity meter | HACH 2100P | Turbidity |
| Water sampler | Kahlsico 135WB153 / Pitcher | Water sampling |
| <i>Laboratory Analysis</i> | | |
| Analytical balance | Ohaus AP210S | Suspended solids |
| Oven | WIB-Binder IP120 | Suspended solids |
| Vacuum pump | GAST DOA-P104-BN | Suspended solids |

4.1.3 Review of the Construction Phase Monitoring Programme

The schedule for the marine and stream water monitoring programme in the reporting period is shown in Table 4.4.

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Table 4.4 Monitoring Schedule of Stream and Marine Water from 25 December 2011 to 24 January 2012

| SUN | MON | TUE | WED | THU | FRI | SAT |
|----------------|-----|-----------|-----|-----------|-----|-----------|
| 25 Dec 2011 | 26 | 27 W M | 28 | 29 W M | 30 | 31 W M |
| 01 Jan 2012 | 02 | 03 W M | 04 | 05 W M | 06 | 07 W M |
| 08 | 09 | 10 W M | 11 | 12 W M | 13 | 14 W M |
| 15 | 16 | 17 W M | 18 | 19 W M | 20 | 21 W M |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

Legend: W – Stream water quality monitoring at C1, C2, W1, W2 and W3. Three days per week.

M – Marine water quality monitoring at DM4, M1 and M2. Three days per week.

- Note:
- The frequency of marine water quality monitoring increased to daily starting on 21 January 2012 due to one Action / Limit Levels exceedance recorded on 10 January 2012.
 - Since the construction site was closed during 22 January to 25 January 2012 inclusive, marine and stream water quality monitoring were not conducted during that period.

4.1.4 Impact Water Quality Monitoring Result

The impact water quality monitoring data, laboratory results and QC data are shown in Appendix 3. The statistical analysis of the data is shown in Table 4.5. Graphical plot of average measurement is enclosed in Appendix 4.

During the course of the monitoring work, site formation, waterproofing, steel works, strut erection, formwork erection, substructure works: (Reinforcement, Formwork, Concreting), structure works: (Reinforcement, Formwork, Concreting), assembly of boiler, structural steel erection, temporary access bridge construction, temporary transformer room construction, welfare facilities construction (include canteen, area for morning exercise), and pre-bore operation were observed within the project area.

Table 4.5 Water Quality Monitoring Results (25 December 2011 to 24 January 2012)

| Location | Parameters | Maximum | Minimum | Mean |
|------------------------------------|-------------------------|---------|---------|-------|
| Stream Water Quality Result | | | | |
| W1 | Dissolved Oxygen (mg/L) | 8.63 | 6.20 | 7.18 |
| | Turbidity (NTU) | 27.10 | 6.30 | 11.84 |
| | pH | 7.97 | 7.43 | 7.71 |
| | Suspended Solids (mg/L) | 36.00 | 4.00 | 13.00 |
| W2 | Dissolved Oxygen (mg/L) | 10.62 | 5.36 | 7.33 |
| | Turbidity (NTU) | 31.00 | 6.11 | 16.33 |
| | pH | 8.11 | 7.31 | 7.71 |
| | Suspended Solids (mg/L) | 43.00 | 5.00 | 18.00 |
| W3 | Dissolved Oxygen (mg/L) | 14.20 | 5.27 | 8.46 |
| | Turbidity (NTU) | 32.80 | 2.91 | 13.69 |
| | pH | 8.38 | 7.23 | 7.77 |
| | Suspended Solids (mg/L) | 40.00 | 3.00 | 15.00 |

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Table 4.5 (Con't)

| Location | Parameters | Maximum | Minimum | Mean |
|------------------------------------|------------------|---------|---------|-------|
| <i>Marine Water Quality Result</i> | | | | |
| M1 | Cadmium (µg/L) | < 0.5 | < 0.5 | < 0.5 |
| | Chromium (µg/L) | < 1 | < 1 | < 1 |
| | Aluminium (µg/L) | 67 | < 20 | 64 |
| M2 | Cadmium (µg/L) | < 0.5 | < 0.5 | < 0.5 |
| | Chromium (µg/L) | < 1 | < 1 | < 1 |
| | Aluminium (µg/L) | < 20 | < 20 | < 20 |

4.1.5 Summary of Non-compliances of the Environmental Quality Performance Limits from 25 December 2011 to 24 January 2012

Marine Water Quality

1 event of non-compliance regarding aluminium was recorded on 10 January 2012 (from 25 December 2011 to 24 January 2012). Details are refers to Appendix 9.

Table 4.6a Summary of Exceedances (Marine Water Quality) from 25 December 2011 to 24 January 2012

| Date & Time | Location | Parameters |
|---|-------------------------|---|
| 10 Jan 2012, 09:40 to 10:12 (Mid-Flood) | M1: Surface Level | Aluminium : 64 µg/L (Limit Level Exceedance) Control Point - DM4 : <20 µg/L |
| 10 Jan 2012, 09:40 to 10:12 (Mid-Flood) | M1: Bottom Level | Aluminium : 64 µg/L (Limit Level Exceedance) Control Point - DM4 : <20 µg/L |

Stream Water Quality

5 events of non-compliance regarding pH were recorded on various days from 25 December 2011 to 24 January 2012. Details are refers to Appendix 9.

Table 4.6b Summary of Exceedances (Stream Water Quality) from 25 December 2011 to 24 January 2012

| Date & Time | Location | Parameters |
|---------------------------------------|----------|---|
| 10 Jan 2012, 13:45 to 14:40 (Mid-Ebb) | W2 | pH : 8.11 (Action Level Exceedance) C1 : (No Water) C2 : 8.44 |
| | W3 | pH : 8.38 (Action Level Exceedance) C1 : (No Water) C2 : 8.44 |

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Table 4.6b (Con't)

| Date & Time | Location | Parameters |
|---------------------------------------|----------|---|
| 17 Jan 2012, 07:03 to 07:45 (Mid-Ebb) | W1 | pH : 7.45 (Action Level Exceedance) C1 : (No Water) C2 : 7.04 |
| | W2 | pH : 7.33 (Action Level Exceedance) C1 : (No Water) C2 : 7.04 |
| | W3 | pH : 7.25 (Action Level Exceedance) C1 : (No Water) C2 : 7.04 |

4.1.6 Review of the Events Non-compliance

4.1.6.1 Marine Water Quality Monitoring

Sheet piling and associated pre-drilling works for the construction of seawater intake has been carried out since 21 December 2011. The water was clear around the sampling location during marine water quality monitoring.

1 event of exceedance of aluminium was recorded at mid-flood on 10 January at M1. Since the exceedance recorded was the first exceedance reported, so it is not possible to confirm the cause of the exceedance with limited data. The aluminium content recorded in the afternoon of the same day (mid-ebb) returned to <20 µg/L.

After received the most updated results, the aluminium content of seawater collected on the consecutive days (12 and 14 January 2012) after the incident was found to return below the trigger level (<20µg/L). No potential source of impact was identified and hence, the exceedance should not be related to the Project.

4.1.6.2 Stream Water Quality Monitoring

Construction works, include site formation, waterproofing, steel works, strut erection, formwork erection, substructure works: (Reinforcement, Formwork, Concreting), structure works: (Reinforcement, Formwork, Concreting), assembly of boiler, structural steel erection, temporary access bridge construction, temporary transformer room construction, welfare facilities construction, and pre-bore operation were in progress throughout the reporting period at the North part of the Lagoon and far away from the Tsang Kok Stream. The stream water quality was at the similar level as that before the piling work.

5 events of exceedance of pH were recorded at mid-ebb during January at various locations. The events were recorded at W1, W2 and W3 due to the influence of low or high pH from upstream of the Tsang Kok stream and not owing to construction activities related.

The exceedances of pH were unrelated to the construction works, hence the ad-hoc monitoring was cancelled.

The Incident Report on Action and Limit Level Non-compliance is attached in Appendix 9.

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4.2 Landfill Gas Monitoring

4.2.1 Monitoring methodology

4.2.1.1 Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area.

4.2.1.2 For excavations deeper than 1m measurements should be carried out:

- at the ground surface before excavation commences;
- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically through out the working day whilst workers are in the excavation.

4.2.1.3 For excavations between 300mm and 1m deep, measurements should be carried out:

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

4.2.1.4 For excavations less than 300mm and 1m deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.

4.2.1.5 Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. As a minimum these should encompass those actions specified in Table 3.4.

4.2.2 Monitoring equipment

Table 4.7 Landfill Gas Monitoring Equipment

| Equipment | Model | Parameters Measured |
|--|--------------------------------|---------------------------------|
| <i>Fieldwork – Landfill Gas Monitoring</i> | | |
| Landfill Gas Analyzer | RAE QRAE II Multi-gas Detector | Methane, oxygen, carbon dioxide |

4.2.3 Monitoring result

No excavation or confined space operation in progress inside the WENT Landfill consultation Zone in the reporting period. Monitoring of landfill gas was not required.

4.3 Ecological Monitoring

4.3.1 Piling activities commenced on 21 February 2011 and monitoring surveys are to be conducted weekly during these operations. Accordingly, four monitoring visits were conducted on 29 December 2011, 05, 12, and 20 January 2012 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high

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hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction piling to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

4.3.2 Monthly monitoring of avifauna and their notable behaviour, such as breeding activities in the Middle Lagoon, was conducted on 05 January 2012. The Monitoring Area included the whole Middle Lagoon and area extending 20m from the boundary of the Lagoon (see figure 4.1). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

4.3.3 The list of bird surveys recorded from the survey conducted on 05 January 2012 can be seen in Table 4.8. On that date, there was no water coverage in the Middle Lagoon; the Lagoon was completely dry. No PFA filling activities were recorded in the Middle Lagoon.

Table 4.8 Bird Species observed during Monthly Monitoring Surveys in January 2012

| Survey date: 05 January 2012 | | | |
|------------------------------|----------------------------------|---------------|-----------------------------|
| Water levels: No water | | | |
| Species Name | Scientific Name | Middle Lagoon | Notable / Breeding Activity |
| White Wagtail | <i>Motacilla alba</i> | 6 | none observed |
| Scaly-breasted Munia | <i>Lonchura punctulata</i> | 7 | none observed |
| Crested Myna | <i>Acridotheres cristatellus</i> | 43 | none observed |
| Total Numbers | | 56 | |
| Total Species | | 3 | |

4.4 Landscape and Visual Impact Monitoring

The landscape and visual impact assessment of the EIA Study recommended a series of mitigation measures to ameliorate the landscape and visual impacts of the Project. The measures for the construction phase as recommended in the EIA Report are summarized in Table 4.9.

Site inspections for the monthly EM&A Record for Landscape and Visual Impact (January 2012) were undertaken on 06 and 20 of January 2012. Observation of the implementation of proposed landscape and visual mitigation measures are summarized in Table 4.9.

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Table 4.9 Record of Implementation of the Proposed Landscape and Visual Mitigation Measures in Construction Phase (January 2012)

| ID No. | Nature / Type | Landscape and Visual Mitigation Measures | Status (Jan 2012) | Remarks |
|--------|--------------------------------|---|--|---|
| CM1 | Design / Construction Planning | Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. | Not applicable. | The topsoil was PFA which is not suitable for re-use in the soft landscape works. Suitable topsoil will be imported for planting during landscape planting phase. Suitable topsoil will be imported for planting during landscape planting phase. As per observation on site, the PFA excavated out due to site formation work had been under treatment (dehydration), and will be buried back to its original location inside the site boundary. Capping of the PFA is established to prevent spreading in air. Photographic record of PFA treatment has been shown in Table 4.10. |
| CM2 | Site Practice | Existing trees to be retained on site should be carefully protected during construction. | Tree felling work has commenced since the approval of Phase II tree felling application. Proper procedures of tree felling have been observed during the process. Existing trees to be retained have been carefully protected during construction. | Photographic records of the retained trees are shown in Table 4.10. |
| CM3 | Design / Construction Planning | Trees unavoidably affected by the works should be transplanted where practical. | Tree transplant work has been completed. Proper procedures of tree transplant have been observed during the process. | The contractor monitored the transplanted trees in holding nursery to ensure they are under proper tree protection. |
| CM4 | Design / Construction Planning | Compensatory tree planting should be provided to compensate for felled trees. | In progress. | Compensatory planting plan has been proposed to and approved by DLO. |

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Table 4.9 (Con't)

| ID No. | Nature / Type | Landscape and Visual Mitigation Measures | Status (Jan 2012) | Remarks |
|--------|--------------------------------|---|-------------------|--|
| CM5 | Site Practice | Control of night-time lighting. | In progress. | Night-time work was implemented from 7pm to 11pm for certain period in January 2012. The lighting is confined to the construction site without affecting the periphery area. Photographic record of the night-time working is shown in Table 4.10. |
| CM6 | Design / Construction Planning | Erection of decorative screen hoarding compatible with the surrounding setting. | Completed. | Erection of decorative screen hoarding has been set up along the site boundary. |

CM1 - Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.

Topsoil found within the project site is PFA, which consist of heavy metals and toxic contaminants that it is not suitable to be re-used as soil mix for landscape softwork. Suitable topsoil will be imported for planting during landscape planting phase. All PFA excavated during the tree felling works has been retained in the site confinement. The PFA has been under dehydration and concealed properly to prevent spreading in the air.

CM2 - Existing trees to be retained on site should be carefully protected during construction.

The Tree felling work approved under the Phase 1 and 2 tree felling application has been completed. Proper procedures of tree felling have been observed. The tree felling works should not cause damages to the existing trees on site. The protective tree fence has been established for the retained trees, and some of the broken branches should be removed to avoid further damages. Photographic records of the retained trees are shown in Table 4.10.

CM3 - Trees unavoidably affected by the works should be transplanted where practical.

Tree transplant works for Tree number T332 to T359 has been completed and proper tree transplant procedure has been observed according to the method statement.

CM4 - Compensatory tree planting should be provided to compensate for felled trees.

Compensatory tree planting has been proposed to and approved by DLO in Phase II tree felling application. The compensatory tree planting has been incorporated with the details of the landscape master plan.

CM5 - Control of night-time lighting.

Night-time work was implemented from 7pm to 11pm for certain period in January 2012. The lighting is confined to the construction site without affecting the periphery area.

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CM6 - Erection of decorative screen hoarding compatible with the surrounding setting.
Construction of decorative screen hoarding compatible with the surrounding setting has been set up in January 2012.

Table 4.10 Photographic Record of Landscape and Visual Impact Survey

1. Photographic record of the PFA treatment



The PFA excavated has been dehydrated under sunlight, and will be buried back to its original position inside the site boundary.



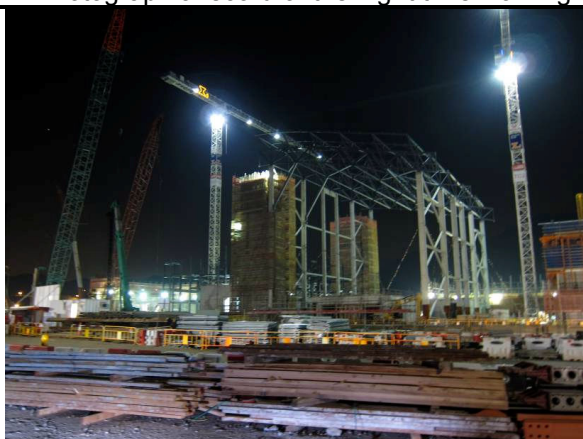
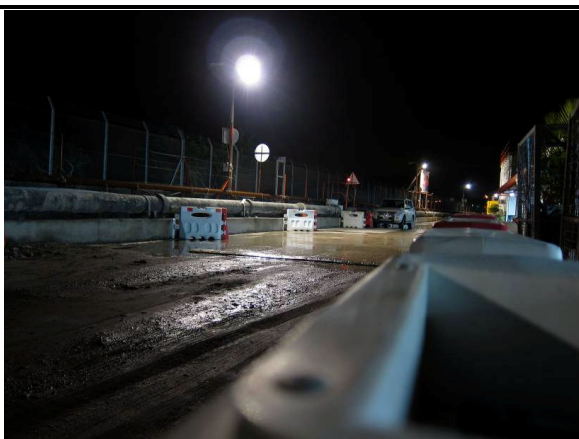
2. Photographic record of protection to the fell / retained trees



The retained trees are in satisfactory condition.

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Table 4.10 (Con't)

| 3. Photographic record of the transplant trees | |
|--|---|
|  |  |
| <p>T758 transplant work has not commenced yet, crown pruning has been commenced to avoid further damaged to the tree during construction. Pruning has been limited to 1/5 of the crown.</p> | <p>T758 transplant work has not commenced yet.</p> |
| 4. Photographic record of the night time working | |
|  |  |
| <p>The lighting during night-time working is confined within the working area within the site boundary. Periphery area and the sensitive receivers are not affected by the lighting during night-time working.</p> | <p>The floodlights mounted on the boundary fence are directed inside the site boundary.</p> |

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5. Construction Site Environmental Audit**Site Audit**

Site audit is necessary to ensure:

- No unacceptable practice on site;
- Identification of potential impacts associated with construction activities; and
- Implementation of additional mitigation measures if necessary.

Environmental Site Audit has been conducted on 30 December 2011, 05, 12 and 19 January 2012.

During the reporting period, as far as the site operation was concerned, site formation, waterproofing, steel works, strut erection, formwork erection, substructure works: (Reinforcement, Formwork, Concreting), structure works: (Reinforcement, Formwork, Concreting), assembly of boiler, structural steel erection, temporary access bridge construction, temporary transformer room construction, welfare facilities construction (include canteen, area for morning exercise), and pre-bore operation were in progress.

Regarding the air quality, access road were watered regularly by water truck or water sprinklers. Most of the site area has been covered by backfill material or coarse asphalt / aggregate. Moisture content of backfill materials and PFA stockpile had to be kept at the designed level before backfilling operation. Contractor should follow the good site practice to minimize the pulverized fuel ash from blowing up from dried surface.

With respect to water quality monitoring, one temporary water detention basin has been constructed at the North of the Lagoon near the ER's office (the east water detention basin has been backfilled). If there is any wastewater generated which will be pumped into the basin and will not be discharged out of the site. Construction of drainage system is in progress.

Major Observation of Site Audit

The contractor is reminded to increase the frequency of watering on unpaved site roads within the site and properly cover the exposed slope with tarpaulin sheeting.

Waste Management

C&D Waste Backfill and excavation works were conducted during the reporting period. C&D waste was generated from the current activities and sent to public fill.

General Refuse Paper / cardboard, metal and plastics were collected by recycling collectors as far as practicable and general refuse was collected and sent to WENT Landfill.

Chemical Waste No chemical waste was generated during the reporting period.

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Wastewater Rain water was treated by the silt removal facilities before discharged outside the site. Waste was collected by licensed collector.

Table 5.1 Waste Flow Summary

| Type of Waste | Quantity Generated in January 2012 | Cumulative quantity during construction period |
|-----------------------------|------------------------------------|--|
| Inert C&D waste | 153.937m ³ | 5,761.958m ³ |
| Chemical waste (Liquid) | NIL | 200.000 L |
| Chemical waste (Solid) | NIL | 24,315.000kg |
| Metal | 77,222.650kg | 884,209.028kg |
| Paper / Cardboard Packaging | 1,409.000kg | 10,971.000kg |
| Plastic | 30.000kg | 293.000kg |
| Others, e.g. general refuse | 99.156m ³ | 1,199.381m ³ |

Remarks: Density of Inert C&D waste and general refuse is 1.9 tonne/m³ and 1.6 tonne/m³ respectively

Impact Predication Review

In February 2012, site formation, waterproofing, steel works, formwork erection, substructure works: (Reinforcement, Formwork, Concreting), structure works: (Reinforcement, Formwork, Concreting), assembly of boiler, structural steel erection, jump form, roof installation, mechanical installation, temporary access bridge construction, pre-bore operation and sheet piling, works over- and under-water, and heavy lifting will be conducted. It is expected that these operations will not impose significant air, noise and water quality impact to the sensitive receivers. Nevertheless, necessary mitigation measures should be deployed when needed.

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6. Summary of Complaints, Summons and Successful Prosecutions

No complaints, summons and successful prosecutions in association with the construction activities concerning the environmental protection and pollution control were received in the reporting period.

Table 6.1 Summary of Environmental Complaints and Prosecutions

| Complaints Logged | | Summons Served | | Successful Prosecution | |
|-------------------|------------|----------------|------------|------------------------|------------|
| Jan 2012 | Cumulative | Jan 2012 | Cumulative | Jan 2012 | Cumulative |
| 0 | 1 | 0 | 0 | 0 | 0 |

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7. Works Program for February 2012

The following major construction works will be in progress in February 2012:

1. Site Formation;
2. Waterproofing;
3. Steel Works;
4. Formwork Erection;
5. Substructure Works: Reinforcement, Formwork, Concreting;
6. Structure Works: Reinforcement, Formwork, Concreting;
7. Assembly of Boiler;
8. Structural Steel Erection;
9. Jump Form;
10. Roof Installation;
11. Mechanical Installation;
12. Temporary Access Bridge Construction;
13. Pre-bore Operation and Sheet Piling;
14. Works Over- and Under-water; and
15. Heavy Lifting.

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8. Monitoring Schedule for February 2012

The monitoring schedule for February 2012 is shown in Table 8.1.

Table 8.1 Monitoring Schedule for February 2012

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----------|---------|--------------|-----------|--------------|---------|--------------|
| 22 Jan | 23 | 24 | 25 | 26 W M | 27 M | 28 W M |
| 29 M | 30 M | 31 W M | 01 Feb | 02 W M | 03 | 04 W M |
| 05 | 06 | 07 W M | 08 | 09 W M | 10 | 11 W M |
| 12 | 13 | 14 W M | 15 | 16 W M | 17 | 18 W M |
| 19 | 20 | 21 W M | 22 | 23 W M | 24 | 25 W M |
| 26 | 27 | 28 W M | 29 | | | |

Legend: W – Stream water quality monitoring at C1, C2, W1, W2 and W3. Three days per week.

M – Marine water quality monitoring at DM4, M1 and M2. Three days per week.

- Note:
1. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
 2. The frequency of marine water quality monitoring increased to daily starting on 21 January 2012, and the ad-hoc monitoring will be cancelled starting on 01 February 2012.

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9. Comments and Conclusions for the reporting period

In this reporting period, i.e. 25 December 2011 to 24 January 2012, site formation, waterproofing, steel works, strut erection, formwork erection, substructure works: (Reinforcement, Formwork, Concreting), structure works: (Reinforcement, Formwork, Concreting), assembly of boiler, structural steel erection, temporary access bridge construction, temporary transformer room construction, welfare facilities construction (include canteen, area for morning exercise), and pre-bore operation were in progress. The site activities did not lead to any significant impact to noise, air quality, stream and marine water quality.

There were 6 events of Action / Limit Level exceedance reported from 25 December 2011 to 24 January 2012. 1 event of aluminium exceedance was reported in the reporting period, which was the first exceedance reported, so it is not possible to confirm the cause of the exceedance with limited data. 5 events of pH exceedance were reported in the reporting period that were influent by low / high pH from upstream. All 5 events of pH exceedance were not related to the construction activities.

Contractor shall ensure proper site practices to be implemented to avoid any deterioration of the environment around the construction site. Although there is no sensitive receivers for noise and air quality close to the site area, mitigation measures to minimize dust and noise generated from site activities should be enforced.

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

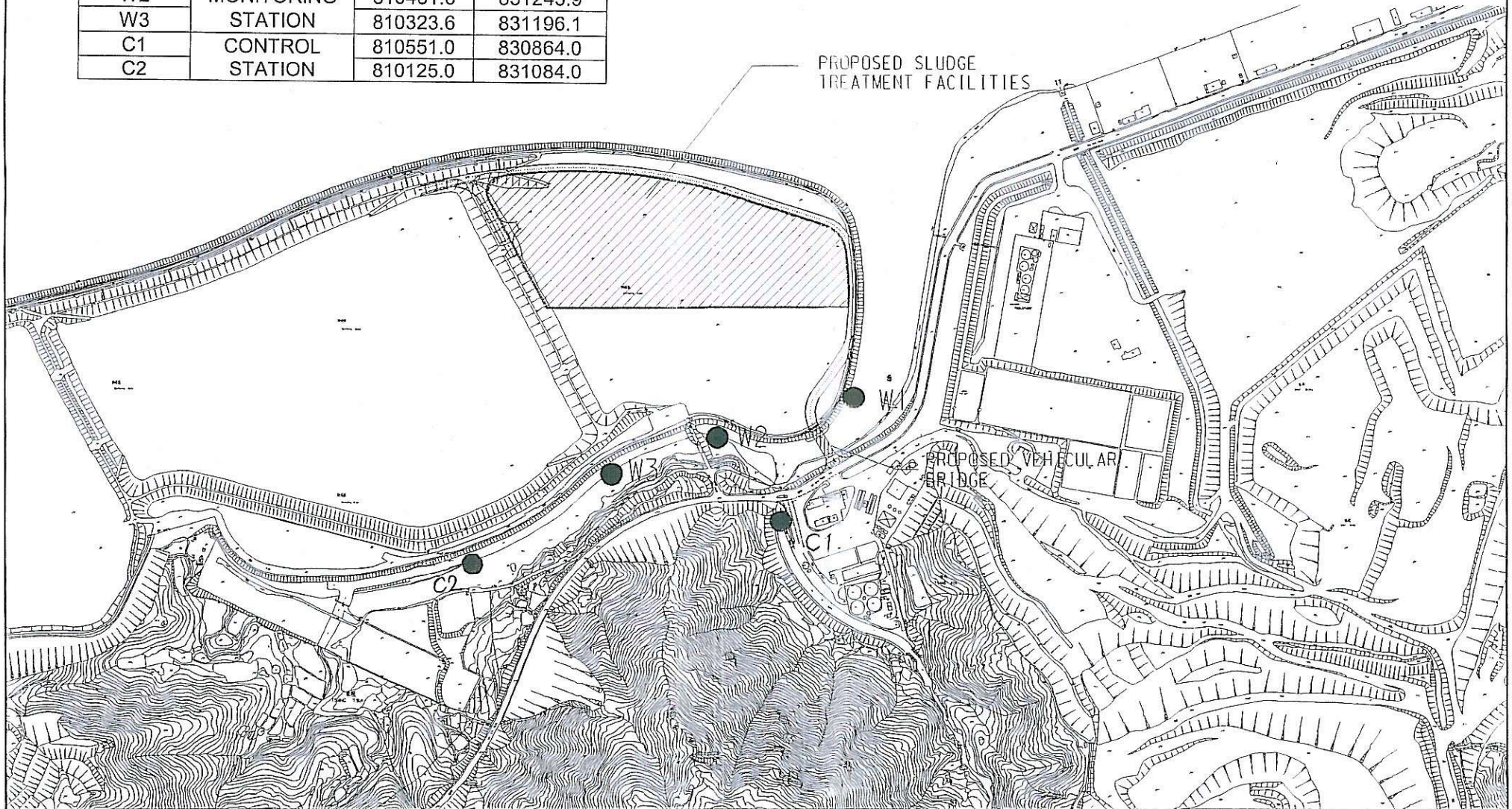
Appendix 1

Water Quality Monitoring Location

LOCATIONS OF STREAM
WATER QUALITY MONITORING STATIONS



| STATION | DESCRIPTION | EASTING | NORTHING |
|---------|-------------|----------|----------|
| W1 | IMPACT | 810639.3 | 831296.8 |
| W2 | MONITORING | 810461.6 | 831243.9 |
| W3 | STATION | 810323.6 | 831196.1 |
| C1 | CONTROL | 810551.0 | 830864.0 |
| C2 | STATION | 810125.0 | 831084.0 |



DATE: 8/2008

MAUNSELL | AECOM
Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION OF WATER QUALITY MONITORING STATIONS

(Sheet 1 of 2)

| | | | |
|---------|-----------|-------------|------------|
| SCALE | A3 1:5000 | DATE | JUN 2008 |
| CHECK | AKYC | DRAWN | LMWJ |
| JOB No. | 60039510 | DRAWING No. | FIGURE 5.1 |
| | | REV | - |

LOCATIONS OF MARINE
WATER QUALITY MONITORING STATIONS

| STATION | EASTING | NORTHING |
|---|----------|----------|
| M1 (IMPACT MONITORING STATION) | 809915.3 | 831971.6 |
| M2 (IMPACT MONITORING STATION) | 809026.4 | 831676.8 |
| DM4 (CONTROL STATION) | 811092.2 | 835181.8 |



DATE: 5DATE 5

MAUNSELL | AECOM
Metcalfe & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION OF WATER QUALITY MONITORING STATIONS

(Sheet 2 of 2)

| | | | |
|---------|------------|-------------|------------|
| SCALE | A3 1:30000 | DATE | JUN 2008 |
| CHECK | ARYC | DRAWN | LMW1 |
| JOB NO. | 60039510 | DRAWING NO. | FIGURE 5.1 |
| | | REV | - |

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Appendix 2

Equipment Calibration Certificates

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Report No. : 921437CA111548(7)

Page 1 of 1

CALIBRATION RECORD OF WHIRLING PSYCHROMETER**Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Calibration Item - Description : Whirling psychrometer
Serial no. : 02586 (Dry Bulb)
02010 (Wet Bulb)
Equipment ID. : E-092-10

Specification limit : According to full checking report no.: 921436CA101642 , Correction at 25.0°C.
Shall be Within -0.3 °C and 0.7 °C for dry bulb, -0.3 °C and 0.7 °C for wet bulb.

Laboratory Information

Calibrating Equipment - Description : Reference thermometer
Equipment ID. : R-053-6

Date of Calibration : 17-Sep-2011 Ambient Temperature : 22 °C

Calibration location : Calibration Laboratory of MaterialLab

Method used : In-house Method R-C-076

In-house testing procedure no. : R-C-076


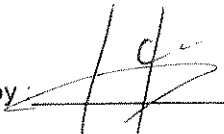
Calibration Results : (All values are in the unit of °C.)

| | | | | | |
|--|---------------------------|--------|----|----|----|
| Test temperature | 25.0 | -- | -- | -- | -- |
| Ref. Thermometer ID. | R-053-6 | -- | -- | -- | -- |
| Correction of Ref. Thermometer at test temperature | N/A | -- | -- | -- | -- |
| Variation of Ref. Thermometer reading in 20sec. | Maximum | 25.035 | -- | -- | -- |
| | Minimum | 25.031 | -- | -- | -- |
| Average between Max. & Min. | 25.033 | -- | -- | -- | -- |
| Corrected temperature, Ra | 25.008 | -- | -- | -- | -- |
| Dry Bulb | Indicated temperature, Rd | 24.9 | -- | -- | -- |
| | Correction, Ra - Rd | 0.1 | -- | -- | -- |
| Wet Bulb | Indicated temperature, Rw | 24.9 | -- | -- | -- |
| | Correction, Ra - Rw | 0.1 | -- | -- | -- |

Corrected temperature = 0.9989 x Average temperature + 0.0016

Remark :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The discrimination of the equipment under test is 0.1 °C (1/5 division).
3. The equipment being calibrated does comply with the specification limit.
4. Recommended next calibration date (6 months, In-house specification) : 17-Mar-2012

Tested by :  Date : 17 SEP 2011 Checked by :  Date : 19 SEP 2011
E. Menor

CA-W-182 (30/07/98)

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MaterialLab

Report No. : 921438WA112199



Page 1 of 2

Report on Calibration of Professional Plus Water Quality Instrument

Information Supplied by Client

Client : Fugro Technical Services Limited – MaterialLab Division – Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One Professional Plus Water Quality Instrument

Client sample ID : E-109-1

Test required : Calibration of the submitted Professional Plus Water Quality Instrument

Laboratory Information

Lab. sample ID : WA112199/1

Date sample received: 05/11/2011

Date of calibration : 08/11/2011

Next calibration date : 08/02/2012

Test method used : In-house comparison method

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 921438WA112199

Page 2 of 2

Results :**A. Salinity calibration**

| Salinity, ‰ | | | |
|-------------|----------|-----------|------------------------------|
| Theoretical | Measured | Deviation | Maximum acceptable Deviation |
| 10 | 10.11 | 0.11 | ± 0.5 |
| 20 | 20.00 | 0.00 | ± 1.0 |
| 30 | 29.95 | -0.05 | ± 1.5 |
| 40 | 39.96 | -0.04 | ± 2.0 |

B. Dissolved Oxygen calibration

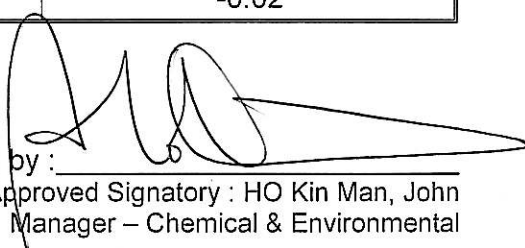
| Trial No. | Dissolved oxygen content, mg/L | |
|-----------|--------------------------------|---------------|
| | By Titration | By D.O. meter |
| 1 | 8.10 | 8.06 |
| 2 | 8.91 | 8.70 |
| 3 | 7.99 | 8.14 |
| Average | 8.33 | 8.30 |

C. Temperature calibration

| Thermometer reading, °C | Meter reading, °C |
|-------------------------|-------------------|
| 21.5 | 21.3 |

D. pH calibration

| pH reading at 22°C for Q.C. solution(6.86) and at 22°C for Q.C. solution(9.18) | | |
|--|----------|-----------|
| Theoretical | Measured | Deviation |
| 9.18 | 9.14 | - 0.04 |
| 6.86 | 6.84 | -0.02 |

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 11/11/2011**** End of Report *****Note : This report refers only to the sample(s) tested.*

FUGRO TECHNICAL SERVICES LIMITED

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Report No. : 921438WA112397



REPORT ON CALIBRATION OF TURBIDIMETER

Information Supplied by Client

Client : Fugro Technical Services Limited – MateriaLab Division – Environmental

Client's address : Fugro Development Centre, 5 Lok Yi St.,
17 M.S. Castle Peak Road, Tuen Mun, N.T.

Project : Routine Calibration

Sample description : One Turbidimeter, HACH Model 2100P

Client sample ID : Serial No. 010800023055 (E-047- 3)

Test required : Calibration of the submitted Turbidimeter

Laboratory Information

Lab. sample ID : WA112397/1

Date sample received : 15/12/2011

Date of calibration : 15/12/2011

Next calibration date : 15/03/2012

Test method used : 1. Three standard turbidity solutions with 20 NTU, 100 NTU and 800 NTU were prepared.
2. After the blank zero was set, the meter was calibrated against the standard solutions.
3. The gelex secondary standard with 0.00 – 9.99 NTU was inserted and the reading of this gelex standard was recorded. Same steps were repeated for 10 – 99.9 NTU and 100 – 1000 NTU gelex standards.

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 921438WA112397

Page 2 of 2

Results:

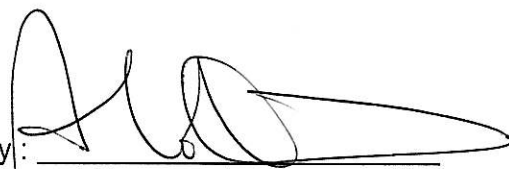
Calibrated Values of Secondary Gelex Standards

| Auto-programmed Turbidity Standard Range | 0.00-9.99 NTU, Gelex Vial | 10-99.9 NTU, Gelex Vial | 100-1000 NTU, Gelex Vial |
|--|---------------------------|-------------------------|--------------------------|
| Calibrated Value of the Secondary Standard, N.T.U. | 5.28 | 43.2 | 438 |

Checking of sample cell condition using filtered ultra-pure water

| Turbidity of procedural blank, NTU | |
|------------------------------------|----------------------|
| Our sample cell | Client's sample cell |
| 0.38 | 0.47 |

- Remarks:
1. Procedural blank of client's sample cell >0.2 NTU, the cell is no longer for low turbidity (<1 NTU) measurement
 2. If the reading of secondary standard was not within $\pm 5\%$ of the calibrated value, the instrument should be recalibrated with formazin primary standards.

Supervised by : Y. M. Chung
 Certified by: 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 30/11/2012

** End of Report **

Note : This report refers only to the sample(s) tested.

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Appendix 3

Stream and Marine Water Quality Monitoring Data

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

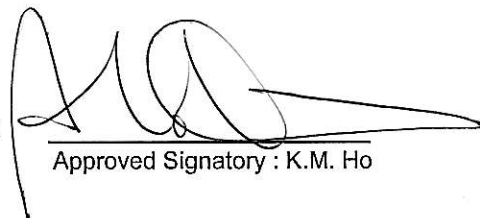
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 27/12/2011 (a.m.) Test No. : 167
Tide State : MID-FLOOD Weather : FINE
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 10:30 | 21 | 0.4 | 17.3 | 29.4 | 7.49 | 92.0 | 25.5 | 7.72 | 31 | No Water |
| | | | | 17.3 | 29.4 | 7.61 | 93.4 | 27.1 | 7.78 | 36 | |
| W2 | 11:04 | 19 | 0.1 | 17.7 | 27.3 | 7.72 | 94.2 | 27.9 | 7.70 | 35 | |
| | | | | 17.7 | 27.4 | 7.64 | 93.2 | 28.5 | 7.70 | 34 | |
| W3 | 10:48 | 18.5 | 0.5 | 17.6 | 24.1 | 8.72 | 104.3 | 22.7 | 7.65 | 25 | |
| | | | | 17.6 | 24.0 | 8.63 | 102.9 | 24.6 | 7.65 | 27 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 11:18 | 19 | 0.1 | 17.2 | 20.2 | 9.73 | 112.8 | 2.60 | 7.46 | 4 | |
| | | | | 17.1 | 20.0 | 9.65 | 112.0 | 2.50 | 7.40 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

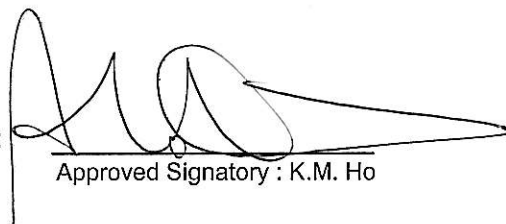
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 27/12/2011 (p.m.) Test No. : 167
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 15:34 | 21 | 0.5 | 18.2 | 29.2 | 8.11 | 101.6 | 17.5 | 7.89 | 21 | No Water |
| | | | | 18.3 | 29.0 | 8.03 | 101.0 | 16.0 | 7.92 | 17 | |
| W2 | 14:58 | 20 | 0.1 | 19.3 | 26.5 | 10.62 | 133.7 | 11.3 | 8.04 | 11 | |
| | | | | 18.6 | 28.5 | 9.07 | 114.1 | 10.6 | 7.94 | 12 | |
| W3 | 14:41 | 20 | 0.7 | 19.8 | 26.4 | 11.56 | 147.1 | 12.9 | 8.05 | 15 | |
| | | | | 19.8 | 26.4 | 11.50 | 146.5 | 12.6 | 8.06 | 15 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 15:18 | 20 | 0.1 | 17.8 | 20.6 | 7.89 | 93.2 | 1.72 | 7.34 | 4 | |
| | | | | 17.8 | 20.3 | 7.93 | 93.9 | 1.63 | 7.30 | 3 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

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MateriaLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

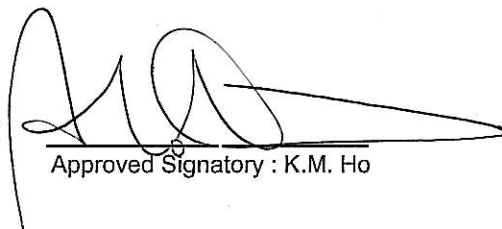
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 29/12/2011 (a.m.) Test No. : 168
Tide State : MID-FLOOD Weather : FINE
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 11:38 | 21 | 0.5 | 18.8 | 29.3 | 8.07 | 102.3 | 15.0 | 7.70 | 18 | No Water |
| | | | | 18.7 | 29.4 | 7.98 | 100.9 | 17.4 | 7.78 | 22 | |
| W2 | 12:53 | 23 | 0.1 | 19.8 | 29.0 | 7.73 | 99.8 | 27.0 | 7.78 | 37 | |
| | | | | 20.0 | 28.9 | 7.47 | 96.0 | 31.0 | 7.77 | 30 | |
| W3 | 12:39 | 23 | 0.6 | 20.3 | 28.0 | 7.81 | 101.2 | 22.9 | 7.73 | 26 | |
| | | | | 20.3 | 28.1 | 8.01 | 103.7 | 22.2 | 7.74 | 25 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 12:17 | 22 | 0.1 | 18.4 | 18.0 | 10.48 | 123.4 | 2.48 | 7.60 | 3 | |
| | | | | 18.3 | 16.6 | 10.70 | 104.7 | 2.60 | 7.67 | 3 | |

Certified by :



Date :

6/1/2012

Approved Signatory : K.M. Ho

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MateriaLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

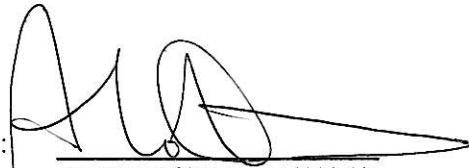
Field Data Record (Stream Water)

Date : 29/12/2011 (p.m.)
Tide State : MID-EBB
Site Condition : NORMAL

Test No. : 168
Weather : FINE

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 17:09 | 20 | 0.5 | 19.3 | 28.6 | 7.03 | 89.9 | 10.3 | 7.75 | 14 | No Water |
| | | | | 19.2 | 28.7 | 6.93 | 88.6 | 11.9 | 7.77 | 12 | |
| W2 | 16:26 | 21 | 0.1 | 20.8 | 27.6 | 9.51 | 124.2 | 13.2 | 7.93 | 15 | |
| | | | | 20.5 | 27.8 | 9.00 | 117.4 | 13.7 | 7.85 | 15 | |
| W3 | 16:05 | 21 | 0.6 | 20.9 | 27.7 | 10.16 | 133.2 | 12.2 | 8.05 | 12 | |
| | | | | 20.9 | 27.2 | 10.38 | 135.8 | 11.2 | 8.06 | 12 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 16:52 | 20 | 0.1 | 18.9 | 15.7 | 6.96 | 81.7 | 2.09 | 7.36 | 1 | |
| | | | | 18.8 | 16.7 | 6.47 | 76.3 | 2.16 | 7.32 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

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Client : VW-VES (HK) Ltd.

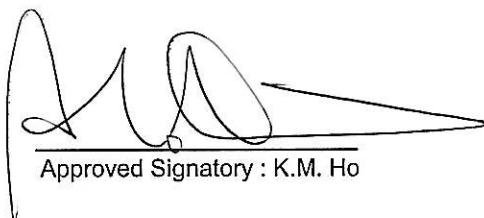
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 31/12/2011 (a.m.) Test No. : 169
Tide State : MID-FLOOD Weather : HAZY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 11:52 | 20 | 0.4 | 18.8 | 28.5 | 7.95 | 100.0 | 12.2 | 7.81 | 14 | No Water |
| | | | | 18.8 | 28.5 | 7.78 | 97.7 | 12.6 | 7.81 | 16 | |
| W2 | 12:42 | 20 | 0.1 | 19.3 | 27.0 | 7.78 | 98.2 | 28.3 | 7.74 | 30 | |
| | | | | 19.3 | 27.0 | 7.70 | 97.1 | 29.0 | 7.74 | 34 | |
| W3 | 12:20 | 20 | 0.5 | 19.5 | 25.7 | 8.30 | 104.3 | 19.6 | 7.72 | 20 | |
| | | | | 19.5 | 25.7 | 8.21 | 103.0 | 19.4 | 7.72 | 20 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 13:10 | 20 | 0.1 | 20.1 | 14.8 | 12.44 | 148.0 | 8.92 | 8.56 | 10 | |
| | | | | 20.0 | 14.6 | 13.39 | 158.5 | 9.02 | 8.56 | 10 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

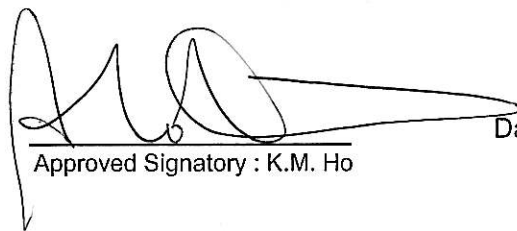
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

| | | | |
|----------------|---------------------|----------|--------|
| Date | : 31/12/2011 (p.m.) | Test No. | : 169 |
| Tide State | : MID-EBB | Weather | : HAZY |
| Site Condition | : NORMAL | | |

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 16:14 | 22 | 0.9 | 19.6 | 28.5 | 8.63 | 110.7 | 9.71 | 7.97 | 10 | No Water |
| | | | | 19.6 | 28.5 | 8.48 | 108.8 | 9.75 | 7.94 | 10 | |
| W2 | 16:33 | 21 | 0.1 | 19.2 | 28.0 | 8.46 | 107.0 | 8.46 | 7.92 | 10 | |
| | | | | 19.1 | 28.1 | 8.41 | 106.4 | 8.98 | 7.91 | 8 | |
| W3 | 16:52 | 21 | 0.8 | 20.0 | 27.3 | 10.60 | 135.9 | 9.21 | 8.08 | 9 | |
| | | | | 20.0 | 27.1 | 10.66 | 136.6 | 9.34 | 8.06 | 8 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 17:10 | 21 | 0.1 | 20.2 | 19.9 | 14.55 | 179.0 | 7.90 | 8.56 | 7 | |
| | | | | 20.2 | 19.8 | 14.64 | 180.1 | 7.81 | 8.55 | 7 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

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Website : www.materiallab.com.hk

MateriaLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 03/01/2012 (a.m.) Test No. : 170
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 8:11 | 17 | 0.2 | 17.1 | 28.7 | 6.78 | 82.9 | 6.30 | 7.66 | 8 | No Water |
| | | | | 17.1 | 28.7 | 6.82 | 83.4 | 6.44 | 7.63 | 7 | |
| W2 | 8:30 | 17 | 0.1 | 17.6 | 26.1 | 5.36 | 65.1 | 7.03 | 7.56 | 9 | |
| | | | | 17.6 | 26.0 | 5.45 | 66.3 | 6.92 | 7.56 | 8 | |
| W3 | 8:52 | 17 | 0.2 | 17.7 | 17.8 | 8.24 | 95.5 | 3.05 | 7.57 | 5 | |
| | | | | 17.7 | 17.8 | 8.10 | 93.6 | 3.11 | 7.56 | 3 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 9:11 | 17 | 0.1 | 17.1 | 10.5 | 9.01 | 98.6 | 1.97 | 7.55 | 1 | |
| | | | | 17.1 | 10.5 | 9.04 | 99.0 | 1.74 | 7.56 | 1 | |

Certified by :



Date :

6/1/2012

Approved Signatory : K.M. Ho

FUGRO TECHNICAL SERVICES LIMITED

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Fugro Development Centre,
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E-mail : matlab@fugro.com.hk
Website : www.materialab.com.hk

Materialab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

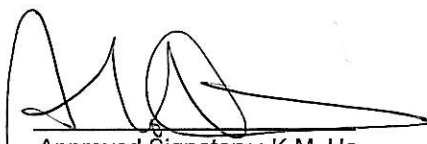
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 03/01/2012 (p.m.) Test No. : 170
Tide State : MID-FLOOD Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 14:25 | 21 | 0.5 | 19.0 | 29.3 | 7.57 | 96.8 | 6.91 | 7.80 | 7 | No Water |
| | | | | 19.1 | 29.4 | 7.45 | 95.3 | 7.03 | 7.80 | 7 | |
| W2 | 14:51 | 21 | 0.1 | 19.9 | 27.2 | 8.22 | 105.5 | 9.57 | 7.81 | 10 | |
| | | | | 19.9 | 27.3 | 8.17 | 104.8 | 9.36 | 7.81 | 10 | |
| W3 | 15:13 | 21 | 0.7 | 19.6 | 28.1 | 8.25 | 105.6 | 10.7 | 7.85 | 12 | |
| | | | | 19.5 | 28.1 | 8.20 | 105.1 | 10.9 | 7.85 | 11 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 14:05 | 21 | 0.1 | 19.5 | 2.95 | 12.36 | 136.2 | 4.09 | 8.62 | 5 | |
| | | | | 19.5 | 2.95 | 12.10 | 133.5 | 3.77 | 8.64 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

6/1/2012

FUGRO TECHNICAL SERVICES LIMITED

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MateriaLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 05/01/2012 (a.m.) Test No. : 171
 Tide State : MID-EBB Weather : CLOUDY
 Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 10:40 | 10 | 0.4 | 13.6 | 26.8 | 6.81 | 76.4 | 7.13 | 7.62 | 8 | No Water |
| | | | | 13.5 | 26.8 | 6.86 | 76.9 | 7.34 | 7.62 | 9 | |
| W2 | 11:21 | 10 | 0.1 | 12.9 | 24.6 | 7.16 | 78.0 | 6.61 | 7.58 | 7 | |
| | | | | 12.9 | 24.6 | 6.99 | 76.2 | 6.80 | 7.59 | 5 | |
| W3 | 11:00 | 10 | 0.5 | 13.4 | 22.0 | 7.73 | 83.8 | 3.02 | 7.64 | 3 | |
| | | | | 13.4 | 21.9 | 7.73 | 83.9 | 2.91 | 7.63 | 4 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 10:13 | 10 | 0.1 | 14.6 | 11.0 | 8.04 | 83.4 | 1.29 | 7.56 | 2 | |
| | | | | 14.5 | 11.2 | 8.15 | 84.6 | 1.40 | 7.55 | 1 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

12/1/2012

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

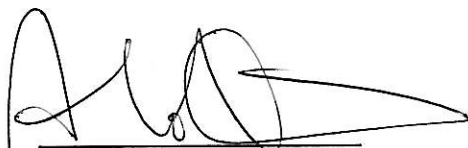
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 05/01/2012 (p.m.) Test No. : 171
Tide State : MID-FLOOD Weather : RAINY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 15:17 | 10 | 0.8 | 14.0 | 26.9 | 7.34 | 83.4 | 6.81 | 7.92 | 6 | No Water |
| | | | | 14.0 | 26.9 | 7.30 | 83.0 | 6.66 | 7.91 | 7 | |
| W2 | 15:56 | 10 | 0.1 | 12.7 | 26.1 | 7.44 | 81.8 | 8.81 | 7.75 | 8 | |
| | | | | 12.7 | 26.1 | 7.48 | 82.1 | 8.50 | 7.76 | 8 | |
| W3 | 16:13 | 10 | 0.9 | 13.0 | 26.0 | 7.25 | 80.5 | 8.87 | 7.70 | 8 | |
| | | | | 13.0 | 25.9 | 7.10 | 78.4 | 8.70 | 7.69 | 8 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 15:40 | 10 | 0.1 | 13.2 | 17.9 | 11.66 | 123.3 | 3.26 | 8.22 | 3 | |
| | | | | 13.2 | 17.9 | 11.30 | 126.3 | 3.46 | 8.21 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

12/1/2012

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MateriaLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

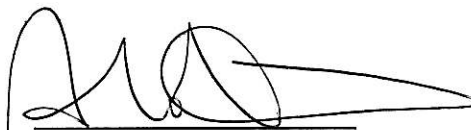
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 07/01/2012 (a.m.) Test No. : 172
 Tide State : MID-FLOOD Weather : CLOUDY
 Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 9:10 | 12 | 0.4 | 14.5 | 27.3 | 6.72 | 76.9 | 9.37 | 7.66 | 7 | No Water |
| | | | | 14.3 | 27.4 | 6.82 | 77.5 | 8.81 | 7.68 | 8 | |
| W2 | 8:33 | 12 | 0.1 | 13.9 | 24.5 | 6.62 | 73.6 | 26.0 | 7.56 | 29 | |
| | | | | 13.9 | 24.5 | 6.72 | 74.5 | 25.2 | 7.55 | 27 | |
| W3 | 8:50 | 12 | 0.3 | 14.5 | 21.8 | 6.03 | 66.6 | 11.8 | 7.57 | 14 | |
| | | | | 14.5 | 21.7 | 6.05 | 66.9 | 12.4 | 7.56 | 13 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 8:03 | 12 | 0.1 | 14.7 | 12.1 | 6.60 | 69.2 | 1.89 | 7.35 | <1 | |
| | | | | 14.7 | 12.1 | 6.67 | 69.8 | 1.94 | 7.34 | <1 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

12/1/2012

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Materialab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 07/01/2012 (p.m.) Test No. : 172
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 12:21 | 13 | 0.3 | 14.4 | 26.9 | 6.91 | 78.8 | 12.7 | 7.65 | 12 | No Water |
| | | | | 14.4 | 26.9 | 6.88 | 78.6 | 12.2 | 7.66 | 12 | |
| W2 | 12:43 | 13 | 0.1 | 14.3 | 24.7 | 7.03 | 78.9 | 11.5 | 7.65 | 11 | |
| | | | | 14.3 | 24.7 | 6.94 | 77.9 | 11.7 | 7.64 | 10 | |
| W3 | 13:01 | 13 | 0.3 | 15.1 | 20.2 | 9.90 | 109.4 | 3.74 | 8.07 | 4 | |
| | | | | 15.0 | 20.4 | 9.57 | 106.0 | 3.43 | 8.05 | 4 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 12:01 | 13 | 0.1 | 15.5 | 11.5 | 9.24 | 97.9 | 2.85 | 7.52 | 3 | |
| | | | | 15.4 | 11.3 | 9.77 | 102.3 | 2.65 | 7.54 | 5 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

12/1/2012

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Client : VW-VES (HK) Ltd.

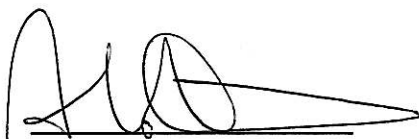
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 10/01/2012 (a.m.) Test No. : 173
 Tide State : MID-FLOOD Weather : CLOUDY
 Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 9:40 | 13 | 0.3 | 15.6 | 29.0 | 6.82 | 80.7 | 10.5 | 7.75 | 22 | No Water |
| | | | | 15.6 | 28.9 | 6.87 | 81.3 | 11.1 | 7.76 | 19 | |
| W2 | 10:00 | 13 | 0.1 | 15.0 | 27.6 | 6.38 | 74.0 | 20.2 | 7.68 | 43 | |
| | | | | 15.0 | 27.4 | 6.46 | 74.8 | 20.6 | 7.70 | 21 | |
| W3 | 10:19 | 13 | 0.4 | 14.9 | 25.4 | 6.47 | 74.0 | 15.4 | 7.59 | 17 | |
| | | | | 14.8 | 25.4 | 6.53 | 74.7 | 15.7 | 7.60 | 16 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 9:09 | 13 | 0.1 | 15.1 | 14.3 | 7.40 | 79.5 | 1.38 | 7.58 | 3 | |
| | | | | 14.9 | 13.9 | 7.73 | 81.2 | 1.30 | 7.56 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

17/1/2012

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Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

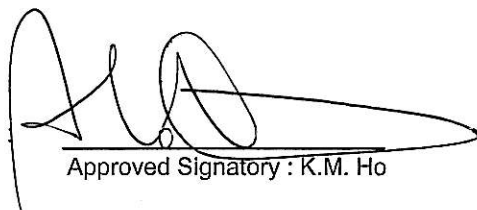
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

| | | | |
|----------------|---------------------|----------|---------|
| Date | : 10/01/2012 (p.m.) | Test No. | : 173 |
| Tide State | : MID-EBB | Weather | : SUNNY |
| Site Condition | : NORMAL | | |

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 14:02 | 18 | 0.4 | 17.4 | 28.9 | 7.64 | 94.1 | 16.5 | 7.86 | 18 | No Water |
| | | | | 17.4 | 28.8 | 7.65 | 94.3 | 15.7 | 7.88 | 21 | |
| W2 | 14:40 | 19 | 0.1 | 17.9 | 25.9 | 8.91 | 108.9 | 13.2 | 8.11 | 13 | |
| | | | | 17.8 | 25.6 | 9.35 | 114.0 | 13.7 | 8.10 | 12 | |
| W3 | 14:20 | 19 | 0.3 | 18.8 | 23.3 | 13.76 | 168.2 | 6.48 | 8.37 | 6 | |
| | | | | 18.7 | 23.4 | 14.20 | 173.5 | 6.76 | 8.38 | 6 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 13:45 | 18 | 0.1 | 17.3 | 14.8 | 9.05 | 102.1 | 1.65 | 8.43 | <1 | |
| | | | | 17.3 | 14.9 | 8.70 | 99.8 | 1.73 | 8.45 | <1 | |

Certified by



Approved Signatory : K.M. Ho

Date : 17/1/2012

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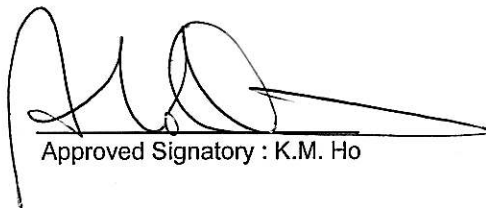
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 12/01/2012 (a.m.) Test No. : 174
Tide State : MID-FLOOD Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 10:34 | 15 | 0.5 | 15.8 | 28.4 | 7.25 | 86.1 | 11.2 | 7.58 | 12 | No Water |
| | | | | 15.8 | 28.6 | 7.18 | 85.3 | 10.9 | 7.60 | 12 | |
| W2 | 10:54 | 15 | 0.1 | 16.0 | 27.3 | 6.72 | 79.4 | 19.3 | 7.57 | 20 | |
| | | | | 16.0 | 27.1 | 6.60 | 77.9 | 18.6 | 7.56 | 21 | |
| W3 | 11:12 | 15 | 0.6 | 16.1 | 27.2 | 6.67 | 79.0 | 17.4 | 7.56 | 18 | |
| | | | | 16.0 | 27.2 | 6.70 | 79.4 | 16.9 | 7.56 | 18 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 10:11 | 15 | 0.1 | 16.1 | 12.0 | 9.35 | 100.8 | 1.90 | 7.22 | <1 | |
| | | | | 16.0 | 12.2 | 9.60 | 103.4 | 2.13 | 7.24 | 1 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

20/1/2012

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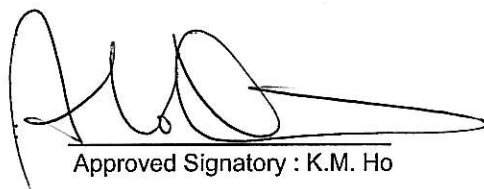
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 12/01/2012 (p.m.) Test No. : 174
Tide State : MID-EBB Weather : RAINY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 15:13 | 16 | 0.5 | 16.1 | 28.4 | 7.23 | 86.7 | 8.10 | 7.61 | 9 | No Water |
| | | | | 16.0 | 28.5 | 7.19 | 86.2 | 8.54 | 7.62 | 9 | |
| W2 | 15:42 | 16 | 0.1 | 16.6 | 25.6 | 9.56 | 113.7 | 9.57 | 7.85 | 10 | |
| | | | | 16.6 | 25.6 | 9.39 | 111.6 | 9.91 | 7.87 | 11 | |
| W3 | 16:00 | 16 | 0.3 | 16.9 | 22.1 | 10.20 | 119.9 | 6.73 | 7.91 | 7 | |
| | | | | 17.0 | 22.0 | 10.31 | 121.2 | 6.86 | 7.91 | 7 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 14:54 | 16 | 0.1 | 16.9 | 15.5 | 11.10 | 123.5 | 6.38 | 7.85 | 7 | |
| | | | | 16.8 | 15.5 | 10.93 | 121.3 | 6.10 | 7.87 | 8 | |

Certified by



Approved Signatory : K.M. Ho

Date : 20/1/2012

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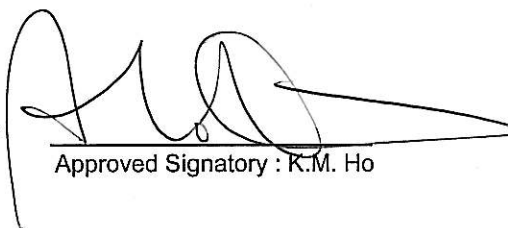
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

| | | | |
|----------------|---------------------|----------|----------|
| Date | : 14/01/2012 (a.m.) | Test No. | : 175 |
| Tide State | : MID-FLOOD | Weather | : CLOUDY |
| Site Condition | : NORMAL | | |

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 11:26 | 18 | 0.6 | 17.0 | 28.8 | 6.94 | 85.1 | 15.0 | 7.67 | 14 | No Water |
| | | | | 17.0 | 28.6 | 6.85 | 84.1 | 14.8 | 7.69 | 15 | |
| W2 | 11:44 | 18 | 0.1 | 17.5 | 27.9 | 6.43 | 79.1 | 22.6 | 7.64 | 21 | |
| | | | | 17.4 | 27.7 | 6.38 | 78.5 | 23.2 | 7.64 | 23 | |
| W3 | 12:05 | 19 | 0.5 | 17.4 | 27.7 | 6.25 | 76.8 | 21.1 | 7.63 | 24 | |
| | | | | 17.4 | 27.7 | 6.17 | 75.9 | 20.7 | 7.65 | 24 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 11:04 | 18 | 0.1 | 17.6 | 10.8 | 9.65 | 107.5 | 2.00 | 7.43 | <1 | |
| | | | | 17.5 | 10.6 | 9.60 | 106.7 | 1.83 | 7.46 | 1 | |

Certified by :  Date : 30/1/2012

Approved Signatory : K.M. Ho

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MateriaLab

Our Ref. No. : 100440EN120023

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Project : Contract No. EP/SP/58/08

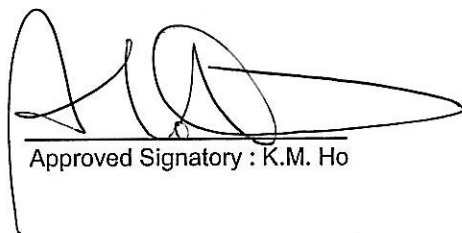
Field Data Record (Stream Water)

Date : 14/01/2012 (p.m.)
 Tide State : MID-EBB
 Site Condition : NORMAL

Test No. : 175
 Weather : CLOUDY

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 16:21 | 18 | 0.5 | 17.1 | 28.8 | 6.82 | 84.1 | 8.56 | 7.68 | 7 | No Water |
| | | | | 17.1 | 28.9 | 6.77 | 83.6 | 9.19 | 7.69 | 8 | |
| W2 | 16:42 | 18 | 0.1 | 17.8 | 27.6 | 8.18 | 101.4 | 10.6 | 7.83 | 11 | |
| | | | | 17.9 | 27.5 | 8.06 | 100.0 | 10.3 | 7.84 | 10 | |
| W3 | 17:03 | 18 | 0.3 | 18.4 | 23.3 | 9.97 | 122.1 | 7.82 | 8.03 | 6 | |
| | | | | 18.2 | 23.5 | 10.21 | 125.1 | 7.79 | 8.01 | 6 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 16:02 | 18 | 0.1 | 18.7 | 13.3 | 11.86 | 137.3 | 3.56 | 8.10 | 3 | |
| | | | | 18.5 | 13.4 | 11.54 | 134.4 | 3.70 | 8.08 | 4 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

30/1/2012

FUGRO TECHNICAL SERVICES LIMITED

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E-mail : matlab@fugro.com.hk
Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

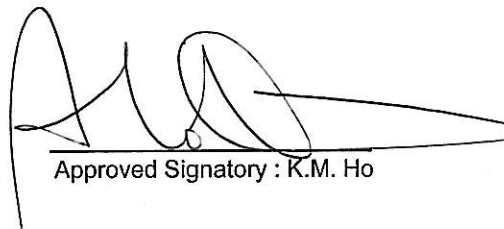
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 17/01/2012 (a.m.) Test No. : 176
Tide State : MID-EBB Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 7:03 | 14 | 0.2 | 15.6 | 26.7 | 6.20 | 73.0 | 8.34 | 7.43 | 7 | No Water |
| | | | | 15.6 | 26.5 | 6.24 | 73.5 | 8.74 | 7.47 | 8 | |
| W2 | 7:19 | 14 | 0.1 | 16.1 | 22.5 | 5.94 | 68.0 | 6.11 | 7.31 | 6 | |
| | | | | 16.0 | 22.3 | 5.89 | 67.4 | 7.04 | 7.34 | 8 | |
| W3 | 7:31 | 14 | 0.1 | 16.1 | 16.6 | 5.27 | 58.9 | 5.66 | 7.23 | 6 | |
| | | | | 16.1 | 16.6 | 5.30 | 59.3 | 5.55 | 7.26 | 6 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 7:45 | 14 | 0.1 | 16.1 | 10.5 | 5.26 | 57.4 | 2.25 | 7.03 | <1 | |
| | | | | 16.0 | 10.3 | 5.22 | 56.9 | 2.16 | 7.04 | 2 | |

Certified by :



Date :

30/1/2012

Approved Signatory : K.M. Ho

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

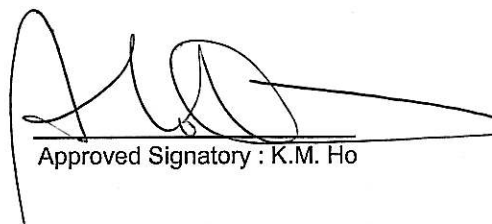
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 17/01/2012 (p.m.) Test No. : 176
Tide State : MID-FLOOD Weather : FINE
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 13:27 | 18 | 0.8 | 18.0 | 27.0 | 6.39 | 79.2 | 11.5 | 7.60 | 13 | No Water |
| | | | | 17.9 | 27.0 | 6.30 | 78.0 | 13.9 | 7.59 | 14 | |
| W2 | 13:39 | 19 | 0.1 | 17.9 | 27.2 | 6.17 | 76.5 | 25.5 | 7.58 | 29 | |
| | | | | 18.1 | 26.9 | 6.03 | 75.8 | 25.8 | 7.57 | 30 | |
| W3 | 13:53 | 20 | 0.8 | 18.2 | 26.6 | 6.04 | 75.1 | 21.3 | 7.60 | 24 | |
| | | | | 18.1 | 26.6 | 5.86 | 72.8 | 20.8 | 7.58 | 23 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 14:07 | 19 | 0.1 | 19.4 | 21.7 | 7.66 | 94.7 | 14.4 | 7.85 | 15 | |
| | | | | 19.5 | 21.5 | 7.71 | 95.2 | 14.2 | 7.88 | 16 | |

Certified by :



Date :

30/1/2012

Approved Signatory : K.M. Ho

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Materialab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

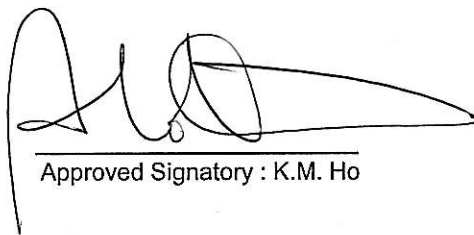
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 19/01/2012 (a.m.) Test No. : 177
Tide State : MID-EBB Weather : SUNNY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|---------|
| W1 | 11:06 | 22 | 0.2 | 19.3 | 26.4 | 7.34 | 92.9 | 19.2 | 7.65 | 26 | |
| | | | | 19.3 | 26.4 | 7.31 | 92.4 | 18.9 | 7.66 | 25 | |
| W2 | 11:25 | 22 | 0.1 | 19.2 | 25.0 | 6.40 | 80.0 | 24.9 | 7.57 | 37 | |
| | | | | 19.1 | 25.0 | 6.33 | 79.2 | 25.2 | 7.59 | 42 | |
| W3 | 11:44 | 22 | 0.2 | 21.1 | 17.6 | 13.70 | 170.3 | 32.4 | 8.05 | 40 | |
| | | | | 21.0 | 17.8 | 14.08 | 175.0 | 32.8 | 8.07 | 36 | |
| C1 | 10:20 | 21 | 0.1 | 24.9 | 0.1 | 8.37 | 101.1 | 46.6 | 8.69 | 34 | |
| | | | | 24.9 | 0.1 | 8.48 | 102.3 | 48.9 | 8.70 | 32 | |
| C2 | 10:40 | 22 | 0.1 | 18.5 | 6.9 | 9.66 | 107.2 | 2.39 | 7.42 | 3 | |
| | | | | 18.5 | 7.2 | 9.21 | 103.8 | 2.27 | 7.40 | 1 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

2/2/2012

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

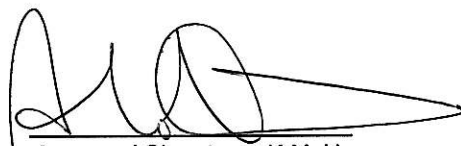
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 19/01/2012 (p.m.) Test No. : 177
Tide State : MID-FLOOD Weather : SUNNY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 15:05 | 22 | 0.7 | 20.4 | 26.0 | 7.42 | 95.8 | 11.1 | 7.68 | 10 | No Water |
| | | | | 20.5 | 26.0 | 7.33 | 95.0 | 11.2 | 7.69 | 10 | |
| W2 | 15:24 | 22 | 0.1 | 20.5 | 26.1 | 7.28 | 94.1 | 12.1 | 7.69 | 12 | |
| | | | | 20.4 | 26.1 | 7.21 | 93.3 | 11.6 | 7.70 | 12 | |
| W3 | 16:01 | 23 | 0.5 | 20.1 | 26.2 | 7.70 | 99.2 | 11.9 | 7.75 | 10 | |
| | | | | 20.2 | 26.3 | 7.53 | 97.1 | 12.5 | 7.75 | 11 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 15:41 | 22 | 0.1 | 21.4 | 22.8 | 10.44 | 135.0 | 14.7 | 8.05 | 13 | |
| | | | | 21.4 | 22.7 | 10.67 | 138.7 | 14.1 | 8.04 | 12 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

21/2/2012

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MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

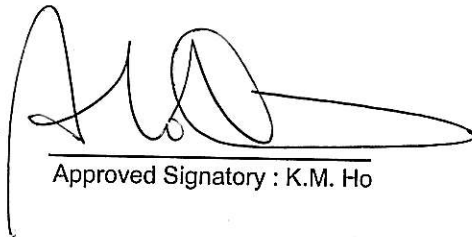
Project : Contract No. EP/SP/58/08

Field Data Record (Stream Water)

Date : 21/01/2012 (a.m.) Test No. : 178
Tide State : MID-FLOOD Weather : CLOUDY
Site Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 7:47 | 17 | 0.3 | 17.4 | 26.1 | 6.56 | 79.9 | 14.8 | 7.60 | 4 | No Water |
| | | | | 17.4 | 26.1 | 6.50 | 79.3 | 13.0 | 7.62 | 5 | |
| W2 | 7:32 | 17 | 0.1 | 17.4 | 23.4 | 5.94 | 71.2 | 23.4 | 7.57 | 14 | |
| | | | | 17.4 | 23.4 | 5.97 | 71.6 | 25.4 | 7.58 | 15 | |
| W3 | 8:04 | 17 | 0.3 | 17.8 | 21.9 | 5.48 | 65.6 | 19.6 | 7.56 | 19 | |
| | | | | 17.7 | 21.9 | 5.47 | 65.5 | 21.2 | 7.58 | 20 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 8:24 | 17 | 0.1 | 18.3 | 13.9 | 5.76 | 66.2 | 2.90 | 7.06 | <1 | |
| | | | | 18.3 | 13.6 | 5.70 | 65.6 | 3.12 | 7.04 | 2 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

21/1/2012

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Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN120023

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

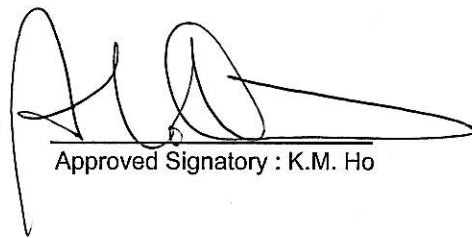
Field Data Record (Stream Water)

Date : 21/01/2012 (p.m.)
Tide State : MID-EBB
Site Condition : NORMAL

Test No. : 178
Weather : CLOUDY

| Location | Time | Ambient Temp. °C | Depth of water m | Water Temp. °C | Salinity ppt | D.O. mg/L | D.O.S. % | Turbidity NTU | pH Unit | Suspended Solids Content, mg/L | Remarks |
|----------|-------|------------------|------------------|----------------|--------------|-----------|----------|---------------|---------|--------------------------------|----------|
| W1 | 12:20 | 19 | 0.5 | 17.9 | 25.6 | 6.71 | 82.2 | 7.24 | 7.62 | 7 | No Water |
| | | | | 17.8 | 25.5 | 6.67 | 81.8 | 7.56 | 7.63 | 13 | |
| W2 | 12:48 | 19 | 0.1 | 17.9 | 24.8 | 5.80 | 70.8 | 14.7 | 7.58 | 19 | |
| | | | | 17.8 | 24.6 | 5.73 | 70.0 | 14.6 | 7.59 | 22 | |
| W3 | 12:35 | 19 | 0.4 | 18.2 | 22.8 | 6.74 | 81.8 | 21.3 | 7.59 | 22 | |
| | | | | 18.2 | 22.6 | 6.82 | 83.0 | 21.0 | 7.59 | 21 | |
| C1 | - | - | - | - | - | - | - | - | - | - | |
| | | | | - | - | - | - | - | - | - | |
| C2 | 13:04 | 19 | 0.1 | 18.9 | 13.8 | 6.09 | 71.0 | 2.90 | 7.20 | <1 | |
| | | | | 18.9 | 13.5 | 6.07 | 70.8 | 2.69 | 7.10 | 1 | |

Certified by



Approved Signatory : K.M. Ho

Date :

21/2/2012

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Report No. : 100440WA112296(11)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 27/12/2011

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA112296(11)/1 – WA112296(11)/16

Date of receipt of sample : 27/12/2011

Date test commenced : 28/12/2011

Date test completed : 29/12/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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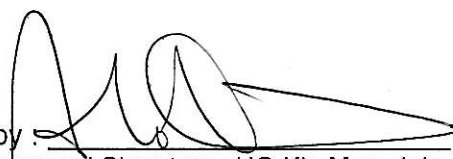
MaterialLab

Report No. : 100440WA112296(11)

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | 4 |
| 2. C2 AF | 4 |
| 3. W1 AF | 31 |
| 4. W1 AF | 36 |
| 5. W2 AF | 35 |
| 6. W2 AF | 34 |
| 7. W3 AF | 25 |
| 8. W3 AF | 27 |
| 9. C2 PE | 4 |
| 10. C2 PE | 3 |
| 11. W1 PE | 21 |
| 12. W1 PE | 17 |
| 13. W2 PE | 11 |
| 14. W2 PE | 12 |
| 15. W3 PE | 15 |
| 16. W3 PE | 15 |

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 6/1/2012****End of Report*****Note : This report refers only to the sample(s) tested.*

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA112296(11)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 34 | 33 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 104 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA112296(12)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 29/12/2011

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA112296(12)/1 – WA112296(12)/16

Date of receipt of sample : 29/12/2011

Date test commenced : 30/12/2011

Date test completed : 31/12/2011

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Website : www.materiallab.com.hk

MaterialLab

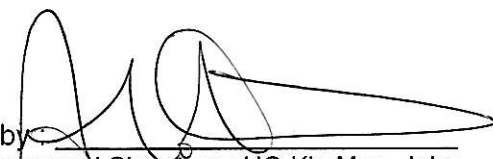
Report No. : 100440WA112296(12)

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | 3 |
| 2. C2 AF | 3 |
| 3. W1 AF | 18 |
| 4. W1 AF | 22 |
| 5. W2 AF | 37 |
| 6. W2 AF | 30 |
| 7. W3 AF | 26 |
| 8. W3 AF | 25 |
| 9. C2 PE | 1 |
| 10. C2 PE | 4 |
| 11. W1 PE | 14 |
| 12. W1 PE | 12 |
| 13. W2 PE | 15 |
| 14. W2 PE | 15 |
| 15. W3 PE | 12 |
| 16. W3 PE | 12 |

Supervised by : Y. M. Chung

Certified by: 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 6/11/2012

End of Report

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA112296(12)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 32 | 29 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 100 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA112296(13)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 31/12/2011

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA112296(13)/1 – WA112296(13)/16

Date of receipt of sample : 31/12/2011

Date test commenced : 02/01/2012

Date test completed : 04/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Materialab

Report No. : 100440WA112296(13)

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | 10 |
| 2. C2 AF | 10 |
| 3. W1 AF | 14 |
| 4. W1 AF | 16 |
| 5. W2 AF | 30 |
| 6. W2 AF | 34 |
| 7. W3 AF | 20 |
| 8. W3 AF | 20 |
| 9. C2 PE | 7 |
| 10. C2 PE | 7 |
| 11. W1 PE | 10 |
| 12. W1 PE | 10 |
| 13. W2 PE | 10 |
| 14. W2 PE | 8 |
| 15. W3 PE | 9 |
| 16. W3 PE | 8 |

Supervised by : Y. M. ChungCertified by : Approved Signatory : HO Kin Man, John
Manager – Chemical & EnvironmentalDate : 6/11/2012****End of Report*****Note : This report refers only to the sample(s) tested.*

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Materialab

Report No. : 100440WA112296(13)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 36 | 33 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 96 |

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA120011



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 03/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AE | 9. C2 PF |
| 2. C2 AE | 10. C2 PF |
| 3. W1 AE | 11. W1 PF |
| 4. W1 AE | 12. W1 PF |
| 5. W2 AE | 13. W2 PF |
| 6. W2 AE | 14. W2 PF |
| 7. W3 AE | 15. W3 PF |
| 8. W3 AE | 16. W3 PF |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011/1 – WA120011/16

Date of receipt of sample : 03/01/2012

Date test commenced : 04/01/2012

Date test completed : 04/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AE | 1 |
| 2. C2 AE | 1 |
| 3. W1 AE | 8 |
| 4. W1 AE | 7 |
| 5. W2 AE | 9 |
| 6. W2 AE | 8 |
| 7. W3 AE | 5 |
| 8. W3 AE | 3 |
| 9. C2 PF | 5 |
| 10. C2 PF | 4 |
| 11. W1 PF | 7 |
| 12. W1 PF | 7 |
| 13. W2 PF | 10 |
| 14. W2 PF | 10 |
| 15. W3 PF | 12 |
| 16. W3 PF | 11 |

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager - Chemical & Environmental
Date : 6/11/2012****End of Report*****Note : This report refers only to the sample(s) tested.*

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MateriaLab

Report No. : 100440WA120011

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 PF | 10 | 10 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 98 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(1)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 05/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AE | 9. C2 PF |
| 2. C2 AE | 10. C2 PF |
| 3. W1 AE | 11. W1 PF |
| 4. W1 AE | 12. W1 PF |
| 5. W2 AE | 13. W2 PF |
| 6. W2 AE | 14. W2 PF |
| 7. W3 AE | 15. W3 PF |
| 8. W3 AE | 16. W3 PF |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(1)/1 – WA120011(1)/16

Date of receipt of sample : 05/01/2012

Date test commenced : 06/01/2012

Date test completed : 07/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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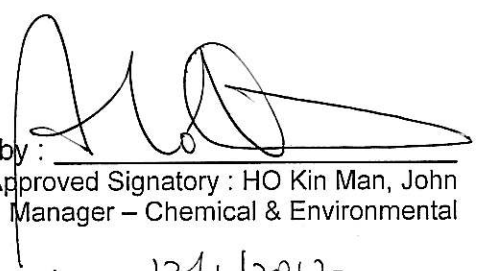
MaterialLab

Report No. : 100440WA120011(1)

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AE | 2 |
| 2. C2 AE | 1 |
| 3. W1 AE | 8 |
| 4. W1 AE | 9 |
| 5. W2 AE | 7 |
| 6. W2 AE | 5 |
| 7. W3 AE | 3 |
| 8. W3 AE | 4 |
| 9. C2 PF | 3 |
| 10. C2 PF | 4 |
| 11. W1 PF | 6 |
| 12. W1 PF | 7 |
| 13. W2 PF | 8 |
| 14. W2 PF | 8 |
| 15. W3 PF | 8 |
| 16. W3 PF | 8 |

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 12/1/2012****End of Report*****Note : This report refers only to the sample(s) tested.*

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Materialab

Report No. : 100440WA120011(1)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| - | - | - |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 101 |

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA120011(2)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 07/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(2)/1 – WA120011(2)/16

Date of receipt of sample : 07/01/2012

Date test commenced : 07/01/2012

Date test completed : 10/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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Report No. : 100440WA120011(2)

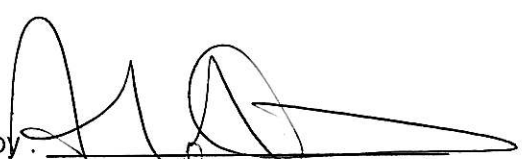
Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | <1 |
| 2. C2 AF | <1 |
| 3. W1 AF | 7 |
| 4. W1 AF | 8 |
| 5. W2 AF | 29 |
| 6. W2 AF | 27 |
| 7. W3 AF | 14 |
| 8. W3 AF | 13 |
| 9. C2 PE | 3 |
| 10. C2 PE | 5 |
| 11. W1 PE | 12 |
| 12. W1 PE | 12 |
| 13. W2 PE | 11 |
| 14. W2 PE | 10 |
| 15. W3 PE | 4 |
| 16. W3 PE | 4 |

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 12/1/2012

End of Report

Note : This report refers only to the sample(s) tested.

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Materialab

Report No. : 100440WA120011(2)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 26 | 28 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 104 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(3)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 10/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(3)/1 – WA120011(3)/16

Date of receipt of sample : 10/01/2012

Date test commenced : 11/01/2012

Date test completed : 13/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(3)

Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | 3 |
| 2. C2 AF | 4 |
| 3. W1 AF | 22 |
| 4. W1 AF | 19 |
| 5. W2 AF | 43 |
| 6. W2 AF | 21 |
| 7. W3 AF | 17 |
| 8. W3 AF | 16 |
| 9. C2 PE | <1 |
| 10. C2 PE | <1 |
| 11. W1 PE | 18 |
| 12. W1 PE | 21 |
| 13. W2 PE | 13 |
| 14. W2 PE | 12 |
| 15. W3 PE | 6 |
| 16. W3 PE | 6 |

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 16/1/2012

****End of Report****

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA120011(3)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| - | - | - |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 99 |

Note : This report refers only to the sample(s) tested.

FUGRO TECHNICAL SERVICES LIMITED

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MateriaLab

Report No. : 100440WA120011(4)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 12/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(4)/1 – WA120011(4)/16

Date of receipt of sample : 12/01/2012

Date test commenced : 13/01/2012

Date test completed : 13/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

The Hong Kong Accreditation Service (HKAS) has accredited Fugro Technical Services Limited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. The copyright of this report is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the issuing laboratory.

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MaterialLab

Report No. : 100440WA120011(4)

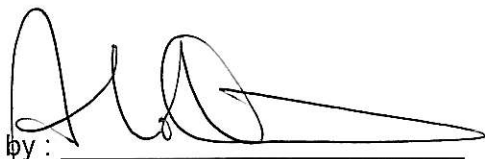
Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | <1 |
| 2. C2 AF | 1 |
| 3. W1 AF | 12 |
| 4. W1 AF | 12 |
| 5. W2 AF | 20 |
| 6. W2 AF | 21 |
| 7. W3 AF | 18 |
| 8. W3 AF | 18 |
| 9. C2 PE | 7 |
| 10. C2 PE | 8 |
| 11. W1 PE | 9 |
| 12. W1 PE | 9 |
| 13. W2 PE | 10 |
| 14. W2 PE | 11 |
| 15. W3 PE | 7 |
| 16. W3 PE | 7 |

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 20/1/2012

End of Report

Note : This report refers only to the sample(s) tested.

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Materialab

Report No. : 100440WA120011(4)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 21 | 20 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 107 |

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA120011(5)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MateriaLab on 14/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(5)/1 – WA120011(5)/16

Date of receipt of sample : 14/01/2012

Date test commenced : 16/01/2012

Date test completed : 17/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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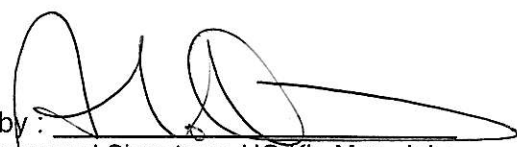
MateriaLab

Report No. : 100440WA120011(5)

Page 2 of 2

**Results:**

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | <1 |
| 2. C2 AF | 1 |
| 3. W1 AF | 14 |
| 4. W1 AF | 15 |
| 5. W2 AF | 21 |
| 6. W2 AF | 23 |
| 7. W3 AF | 24 |
| 8. W3 AF | 24 |
| 9. C2 PE | 3 |
| 10. C2 PE | 4 |
| 11. W1 PE | 7 |
| 12. W1 PE | 8 |
| 13. W2 PE | 11 |
| 14. W2 PE | 10 |
| 15. W3 PE | 6 |
| 16. W3 PE | 6 |

Supervised by : Y. M. Chung
 Certified by : 
 Approved Signatory : HO Kin Man, John
 Manager – Chemical & Environmental
Date : 30/1/2012****End of Report*****Note : This report refers only to the sample(s) tested.*

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Materialab

Report No. : 100440WA120011(5)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 23 | 24 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 103 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(6)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 17/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AE | 9. C2 PF |
| 2. C2 AE | 10. C2 PF |
| 3. W1 AE | 11. W1 PF |
| 4. W1 AE | 12. W1 PF |
| 5. W2 AE | 13. W2 PF |
| 6. W2 AE | 14. W2 PF |
| 7. W3 AE | 15. W3 PF |
| 8. W3 AE | 16. W3 PF |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(6)/1 – WA120011(6)/16

Date of receipt of sample : 17/01/2012

Date test commenced : 18/01/2012

Date test completed : 18/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(6)

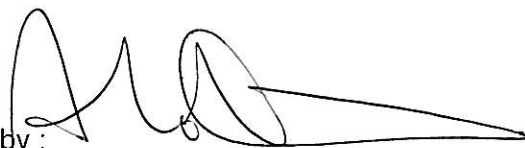
Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AE | <1 |
| 2. C2 AE | 2 |
| 3. W1 AE | 7 |
| 4. W1 AE | 8 |
| 5. W2 AE | 6 |
| 6. W2 AE | 8 |
| 7. W3 AE | 6 |
| 8. W3 AE | 6 |
| 9. C2 PF | 15 |
| 10. C2 PF | 16 |
| 11. W1 PF | 13 |
| 12. W1 PF | 14 |
| 13. W2 PF | 29 |
| 14. W2 PF | 30 |
| 15. W3 PF | 24 |
| 16. W3 PF | 23 |

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 30/1/2012

End of Report

Note : This report refers only to the sample(s) tested.

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Materialab

Report No. : 100440WA120011(6)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 PF | 31 | 29 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 106 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(7)



TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Eighteen samples of stream water taken by the staff of MaterialLab on 19/01/2012

Client sample ID :

| | |
|-----------|-----------|
| 1. C1 AE | 11. C2 PF |
| 2. C1 AE | 12. C2 PF |
| 3. C2 AE | 13. W1 PF |
| 4. C2 AE | 14. W1 PF |
| 5. W1 AE | 15. W2 PF |
| 6. W1 AE | 16. W2 PF |
| 7. W2 AE | 17. W3 PF |
| 8. W2 AE | 18. W3 PF |
| 9. W3 AE | |
| 10. W3 AE | |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(7)/1 – WA120011(7)/18

Date of receipt of sample : 19/01/2012

Date test commenced : 20/01/2012

Date test completed : 21/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(7)


Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C1 AE | 34 |
| 2. C1 AE | 32 |
| 3. C2 AE | 3 |
| 4. C2 AE | 1 |
| 5. W1 AE | 26 |
| 6. W1 AE | 25 |
| 7. W2 AE | 37 |
| 8. W2 AE | 42 |
| 9. W3 AE | 40 |
| 10. W3 AE | 36 |
| 11. C2 PF | 13 |
| 12. C2 PF | 12 |
| 13. W1 PF | 10 |
| 14. W1 PF | 10 |
| 15. W2 PF | 12 |
| 16. W2 PF | 12 |
| 17. W3 PF | 10 |
| 18. W3 PF | 11 |

Supervised by : Y. M. Chung

Certified by : 
Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 31/1/2012

****End of Report****

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(7)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W3 AE | 37 | 36 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 97 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(8)



Page 1 of 2

TEST REPORT ON ANALYSIS OF WATER

Information Supplied by Client

Client : Veolia Water-Leighton-John Holland Joint Venture

Client's address : Level 30, Tower 1, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, N.T.

Project : STF Environmental Team and Independent Environmental Checker and EM&A Programme

Sample description : Sixteen samples of stream water taken by the staff of MaterialLab on 21/01/2012

Client sample ID :

| | |
|----------|-----------|
| 1. C2 AF | 9. C2 PE |
| 2. C2 AF | 10. C2 PE |
| 3. W1 AF | 11. W1 PE |
| 4. W1 AF | 12. W1 PE |
| 5. W2 AF | 13. W2 PE |
| 6. W2 AF | 14. W2 PE |
| 7. W3 AF | 15. W3 PE |
| 8. W3 AF | 16. W3 PE |

Test required : Total suspended solids dried at 103°C – 105°C

Laboratory Information

Lab. sample ID : WA120011(8)/1 – WA120011(8)/16

Date of receipt of sample : 21/01/2012

Date test commenced : 23/01/2012

Date test completed : 26/01/2012

Test method used : Total suspended solids dried at 103°C – 105°C
APHA 17ed. 2540D

Note : This report refers only to the sample(s) tested.

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MaterialLab

Report No. : 100440WA120011(8)

Page 2 of 2



Results:

| Sample identification | Test parameters |
|-----------------------|---|
| | Total suspended solids dried at 103°C - 105°C, mg/L |
| 1. C2 AF | <1 |
| 2. C2 AF | 1 |
| 3. W1 AF | 7 |
| 4. W1 AF | 13 |
| 5. W2 AF | 19 |
| 6. W2 AF | 22 |
| 7. W3 AF | 22 |
| 8. W3 AF | 21 |
| 9. C2 PE | <1 |
| 10. C2 PE | 2 |
| 11. W1 PE | 4 |
| 12. W1 PE | 5 |
| 13. W2 PE | 14 |
| 14. W2 PE | 15 |
| 15. W3 PE | 19 |
| 16. W3 PE | 20 |

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John
Manager – Chemical & Environmental

Date : 30/1/2012

End of Report

Note : This report refers only to the sample(s) tested.

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MateriaLab

Report No. : 100440WA120011(8)

Laboratory Duplicate Result

| Sample ID | Original Result, mg/L | Duplicate Result, mg/L |
|-----------|-----------------------|------------------------|
| W2 AF | 22 | 22 |

Laboratory Blank

| Sample ID | Result, mg/L | Detection Limit, mg/L |
|-----------|--------------|-----------------------|
| Pro Blank | <1 | 1 |

Laboratory QC sample

| Sample ID | Assigned value, mg/L | Recovery, % |
|-----------|----------------------|-------------|
| QC | 50 | 99 |

Note : This report refers only to the sample(s) tested.

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

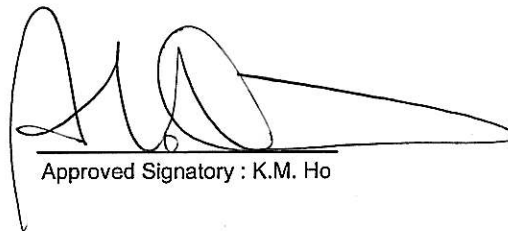
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 27/12/2011 (a.m.) Test No. : 127
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 10:48 | 17 | 3.8 | S | 1.0 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.8 | 17.2 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.2 | < 0.5 | < 1 | < 20 | |
| M2 | 10:33 | 17 | 5.1 | S | 1.0 | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.1 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |
| DM4 | 11:08 | 18 | 5.3 | S | 1.0 | 17.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.4 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.3 | 17.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.4 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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Our Ref. No. : 100440EN

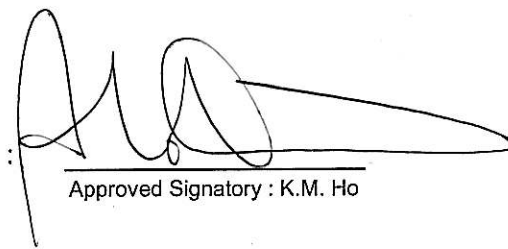
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 27/12/2011 (p.m.) Test No. : 127
 Tide State : MID-EBB Weather : FINE
 Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 15:04 | 19 | 4.0 | S | 1.0 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.0 | 17.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| M2 | 14:50 | 19 | 5.3 | S | 1.0 | 17.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.5 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.3 | 17.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.4 | < 0.5 | < 1 | < 20 | |
| DM4 | 15:26 | 19 | 5.2 | S | 1.0 | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.8 | < 0.5 | < 1 | < 20 | |

Certified by :  Date : 31/12/2012
 Approved Signatory : K.M. Ho

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

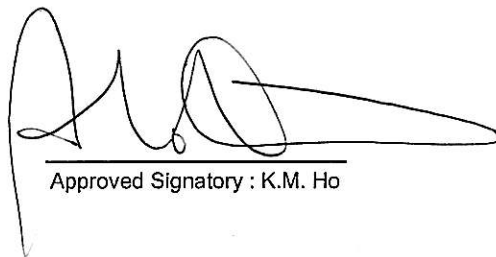
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 29/12/2011 (a.m.) Test No. : 128
Tide State : MID-FLOOD Weather : SUNNY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 12:00 | 20 | 4.2 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.2 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| M2 | 11:48 | 20 | 5.0 | S | 1.0 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.0 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| DM4 | 12:22 | 20 | 5.4 | S | 1.0 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.4 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

31/2/2012

FUGRO TECHNICAL SERVICES LIMITED

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MateriaLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

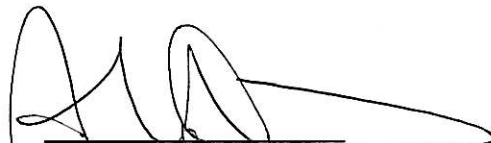
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 29/12/2011 (p.m.) Test No. : 128
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 16:37 | 21 | 3.9 | S | 1.0 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.9 | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.0 | < 0.5 | < 1 | < 20 | |
| M2 | 16:23 | 21 | 5.2 | S | 1.0 | 18.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 18.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| DM4 | 17:00 | 20 | 5.2 | S | 1.0 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.0 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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MateriaLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

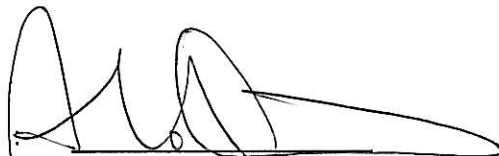
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 31/12/2011 (a.m.) Test No. : 129
Tide State : MID-FLOOD Weather : SUNNY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 12:15 | 19 | 3.8 | S | 1.0 | 18.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.8 | 18.2 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.2 | < 0.5 | < 1 | < 20 | |
| M2 | 12:02 | 19 | 5.2 | S | 1.0 | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.0 | < 0.5 | < 1 | < 20 | |
| DM4 | 12:32 | 19 | 5.3 | S | 1.0 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.3 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |

Certified by



Approved Signatory : K.M. Ho

Date :

31/12/2011

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

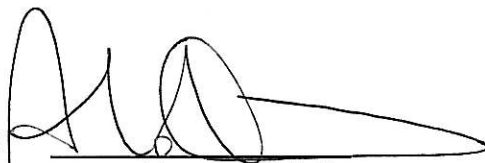
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 31/12/2011 (p.m.) Test No. : 129
Tide State : MID-EBB Weather : HAZY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 16:28 | 19 | 4.0 | S | 1.0 | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.0 | 18.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.5 | < 0.5 | < 1 | < 20 | |
| M2 | 16:15 | 19 | 5.4 | S | 1.0 | 18.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.4 | 18.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.4 | < 0.5 | < 1 | < 20 | |
| DM4 | 16:48 | 19 | 5.2 | S | 1.0 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.4 | < 0.5 | < 1 | < 20 | |

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31/12/2011

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MateriaLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 03/01/2012 (a.m.) Test No. : 130
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 8:27 | 16 | 3.5 | S | 1.0 | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.5 | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.1 | < 0.5 | < 1 | < 20 | |
| M2 | 8:14 | 16 | 4.8 | S | 1.0 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.8 | 18.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.3 | < 0.5 | < 1 | < 20 | |
| DM4 | 8:48 | 16 | 4.4 | S | 1.0 | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.4 | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.2 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

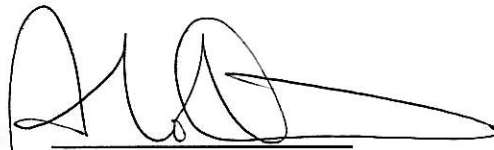
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 03/01/2012 (p.m.) Test No. : 130
Tide State : MID-FLOOD Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 14:22 | 19 | 4.2 | S | 1.0 | 18.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.2 | 18.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.4 | < 0.5 | < 1 | < 20 | |
| M2 | 14:10 | 19 | 5.1 | S | 1.0 | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.1 | 18.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.5 | < 0.5 | < 1 | < 20 | |
| DM4 | 14:40 | 19 | 4.9 | S | 1.0 | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.9 | 18.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.6 | < 0.5 | < 1 | < 20 | |

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Date :

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Client : VW-VES (HK) Ltd.

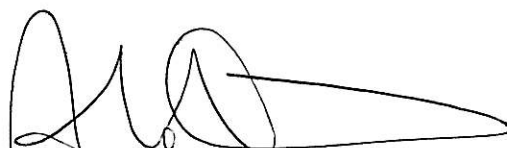
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 05/01/2012 (a.m.) Test No. : 131
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|--------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 10:49 | 10 | 3.7 | S | 1.0 | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.7 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| M2 | 10:36 | 10 | 4.9 | S | 1.0 | 16.7 | < 0.5 | < 1 | < 20 | Filling Work |
| | | | | | | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.9 | 16.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.6 | < 0.5 | < 1 | < 20 | |
| DM4 | 11:09 | 10 | 4.3 | S | 1.0 | 15.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.3 | 17.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.3 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

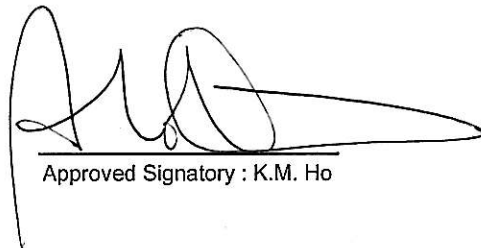
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 05/01/2012 (p.m.) Test No. : 131
Tide State : MID-FLOOD Weather : RAINY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|--------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 15:35 | 9 | 3.9 | S | 1.0 | 15.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.5 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.9 | 16.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.6 | < 0.5 | < 1 | < 20 | |
| M2 | 15:50 | 9 | 5.2 | S | 1.0 | 15.5 | < 0.5 | < 1 | < 20 | Filling Work |
| | | | | | | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| DM4 | 15:13 | 9 | 4.6 | S | 1.0 | 15.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.4 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.6 | 17.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.3 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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MaterialLab

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Client : VW-VES (HK) Ltd.

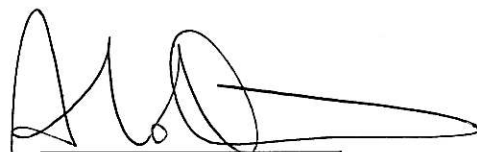
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 07/01/2012 (a.m.) Test No. : 132
Tide State : MID-FLOOD Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 8:46 | 12 | 3.7 | S | 1.0 | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.7 | 16.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.5 | < 0.5 | < 1 | < 20 | |
| M2 | 8:32 | 12 | 4.6 | S | 1.0 | 15.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.6 | 16.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.0 | < 0.5 | < 1 | < 20 | |
| DM4 | 9:07 | 12 | 4.7 | S | 1.0 | 16.2 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.2 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.7 | 16.2 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.2 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

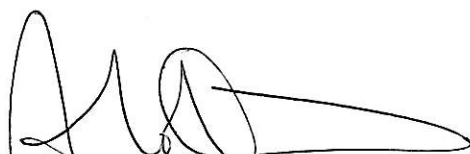
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 07/01/2012 (p.m.) Test No. : 132
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 12:17 | 13 | 3.5 | S | 1.0 | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.5 | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | |
| M2 | 12:03 | 13 | 4.5 | S | 1.0 | 15.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.4 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.5 | 16.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.1 | < 0.5 | < 1 | < 20 | |
| DM4 | 12:37 | 12 | 4.3 | S | 1.0 | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 15.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.3 | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | |

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3/2/2012

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 10/01/2012 (a.m.) Test No. : 133
Tide State : MID-FLOOD Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|------------------------------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 9:53 | 13 | 3.6 | S | 1.0 | 16.7 | < 0.5 | < 1 | 67 | Sand Filling Work at SENT Landfill |
| | | | | | | 16.7 | < 0.5 | < 1 | 60 | |
| | | | | B | 2.6 | 16.7 | < 0.5 | < 1 | 63 | |
| | | | | | | 16.7 | < 0.5 | < 1 | 64 | |
| M2 | 9:40 | 13 | 4.6 | S | 1.0 | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.5 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.6 | 16.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.5 | < 0.5 | < 1 | < 20 | |
| DM4 | 10:12 | 13 | 4.7 | S | 1.0 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.7 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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E-mail : mailab@fugro.com.hk
Website : www.materiallab.com.hk

MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 10/01/2012 (p.m.) Test No. : 133
Tide State : MID-EBB Weather : SUNNY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|------------------------------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 13:55 | 18 | 3.7 | S | 1.0 | 16.9 | < 0.5 | < 1 | < 20 | Sand Filling Work at SENT Landfill |
| | | | | | | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.7 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| M2 | 13:43 | 18 | 4.8 | S | 1.0 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.8 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.8 | < 0.5 | < 1 | < 20 | |
| DM4 | 14:15 | 18 | 4.4 | S | 1.0 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.4 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |

Certified by



Approved Signatory : K.M. Ho

Date : 3/2/2012

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

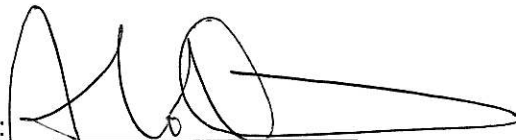
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 12/01/2012 (a.m.) Test No. : 134
Tide State : MID-FLOOD Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|--------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 10:53 | 15 | 3.7 | S | 1.0 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.7 | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |
| M2 | 10:39 | 15 | 5.1 | S | 1.0 | 16.2 | < 0.5 | < 1 | < 20 | Filling Work |
| | | | | | | 16.2 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.1 | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.3 | < 0.5 | < 1 | < 20 | |
| DM4 | 11:11 | 15 | 5.2 | S | 1.0 | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |

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Approved Signatory : K.M. Ho

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

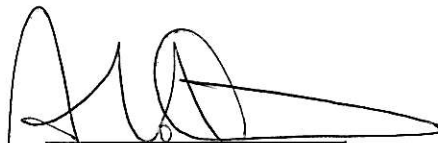
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 12/01/2012 (p.m.) Test No. : 134
Tide State : MID-EBB Weather : RAINY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks | |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|--------------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | | |
| M1 | 15:13 | 16 | 3.7 | S | 1.0 | 16.4 | < 0.5 | < 1 | < 20 | | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | | |
| | | | | B | 2.7 | 16.7 | < 0.5 | < 1 | < 20 | | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | | |
| M2 | 15:01 | 16 | 5.3 | S | 1.0 | 16.5 | < 0.5 | < 1 | < 20 | | Filling Work |
| | | | | | | 16.5 | < 0.5 | < 1 | < 20 | | |
| | | | | B | 4.3 | 16.5 | < 0.5 | < 1 | < 20 | | |
| | | | | | | 16.6 | < 0.5 | < 1 | < 20 | | |
| DM4 | 15:31 | 15 | 5.0 | S | 1.0 | 16.4 | < 0.5 | < 1 | < 20 | | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | | |
| | | | | B | 4.0 | 16.6 | < 0.5 | < 1 | < 20 | | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | | |

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Date :

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

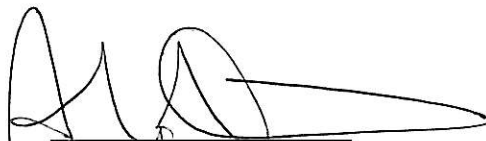
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 14/01/2012 (a.m.) Test No. : 135
Tide State : MID-FLOOD Weather : MISTY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 11:39 | 18 | 3.7 | S | 1.0 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.7 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| M2 | 11:26 | 18 | 5.6 | S | 1.0 | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.6 | 16.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| DM4 | 11:59 | 18 | 5.5 | S | 1.0 | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.5 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.


Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 14/01/2012 (p.m.) Test No. : 135
 Tide State : MID-EBB Weather : MISTY
 Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 16:48 | 18 | 3.6 | S | 1.0 | 17.1 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.1 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.6 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| M2 | 17:02 | 18 | 5.4 | S | 1.0 | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.4 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| DM4 | 16:25 | 18 | 5.0 | S | 1.0 | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.0 | 17.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.0 | < 0.5 | < 1 | < 20 | |

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Approved Signatory : K.M. Ho

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

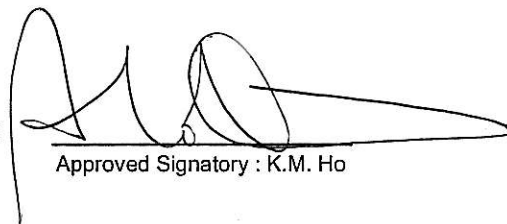
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 17/01/2012 (a.m.) Test No. : 136
Tide State : MID-EBB Weather : CLOUDY
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 8:02 | 15 | 3.2 | S | 1.0 | 16.2 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.2 | 16.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.6 | < 0.5 | < 1 | < 20 | |
| M2 | 7:48 | 14 | 4.6 | S | 1.0 | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.6 | 16.4 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.4 | < 0.5 | < 1 | < 20 | |
| DM4 | 8:22 | 14 | 4.1 | S | 1.0 | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.1 | 16.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 16.5 | < 0.5 | < 1 | < 20 | |

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Approved Signatory : K.M. Ho

Date :

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

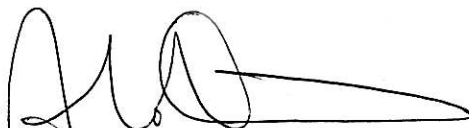
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 17/01/2012 (p.m.) Test No. : 136
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 13:43 | 18 | 3.8 | S | 1.0 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.8 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| M2 | 13:31 | 18 | 5.2 | S | 1.0 | 17.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.3 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 17.3 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.3 | < 0.5 | < 1 | < 20 | |
| DM4 | 14:02 | 18 | 5.1 | S | 1.0 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.1 | 17.5 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.5 | < 0.5 | < 1 | < 20 | |

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Approved Signatory : K.M. Ho

Date :

3/2/2012

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Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

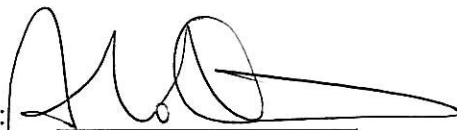
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 19/01/2012 (a.m.) Test No. : 137
Tide State : MID-EBB Weather : FINE
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 11:20 | 21 | 3.5 | S | 1.0 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.5 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| M2 | 11:07 | 20 | 4.9 | S | 1.0 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.9 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |
| DM4 | 11:41 | 20 | 4.4 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.4 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.6 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

3/2/2012

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MateriaLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

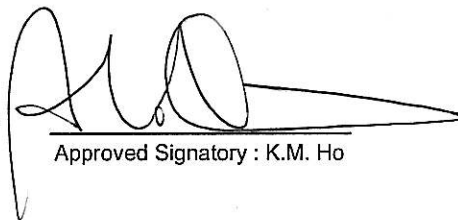
Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 19/01/2012 (p.m.) Test No. : 137
Tide State : MID-FLOOD Weather : FINE
Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 15:15 | 21 | 3.9 | S | 1.0 | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.9 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.8 | < 0.5 | < 1 | < 20 | |
| M2 | 15:02 | 22 | 5.3 | S | 1.0 | 17.9 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.3 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| DM4 | 15:33 | 21 | 5.0 | S | 1.0 | 18.0 | < 0.5 | < 1 | < 20 | |
| | | | | | | 18.1 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |

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Approved Signatory : K.M. Ho

Date :

3/2/2012

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MaterialLab

Our Ref. No. : 100440EN

Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 21/01/2012 (a.m.)

Test No. : 138


Tide State : MID-FLOOD

Weather : CLOUDY

Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 7:59 | 17 | 4.9 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.9 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| M2 | 8:13 | 17 | 3.8 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 2.8 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| DM4 | 8:31 | 17 | 5.0 | S | 1.0 | 17.6 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |

Certified by :



Approved Signatory : K.M. Ho

Date :

31/2/2012

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MaterialLab

Our Ref. No. : 100440EN

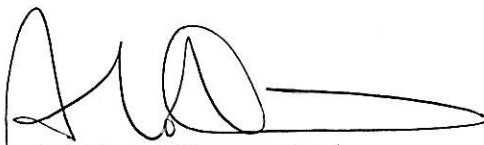
Client : VW-VES (HK) Ltd.

Project : Contract No. EP/SP/58/08

Field Data Record (Marine Water) - Testing of Cd, Cr and Al

Date : 21/01/2012 (p.m.) Test No. : 138
 Tide State : MID-EBB Weather : CLOUDY
 Sea Condition : NORMAL

| Location | Time | Ambient Temp. °C | Depth of water m | Depth sampled m | | Water Temp. °C | Heavy metal, µg/L | | | Remarks |
|----------|-------|------------------|------------------|-----------------|-----|----------------|-------------------|------------------|-------------------|---------|
| | | | | | | | Cadmium Content | Chromium Content | Aluminium Content | |
| M1 | 12:20 | 18 | 5.5 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.5 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| M2 | 12:33 | 18 | 4.1 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 3.1 | 17.8 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.8 | < 0.5 | < 1 | < 20 | |
| DM4 | 12:51 | 18 | 5.2 | S | 1.0 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | B | 4.2 | 17.7 | < 0.5 | < 1 | < 20 | |
| | | | | | | 17.7 | < 0.5 | < 1 | < 20 | |

Certified by : 
 Approved Signatory : K.M. Ho

Date : 3/2/2012

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED
Contact : MR JOHN HO
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Project : ----
Order number : ----
C-O-C number : H016107-H016108
Site : ----

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Quote number : ----

Page : 1 of 4
Work Order : HK1130593

Date received : 27-DEC-2011
Date of issue : 06-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1130593 supersedes any previous reports with this reference. The completion date of analysis is 03-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1130593 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-F-1 | 27-DEC-2011 10:48 | HK1130593-001 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 27-DEC-2011 10:48 | HK1130593-002 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 27-DEC-2011 10:48 | HK1130593-003 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 27-DEC-2011 10:48 | HK1130593-004 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 27-DEC-2011 10:33 | HK1130593-005 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 27-DEC-2011 10:33 | HK1130593-006 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 27-DEC-2011 10:33 | HK1130593-007 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 27-DEC-2011 10:33 | HK1130593-008 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 27-DEC-2011 11:08 | HK1130593-009 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 27-DEC-2011 11:08 | HK1130593-010 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 27-DEC-2011 11:08 | HK1130593-011 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 27-DEC-2011 11:08 | HK1130593-012 | <0.5 | <1 | <20 | | | |
| M1-S-E-1 | 27-DEC-2011 15:04 | HK1130593-013 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 27-DEC-2011 15:04 | HK1130593-014 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 27-DEC-2011 15:04 | HK1130593-015 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 27-DEC-2011 15:04 | HK1130593-016 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 27-DEC-2011 14:50 | HK1130593-017 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 27-DEC-2011 14:50 | HK1130593-018 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 27-DEC-2011 14:50 | HK1130593-019 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 27-DEC-2011 14:50 | HK1130593-020 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 27-DEC-2011 15:26 | HK1130593-021 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 27-DEC-2011 15:26 | HK1130593-022 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 27-DEC-2011 15:26 | HK1130593-023 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 27-DEC-2011 15:26 | HK1130593-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2110294) | | | | | | | | |
| HK1130593-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1130593-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2110295) | | | | | | | | |
| HK1130593-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1130593-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2110296) | | | | | | | | |
| HK1130593-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2110297) | | | | | | | | |
| HK1130593-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2110294) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 96.9 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 93.0 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2110295) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 97.6 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2110296) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 94.5 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 92.0 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2110297) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 91.3 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2110294) | | | | | | | | | | |
| HK1130593-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 85.0 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 84.9 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2110295) | | | | | | | | | | |
| HK1130593-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 93.7 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2110296) | | | | | | | | | | |
| HK1130593-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 85.6 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 89.0 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2110297) | | | | | | | | | | |
| HK1130593-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 90.9 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

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Order number : ----
C-O-C number : H008609-H008610
Site : ----

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : ----

Page : 1 of 4
Work Order : HK1130791

Date received : 29-DEC-2011
Date of issue : 11-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1130791 supersedes any previous reports with this reference. The completion date of analysis is 09-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1130791 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|------------------------|---------------------------------------|---------------------------------|
| Chan Kwok Fai, Godfrey | Laboratory Manager - Environmental | Inorganics |

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

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A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-F-1 | 29-DEC-2011 12:00 | HK1130791-001 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 29-DEC-2011 12:00 | HK1130791-002 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 29-DEC-2011 12:00 | HK1130791-003 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 29-DEC-2011 12:00 | HK1130791-004 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 29-DEC-2011 11:48 | HK1130791-005 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 29-DEC-2011 11:48 | HK1130791-006 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 29-DEC-2011 11:48 | HK1130791-007 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 29-DEC-2011 11:48 | HK1130791-008 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 29-DEC-2011 12:22 | HK1130791-009 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 29-DEC-2011 12:22 | HK1130791-010 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 29-DEC-2011 12:22 | HK1130791-011 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 29-DEC-2011 12:22 | HK1130791-012 | <0.5 | <1 | <20 | | | |
| M1-S-E-1 | 29-DEC-2011 16:37 | HK1130791-013 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 29-DEC-2011 16:37 | HK1130791-014 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 29-DEC-2011 16:37 | HK1130791-015 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 29-DEC-2011 16:37 | HK1130791-016 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 29-DEC-2011 16:23 | HK1130791-017 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 29-DEC-2011 16:23 | HK1130791-018 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 29-DEC-2011 16:23 | HK1130791-019 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 29-DEC-2011 16:23 | HK1130791-020 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 29-DEC-2011 17:00 | HK1130791-021 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 29-DEC-2011 17:00 | HK1130791-022 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 29-DEC-2011 17:00 | HK1130791-023 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 29-DEC-2011 17:00 | HK1130791-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2112976) | | | | | | | | |
| HK1130791-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1130791-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2112977) | | | | | | | | |
| HK1130791-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1130791-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2112978) | | | | | | | | |
| HK1130791-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2112979) | | | | | | | | |
| HK1130791-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2112976) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 101 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 108 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2112977) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 102 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2112978) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 99.4 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 110 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2112979) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 111 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2112976) | | | | | | | | | | |
| HK1130791-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 98.3 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 98.3 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2112977) | | | | | | | | | | |
| HK1130791-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 98.6 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| | | | | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2112978) | | | | | | | | | | |
| HK1130791-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 103 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 99.4 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2112979) | | | | | | | | | | |
| HK1130791-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 107 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|--|---------------------|--|-----------------------|--------------------|
| <i>Client</i> | : FUGRO TECHNICAL SERVICES LIMITED | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 4 |
| <i>Contact</i> | : MR JOHN HO | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1200009 |
| <i>Address</i> | : MATERIAL DIVISION FUGRO DEVELOPMENT CENTRE, NO 5 LOK YI STREET, 17 M.S. CASTLE PEAK ROAD, TAI LAM, TUEN MUN, N.T., HONG KONG | <i>Address</i> | : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong | | |
| <i>E-mail</i> | : jho@fugro.com.hk | <i>E-mail</i> | : Godfrey.Chan@alsglobal.com | <i>Date received</i> | : 31-DEC-2011 |
| <i>Telephone</i> | : +852 2452 7142 | <i>Telephone</i> | : +852 2610 1044 | <i>Date of issue</i> | : 11-JAN-2012 |
| <i>Facsimile</i> | : +852 2450 6138 | <i>Facsimile</i> | : +852 2610 2021 | <i>No. of samples</i> | - Received : 24 |
| <i>Project</i> | : ---- | <i>Quote number</i> | : ---- | | - Analysed : 24 |
| <i>Order number</i> | : ---- | | | | |
| <i>C-O-C number</i> | : H008611-H008612 | | | | |
| <i>Site</i> | : ---- | | | | |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1200009 supersedes any previous reports with this reference. The completion date of analysis is 09-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1200009 :

- Sample(s) were received in a chilled condition.
- Water sample(s) analysed and reported on an as received basis.
- Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|------------------------|---------------------------------------|---------------------------------|
| Chan Kwok Fai, Godfrey | Laboratory Manager - Environmental | Inorganics |

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

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Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-F-1 | 31-DEC-2011 12:15 | HK1200009-001 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 31-DEC-2011 12:15 | HK1200009-002 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 31-DEC-2011 12:15 | HK1200009-003 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 31-DEC-2011 12:15 | HK1200009-004 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 31-DEC-2011 12:02 | HK1200009-005 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 31-DEC-2011 12:02 | HK1200009-006 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 31-DEC-2011 12:02 | HK1200009-007 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 31-DEC-2011 12:02 | HK1200009-008 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 31-DEC-2011 12:32 | HK1200009-009 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 31-DEC-2011 12:32 | HK1200009-010 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 31-DEC-2011 12:32 | HK1200009-011 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 31-DEC-2011 12:32 | HK1200009-012 | <0.5 | <1 | <20 | | | |
| M1-S-E-1 | 31-DEC-2011 16:28 | HK1200009-013 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 31-DEC-2011 16:28 | HK1200009-014 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 31-DEC-2011 16:28 | HK1200009-015 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 31-DEC-2011 16:28 | HK1200009-016 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 31-DEC-2011 16:15 | HK1200009-017 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 31-DEC-2011 16:15 | HK1200009-018 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 31-DEC-2011 16:15 | HK1200009-019 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 31-DEC-2011 16:15 | HK1200009-020 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 31-DEC-2011 16:48 | HK1200009-021 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 31-DEC-2011 16:48 | HK1200009-022 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 31-DEC-2011 16:48 | HK1200009-023 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 31-DEC-2011 16:48 | HK1200009-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2114537) | | | | | | | | |
| HK1200009-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1200009-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2114538) | | | | | | | | |
| HK1200009-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1200009-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2114540) | | | | | | | | |
| HK1200009-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2114541) | | | | | | | | |
| HK1200009-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2114537) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 105 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 110 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2114538) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 104 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2114540) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 100 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 104 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2114541) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 104 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2114537) | | | | | | | | | | |
| HK1200009-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 106 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 100 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2114538) | | | | | | | | | | |
| HK1200009-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 82.6 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | Concentration | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2114540) | | | | | | | | | | |
| HK1200009-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 101 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 101 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2114541) | | | | | | | | | | |
| HK1200009-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 110 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|--|---------------------|--|-----------------------|--------------------|
| <i>Client</i> | : FUGRO TECHNICAL SERVICES LIMITED | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 4 |
| <i>Contact</i> | : MR JOHN HO | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1200135 |
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| <i>E-mail</i> | : jho@fugro.com.hk | <i>E-mail</i> | : Godfrey.Chan@alsglobal.com | <i>Date received</i> | : 03-JAN-2011 |
| <i>Telephone</i> | : +852 2452 7142 | <i>Telephone</i> | : +852 2610 1044 | <i>Date of issue</i> | : 12-JAN-2012 |
| <i>Facsimile</i> | : +852 2450 6138 | <i>Facsimile</i> | : +852 2610 2021 | <i>No. of samples</i> | - Received : 24 |
| <i>Project</i> | : ---- | <i>Quote number</i> | : ---- | | - Analysed : 24 |
| <i>Order number</i> | : ---- | | | | |
| <i>C-O-C number</i> | : H008613-H008614 | | | | |
| <i>Site</i> | : ---- | | | | |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1200135 supersedes any previous reports with this reference. The completion date of analysis is 11-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1200135 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|------------------------|---------------------------------------|---------------------------------|
| Chan Kwok Fai, Godfrey | Laboratory Manager - Environmental | Inorganics |

ALS Laboratory Group

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Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-E-1 | 03-JAN-2011 08:27 | HK1200135-001 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 03-JAN-2011 08:27 | HK1200135-002 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 03-JAN-2011 08:27 | HK1200135-003 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 03-JAN-2011 08:27 | HK1200135-004 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 03-JAN-2011 08:14 | HK1200135-005 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 03-JAN-2011 08:14 | HK1200135-006 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 03-JAN-2011 08:14 | HK1200135-007 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 03-JAN-2011 08:14 | HK1200135-008 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 03-JAN-2011 08:48 | HK1200135-009 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 03-JAN-2011 08:48 | HK1200135-010 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 03-JAN-2011 08:48 | HK1200135-011 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 03-JAN-2011 08:48 | HK1200135-012 | <0.5 | <1 | <20 | | | |
| M1-S-F-1 | 03-JAN-2011 14:22 | HK1200135-013 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 03-JAN-2011 14:22 | HK1200135-014 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 03-JAN-2011 14:22 | HK1200135-015 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 03-JAN-2011 14:22 | HK1200135-016 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 03-JAN-2011 14:10 | HK1200135-017 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 03-JAN-2011 14:10 | HK1200135-018 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 03-JAN-2011 14:10 | HK1200135-019 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 03-JAN-2011 14:10 | HK1200135-020 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 03-JAN-2011 14:40 | HK1200135-021 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 03-JAN-2011 14:40 | HK1200135-022 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 03-JAN-2011 14:40 | HK1200135-023 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 03-JAN-2011 14:40 | HK1200135-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2115527) | | | | | | | | |
| HK1200135-002 | M1-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1200135-011 | DM4-B-E-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2115528) | | | | | | | | |
| HK1200135-002 | M1-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1200135-011 | DM4-B-E-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2115529) | | | | | | | | |
| HK1200135-022 | DM4-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2115530) | | | | | | | | |
| HK1200135-022 | DM4-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2115527) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 97.0 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 88.2 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2115528) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 96.4 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2115529) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 99.7 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 95.8 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2115530) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 97.1 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2115527) | | | | | | | | | | |
| HK1200135-001 | M1-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 100 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 94.4 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2115528) | | | | | | | | | | |
| HK1200135-001 | M1-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 102 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2115529) | | | | | | | | | | |
| HK1200135-021 | DM4-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 97.4 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 94.0 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2115530) | | | | | | | | | | |
| HK1200135-021 | DM4-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 107 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|--|---------------------|--|-----------------------|-----------------|
| <i>Client</i> | : FUGRO TECHNICAL SERVICES LIMITED | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 4 |
| <i>Contact</i> | : MR JOHN HO | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1200263 |
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| <i>Telephone</i> | : +852 2452 7142 | <i>Telephone</i> | : +852 2610 1044 | | |
| <i>Facsimile</i> | : +852 2450 6138 | <i>Facsimile</i> | : +852 2610 2021 | | |
| <i>Project</i> | : ---- | <i>Quote number</i> | : ---- | <i>Date received</i> | : 05-JAN-2012 |
| <i>Order number</i> | : ---- | | | <i>Date of issue</i> | : 16-JAN-2012 |
| <i>C-O-C number</i> | : H008615-H008616 | | | <i>No. of samples</i> | - Received : 24 |
| <i>Site</i> | : ---- | | | | - Analysed : 24 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1200263 supersedes any previous reports with this reference. The completion date of analysis is 11-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1200263 :

- Sample(s) were received in a chilled condition.
- Water sample(s) analysed and reported on an as received basis.
- Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-E-1 | 05-JAN-2012 10:49 | HK1200263-001 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 05-JAN-2012 10:49 | HK1200263-002 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 05-JAN-2012 10:49 | HK1200263-003 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 05-JAN-2012 10:49 | HK1200263-004 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 05-JAN-2012 10:36 | HK1200263-005 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 05-JAN-2012 10:36 | HK1200263-006 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 05-JAN-2012 10:36 | HK1200263-007 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 05-JAN-2012 10:36 | HK1200263-008 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 05-JAN-2012 11:09 | HK1200263-009 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 05-JAN-2012 11:09 | HK1200263-010 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 05-JAN-2012 11:09 | HK1200263-011 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 05-JAN-2012 11:09 | HK1200263-012 | <0.5 | <1 | <20 | | | |
| M1-S-F-1 | 05-JAN-2012 15:35 | HK1200263-013 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 05-JAN-2012 15:35 | HK1200263-014 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 05-JAN-2012 15:35 | HK1200263-015 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 05-JAN-2012 15:35 | HK1200263-016 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 05-JAN-2012 15:50 | HK1200263-017 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 05-JAN-2012 15:50 | HK1200263-018 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 05-JAN-2012 15:50 | HK1200263-019 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 05-JAN-2012 15:50 | HK1200263-020 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 05-JAN-2012 15:13 | HK1200263-021 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 05-JAN-2012 15:13 | HK1200263-022 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 05-JAN-2012 15:13 | HK1200263-023 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 05-JAN-2012 15:13 | HK1200263-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2118653) | | | | | | | | |
| HK1200263-002 | M1-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1200263-011 | DM4-B-E-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2118654) | | | | | | | | |
| HK1200263-002 | M1-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1200263-011 | DM4-B-E-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2118655) | | | | | | | | |
| HK1200263-022 | DM4-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2118656) | | | | | | | | |
| HK1200263-022 | DM4-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2118653) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 95.3 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 91.1 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2118654) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 104 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2118655) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 95.6 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 88.4 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2118656) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 95.9 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2118653) | | | | | | | | | | |
| HK1200263-001 | M1-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 93.4 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 78.2 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2118654) | | | | | | | | | | |
| HK1200263-001 | M1-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 81.4 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2118655) | | | | | | | | | | |
| HK1200263-021 | DM4-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 100 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 86.5 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2118656) | | | | | | | | | | |
| HK1200263-021 | DM4-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 96.7 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED
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Project : ----
Order number : ----
C-O-C number : H008617-H008618
Site : ----

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : ----

Page : 1 of 4
Work Order : HK1200580

Date received : 07-JAN-2012
Date of issue : 17-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1200580 supersedes any previous reports with this reference. The completion date of analysis is 13-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1200580 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-F-1 | 07-JAN-2012 08:46 | HK1200580-001 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 07-JAN-2012 08:46 | HK1200580-002 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 07-JAN-2012 08:46 | HK1200580-003 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 07-JAN-2012 08:46 | HK1200580-004 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 07-JAN-2012 08:32 | HK1200580-005 | <0.5 | <1 | <20 | | | |
| M2-S-F-2 | 07-JAN-2012 08:32 | HK1200580-006 | <0.5 | <1 | <20 | | | |
| M2-B-F-1 | 07-JAN-2012 08:32 | HK1200580-007 | <0.5 | <1 | <20 | | | |
| M2-B-F-2 | 07-JAN-2012 08:32 | HK1200580-008 | <0.5 | <1 | <20 | | | |
| DM4-S-F-1 | 07-JAN-2012 09:07 | HK1200580-009 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 07-JAN-2012 09:07 | HK1200580-010 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 07-JAN-2012 09:07 | HK1200580-011 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 07-JAN-2012 09:07 | HK1200580-012 | <0.5 | <1 | <20 | | | |
| M1-S-E-1 | 07-JAN-2012 12:17 | HK1200580-013 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 07-JAN-2012 12:17 | HK1200580-014 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 07-JAN-2012 12:17 | HK1200580-015 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 07-JAN-2012 12:17 | HK1200580-016 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 07-JAN-2012 12:03 | HK1200580-017 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 07-JAN-2012 12:03 | HK1200580-018 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 07-JAN-2012 12:03 | HK1200580-019 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 07-JAN-2012 12:03 | HK1200580-020 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 07-JAN-2012 12:37 | HK1200580-021 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 07-JAN-2012 12:37 | HK1200580-022 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 07-JAN-2012 12:37 | HK1200580-023 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 07-JAN-2012 12:37 | HK1200580-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121743) | | | | | | | | |
| HK1200580-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1200580-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121744) | | | | | | | | |
| HK1200580-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1200580-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121745) | | | | | | | | |
| HK1200580-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121746) | | | | | | | | |
| HK1200580-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|--|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121743) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 93.8 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 90.7 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121744) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 95.1 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121745) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 104 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 103 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121746) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 93.2 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|--|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121743) | | | | | | | | | | |
| HK1200580-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 91.2 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 87.2 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QC Lot: 2121744) | | | | | | | | | | |
| HK1200580-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 105 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2121745) | | | | | | | | | | |
| HK1200580-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 99.3 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 94.9 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2121746) | | | | | | | | | | |
| HK1200580-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 118 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

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Order number : ----
C-O-C number : H008619-H008620
Site : ----

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : ----

Page : 1 of 4
Work Order : HK1200829

Date received : 10-JAN-2012
Date of issue : 19-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1200829 supersedes any previous reports with this reference. The completion date of analysis is 13-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1200829 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| | | | Compound LOR Unit | EG020: Cadmium 0.5 µg/L | EG020: Chromium 1 µg/L | EG020: Aluminium 20 µg/L | | |
|------------------|--------------------------------|-------------------------|--|--|--|-----------------------------|--|--|
| Client sample ID | Client sampling date / time | Laboratory sample ID | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | | |
| M1-S-F-1 | 10-JAN-2012 09:53 | HK1200829-001 | <0.5 | <1 | <20 | | | |
| M1-S-F-2 | 10-JAN-2012 09:53 | HK1200829-002 | <0.5 | <1 | <20 | | | |
| M1-B-F-1 | 10-JAN-2012 09:53 | HK1200829-003 | <0.5 | <1 | <20 | | | |
| M1-B-F-2 | 10-JAN-2012 09:53 | HK1200829-004 | <0.5 | <1 | <20 | | | |
| M2-S-F-1 | 10-JAN-2012 09:40 | HK1200829-005 | <0.5 | <1 | 67 | | | |
| M2-S-F-2 | 10-JAN-2012 09:40 | HK1200829-006 | <0.5 | <1 | 60 | | | |
| M2-B-F-1 | 10-JAN-2012 09:40 | HK1200829-007 | <0.5 | <1 | 63 | | | |
| M2-B-F-2 | 10-JAN-2012 09:40 | HK1200829-008 | <0.5 | <1 | 64 | | | |
| DM4-S-F-1 | 10-JAN-2012 10:12 | HK1200829-009 | <0.5 | <1 | <20 | | | |
| DM4-S-F-2 | 10-JAN-2012 10:12 | HK1200829-010 | <0.5 | <1 | <20 | | | |
| DM4-B-F-1 | 10-JAN-2012 10:12 | HK1200829-011 | <0.5 | <1 | <20 | | | |
| DM4-B-F-2 | 10-JAN-2012 10:12 | HK1200829-012 | <0.5 | <1 | <20 | | | |
| M1-S-E-1 | 10-JAN-2012 13:55 | HK1200829-013 | <0.5 | <1 | <20 | | | |
| M1-S-E-2 | 10-JAN-2012 13:55 | HK1200829-014 | <0.5 | <1 | <20 | | | |
| M1-B-E-1 | 10-JAN-2012 13:55 | HK1200829-015 | <0.5 | <1 | <20 | | | |
| M1-B-E-2 | 10-JAN-2012 13:55 | HK1200829-016 | <0.5 | <1 | <20 | | | |
| M2-S-E-1 | 10-JAN-2012 13:43 | HK1200829-017 | <0.5 | <1 | <20 | | | |
| M2-S-E-2 | 10-JAN-2012 13:43 | HK1200829-018 | <0.5 | <1 | <20 | | | |
| M2-B-E-1 | 10-JAN-2012 13:43 | HK1200829-019 | <0.5 | <1 | <20 | | | |
| M2-B-E-2 | 10-JAN-2012 13:43 | HK1200829-020 | <0.5 | <1 | <20 | | | |
| DM4-S-E-1 | 10-JAN-2012 14:15 | HK1200829-021 | <0.5 | <1 | <20 | | | |
| DM4-S-E-2 | 10-JAN-2012 14:15 | HK1200829-022 | <0.5 | <1 | <20 | | | |
| DM4-B-E-1 | 10-JAN-2012 14:15 | HK1200829-023 | <0.5 | <1 | <20 | | | |
| DM4-B-E-2 | 10-JAN-2012 14:15 | HK1200829-024 | <0.5 | <1 | <20 | | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2122177) | | | | | | | | |
| HK1200829-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1200829-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2122178) | | | | | | | | |
| HK1200829-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1200829-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2122179) | | | | | | | | |
| HK1200829-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2122180) | | | | | | | | |
| HK1200829-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2122177) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 101 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 98.1 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2122178) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 108 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2122179) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 111 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 106 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2122180) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 98.2 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2122177) | | | | | | | | | | |
| HK1200829-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 97.2 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 95.2 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2122178) | | | | | | | | | | |
| HK1200829-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 100 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2122179) | | | | | | | | | | |
| HK1200829-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 97.8 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 95.8 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2122180) | | | | | | | | | | |
| HK1200829-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 88.2 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

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Project : ----
Order number : ----
C-O-C number : H016051-H016052
Site : ----

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Quote number : ----

Page : 1 of 4
Work Order : HK1201214

Date received : 12-JAN-2012
Date of issue : 20-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1201214 supersedes any previous reports with this reference. The completion date of analysis is 19-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1201214 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EG020: Cadmium | EG020: Chromium | EG020: Aluminium | | |
|------------------|-----------------------------|----------------------|----------|---|---|---|--|--|
| | | | LOR Unit | 0.5 µg/L | 1 µg/L | 20 µg/L | | |
| | | | | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | |
| M1-S-F-1 | 12-JAN-2012 10:53 | HK1201214-001 | | <0.5 | <1 | <20 | | |
| M1-S-F-2 | 12-JAN-2012 10:53 | HK1201214-002 | | <0.5 | <1 | <20 | | |
| M1-B-F-1 | 12-JAN-2012 10:53 | HK1201214-003 | | <0.5 | <1 | <20 | | |
| M1-B-F-2 | 12-JAN-2012 10:53 | HK1201214-004 | | <0.5 | <1 | <20 | | |
| M2-S-F-1 | 12-JAN-2012 10:39 | HK1201214-005 | | <0.5 | <1 | <20 | | |
| M2-S-F-2 | 12-JAN-2012 10:39 | HK1201214-006 | | <0.5 | <1 | <20 | | |
| M2-B-F-1 | 12-JAN-2012 10:39 | HK1201214-007 | | <0.5 | <1 | <20 | | |
| M2-B-F-2 | 12-JAN-2012 10:39 | HK1201214-008 | | <0.5 | <1 | <20 | | |
| DM4-S-F-1 | 12-JAN-2012 11:11 | HK1201214-009 | | <0.5 | <1 | <20 | | |
| DM4-S-F-2 | 12-JAN-2012 11:11 | HK1201214-010 | | <0.5 | <1 | <20 | | |
| DM4-B-F-1 | 12-JAN-2012 11:11 | HK1201214-011 | | <0.5 | <1 | <20 | | |
| DM4-B-F-2 | 12-JAN-2012 11:11 | HK1201214-012 | | <0.5 | <1 | <20 | | |
| M1-S-E-1 | 12-JAN-2012 15:13 | HK1201214-013 | | <0.5 | <1 | <20 | | |
| M1-S-E-2 | 12-JAN-2012 15:13 | HK1201214-014 | | <0.5 | <1 | <20 | | |
| M1-B-E-1 | 12-JAN-2012 15:13 | HK1201214-015 | | <0.5 | <1 | <20 | | |
| M1-B-E-2 | 12-JAN-2012 15:13 | HK1201214-016 | | <0.5 | <1 | <20 | | |
| M2-S-E-1 | 12-JAN-2012 15:01 | HK1201214-017 | | <0.5 | <1 | <20 | | |
| M2-S-E-2 | 12-JAN-2012 15:01 | HK1201214-018 | | <0.5 | <1 | <20 | | |
| M2-B-E-1 | 12-JAN-2012 15:01 | HK1201214-019 | | <0.5 | <1 | <20 | | |
| M2-B-E-2 | 12-JAN-2012 15:01 | HK1201214-020 | | <0.5 | <1 | <20 | | |
| DM4-S-E-1 | 12-JAN-2012 15:31 | HK1201214-021 | | <0.5 | <1 | <20 | | |
| DM4-S-E-2 | 12-JAN-2012 15:31 | HK1201214-022 | | <0.5 | <1 | <20 | | |
| DM4-B-E-1 | 12-JAN-2012 15:31 | HK1201214-023 | | <0.5 | <1 | <20 | | |
| DM4-B-E-2 | 12-JAN-2012 15:31 | HK1201214-024 | | <0.5 | <1 | <20 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2125697) | | | | | | | | |
| HK1201214-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1201214-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2125698) | | | | | | | | |
| HK1201214-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1201214-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2125699) | | | | | | | | |
| HK1201214-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2125700) | | | | | | | | |
| HK1201214-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2125697) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 104 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 105 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2125698) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 107 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2125699) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 104 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 106 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2125700) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 101 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2125697) | | | | | | | | | | |
| HK1201214-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 90.5 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 93.5 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2125698) | | | | | | | | | | |
| HK1201214-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 92.1 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | Concentration | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2125699) | | | | | | | | | | |
| HK1201214-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 95.8 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 100 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2125700) | | | | | | | | | | |
| HK1201214-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 112 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|--|---------------------|--|-----------------------|--------------------|
| <i>Client</i> | : FUGRO TECHNICAL SERVICES LIMITED | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 4 |
| <i>Contact</i> | : MR JOHN HO | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1201540 |
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| <i>Project</i> | : ---- | <i>Quote number</i> | : ---- | <i>Date received</i> | : 14-JAN-2012 |
| <i>Order number</i> | : ---- | | | <i>Date of issue</i> | : 27-JAN-2012 |
| <i>C-O-C number</i> | : H016053-H016054 | | | <i>No. of samples</i> | - Received : 24 |
| <i>Site</i> | : ---- | | | | - Analysed : 24 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1201540 supersedes any previous reports with this reference. The completion date of analysis is 20-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1201540 :

- Sample(s) were received in a chilled condition.
- Water sample(s) analysed and reported on an as received basis.
- Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EG020: Cadmium | EG020: Chromium | EG020: Aluminium | | |
|------------------|-----------------------------|----------------------|----------|---|---|---|--|--|
| | | | LOR Unit | 0.5 µg/L | 1 µg/L | 20 µg/L | | |
| | | | | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | |
| M1-S-F-1 | 14-JAN-2012 11:39 | HK1201540-001 | | <0.5 | <1 | <20 | | |
| M1-S-F-2 | 14-JAN-2012 11:39 | HK1201540-002 | | <0.5 | <1 | <20 | | |
| M1-B-F-1 | 14-JAN-2012 11:39 | HK1201540-003 | | <0.5 | <1 | <20 | | |
| M1-B-F-2 | 14-JAN-2012 11:39 | HK1201540-004 | | <0.5 | <1 | <20 | | |
| M2-S-F-1 | 14-JAN-2012 11:26 | HK1201540-005 | | <0.5 | <1 | <20 | | |
| M2-S-F-2 | 14-JAN-2012 11:26 | HK1201540-006 | | <0.5 | <1 | <20 | | |
| M2-B-F-1 | 14-JAN-2012 11:26 | HK1201540-007 | | <0.5 | <1 | <20 | | |
| M2-B-F-2 | 14-JAN-2012 11:26 | HK1201540-008 | | <0.5 | <1 | <20 | | |
| DM4-S-F-1 | 14-JAN-2012 11:59 | HK1201540-009 | | <0.5 | <1 | <20 | | |
| DM4-S-F-2 | 14-JAN-2012 11:59 | HK1201540-010 | | <0.5 | <1 | <20 | | |
| DM4-B-F-1 | 14-JAN-2012 11:59 | HK1201540-011 | | <0.5 | <1 | <20 | | |
| DM4-B-F-2 | 14-JAN-2012 11:59 | HK1201540-012 | | <0.5 | <1 | <20 | | |
| M1-S-E-1 | 14-JAN-2012 16:48 | HK1201540-013 | | <0.5 | <1 | <20 | | |
| M1-S-E-2 | 14-JAN-2012 16:48 | HK1201540-014 | | <0.5 | <1 | <20 | | |
| M1-B-E-1 | 14-JAN-2012 16:48 | HK1201540-015 | | <0.5 | <1 | <20 | | |
| M1-B-E-2 | 14-JAN-2012 16:48 | HK1201540-016 | | <0.5 | <1 | <20 | | |
| M2-S-E-1 | 14-JAN-2012 17:02 | HK1201540-017 | | <0.5 | <1 | <20 | | |
| M2-S-E-2 | 14-JAN-2012 17:02 | HK1201540-018 | | <0.5 | <1 | <20 | | |
| M2-B-E-1 | 14-JAN-2012 17:02 | HK1201540-019 | | <0.5 | <1 | <20 | | |
| M2-B-E-2 | 14-JAN-2012 17:02 | HK1201540-020 | | <0.5 | <1 | <20 | | |
| DM4-S-E-1 | 14-JAN-2012 16:25 | HK1201540-021 | | <0.5 | <1 | <20 | | |
| DM4-S-E-2 | 14-JAN-2012 16:25 | HK1201540-022 | | <0.5 | <1 | <20 | | |
| DM4-B-E-1 | 14-JAN-2012 16:25 | HK1201540-023 | | <0.5 | <1 | <20 | | |
| DM4-B-E-2 | 14-JAN-2012 16:25 | HK1201540-024 | | <0.5 | <1 | <20 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2129974) | | | | | | | | |
| HK1201540-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1201540-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2129975) | | | | | | | | |
| HK1201540-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1201540-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2129976) | | | | | | | | |
| HK1201540-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2129977) | | | | | | | | |
| HK1201540-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2129974) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 94.3 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 100 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2129975) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 108 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2129976) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 85.8 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 87.6 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2129977) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 108 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2129974) | | | | | | | | | | |
| HK1201540-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 86.4 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 78.9 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2129975) | | | | | | | | | | |
| HK1201540-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 79.0 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2129976) | | | | | | | | | | |
| HK1201540-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 86.0 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 80.8 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2129977) | | | | | | | | | | |
| HK1201540-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 79.2 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

Client : FUGRO TECHNICAL SERVICES LIMITED
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Project : ----
Order number : ----
C-O-C number : H016055-H016056
Site : ----

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : ----

Page : 1 of 4
Work Order : HK1201764

Date received : 17-JAN-2012
Date of issue : 31-JAN-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1201764 supersedes any previous reports with this reference. The completion date of analysis is 20-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1201764 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EG020: Cadmium | EG020: Chromium | EG020: Aluminium | | |
|------------------|-----------------------------|----------------------|----------|---|---|---|--|--|
| | | | LOR Unit | 0.5 µg/L | 1 µg/L | 20 µg/L | | |
| | | | | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | |
| M1-S-E-1 | 17-JAN-2012 08:02 | HK1201764-001 | | <0.5 | <1 | <20 | | |
| M1-S-E-2 | 17-JAN-2012 08:02 | HK1201764-002 | | <0.5 | <1 | <20 | | |
| M1-B-E-1 | 17-JAN-2012 08:02 | HK1201764-003 | | <0.5 | <1 | <20 | | |
| M1-B-E-2 | 17-JAN-2012 08:02 | HK1201764-004 | | <0.5 | <1 | <20 | | |
| M2-S-E-1 | 17-JAN-2012 07:48 | HK1201764-005 | | <0.5 | <1 | <20 | | |
| M2-S-E-2 | 17-JAN-2012 07:48 | HK1201764-006 | | <0.5 | <1 | <20 | | |
| M2-B-E-1 | 17-JAN-2012 07:48 | HK1201764-007 | | <0.5 | <1 | <20 | | |
| M2-B-E-2 | 17-JAN-2012 07:48 | HK1201764-008 | | <0.5 | <1 | <20 | | |
| DM4-S-E-1 | 17-JAN-2012 08:22 | HK1201764-009 | | <0.5 | <1 | <20 | | |
| DM4-S-E-2 | 17-JAN-2012 08:22 | HK1201764-010 | | <0.5 | <1 | <20 | | |
| DM4-B-E-1 | 17-JAN-2012 08:22 | HK1201764-011 | | <0.5 | <1 | <20 | | |
| DM4-B-E-2 | 17-JAN-2012 08:22 | HK1201764-012 | | <0.5 | <1 | <20 | | |
| M1-S-F-1 | 17-JAN-2012 13:43 | HK1201764-013 | | <0.5 | <1 | <20 | | |
| M1-S-F-2 | 17-JAN-2012 13:43 | HK1201764-014 | | <0.5 | <1 | <20 | | |
| M1-B-F-1 | 17-JAN-2012 13:43 | HK1201764-015 | | <0.5 | <1 | <20 | | |
| M1-B-F-2 | 17-JAN-2012 13:43 | HK1201764-016 | | <0.5 | <1 | <20 | | |
| M2-S-F-1 | 17-JAN-2012 13:31 | HK1201764-017 | | <0.5 | <1 | <20 | | |
| M2-S-F-2 | 17-JAN-2012 13:31 | HK1201764-018 | | <0.5 | <1 | <20 | | |
| M2-B-F-1 | 17-JAN-2012 13:31 | HK1201764-019 | | <0.5 | <1 | <20 | | |
| M2-B-F-2 | 17-JAN-2012 13:31 | HK1201764-020 | | <0.5 | <1 | <20 | | |
| DM4-S-F-1 | 17-JAN-2012 14:02 | HK1201764-021 | | <0.5 | <1 | <20 | | |
| DM4-S-F-2 | 17-JAN-2012 14:02 | HK1201764-022 | | <0.5 | <1 | <20 | | |
| DM4-B-F-1 | 17-JAN-2012 14:02 | HK1201764-023 | | <0.5 | <1 | <20 | | |
| DM4-B-F-2 | 17-JAN-2012 14:02 | HK1201764-024 | | <0.5 | <1 | <20 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2132857) | | | | | | | | |
| HK1201764-002 | M1-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1201764-011 | DM4-B-E-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2132858) | | | | | | | | |
| HK1201764-002 | M1-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1201764-011 | DM4-B-E-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2132859) | | | | | | | | |
| HK1201764-022 | DM4-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2132860) | | | | | | | | |
| HK1201764-022 | DM4-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2132857) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 90.6 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 90.7 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2132858) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 107 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2132859) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.5 | 10 µg/L | 89.2 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 89.4 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2132860) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 10 µg/L | 108 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2132857) | | | | | | | | | | |
| HK1201764-001 | M1-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 83.6 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 81.5 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2132858) | | | | | | | | | | |
| HK1201764-001 | M1-S-E-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 101 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2132859) | | | | | | | | | | |
| HK1201764-021 | DM4-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 86.4 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 86.0 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2132860) | | | | | | | | | | |
| HK1201764-021 | DM4-S-F-1 | EG020: Aluminium | 7429-90-5 | 10 µg/L | 91.2 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

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Order number : ----
C-O-C number : H016057-H016058
Site : ----

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Quote number : ----

Page : 1 of 4
Work Order : HK1202213

Date received : 19-JAN-2012
Date of issue : 01-FEB-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1202213 supersedes any previous reports with this reference. The completion date of analysis is 30-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1202213 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EG020: Cadmium | EG020: Chromium | EG020: Aluminium | | |
|------------------|-----------------------------|----------------------|----------|---|---|---|--|--|
| | | | LOR Unit | 0.5 µg/L | 1 µg/L | 20 µg/L | | |
| | | | | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | |
| M1-S-E-1 | 19-JAN-2012 11:20 | HK1202213-001 | | <0.5 | <1 | <20 | | |
| M1-S-E-2 | 19-JAN-2012 11:20 | HK1202213-002 | | <0.5 | <1 | <20 | | |
| M1-B-E-1 | 19-JAN-2012 11:20 | HK1202213-003 | | <0.5 | <1 | <20 | | |
| M1-B-E-2 | 19-JAN-2012 11:20 | HK1202213-004 | | <0.5 | <1 | <20 | | |
| M2-S-E-1 | 19-JAN-2012 11:07 | HK1202213-005 | | <0.5 | <1 | <20 | | |
| M2-S-E-2 | 19-JAN-2012 11:07 | HK1202213-006 | | <0.5 | <1 | <20 | | |
| M2-B-E-1 | 19-JAN-2012 11:07 | HK1202213-007 | | <0.5 | <1 | <20 | | |
| M2-B-E-2 | 19-JAN-2012 11:07 | HK1202213-008 | | <0.5 | <1 | <20 | | |
| DM4-S-E-1 | 19-JAN-2012 11:41 | HK1202213-009 | | <0.5 | <1 | <20 | | |
| DM4-S-E-2 | 19-JAN-2012 11:41 | HK1202213-010 | | <0.5 | <1 | <20 | | |
| DM4-B-E-1 | 19-JAN-2012 11:41 | HK1202213-011 | | <0.5 | <1 | <20 | | |
| DM4-B-E-2 | 19-JAN-2012 11:41 | HK1202213-012 | | <0.5 | <1 | <20 | | |
| M1-S-F-1 | 19-JAN-2012 15:15 | HK1202213-013 | | <0.5 | <1 | <20 | | |
| M1-S-F-2 | 19-JAN-2012 15:15 | HK1202213-014 | | <0.5 | <1 | <20 | | |
| M1-B-F-1 | 19-JAN-2012 15:15 | HK1202213-015 | | <0.5 | <1 | <20 | | |
| M1-B-F-2 | 19-JAN-2012 15:15 | HK1202213-016 | | <0.5 | <1 | <20 | | |
| M2-S-F-1 | 19-JAN-2012 15:02 | HK1202213-017 | | <0.5 | <1 | <20 | | |
| M2-S-F-2 | 19-JAN-2012 15:02 | HK1202213-018 | | <0.5 | <1 | <20 | | |
| M2-B-F-1 | 19-JAN-2012 15:02 | HK1202213-019 | | <0.5 | <1 | <20 | | |
| M2-B-F-2 | 19-JAN-2012 15:02 | HK1202213-020 | | <0.5 | <1 | <20 | | |
| DM4-S-F-1 | 19-JAN-2012 15:33 | HK1202213-021 | | <0.5 | <1 | <20 | | |
| DM4-S-F-2 | 19-JAN-2012 15:33 | HK1202213-022 | | <0.5 | <1 | <20 | | |
| DM4-B-F-1 | 19-JAN-2012 15:33 | HK1202213-023 | | <0.5 | <1 | <20 | | |
| DM4-B-F-2 | 19-JAN-2012 15:33 | HK1202213-024 | | <0.5 | <1 | <20 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2142256) | | | | | | | | |
| HK1202213-002 | M1-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1202213-011 | DM4-B-E-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2142257) | | | | | | | | |
| HK1202213-002 | M1-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1202213-011 | DM4-B-E-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2142258) | | | | | | | | |
| HK1202213-022 | DM4-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2142259) | | | | | | | | |
| HK1202213-022 | DM4-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2142256) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.2 | 10 µg/L | 91.7 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 106 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2142257) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 20 µg/L | 104 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2142258) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.2 | 10 µg/L | 98.1 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 110 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2142259) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 20 µg/L | 108 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2142256) | | | | | | | | | | |
| HK1202213-001 | M1-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 97.4 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 107 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2142257) | | | | | | | | | | |
| HK1202213-001 | M1-S-E-1 | EG020: Aluminium | 7429-90-5 | 20 µg/L | 107 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | Concentration | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2142258) | | | | | | | | | | |
| HK1202213-021 | DM4-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 103 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 118 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2142259) | | | | | | | | | | |
| HK1202213-021 | DM4-S-F-1 | EG020: Aluminium | 7429-90-5 | 20 µg/L | 80.5 | ---- | 75 | 125 | ---- | ---- |

CERTIFICATE OF ANALYSIS

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Project : ----
Order number : ----
C-O-C number : H016059-H016060
Site : ----

Laboratory : ALS Technichem HK Pty Ltd
Contact : Chan Kwok Fai, Godfrey
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Quote number : ----

Page : 1 of 4
Work Order : HK1202418

Date received : 21-JAN-2012
Date of issue : 02-FEB-2012
No. of samples - *Received* : 24
- *Analysed* : 24

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1202418 supersedes any previous reports with this reference. The completion date of analysis is 30-JAN-2012. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1202418 :
Sample(s) were received in a chilled condition.
Water sample(s) analysed and reported on an as received basis.
Water sample(s) were filtered prior to dissolved metal analysis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hong Kong, Chapter 553, Section 6.

| <i>Signatory</i> | <i>Position</i> | <i>Authorised results for:-</i> |
|--------------------|-------------------------------|---------------------------------|
| Wong Wing, Kenneth | Assistant Supervisor - Metals | Inorganics |



Analytical Results

Sub-Matrix: SEAWATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EG020: Cadmium | EG020: Chromium | EG020: Aluminium | | |
|------------------|-----------------------------|----------------------|----------|---|---|---|--|--|
| | | | LOR Unit | 0.5 µg/L | 1 µg/L | 20 µg/L | | |
| | | | | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | EG: Metals and Major Cations - Filtered | | |
| M1-S-F-1 | 21-JAN-2012 07:59 | HK1202418-001 | | <0.5 | <1 | <20 | | |
| M1-S-F-2 | 21-JAN-2012 07:59 | HK1202418-002 | | <0.5 | <1 | <20 | | |
| M1-B-F-1 | 21-JAN-2012 07:59 | HK1202418-003 | | <0.5 | <1 | <20 | | |
| M1-B-F-2 | 21-JAN-2012 07:59 | HK1202418-004 | | <0.5 | <1 | <20 | | |
| M2-S-F-1 | 21-JAN-2012 08:13 | HK1202418-005 | | <0.5 | <1 | <20 | | |
| M2-S-F-2 | 21-JAN-2012 08:13 | HK1202418-006 | | <0.5 | <1 | <20 | | |
| M2-B-F-1 | 21-JAN-2012 08:13 | HK1202418-007 | | <0.5 | <1 | <20 | | |
| M2-B-F-2 | 21-JAN-2012 08:13 | HK1202418-008 | | <0.5 | <1 | <20 | | |
| DM4-S-F-1 | 21-JAN-2012 08:31 | HK1202418-009 | | <0.5 | <1 | <20 | | |
| DM4-S-F-2 | 21-JAN-2012 08:31 | HK1202418-010 | | <0.5 | <1 | <20 | | |
| DM4-B-F-1 | 21-JAN-2012 08:31 | HK1202418-011 | | <0.5 | <1 | <20 | | |
| DM4-B-F-2 | 21-JAN-2012 08:31 | HK1202418-012 | | <0.5 | <1 | <20 | | |
| M1-S-E-1 | 21-JAN-2012 12:20 | HK1202418-013 | | <0.5 | <1 | <20 | | |
| M1-S-E-2 | 21-JAN-2012 12:20 | HK1202418-014 | | <0.5 | <1 | <20 | | |
| M1-B-E-1 | 21-JAN-2012 12:20 | HK1202418-015 | | <0.5 | <1 | <20 | | |
| M1-B-E-2 | 21-JAN-2012 12:20 | HK1202418-016 | | <0.5 | <1 | <20 | | |
| M2-S-E-1 | 21-JAN-2012 12:33 | HK1202418-017 | | <0.5 | <1 | <20 | | |
| M2-S-E-2 | 21-JAN-2012 12:33 | HK1202418-018 | | <0.5 | <1 | <20 | | |
| M2-B-E-1 | 21-JAN-2012 12:33 | HK1202418-019 | | <0.5 | <1 | <20 | | |
| M2-B-E-2 | 21-JAN-2012 12:33 | HK1202418-020 | | <0.5 | <1 | <20 | | |
| DM4-S-E-1 | 21-JAN-2012 12:51 | HK1202418-021 | | <0.5 | <1 | <20 | | |
| DM4-S-E-2 | 21-JAN-2012 12:51 | HK1202418-022 | | <0.5 | <1 | <20 | | |
| DM4-B-E-1 | 21-JAN-2012 12:51 | HK1202418-023 | | <0.5 | <1 | <20 | | |
| DM4-B-E-2 | 21-JAN-2012 12:51 | HK1202418-024 | | <0.5 | <1 | <20 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | |
|--|------------------|------------------|------------|-----------------------------------|------|-----------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EG: Metals and Major Cations - Filtered (QC Lot: 2145521) | | | | | | | | |
| HK1202418-002 | M1-S-F-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| HK1202418-011 | DM4-B-F-1 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2145522) | | | | | | | | |
| HK1202418-002 | M1-S-F-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| HK1202418-011 | DM4-B-F-1 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2145523) | | | | | | | | |
| HK1202418-022 | DM4-S-E-2 | EG020: Cadmium | 7440-43-9 | 0.5 | µg/L | <0.5 | <0.5 | 0.0 |
| | | EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | <1 | 0.0 |
| EG: Metals and Major Cations - Filtered (QC Lot: 2145524) | | | | | | | | |
| HK1202418-022 | DM4-S-E-2 | EG020: Aluminium | 7429-90-5 | 20 | µg/L | <20 | <20 | 0.0 |

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | | Method Blank (MB) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | |
|---|------------|-----|------|--------------------------|---------------------|--|------|---------------------|------|----------|---------------|
| Method: Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2145521) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.2 | 10 µg/L | 101 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 114 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2145522) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 20 µg/L | 102 | ---- | 85 | 115 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2145523) | | | | | | | | | | | |
| EG020: Cadmium | 7440-43-9 | 0.2 | µg/L | <0.2 | 10 µg/L | 110 | ---- | 80 | 112 | ---- | ---- |
| EG020: Chromium | 7440-47-3 | 1 | µg/L | <1 | 10 µg/L | 111 | ---- | 80 | 114 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2145524) | | | | | | | | | | | |
| EG020: Aluminium | 7429-90-5 | 10 | µg/L | <20 | 20 µg/L | 105 | ---- | 85 | 115 | ---- | ---- |

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

| Matrix: WATER | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2145521) | | | | | | | | | | |
| HK1202418-001 | M1-S-F-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 94.8 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 115 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2145522) | | | | | | | | | | |
| HK1202418-001 | M1-S-F-1 | EG020: Aluminium | 7429-90-5 | 20 µg/L | 81.8 | ---- | 75 | 125 | ---- | ---- |



Matrix: WATER

| | | | | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report | | | | | | |
|---|------------------|------------------|------------|---|--------------------|------|---------------------|------|----------|---------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | Concentration | MS | MSD | Low | High | Value | Control Limit |
| EG: Metals and Major Cations - Filtered (QCLot: 2145523) | | | | | | | | | | |
| HK1202418-021 | DM4-S-E-1 | EG020: Cadmium | 7440-43-9 | 10 µg/L | 98.2 | ---- | 75 | 125 | ---- | ---- |
| | | EG020: Chromium | 7440-47-3 | 10 µg/L | 108 | ---- | 75 | 125 | ---- | ---- |
| EG: Metals and Major Cations - Filtered (QCLot: 2145524) | | | | | | | | | | |
| HK1202418-021 | DM4-S-E-1 | EG020: Aluminium | 7429-90-5 | 20 µg/L | 79.9 | ---- | 75 | 125 | ---- | ---- |

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Appendix 4

Graphical Presentation of Monitoring Data

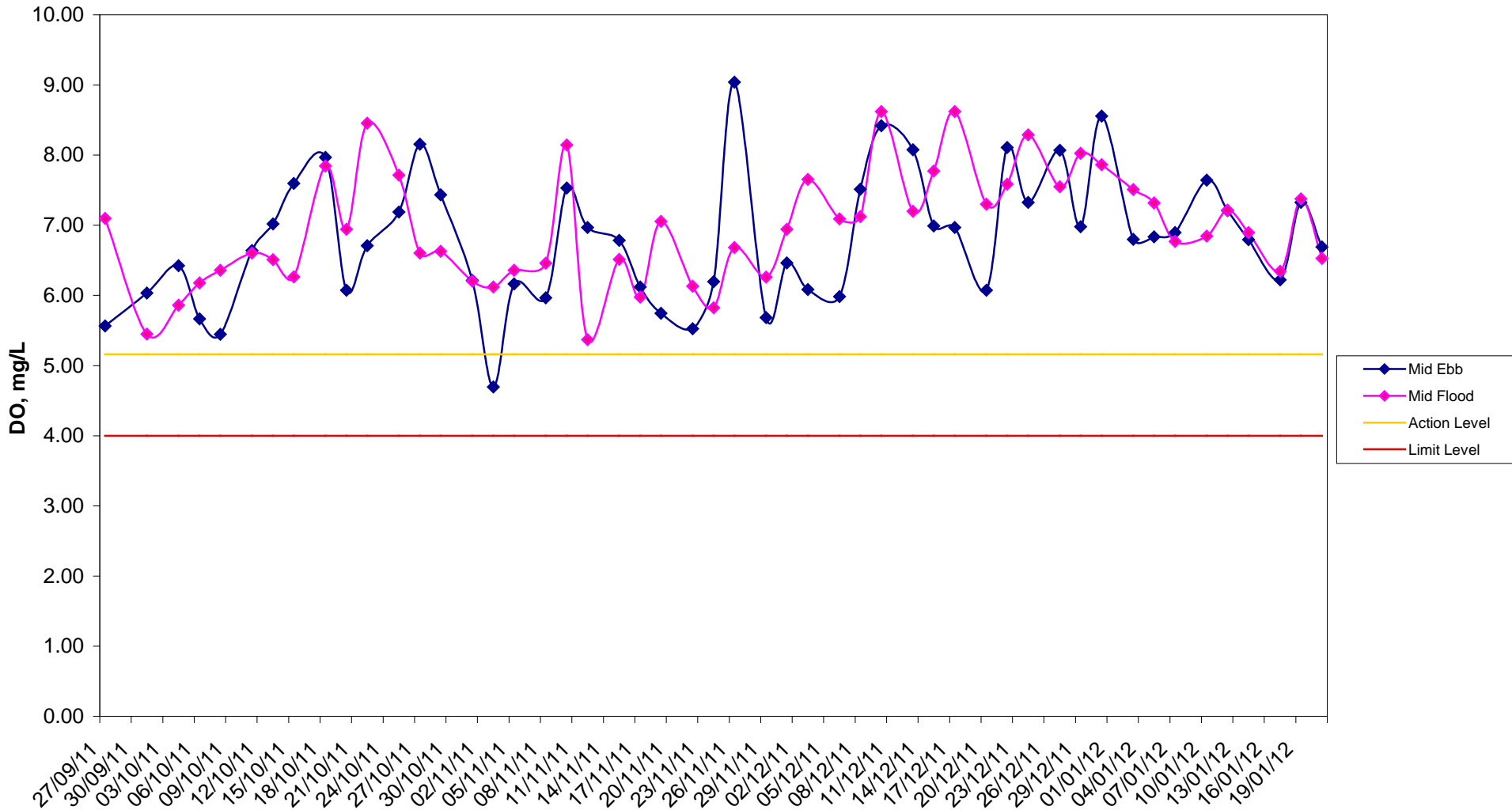
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W1 - Dissolved Oxygen Content



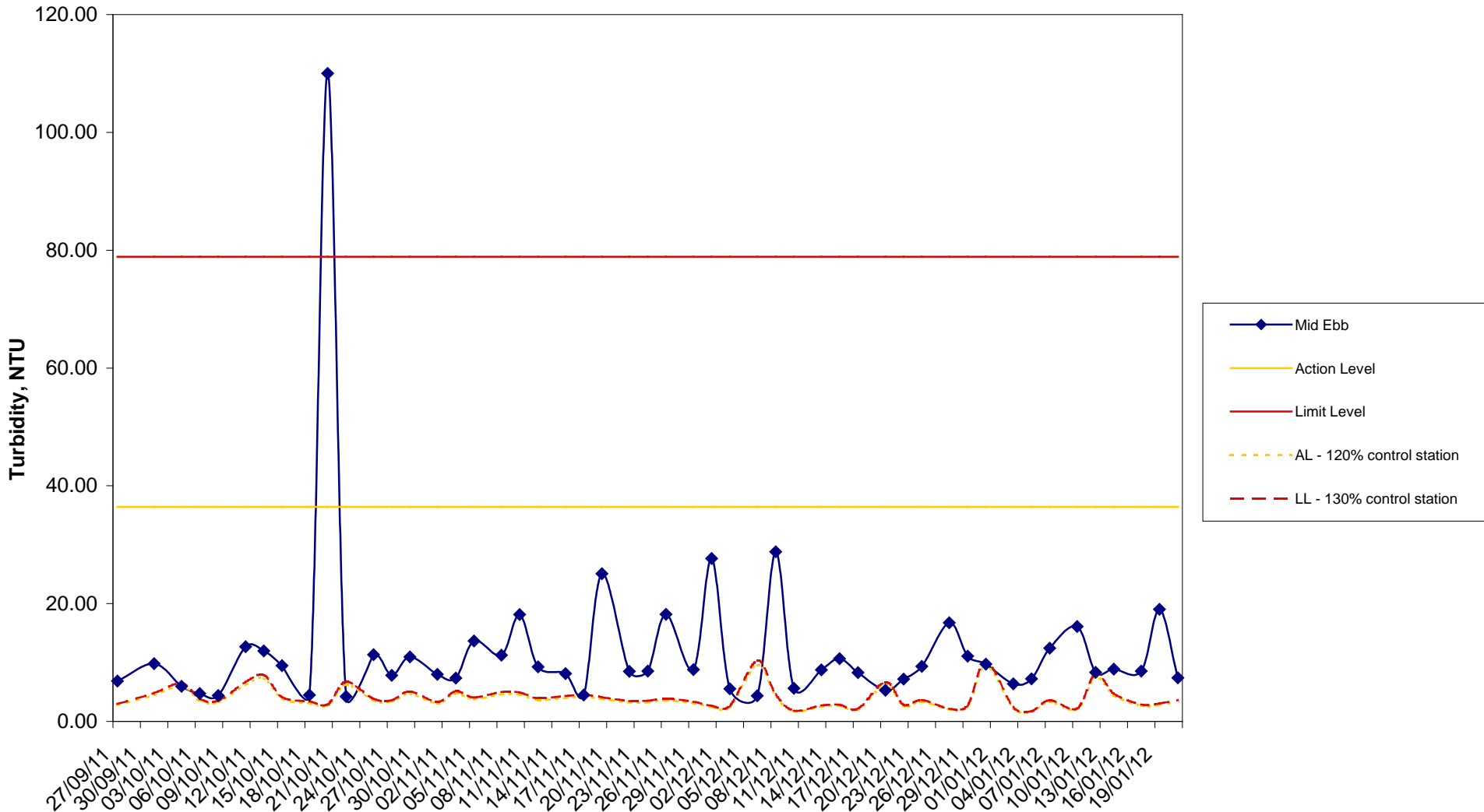
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W1 - Turbidity (Mid-Ebb)



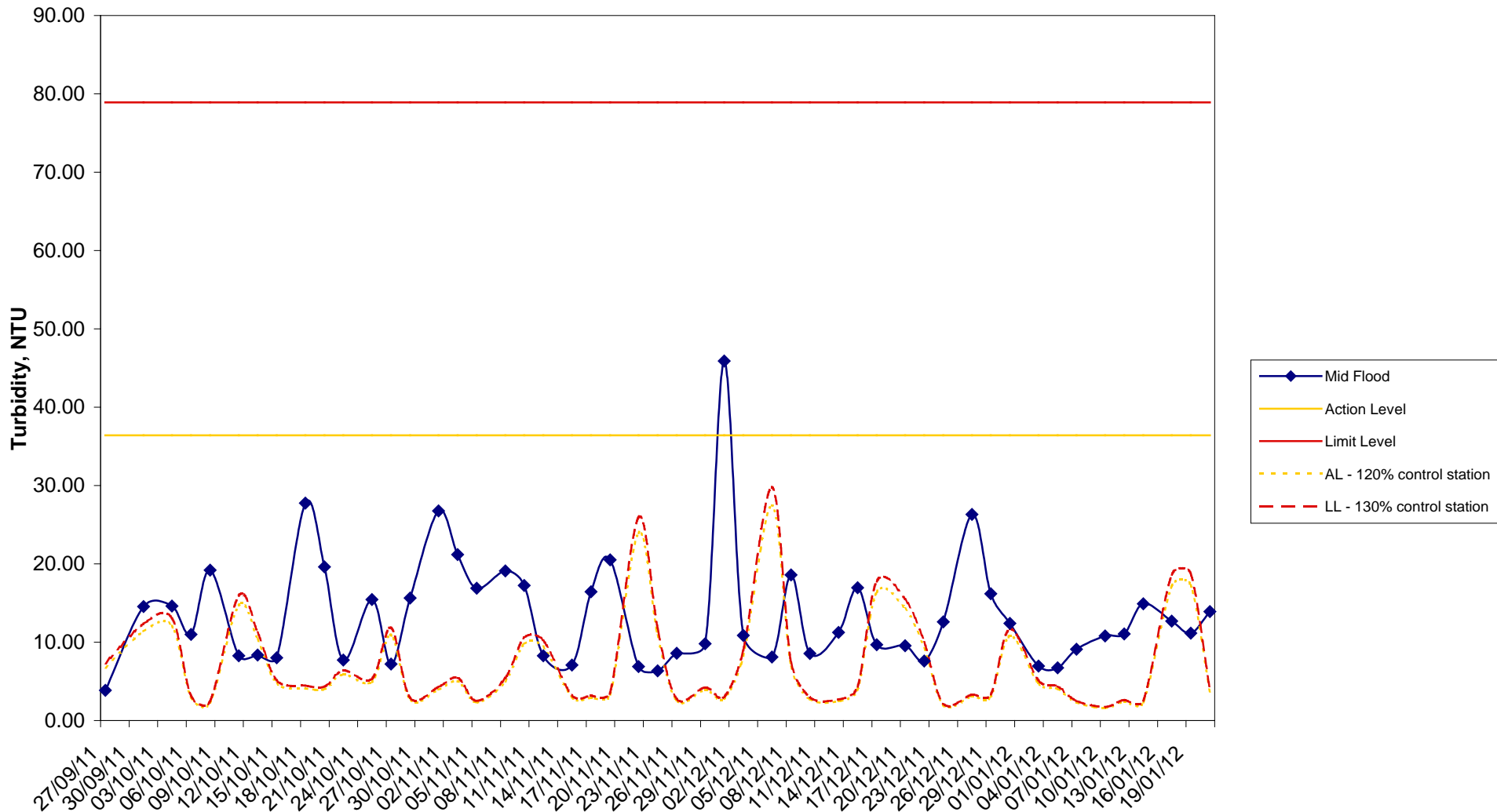
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W1 - Turbidity (Mid-Flood)



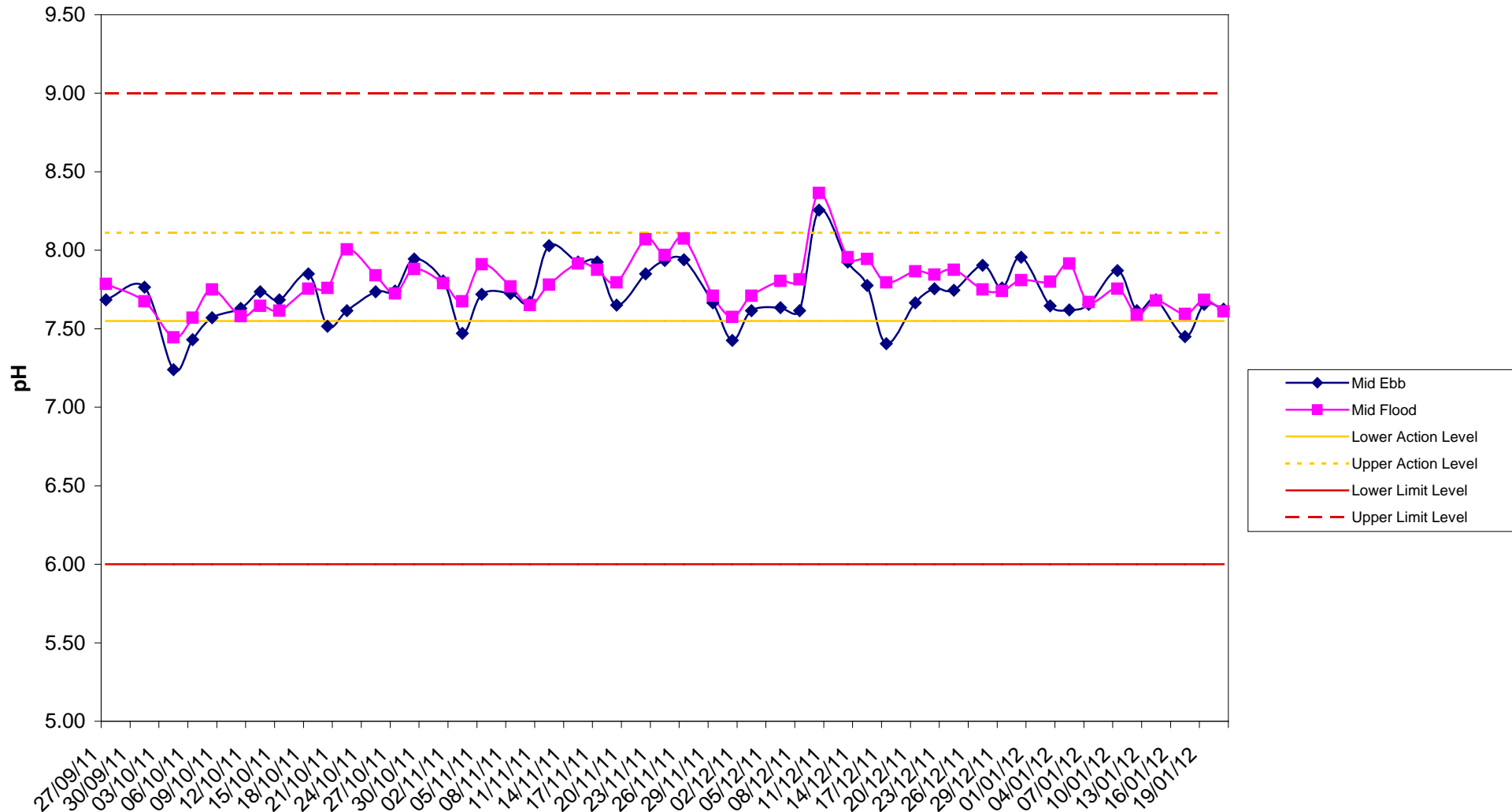
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W1 - pH



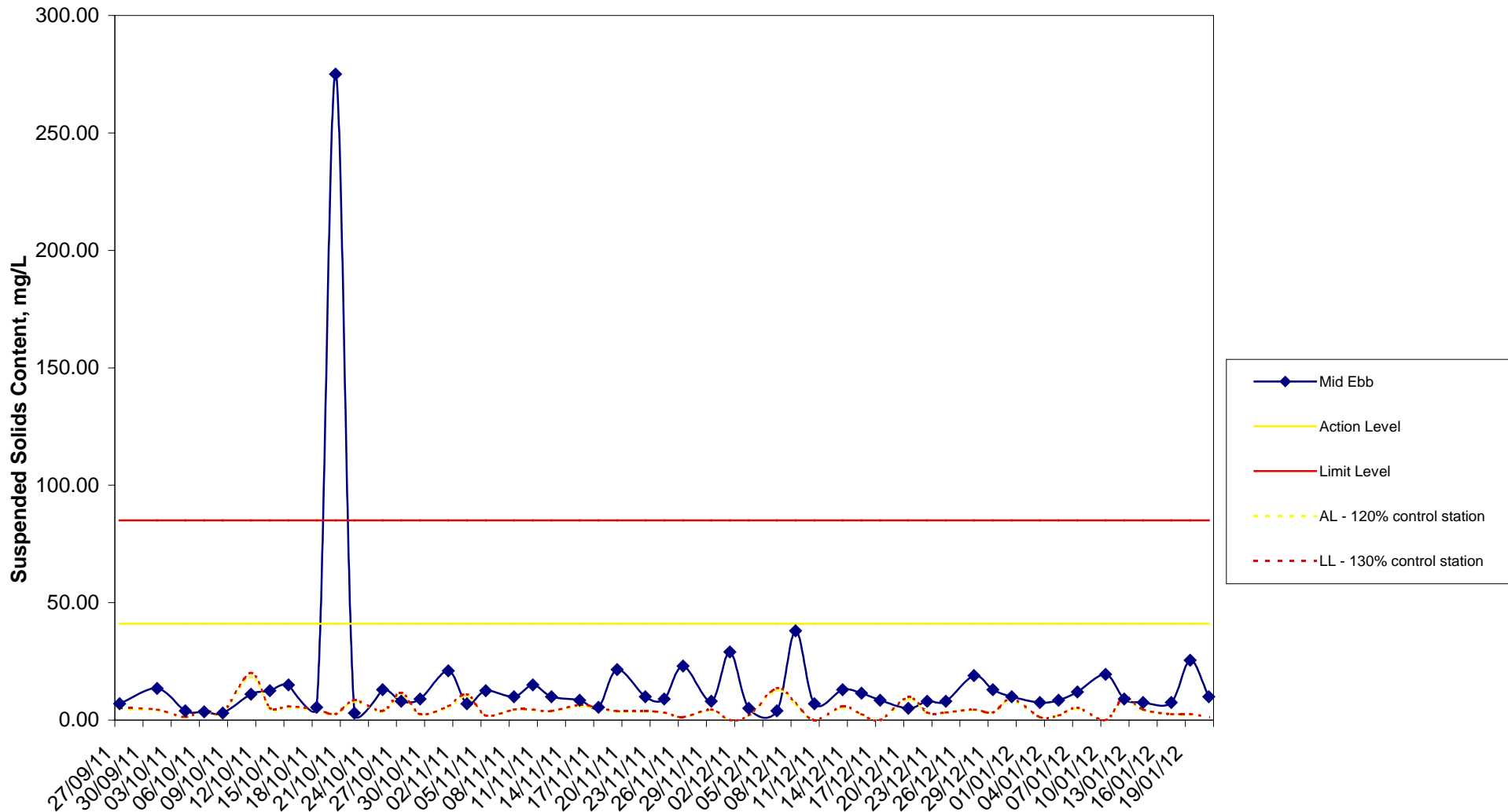
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W1 - Suspended Solid Content (Mid-Ebb)



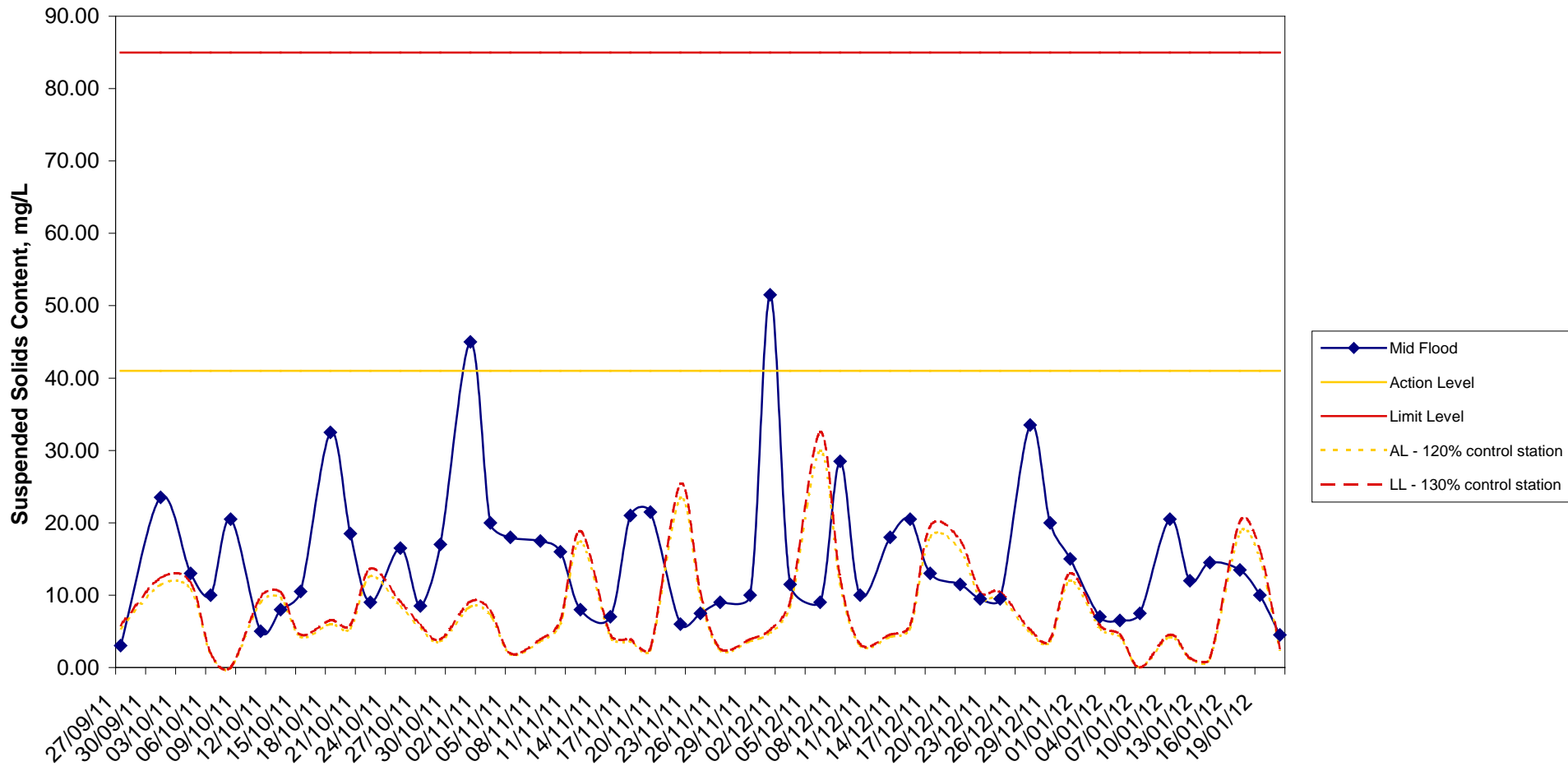
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W1 - Suspended Solids Content (Mid-Flood)



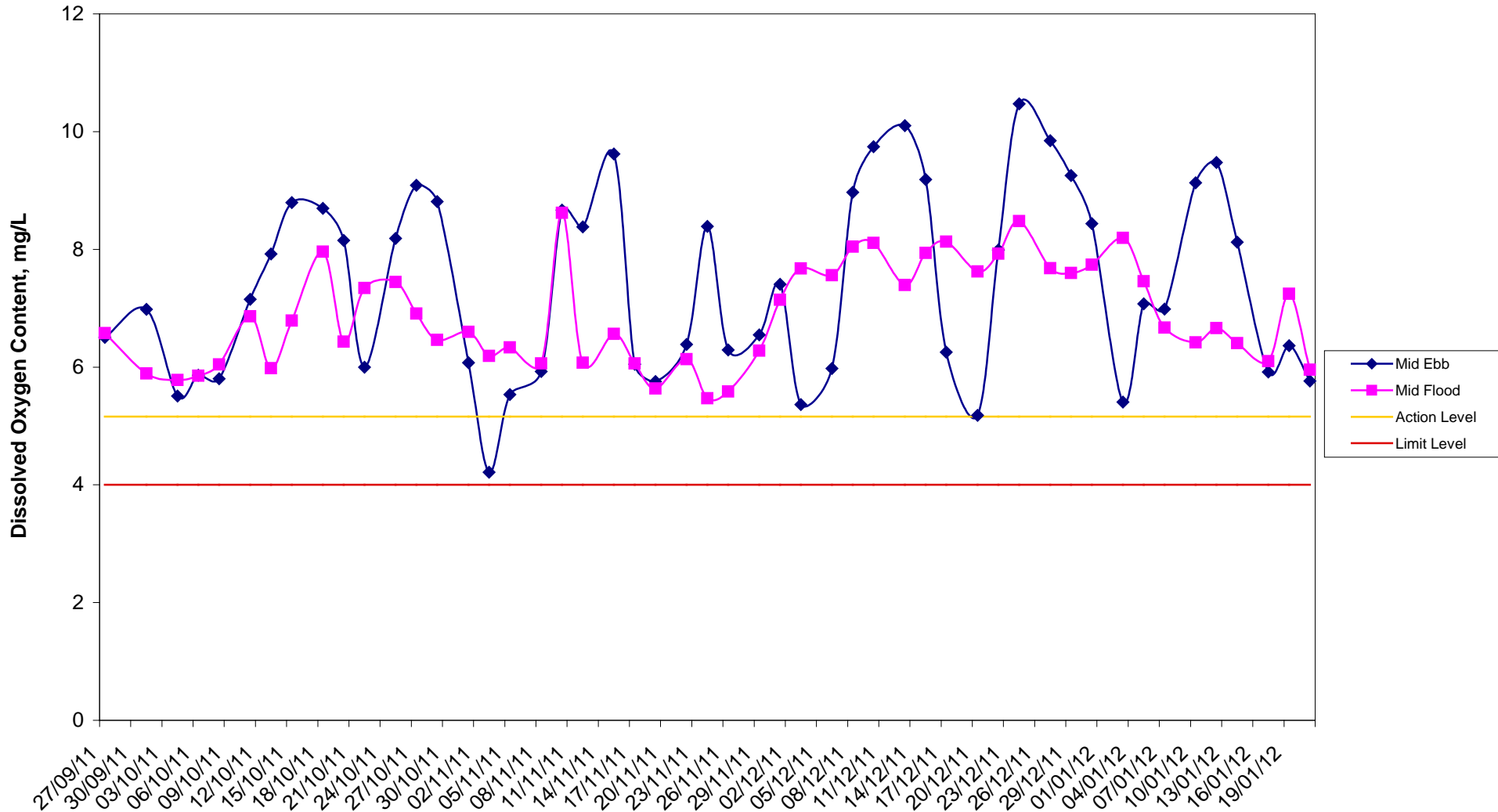
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W2 - Dissolved Oxygen Content



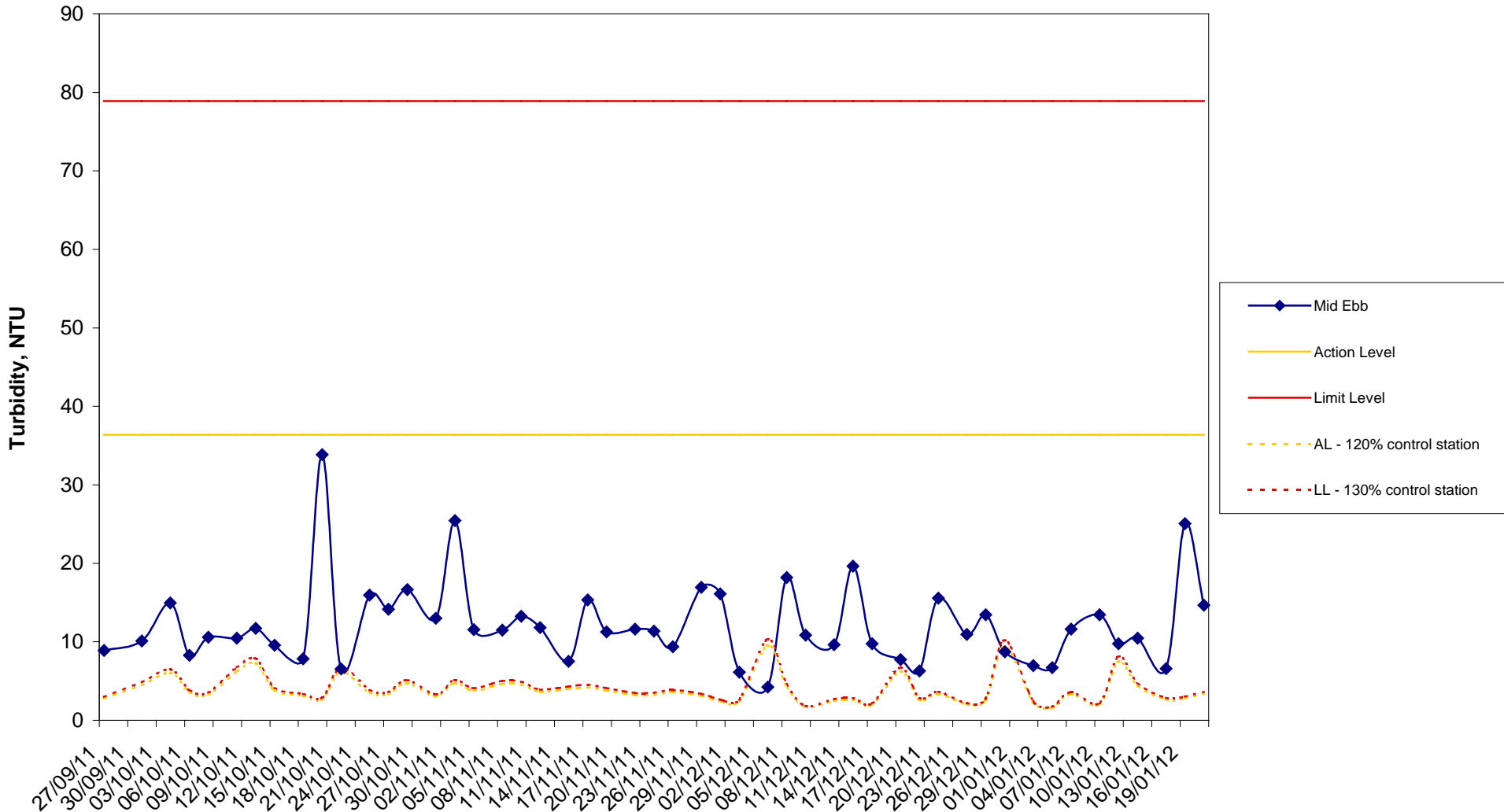
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W2 - Turbidity (Mid-Ebb)



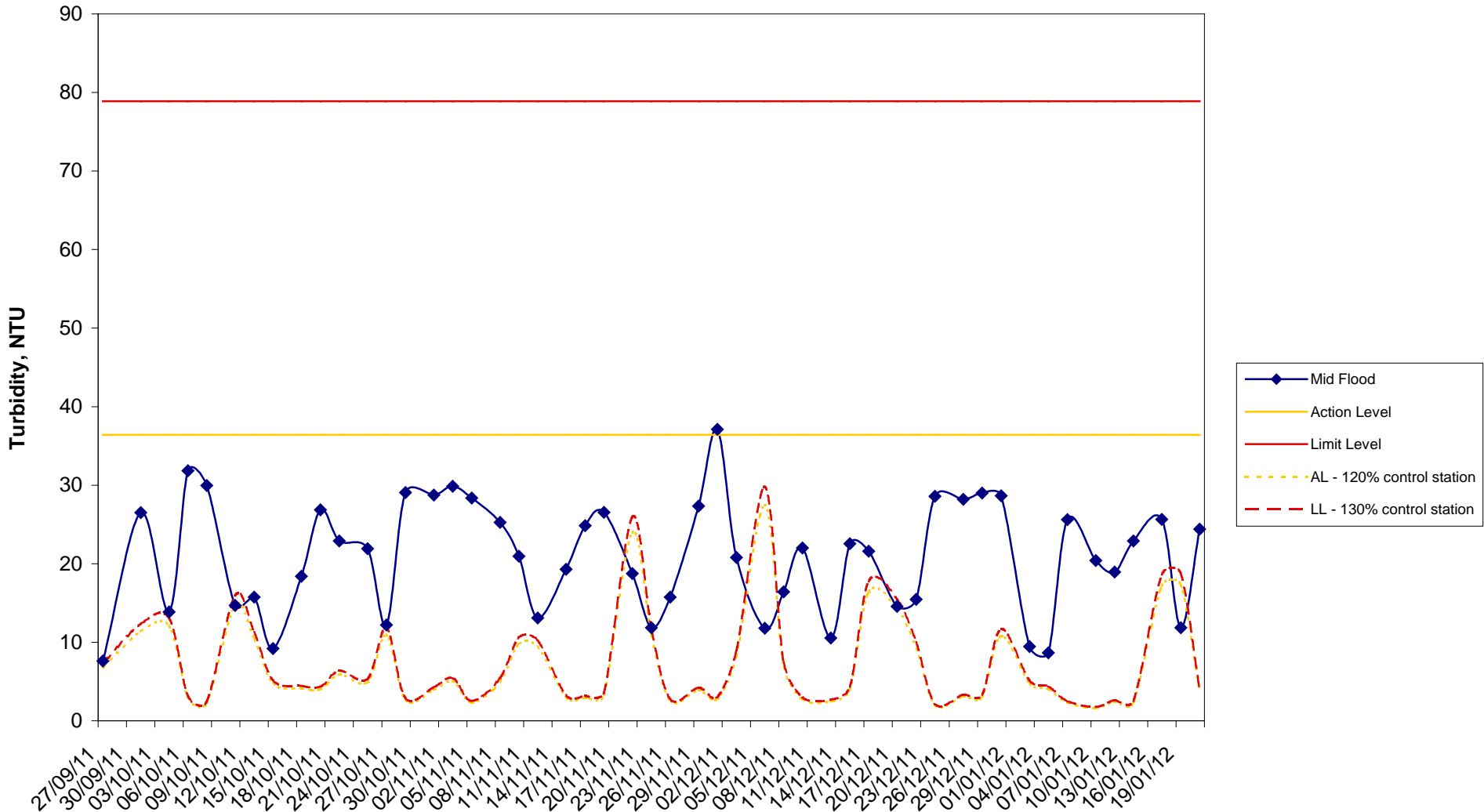
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W2 - Turbidity (Mid-Flood)



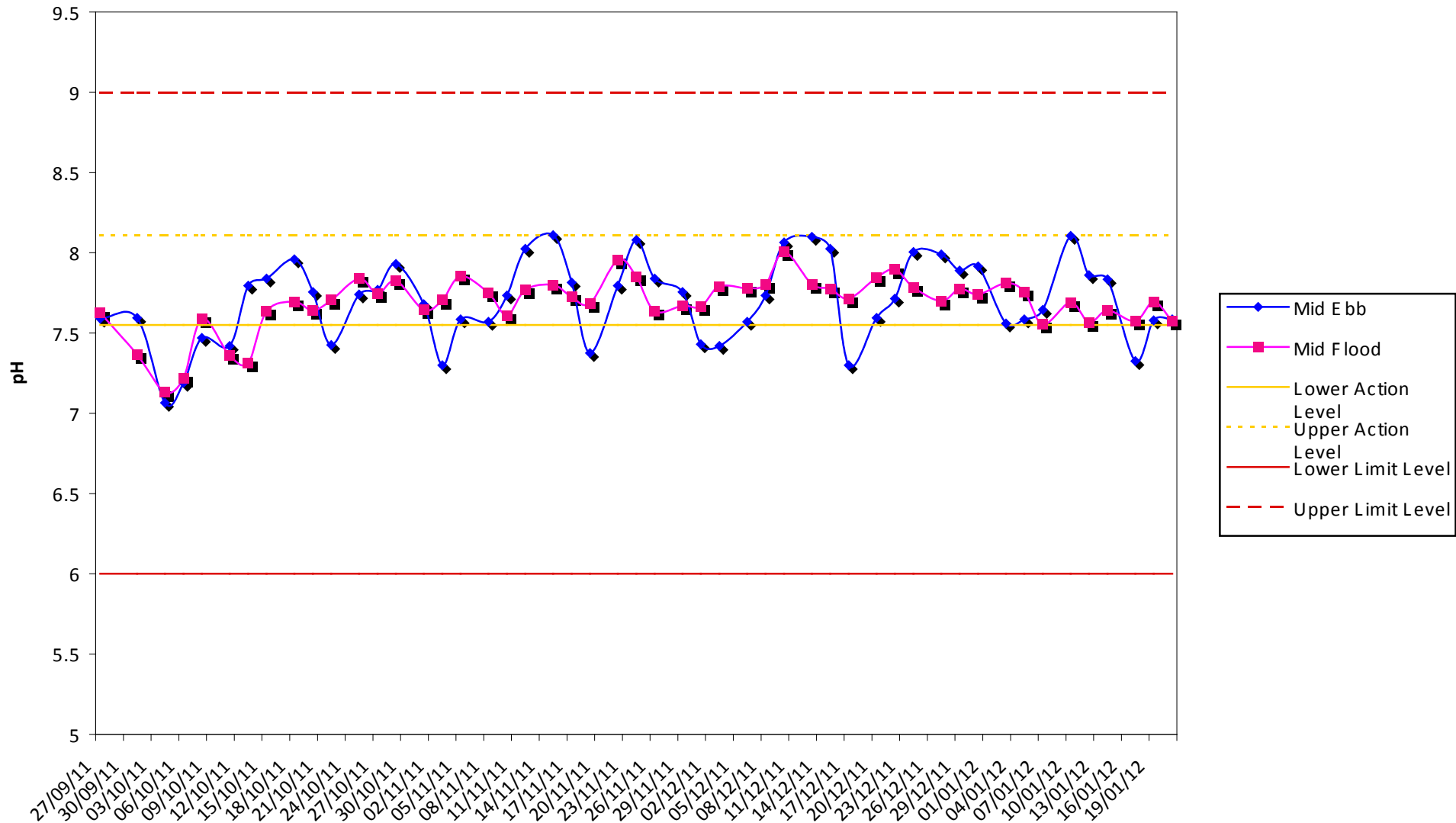
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W2 - pH



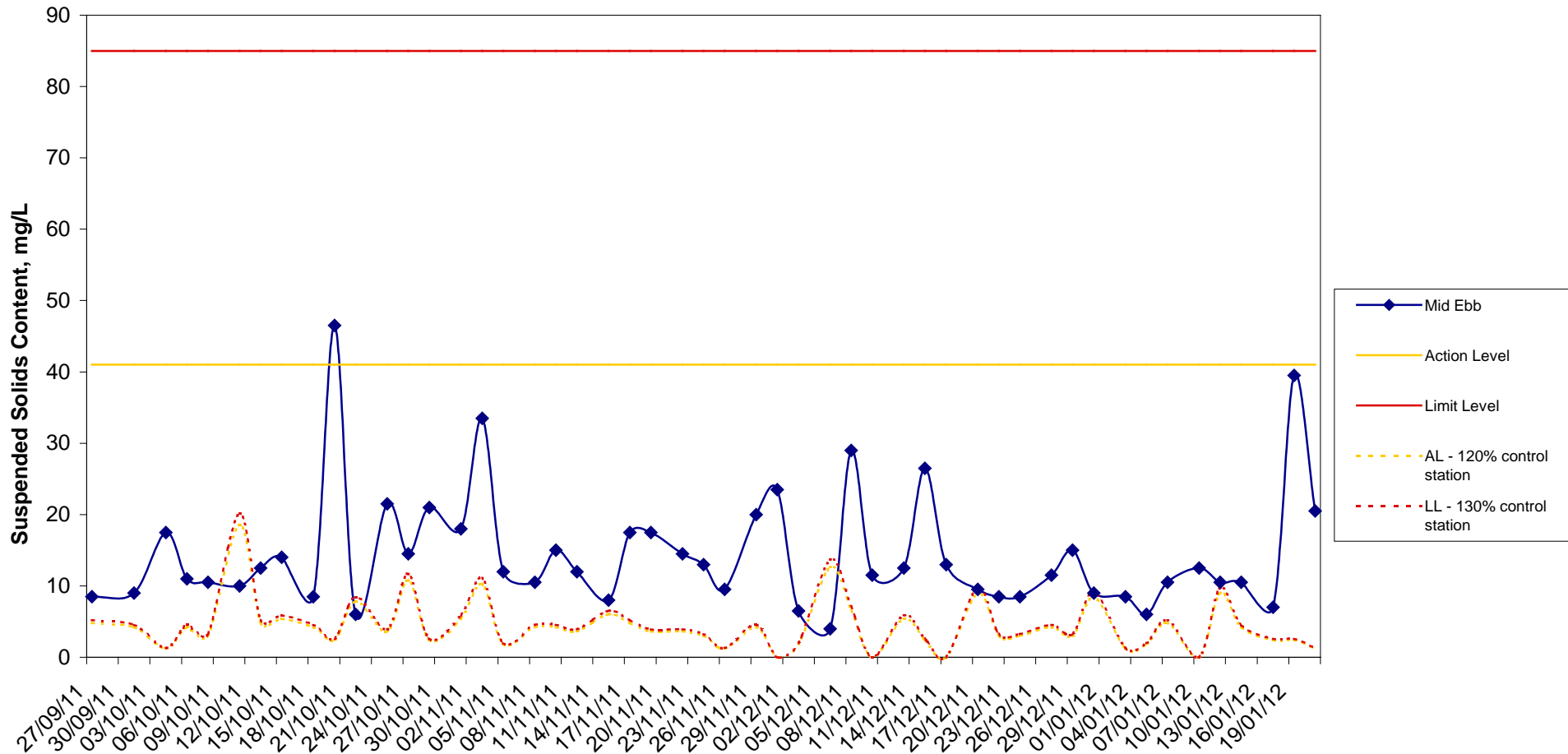
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W2 - Suspended Solids Content (Mid-Ebb)



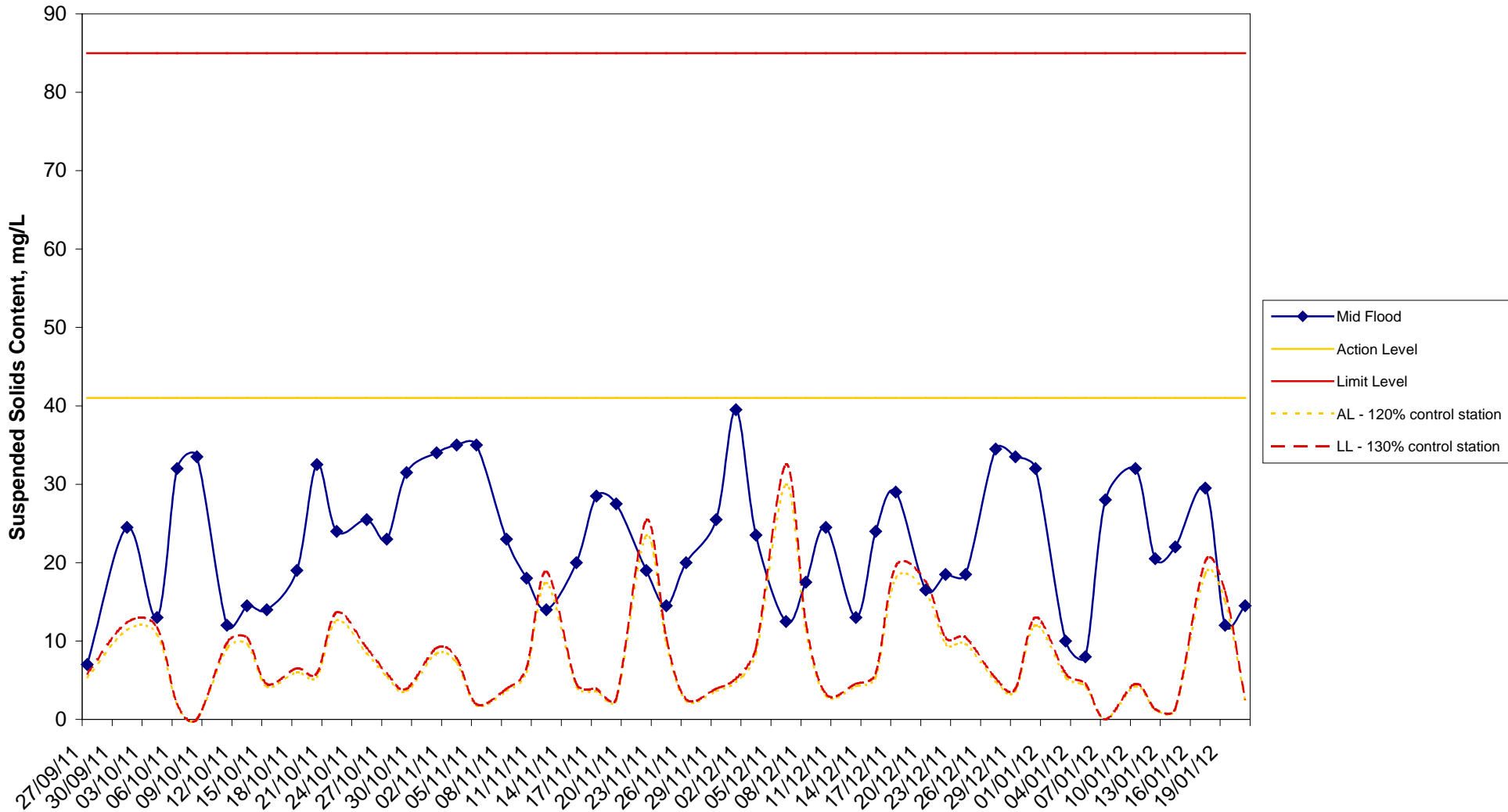
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W2 - Suspended Solids Content (Mid-Flood)



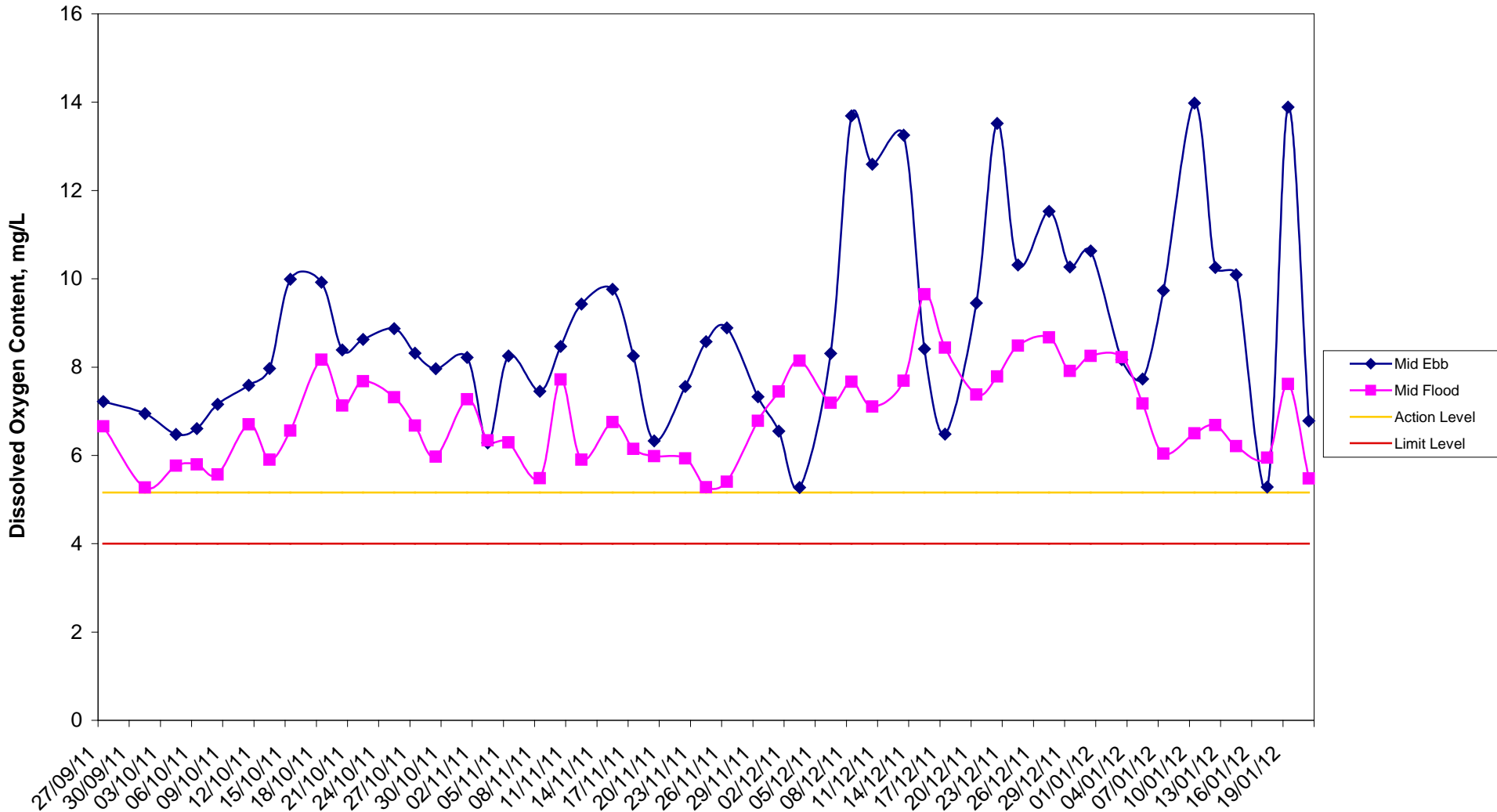
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W3 - Dissolved Oxygen Content



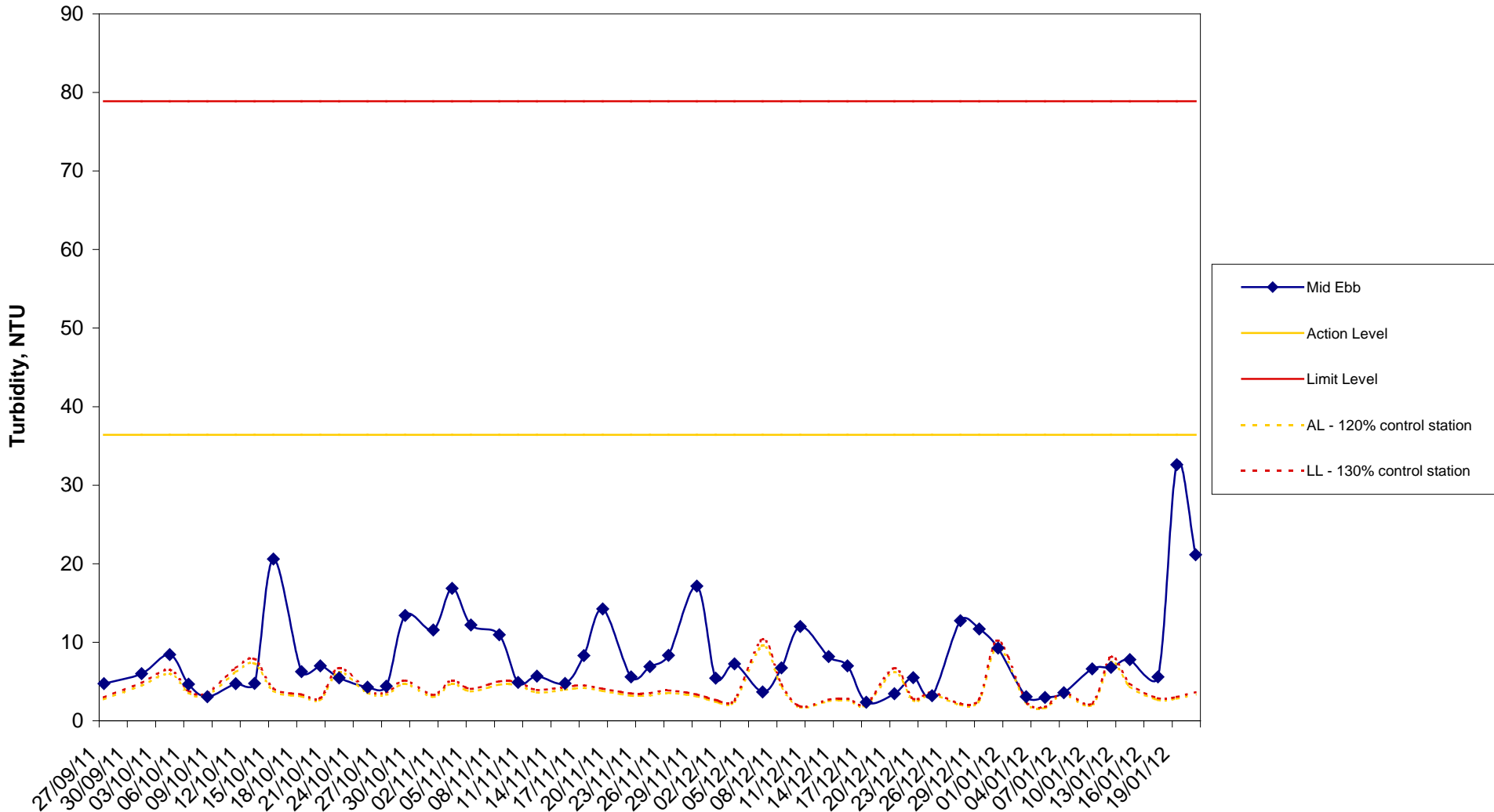
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W3 - Turbidity (Mid-Ebb)



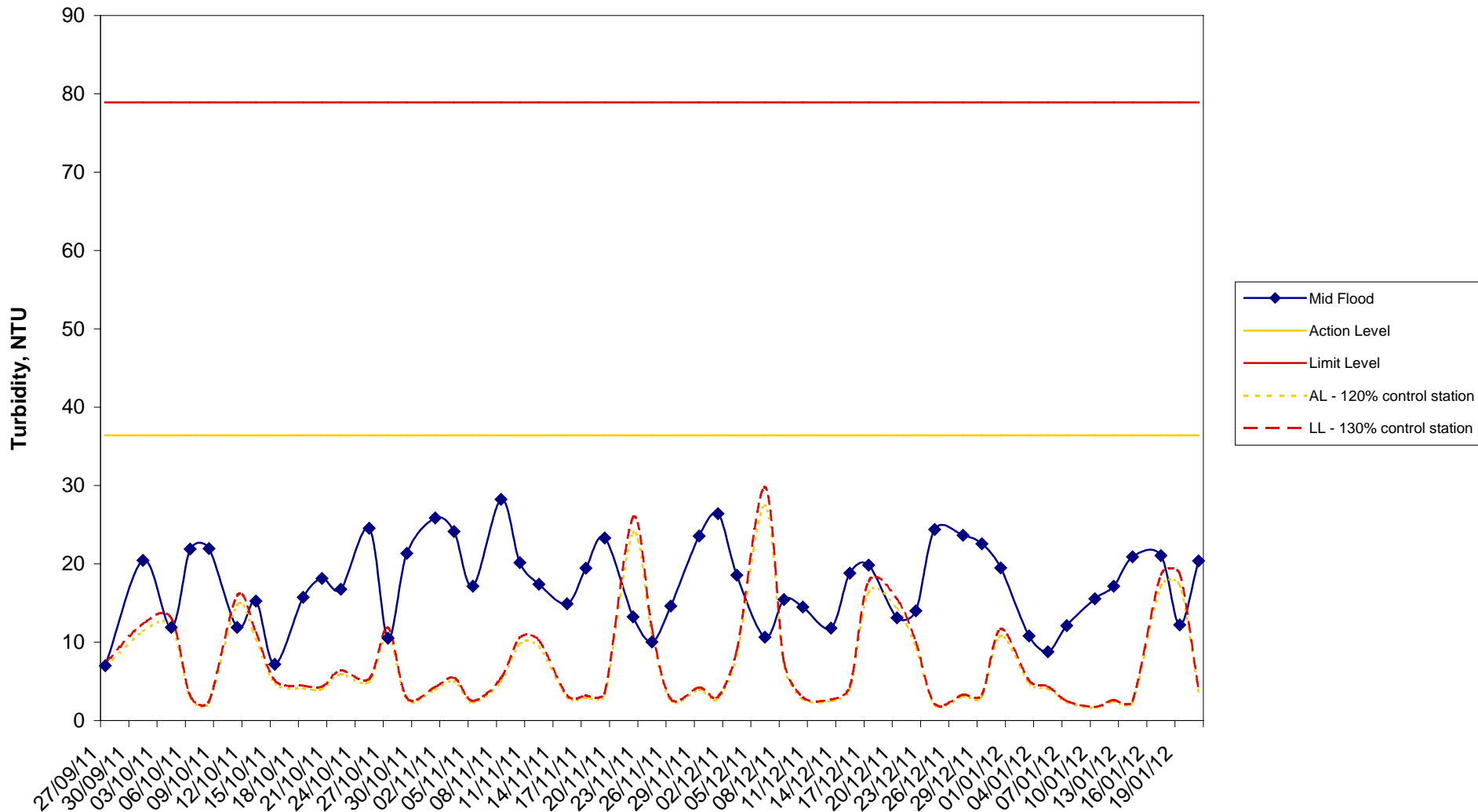
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W3 - Turbidity (Mid-Flood)



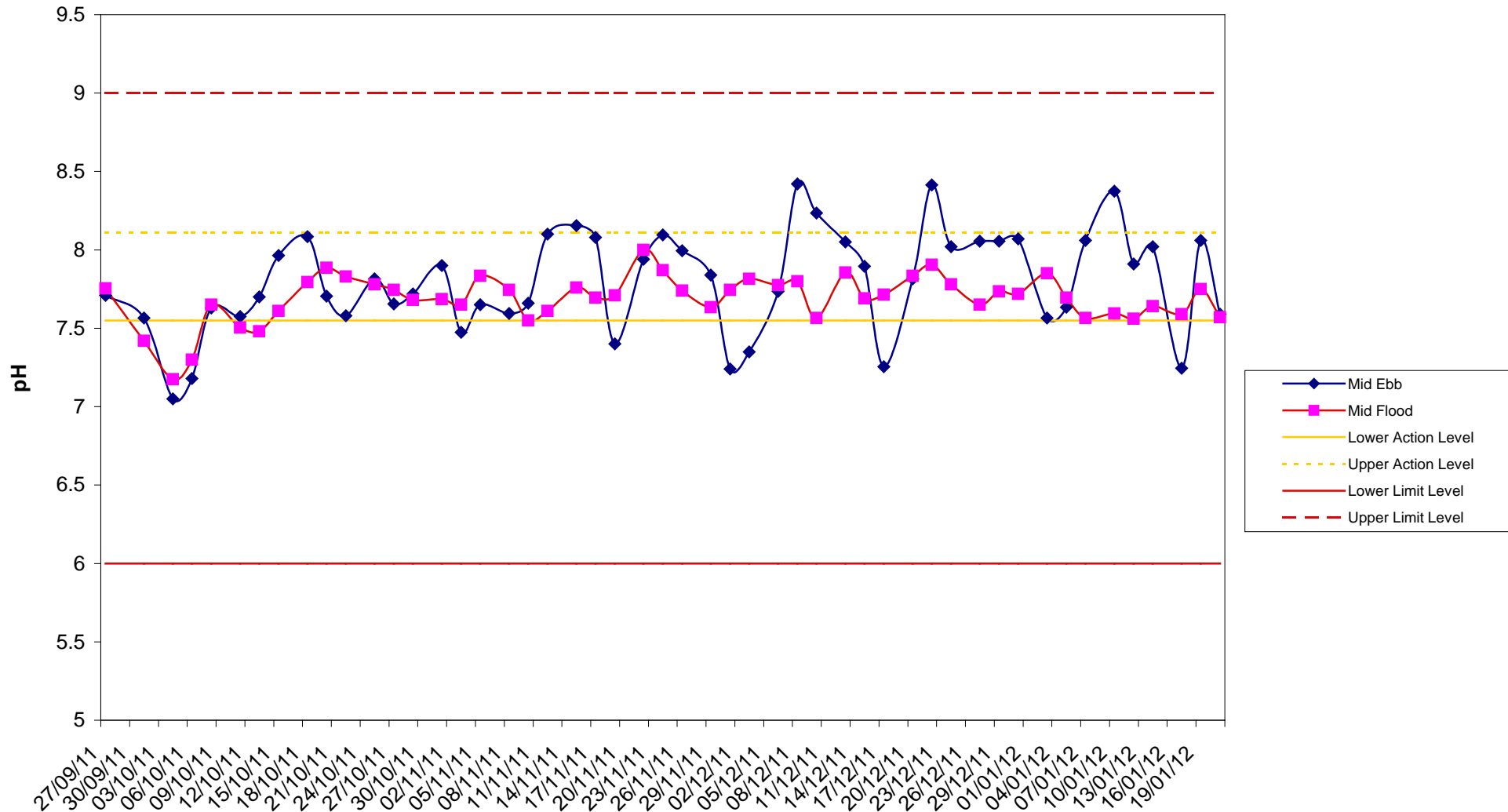
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W3 - pH



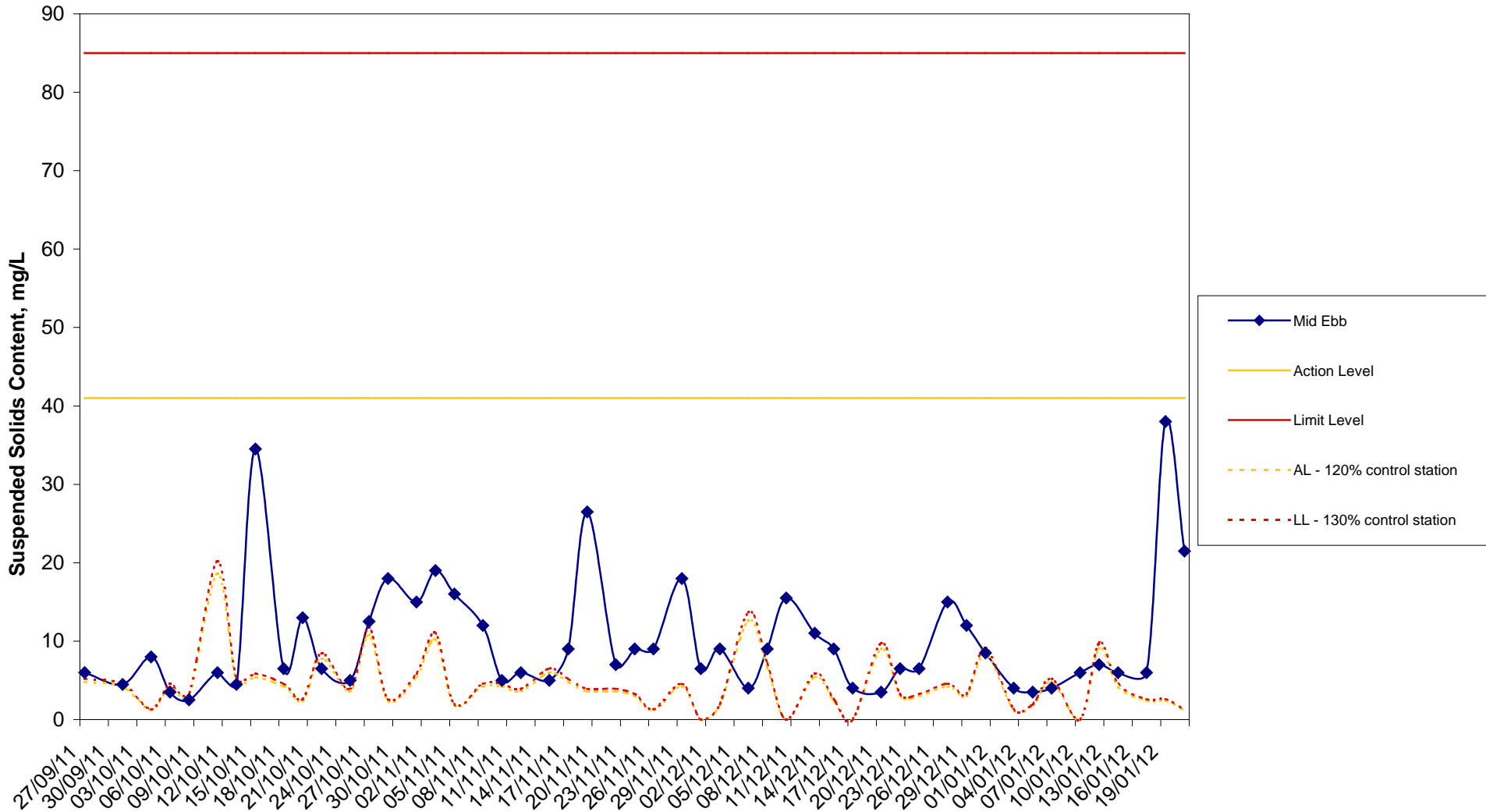
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W3 - Suspended Solids Content (Mid-Ebb)



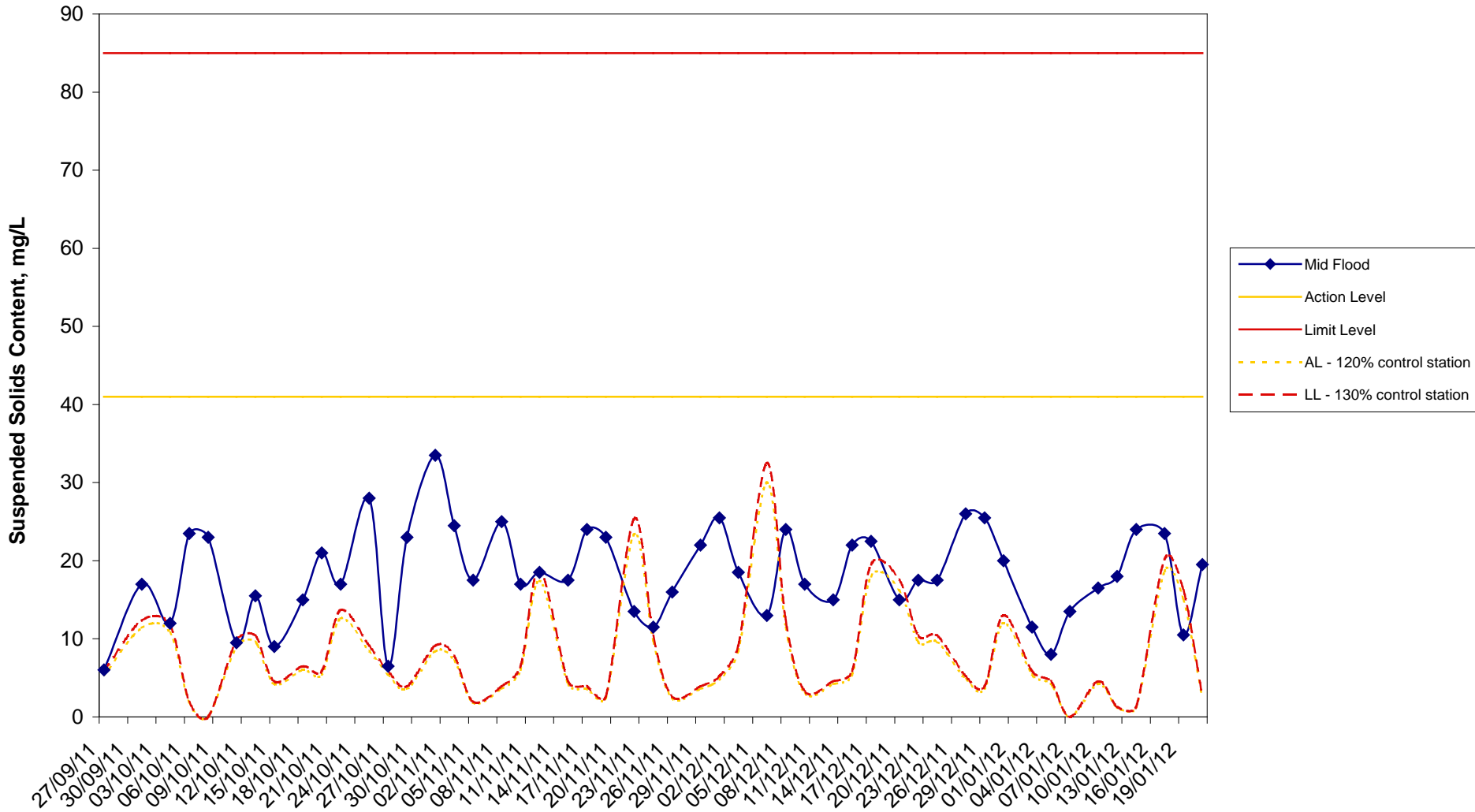
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W3 - Suspended Solids Content (Mid-Flood)



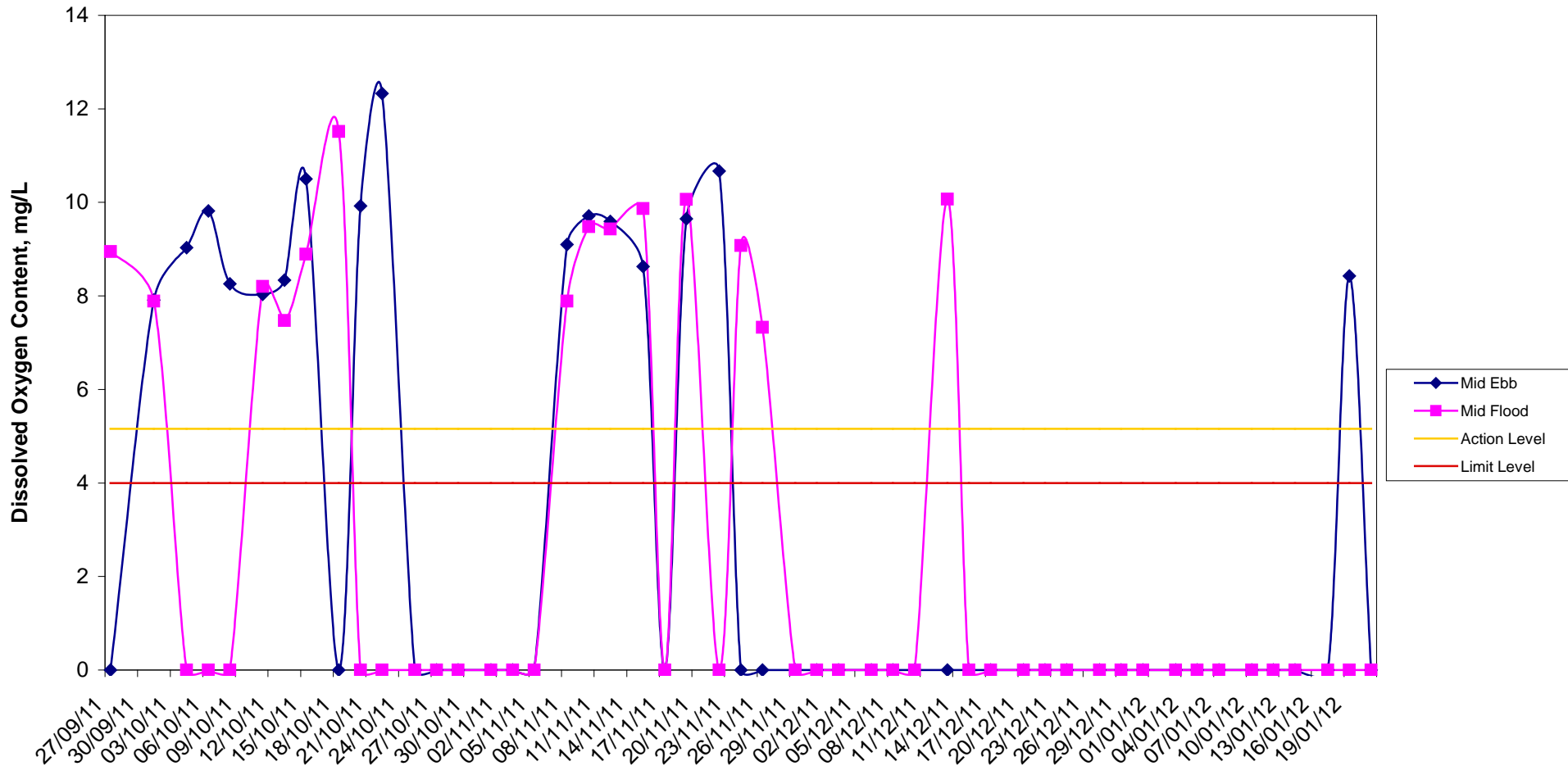
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C1 - Dissolved Oxygen Content



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

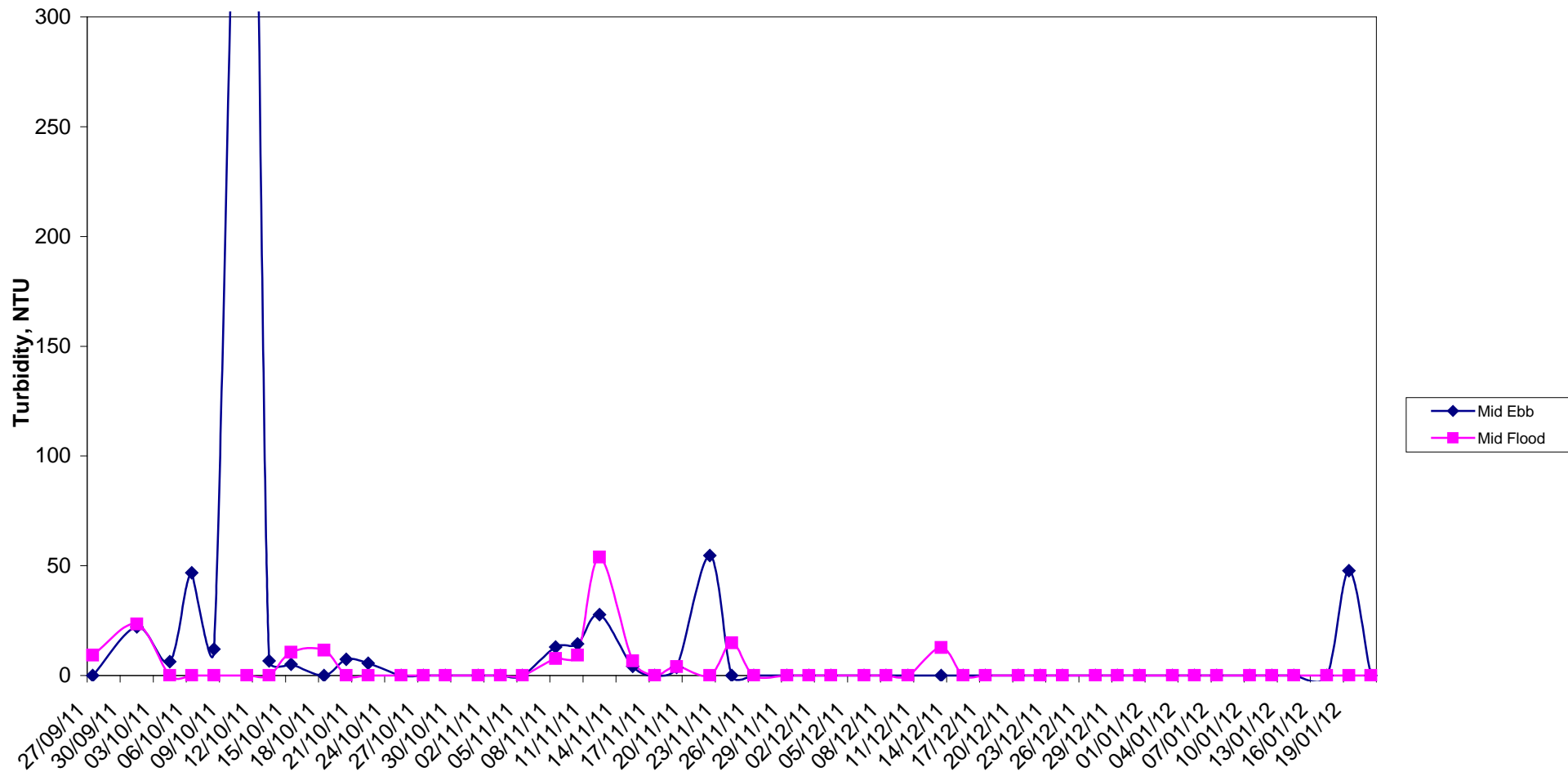
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C1 - Turbidity



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

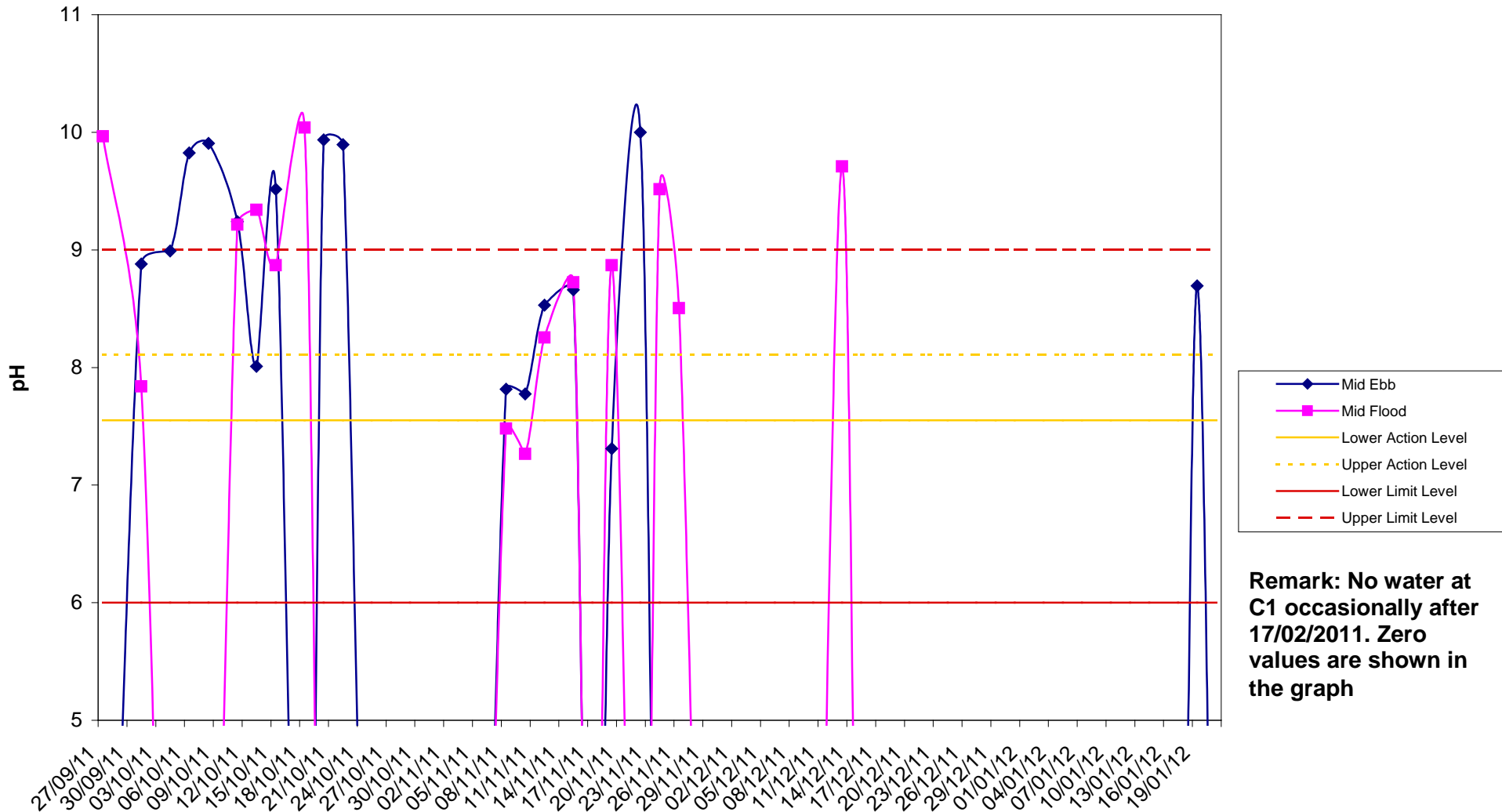
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C1 - pH



Remark: No water at C1 occasionally after 17/02/2011. Zero values are shown in the graph

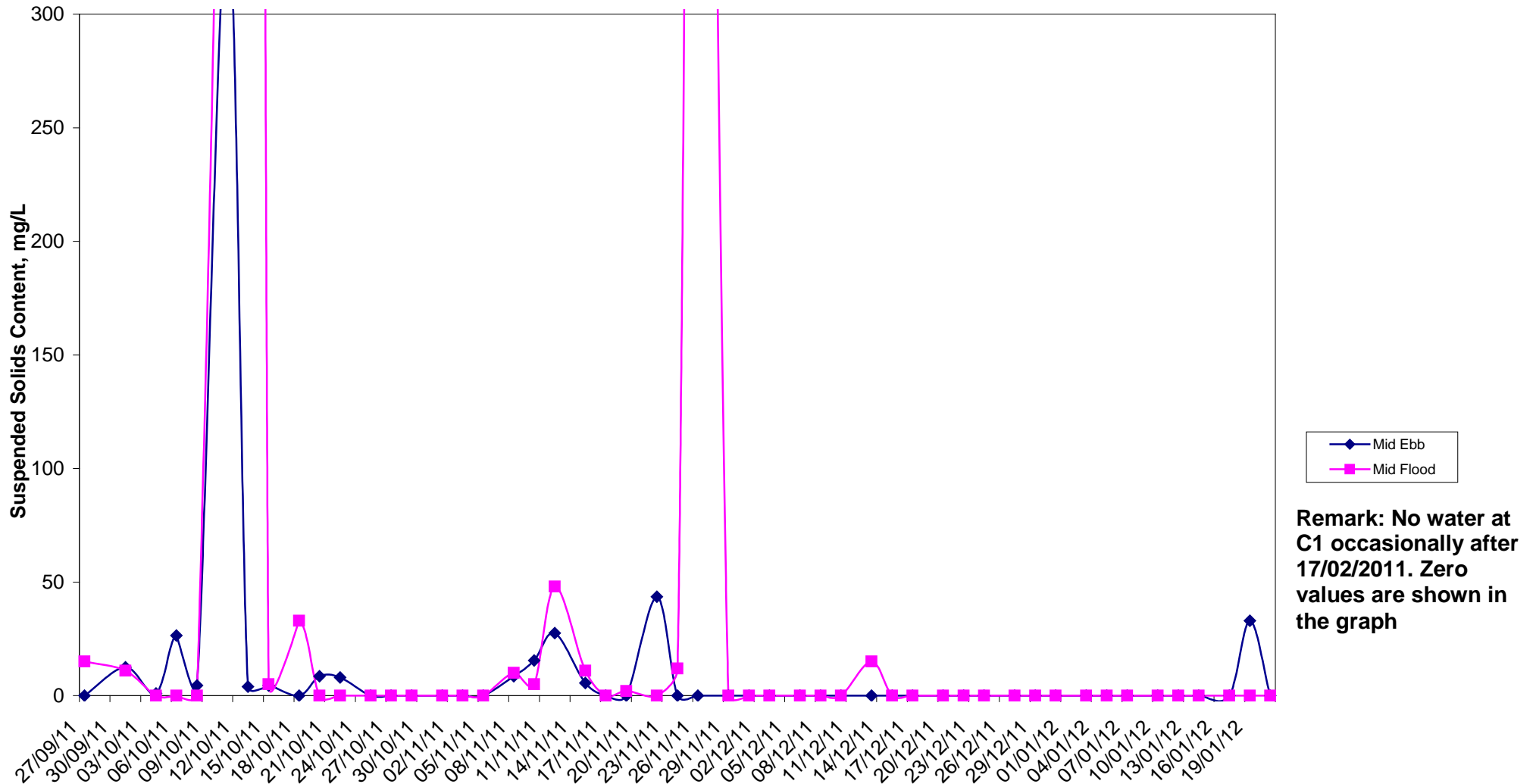
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C1 - Suspended Solids Content



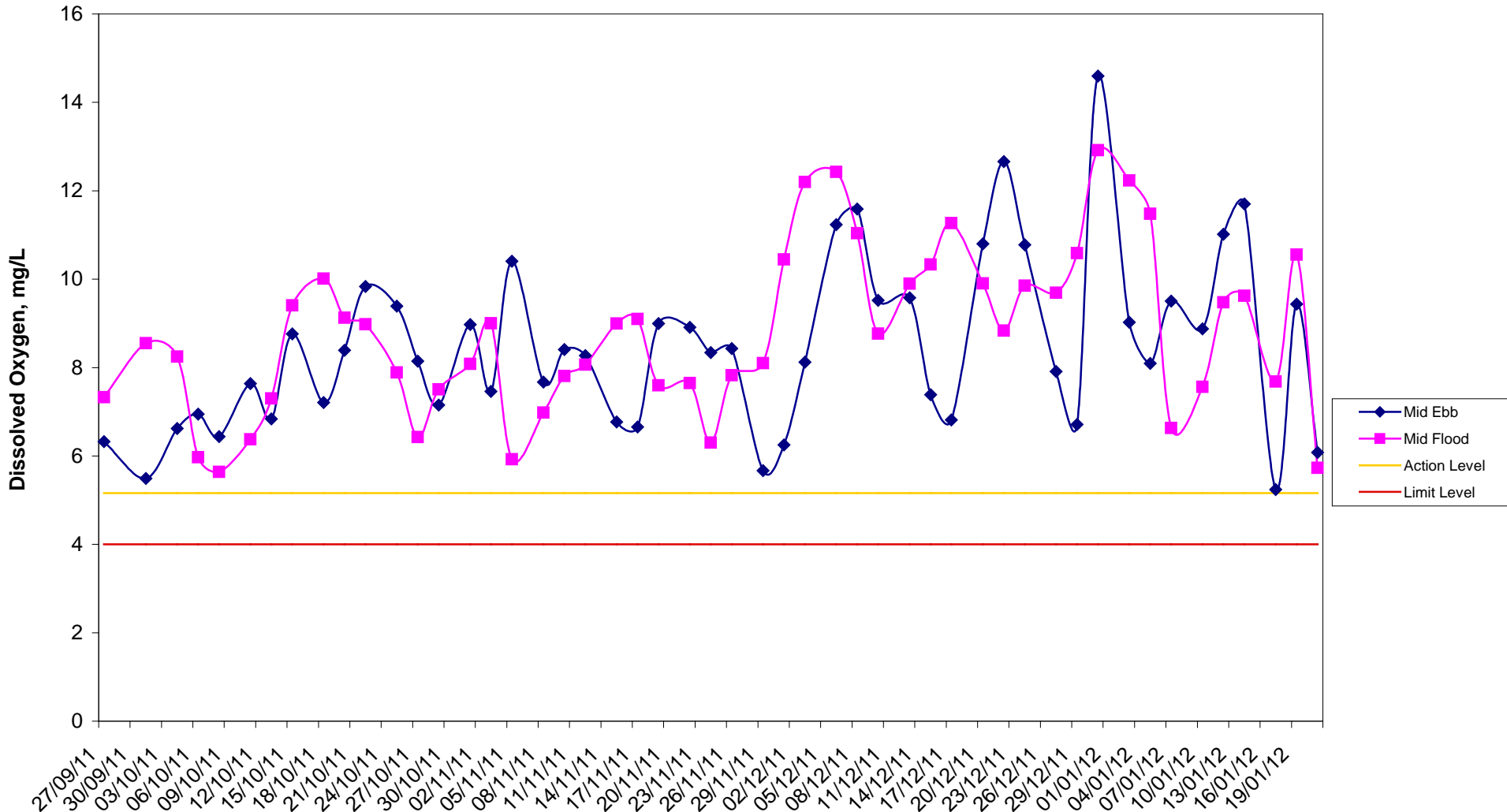
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C2 - Dissolved Oxygen Content



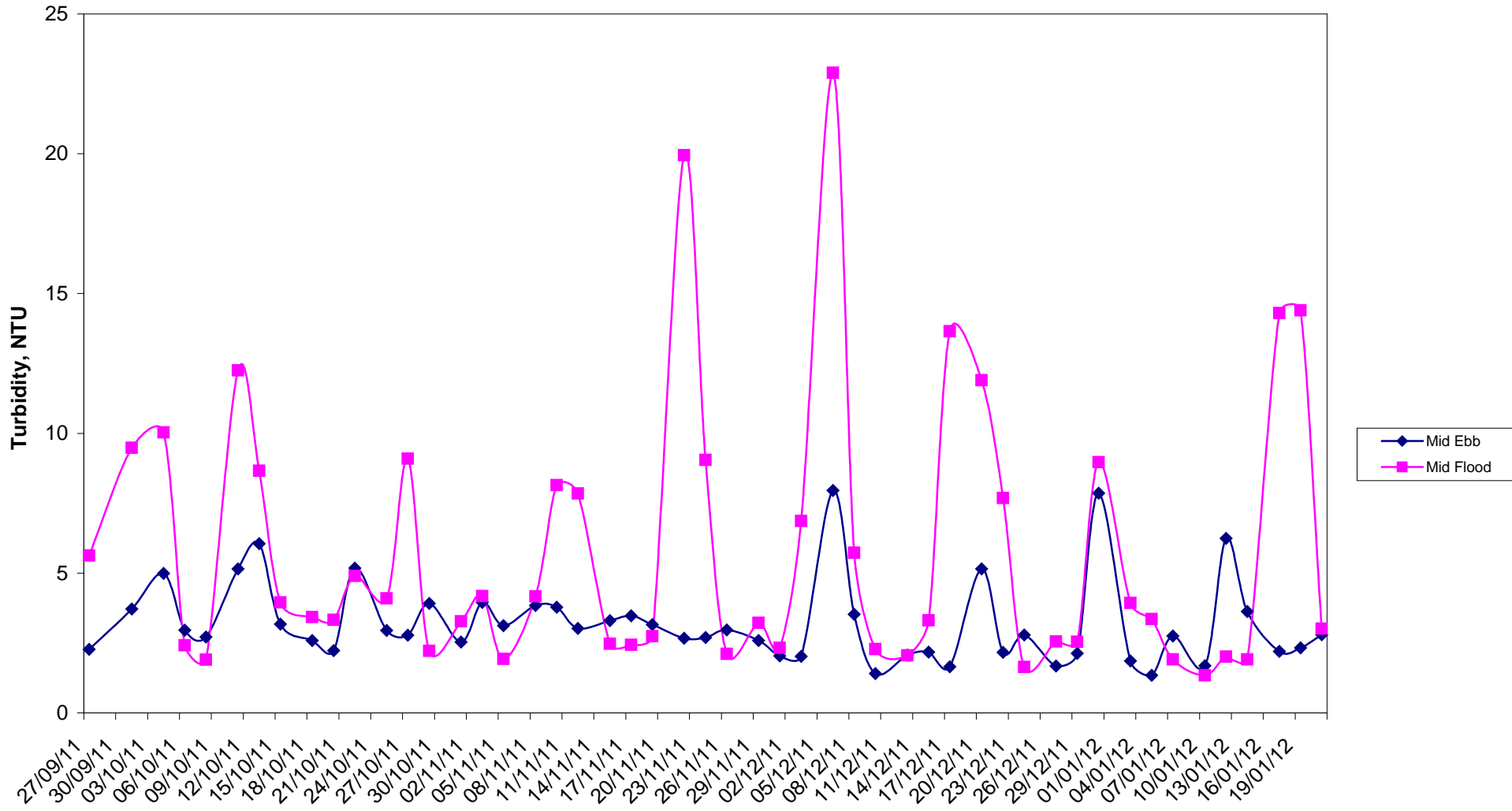
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C2 - Turbidity



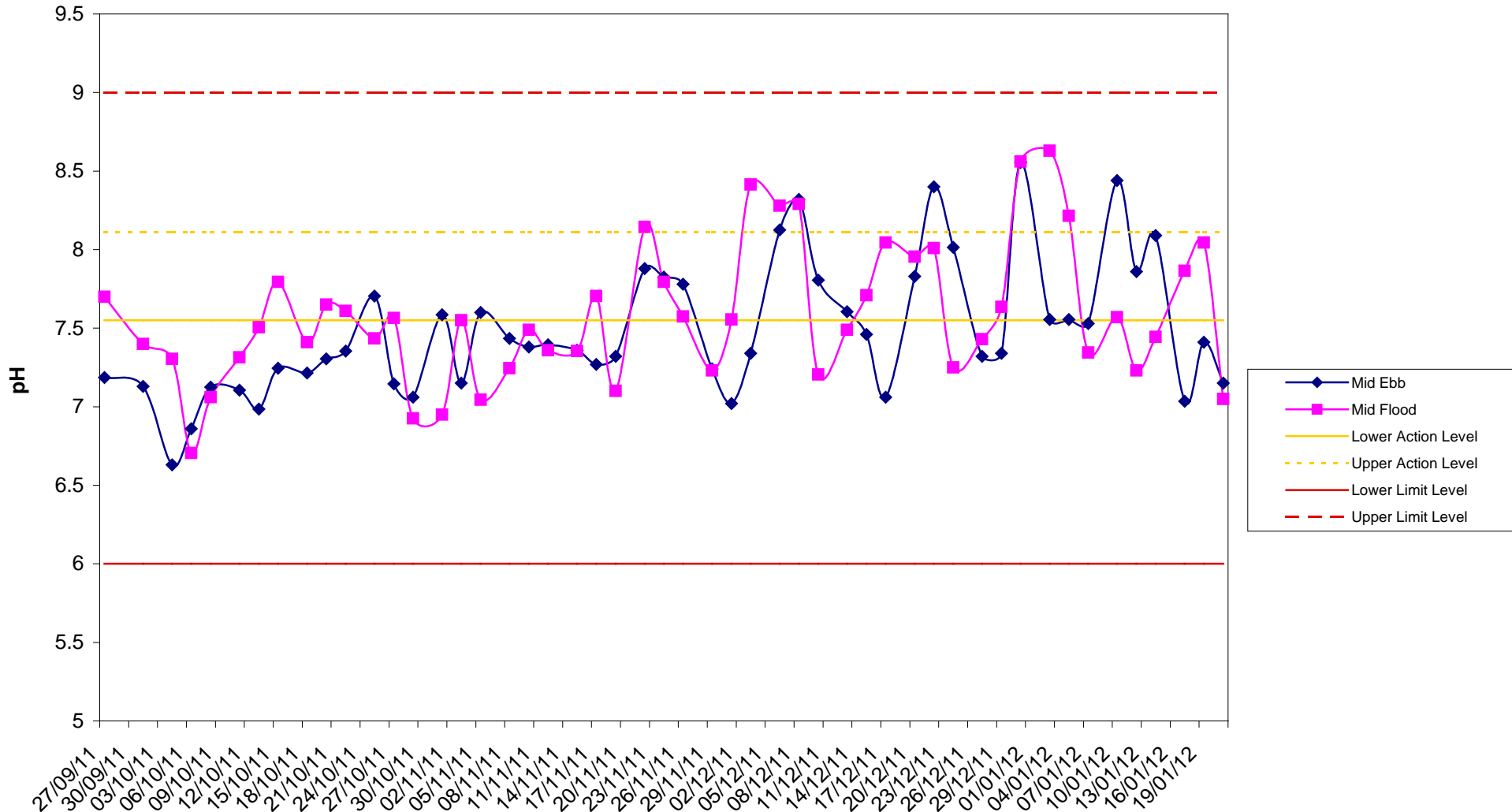
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C2 - pH



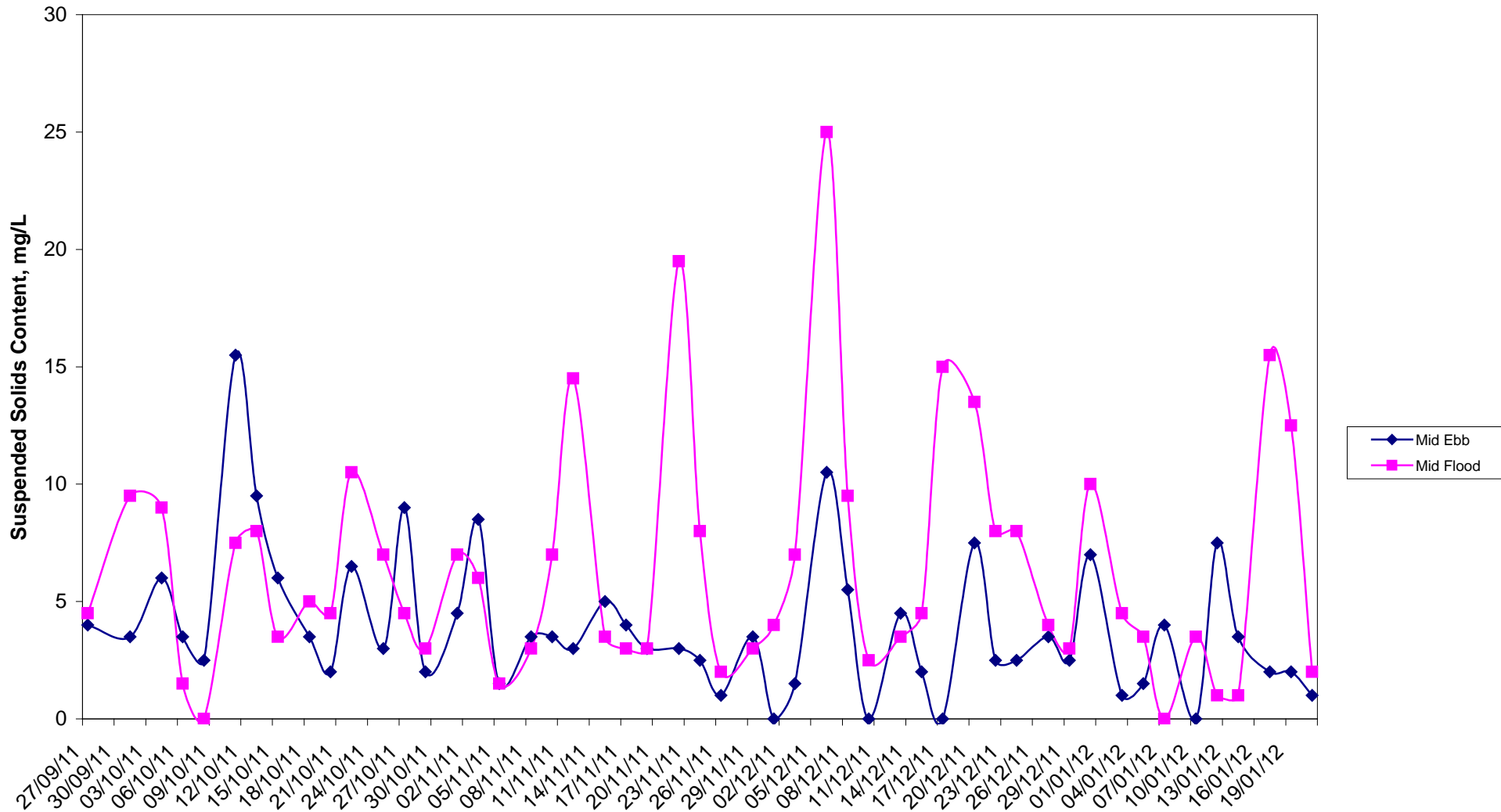
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C2 - Suspended Solids Content



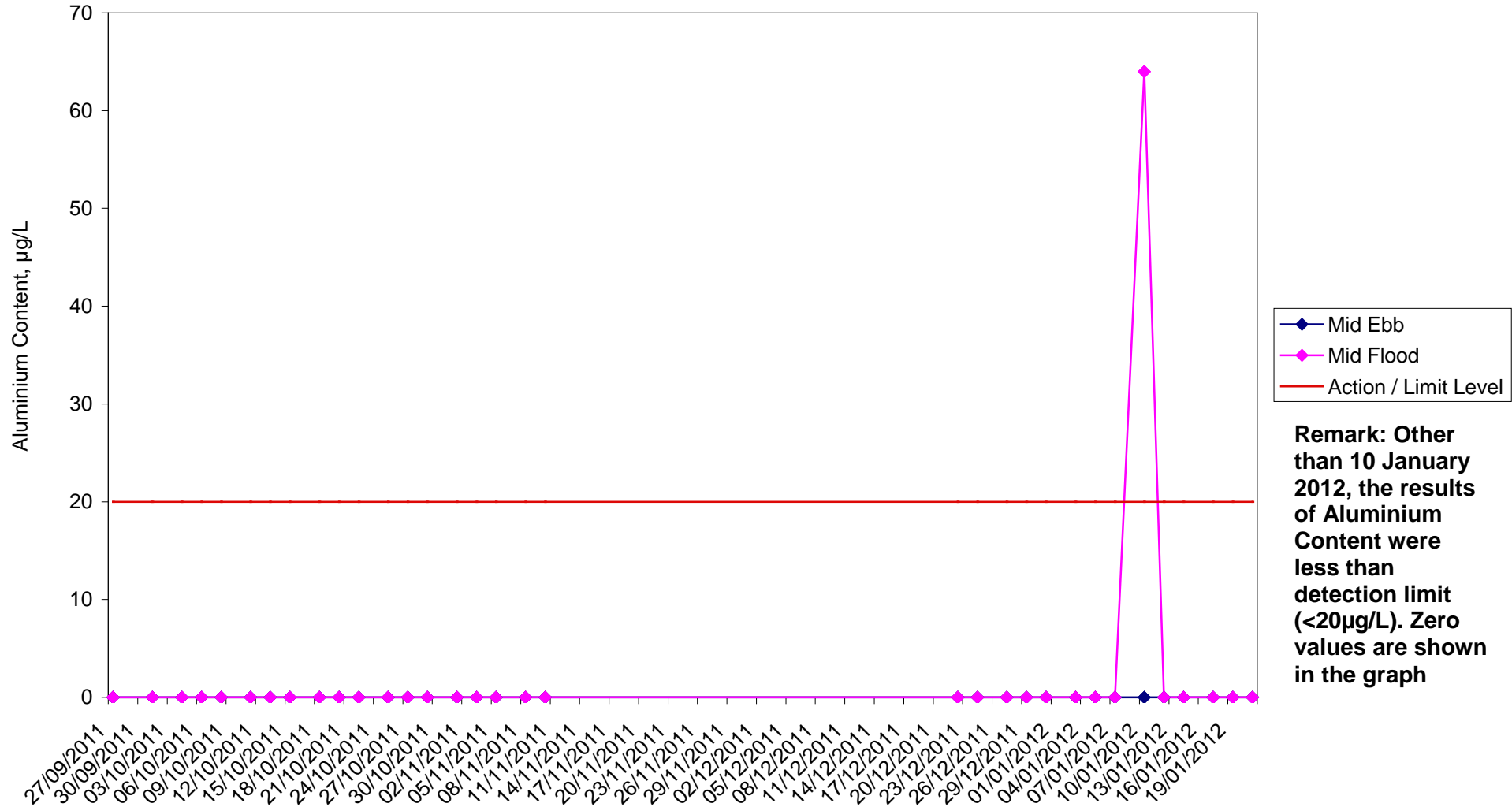
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MaterialLab

M1 - Aluminium Content



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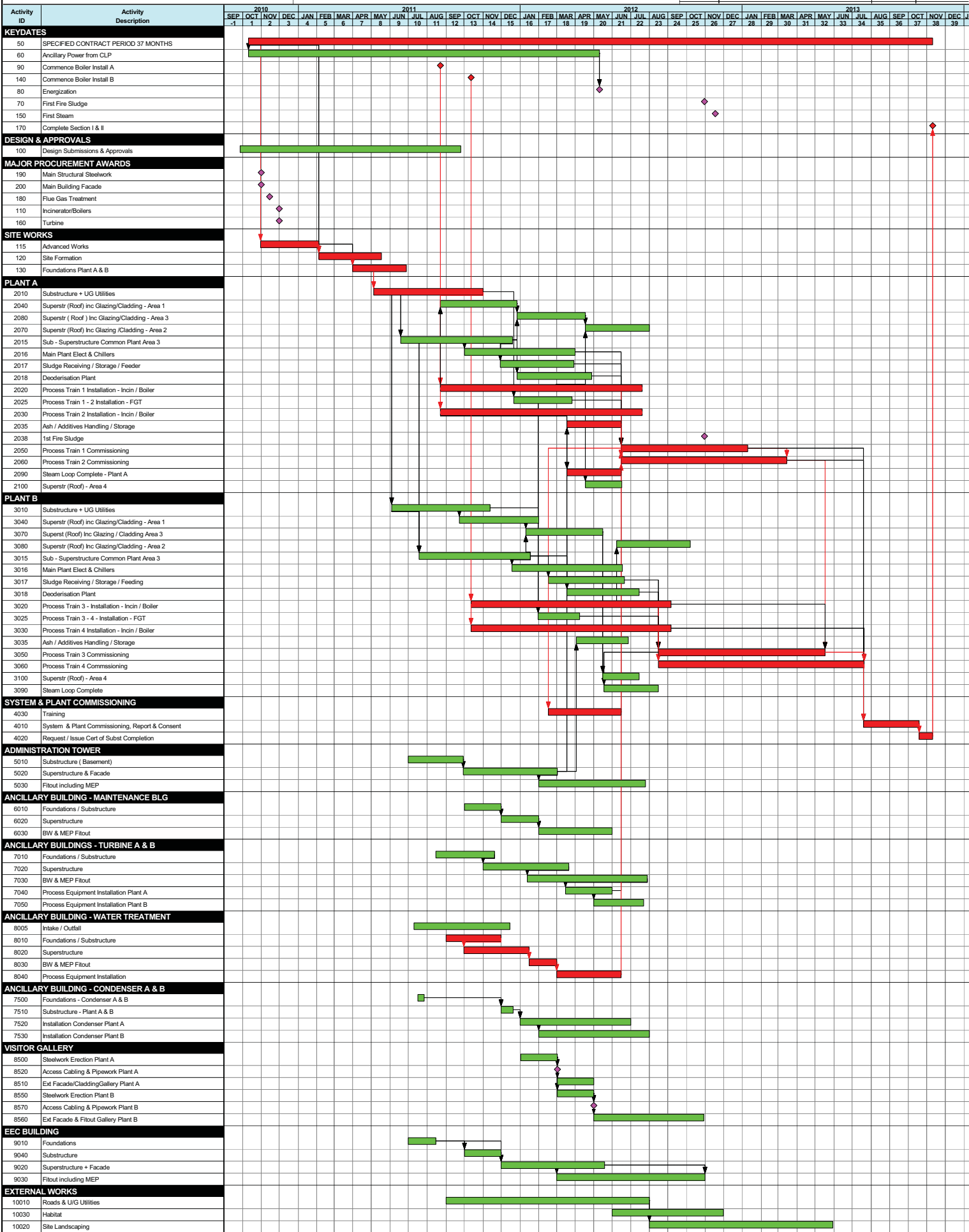
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Appendix 5 Construction Program

HONG KONG SLUDGE TREATMENT FACILITY Project Overview

| | | | |
|-----------------|---------------------------------|----------------|-----------------|
| Date 02DEC10 | Revision VLJH-WT-ZZ-0002-D01 | Checked RGU | Approved NFR |
|-----------------|---------------------------------|----------------|-----------------|



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Appendix 6

Management Structure and Organization Chart

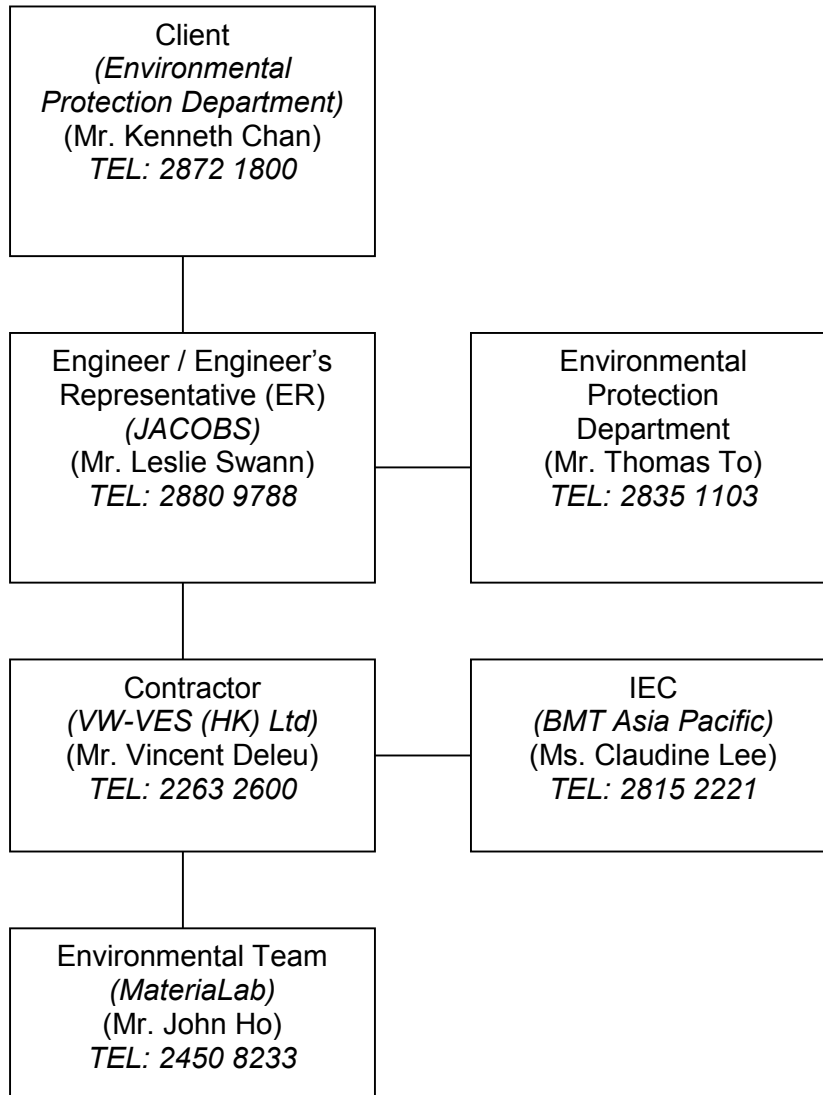
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Management Structure and Organization Chart



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Appendix 7

Event / Action Plan for Water Quality

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Event/Action Plan for Water Quality

| Event | ET Leader | IEC | SOR | Contractor |
|---|--|---|---|---|
| Action level being exceeded by one sampling day | <ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. | <ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SOR; Implement the agreed mitigation measures. |
| Action level being exceeded by more than one consecutive sampling day | <ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to | <ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Discuss with IEC on the Proposed mitigation measures; Make agreement on the mitigation measures to be implemented; ◆ Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SOR within three working days; Implement the agreed mitigation measures. |

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| | | | | |
|--|---|---|--|--|
| | <p>increase the monitoring frequency to daily;</p> <ul style="list-style-type: none"> Repeat measurement on next day of exceedance. | | | |
| Limit level being exceeded by one sampling day | <ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. | <ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SOR and propose mitigation measures to IEC and SOR within three working days; Implement the agreed mitigation measures. |
| Limit level being exceeded by more than one consecutive sampling day | <ul style="list-style-type: none"> Repeat <i>in situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; | <ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SOR accordingly; Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness | <ul style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SOR and |

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| | | | | |
|--|---|--|---|---|
| | <ul style="list-style-type: none"> • Discuss mitigation measures with IEC, SOR and Contractor; • Ensure mitigation measures are implemented; • Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. | | <p>of the implemented mitigation measures;</p> <ul style="list-style-type: none"> • Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. | <p>propose mitigation measures to IEC and SOR within three working days;</p> <ul style="list-style-type: none"> • Implement the agreed mitigation measures; • As directed by the SOR, to slow down or to stop all or part of the construction activities. |
|--|---|--|---|---|

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Appendix 8

Implementation Schedule of Mitigation Measures

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Table 1. Implementation Schedule and Status of Proposed Air Quality Mitigation Measures

| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|---|--|----------------------|------------------------|---|---|-----|--|
| | | | | Des | C | O | Dec | |
| S3.8.1 | <p>Implementation of the Air Pollution Control (Construction Dust) Regulation and good site practices:</p> <ul style="list-style-type: none"> • Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. • Use of frequent watering for particularly dusty construction areas and areas close to ASRs. • Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. • Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. • Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. | Work site / During the construction period | Contractor | | √ | | | Air Pollution Control (Construction Dust) Regulation |

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| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|--|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| | <ul style="list-style-type: none"> Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. | | | | √ | | | |
| | | | | | √ | | | |
| | | | | | √ | | | |

All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

- Des - Design, C - Construction, O – Operation, and Dec – Decommissioning
- N/A – The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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Table 2. Implementation Schedule of Proposed Human Health Risk Mitigation Measures

| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|--|--|------------------------------|------------------------|-----------------------|---|-----|---|
| | | | | Des | C | O | Dec | |
| | <p><u>Human Health Risk Associated with Radon</u></p> <p><i>Prevention of radon influx from the PFA to the STF buildings</i></p> <ul style="list-style-type: none"> A soil cover can be provided beneath the buildings on top of ash lagoon prior to construction works because it reduces the level of radon influx significantly Slab-on-grade can be an option on foundation design Soil suction can also prevent radon from entering the building by drawing the radon from below the building and venting it through a pipe, or pipes, to the air above the building. <p><i>Provision of Sufficient ventilation of the interior of the STF buildings</i></p> <ul style="list-style-type: none"> Forced and natural ventilation should be introduced properly to enhance air exchange rate in the STF buildings. Basement areas should be pressurized by using a fan to blow air into the basement areas from outdoors is suggested. This would create enough pressure at the lowest level indoors to prevent radon from entering into the STF buildings. <p><i>Regular maintenance for the floor slabs and walls</i></p> <ul style="list-style-type: none"> Cracks and other openings in the foundation should be properly sealed to reduce radon ingress. <p>Sealing the cracks limits the flow of radon into the building thereby making other radon reduction techniques more effective and cost-efficient. It also reduces the loss of conditioned air.</p> | STF buildings / During the design, construction and operation of the STF. | Contractor / STF Operator | | N/A N/A N/A | | | EPD's ProPECC Note PN 1/99 Control of Radon Concentration in New Buildings Appendix 2 |

All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

- Des - Design, C - Construction, O - Operation, and Dec - Decommissioning
- N/A - The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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Table 3. Implementation Schedule of Proposed Waste Management Measures

| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|---|--|----------------------|------------------------|---|---|-----|--|
| | | | | Des | C | O | Dec | |
| S5.5.1 | <p><i>Good Site Practices</i></p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. | Work site / During the construction period | Contractor | | √ | | | Waste Disposal Ordinance (Cap.354) ETWB TCW No. 19/2005 |
| S5.5.1 | <p><i>Waste Reduction Measures</i></p> <ul style="list-style-type: none"> Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: | Work site / During planning & design stage, and construction stage | Contractor | | √ | | | |

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| | | | | Des | C | O | Dec | |
| | <ul style="list-style-type: none"> The design of the foundation works should minimize the amount of excavated material to be generated. Excavated soil should be reused on site as far as possible, e.g. for landscape works, in order to minimize the amount of public fill to be disposed off-site. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Encourage collection of aluminium cans by individual collectors by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force Proper storage and site practices to minimize the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. | | | | √ | | | |
| S5.5.1 | <p><i>General Refuse</i></p> <p>General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p> | Work site / During the construction period | Contractor | | √ | | | Public Health and Municipal Services Ordinance (Cap. 132) |

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| S5.5.1 | <p><i>Construction and Demolition Material</i></p> <p>In order to minimize the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:</p> <ul style="list-style-type: none"> • A Waste Management Plan, which becomes part of the Environmental Management Plan, should be prepared in accordance with ETWB TCW No.19/2005. • A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed. • In order to monitor the disposal of C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included. One may make reference to ETWB TCW No. 31/2004 for details. | Work site / During design stage & construction period | Contractor | √ | √ | | | ETWB TCW No. 33/2002 ETWB TCW No. 19/2005 ETWB TCW No. 31/2004 |
| S5.5.1 | <p><i>Chemical Waste</i></p> <p>If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible</p> | Work site / During the construction period | Contractor | | √ | | | Waste Disposal (Chemical Waste)(General) Regulation) |

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| | | | | Des | C | O | Dec | |
| | chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | | | | | | | |

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Table 4. Implementation Schedule of Proposed Land Contamination Preventive Measures

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| | | | | Des | C | O | Dec | |
| S5.6.3 | <i>Fuel Oil Tank Construction and Test</i> <ul style="list-style-type: none"> The fuel tank to be installed should be of specified durability Double skin tanks are preferable Underground fuel storage tank to be installed should be placed within a concrete pit The concrete pit shall be accessible to allow regular tank integrity tests to be carried out at regular intervals The tank integrity tests should be conducted by an independent qualified surveyor or structural engineer Any potential problems identified in the test should be rectified as soon as possible | Fuel Oil Storage Tank / | Contractor/ STF Operator | √ | √ √ N/A √ √ √ | | | |
| S5.6.3 | <i>Fuel Oil Pipeline Construction and Test</i> <ul style="list-style-type: none"> Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines Double skin pipelines are preferable Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized The integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals Any potential problems identified in the test should be rectified as soon as possible | Fuel Oil Pipelines/ Design, Construction and Operation Phase | Contractor/ STF Operator | √ | √ √ √ √ | | | |
| S5.6.3 | <i>Fuel Oil Leakage Detection</i> <ul style="list-style-type: none"> Installation of leak detection device at storage tank and pipelines | Fuel Oil Storage Tank | Contractor/ STF Operator | N/A | N/A | | | |

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Table 5. Implementation Schedule of Proposed Water Pollution Control Measures

| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| S6.7.2 | <p>Construction Runoff and Drainage</p> <ul style="list-style-type: none"> Site practices outlined in ProPECC PN 1/94 “Construction Site Drainage” shall be followed as far as practicable in order to minimize surface runoff and the chance of erosion: At the start of site establishment, internal drainage works and erosion and sedimentation control facilities shall be implemented. Channels, earth bunds or sand bag barriers shall be provided on site to direct stormwater to silt removal facilities. The detailed design and installation of the temporary on-site drainage system shall be undertaken by the contractor prior to the commencement of construction. Before commencing any site formation work, all sewer and drainage connections shall be sealed to prevent debris, soil, sand etc. from entering public sewers/drains. Boundaries of earthworks shall be surrounded by dykes or embankments for flood protection, as necessary. Sand/silt removal facilities such as sand traps, silt traps and sediment basins shall be provided to remove sand/silt particles from runoff to meet the standards of the Technical | Work site / During the construction period | Contractor | | √ N/A √ √ √ | | | ProPECC PN 1/94; WPCO |

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| | | | | Des | C | O | Dec | |
| | <p>Memorandum under the Water Pollution Control Ordinance. The design of silt removal facilities shall be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures shall be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms.</p> <ul style="list-style-type: none"> • Water pumped out from foundation piles shall be discharged into silt removal facilities. • During rainstorms, exposed slope/soil surfaces shall be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94. • Exposed soil areas shall be minimized to reduce potential for increased siltation and contamination of runoff. • Earthwork final surfaces shall be well compacted and subsequent permanent work or surface protection shall be immediately performed. Open stockpiles of construction materials or construction wastes on-site of more than 50m³ shall be covered with tarpaulin or similar fabric during rainstorms. • All vehicles shall be cleaned before leaving the works area to ensure no earth, mud and debris is deposited on roads. An adequately designed and | | | | N/A √ √ √ √ | | | |

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|-----------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| | sited wheel washing bay shall be provided at every site exit. The wheel washing facility shall be designed to minimize the intake of surface water (rainwater). Wash-water shall have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. | | | | | | | |
| S6.7.2 | <p><i>General Construction Activities</i></p> <ul style="list-style-type: none"> Debris and refuse generated on-site shall be collected, handled and disposed of properly to avoid entering the nearby water bodies and public drainage system. Stockpiles of cement and other construction materials shall be kept covered when not being used. Oils and fuels shall only be used and stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to nearby water bodies and public drains, all fuel tanks and storage areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund shall be drained of rainwater after a rain event. | Work site / During the construction period | Contractor | | √ | | | ProPECC PN 1/94; |
| S6.7.2 | <p><i>Sewage Effluents</i></p> <ul style="list-style-type: none"> Temporary sanitary facilities, such as portable chemical toilets, shall be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible for appropriate disposal and maintenance of these facilities. | Work site / During the construction period | Contractor | | √ | | | ProPECC PN 1/94; WPCO |

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| | | | | Des | C | O | Dec | |
| S6.7.2 | <p><i>Release of PFA Leachate from Ash Lagoon into the Aquatic Environment</i></p> <ul style="list-style-type: none"> Environmental monitoring and audit (EM&A) should be included to ensure that the foundation construction would not cause an unacceptable release of PFA leachate into the Deep Bay waters. The parameters to be measured should include the heavy metals such as cadmium, chromium and aluminium, which have the greatest tendency to leach from the lagooned PFA into the seawater. Details of the measurement requirements are presented in the EM&A manual | <p>Deep Bay</p> <p>Water outside the Ash Lagoon / During the construction period</p> | Contractor | | √ | | | WPCO |

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Table 6. Implementation Schedule of Proposed Ecological Mitigation Measures

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| | | | | Des | C | O | Dec | |
| S7.8.2 | Measures to Minimize Disturbance Impact to Wildlife <ul style="list-style-type: none"> Hoarding of 3m high shall be set up along the boundary of the works areas and associated site access to shield the fauna and breeding population of Little Grebe in the Middle Lagoon from the disturbance impact of machinery. The works boundaries shall not go beyond the proposed Project Area. All work crews, equipment and human activities shall be confined within the designated works area only. No personnel should encroach or wilfully disturb any wild animals and their habitats. Traffic and human access from the western side of the Project Area should be avoided. Fencing with climbers or plantation shall be provided, where appropriate, along the STF site boundary and the two sides of access road to screen the surrounding habitats from the STF works areas. | Boundary of works areas/ Construction Phase Boundary of works areas/ Construction Phase Boundary of works areas/ Operation Phase | Contractor Contractor Contractor | | √ √ √ | | | |

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| | | | | Des | C | O | Dec | |
| S7.8.2 | <p>Measures to Minimize Impact to natural habitats</p> <ul style="list-style-type: none"> Where practicable, all proposed works shall be conducted in existing built up area to minimize impact to natural habitats. The abutment (permanent structure) for the vehicular bridge shall avoid streambed. The number and size of the temporary supporting structures to be installed over the streambed during construction shall be minimized as far as practicable. The temporarily affected natural habitats, including streambed, shall be reinstated after the completion of works. For affected natural stream section, placement of substrates of similar size and composition to those of original streambed shall be considered to encourage colonization. | <p>Works areas/ Design and Construction Phase</p> <p>Vehicular bridge/ Design and Construction Phase</p> <p>Works Area/ Operation Phase</p> <p>Works Area/ Operation Phase</p> | <p>STF Designer/ Contractor</p> <p>STF Designer/ Contractor</p> <p>Contractor</p> <p>Contractor</p> | √ | √ | | | <p>ETWB TC (Works)</p> <p>No. 5/2005 Protection of natural streams/ rivers from adverse impacts arising from construction works</p> |
| S7.8.2 | <p><i>Minimise sedimentation/water quality impacts to waterbodies</i></p> <ul style="list-style-type: none"> Measures to control potential sedimentation/ water quality impacts during the construction phase shall be implemented. To minimize the potential water quality impacts from the construction works located at any river channels, natural streams or seafront, the practices outlined in | <p>Whole Site/ Construction Phase</p> | <p>Contractor</p> | | √ | | | <p>ETWB TC (Works)</p> <p>No. 5/2005 Protection of natural streams/ rivers from adverse impacts arising from construction works</p> |

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| | | | | Des | C | O | Dec | |
| | ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" shall be adopted where applicable. | | | | | | | |
| S7.8.2 | <p><i>Minimize noise disturbance</i></p> <ul style="list-style-type: none"> Noise mitigation measures including the use of quieter piling machinery and construction plants shall be implemented to lower the noise level due to construction works. Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction programme. Machines and plant which may be in intermittent use shall be shut down to a minimum. Plant known to emit noise strongly in one direction, shall be oriented so that the noise is directed away from the Middle Lagoon, where possible. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction period. Mobile plant (such as generator) shall be sited as far away from the Middle Lagoon as possible. Material stockpiles and other structures shall be effectively utilized, where practicable, to screen noise from on-site construction activities. | Whole Site/ Construction Phase | Contractor | | √ √ √ √ N/A √ √ | | | ETWB TC (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works |

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| | | | | Des | C | O | Dec | |
| S7.8.3 | <p><i>Measures to Mitigate the Loss of Vegetation</i></p> <ul style="list-style-type: none"> All vegetation located within the work areas shall be preserved as far as practicable. To compensate for the loss of the vegetation and habitats, tree planting shall be provided in the site area where possible. Species chosen for planting shall be similar to the species identified in the survey and be native to Hong Kong or the Southern China. | Whole Site / Design, Construction and Operation Phase | Contractor / STF Operator | √ | √ | | | |
| S7.8.4 | <p>Enhancement Measures to Create Additional Habitat for Little Grebe</p> <ul style="list-style-type: none"> An additional habitat for Little Grebe shall be created in a less disturbed area located at the northeastern part of the proposed STF. The created habitat shall be provided in form of shallow pond(s) incorporating suitable habitat characteristics for Little Grebe. The water level of the created pond shall be kept between 1.5 m to 2 m. Emergent vegetation shall be planted and fish population shall be controlled to allow development of aquatic invertebrate populations as prey of Little Grebe. To screen the created habitat from disturbance due to nearby landfill traffic, planting of native plants shall be provided on the boundary of the pond(s) as appropriate. Prior to construction of the pond(s), detailed Habitat Creation and Management Plan (HCMP) of the created habitat prepared by experienced ecologist(s) with over seven year experience in relevant field shall be circulated to relevant departments including AFCD for comment. | Within Project Area/ Design Phase, Construction and Operation Phase | Contractor / STF Operator | √ | N/A | | | |

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Table 7. Implementation Schedule for Landscape and Visual Impact

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| | | | | Des | C | O | Dec | |
| Table 9.4 CM-01 | <u>Contaminant/ Sediment Control</u> – Suitable temporary barriers, covers and drainage provisions shall be provided around construction works to avoid discharge of contaminants (such as bleeding from in-situ concrete works) and sediments into sensitive water-based habitats, especially the tidal streams and the mangrove. | Work site / During the construction period | Contractor | | √ | | | |
| Table 9.4 CM-02 | <u>Early Planting of Tall Trees</u> – Tall trees proposed under mitigation measure OM-02 shall be planted early, providing visual effect also during construction. | Work site / During the construction period | Contractor | | N/A | | | |
| Table 9.4 CM-03 | <u>Good Site Practice</u> – Construction activities should be restricted to works areas and should be clearly demarcated onsite. Piling of construction materials onsite shall be carefully considered for possible impacts before carrying out. | Work site / During the construction period | Contractor | | √ | | | |
| Table 9.4 CM-04 | <u>Existing Trees within Works Areas</u> – All existing trees within work sites shall be properly maintained and protected for their crowns, trunks and roots. | Work site / During the construction period | Contractor | √ | √ | | | |
| Table 9.4 OM-01 | <u>Sensitive Bridge Design</u> – The bridge of the proposed access road shall be sensitively designed to minimize impact to the tidal stream and mangrove. It shall be constructed with minimal use of in-situ concreting and with maximum use of precast or prefabricated elements. No pile or support shall be erected within the stream channel. | Bridge of access road / During the design & construction phases | Contractor | √ | N/A | | | |

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| | | | | Des | C | O | Dec | |
| Table 9.4 OM-02 | <u>Tall trees for Chimney</u> – Fast-growing tall trees shall be planted along the east side of the ash-lagoon to counterbalance possible exotic silhouettes, such as from the chimney, of the proposed sludge treatment facilities for sensitive viewers in Pak Nai. The trees shall be planted during the early stage of the construction to ensure effectiveness during operation. They will also help to lessen the visual impact during construction, as already suggested in mitigation measure CM-02. | East side of ash lagoon / During the design & construction phases | Contractor | √ | N/A | | | |
| Table 9.4 OM-03 | <u>Suitable Reinstatement at Ash-lagoon</u> – Affected perimeter of the proposed works area within the ash-lagoon shall be reinstated with suitable planting materials. Traditional reinstatement planting approach for construction projects may not work well for this project. Certain existing grasses and small shrubs have self-seeded the ash- lagoon, demonstrating their tolerance to salts, alkalinity and possible trace metals in the ash. Therefore the same or similar species of vegetation shall be used. | Perimeter of works area / During the design & construction phases | Contractor | √ | N/A | | | |
| Table 9.4 OM-04 | <u>Existing Tree Transplanting</u> – The proposed access roadworks may affect few existing trees, which shall be transplanted as far as practical. A comprehensive tree survey is recommended to locate these trees. | Access road / During the design & operation phases | Contractor | √ | N/A | | | |
| Table 9.4 OM-05 | <u>Planting at Road Intersection</u> – Suitable planting of woodland trees and shrubs shall be provided for the proposed access roadworks at the junction with Nim Wan Road. | Junction of access road with Nim Wan Road / During the design & operation phases | Contractor | √ | N/A | | | |

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Table 8. Implementation Schedule of Proposed Landfill Gas Hazard Protection Measures

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| | | | | Des | C | O | Dec | |
| S10.7.2 | Appointment of Safety Officer Appoint a properly trained safety officer and provide with appropriate equipment to measure and monitor LFG hazard. | Work Site / During the construction phase | Contractor | | √ | | | |
| S10.7.2 | Safety Measures - Excavation Staff should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. Excavation procedures and code of practice should be implemented. | Work Site / During the construction phase | Contractor | | √ | | | |
| S10.7.2 | <i>Safety Measures – Welding, Flame-Cutting and Hot works</i> Hot works should be confined to open areas away from any trench or excavation. Should hot works must be carried out in trenches or confined space, “permit to work” procedures should be followed. | Work Site / During the construction phase | Contractor | | √ | | | |
| S10.7.2 | Safety Measures – Enclosed Spaces Site offices or buildings located within WENT Landfill Consultation Zone which have the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas; or be raised clear of the ground by a minimum of 500mm. | Enclosed Spaces within WENT Consultant Zone / During the construction phase | Contractor | | N/A | | | |
| S10.7.2 | Safety Measures – Electrical Equipment Any electrical equipment, such as motors and extension cords, should be intrinsically safe. | Work Site / During the construction phase | Contractor | | N/A | | | |

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| EIA Ref # | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines |
|-----------|---|--|----------------------|------------------------|-----|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| S10.7.2 | Safety Measures – Piping During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. All piping/conduiting should be capped at the end of each working day. | Work Site / During the construction phase | Contractor | | N/A | | | |
| S10.7.2 | Safety Measures – Fire Safety Adequate fire safety equipments should be provided on site. Workers and visitors should be notified of the potential fire hazards. Safety notices should be posted around the site warning the anger and potential hazards. | Work Site / During the construction phase | Contractor | | √ | | | |
| S10.7.2 | Safety Measures – Confined Spaces Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces, and that appropriate monitoring procedures are in place to prevent hazards in confined spaces. | Confined Spaces at Work Site / During the construction phase | Contractor | | N/A | | | |
| S10.7.2 | Monitoring Periodically during ground-works within the Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored shall be set down prior to commencement of ground-works. Depending on the results of the measurements, actions required will vary. As a minimum these should encompass those actions specified in Table 10.6 of the EIA Report. | Work Site / During the construction phase | Contractor | | N/A | | | |

All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

- Des - Design, C - Construction, O - Operation and Dec – Decommissioning
- N/A – The associated activities are not in progress during the monitoring month, √ - The proposed mitigation measures is implemented

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The logo for MateriaLab, featuring the word "MateriaLab" in a bold, black, sans-serif font. The text is centered between two thick, horizontal black bars, one above and one below the text.

Appendix 9

Incident Report on Action Level or Limit Level Non-compliance

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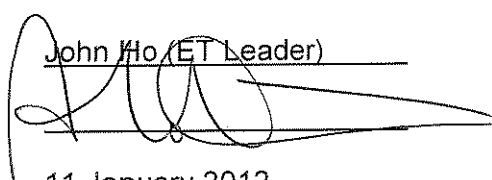


Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

| | |
|--|--|
| Project | Sludge Treatment Facilities |
| Date | 10 January 2012 |
| Time | 13:45 to 14:40 (Mid-Ebb) |
| Monitoring Location | W2 and W3 |
| Parameter | pH |
| Action & Limit Levels | Action Level : ≤ 7.55 or ≥ 8.11 Limit Level : ≤ 6 or ≥ 9 |
| Measured Level | W2: 8.11 (exceed Action Level) W3: 8.38 (exceed Action Level) C1 : (No Water) C2 : 8.44 |
| Possible reason for Action or Limit Level Non-compliance | The exceedance of W2 and W3 was subject to the influent of the high pH from C2. |
| Actions taken / to be taken | Exceedance was not related to site activities. Ad-hoc monitoring is cancelled. |
| Remarks | |

Prepared by : John Ho (ET Leader)

Signature : 

Date : 11 January 2012

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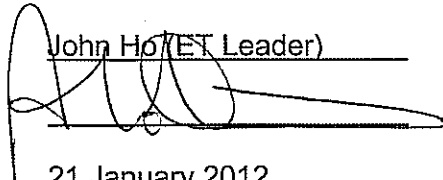
MaterialLab

Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

| | |
|--|---|
| Project | Sludge Treatment Facilities |
| Date | 10 January 2012 |
| Time | 09:40 to 10:12(Mid-flood) |
| Monitoring Location | M1 |
| Parameter | Aluminium |
| Action & Limit Levels | Action Level : $\geq 20 \mu\text{g/L}$ Limit Level : $\geq 20 \mu\text{g/L}$ |
| Measured Level | M1 – surface : $64 \mu\text{g/L}$ (exceed Limit Level) M1 – bottom : $64 \mu\text{g/L}$ (exceed Limit Level) |
| Possible reason for Action or Limit Level Non-compliance | Sheet piling and associated pre-drilling works for the sea water intake has been carried out since 21 December 2011. Exceedance on 10/1/2012 is the first exceedance reported. It is not possible to confirm the cause of the exceedance with limited data. The aluminium content in the afternoon (mid-ebb) returned to $<20 \mu\text{g/L}$. |
| Actions taken / to be taken | Frequency of marine monitoring will be increased to daily starting on 21/1/2012. Since the construction site will be closed during 22/1/2012 to 25/1/2012 inclusive, no monitoring will be carried during that period. |
| Remarks | The water was clear around the sampling location during the monitoring. |

Prepared by : John Ho (ET Leader)

Signature : 

Date : 21 January 2012

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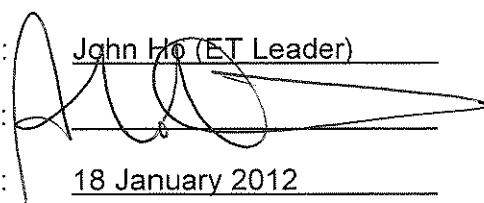
MaterialLab

Our Ref. No. : 100440
Client : VW-VES (HK) Ltd.
Project : Contract No. EP/SP/58/08

Incident Report on Action Level or Limit Level Non-compliance

| | |
|--|--|
| Project | Sludge Treatment Facilities |
| Date | 17 January 2012 |
| Time | 07:03 to 07:45 (Mid-Ebb) |
| Monitoring Location | W1, W2 and W3 |
| Parameter | pH |
| Action & Limit Levels | Action Level : ≤ 7.55 or ≥ 8.11 Limit Level : ≤ 6 or ≥ 9 |
| Measured Level | W1: 7.45 (exceed Action Level) W2: 7.33 (exceed Action Level) W3: 7.25 (exceed Action Level) C1 : (No Water) C2 : 7.04 |
| Possible reason for Action or Limit Level Non-compliance | The exceedance of W1, W2 and W3 was subject to the influent of the low pH from C2. |
| Actions taken / to be taken | Exceedance was not related to site activities. Ad-hoc monitoring is cancelled. |
| Remarks | |

Prepared by : John Ho (ET Leader)

Signature : 

Date : 18 January 2012

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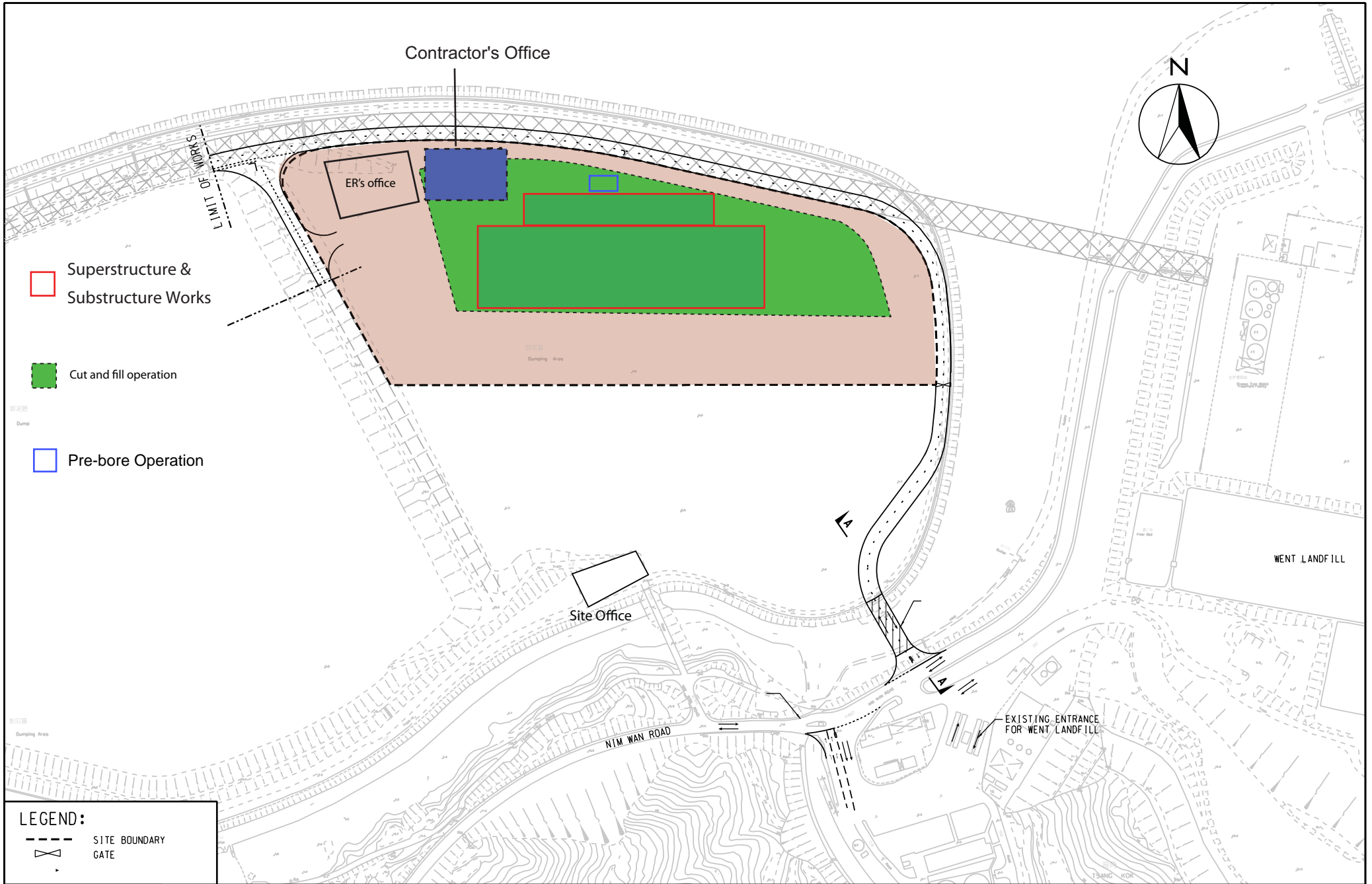
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Figure 1.1

Construction Works Area



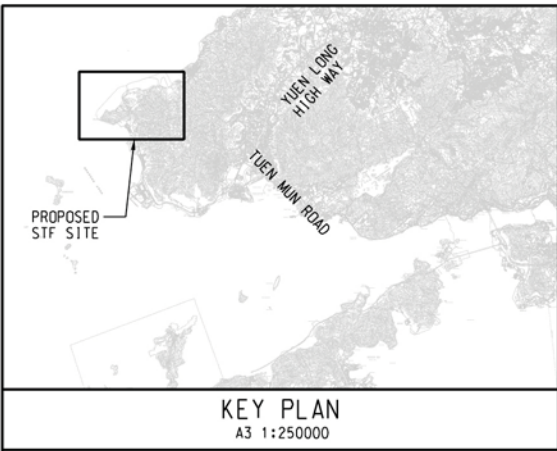
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Figure 3.1
Site Layout Plan



DEEP BAY

PROPOSED SLUDGE TREATMENT FACILITIES

EXISTING CLP ASH LAGOON AT TSANG TSUI

WENT LANDFILL

大水坑
831250 N

BLACK POINT POWER STATION

TSANG KOK STREAM

BLACK POINT

830000 N

URMSTON ROAD

配水庫
Ser Res

龍鼓上棚
Lung Au
Sheung Tan

807500 E

808750 E

810000 E

811250 E

DATE: GUOXH 2008-9-30

MAUNSELL | AECOM
Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
LOCATION PLAN OF PROPOSED SLUDGE TREATMENT FACILITIES

| | | | |
|---------|------------|-------------|------------|
| SCALE | A3 1:12500 | DATE | SEP. 2008 |
| CHECK | PPMY | DRAWN | XCF |
| JOB No. | 60015756 | DRAWING No. | FIGURE 1.1 |
| | | REV | - |

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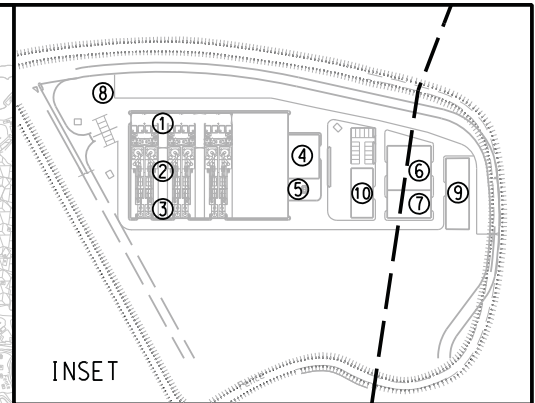
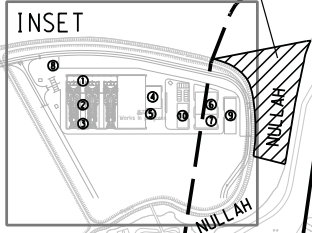
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Figure 3.2

WENT Landfill Gas Control Zone



SECTION OF NULLAH
WHERE WATER IS ALWAYS
PRESENT

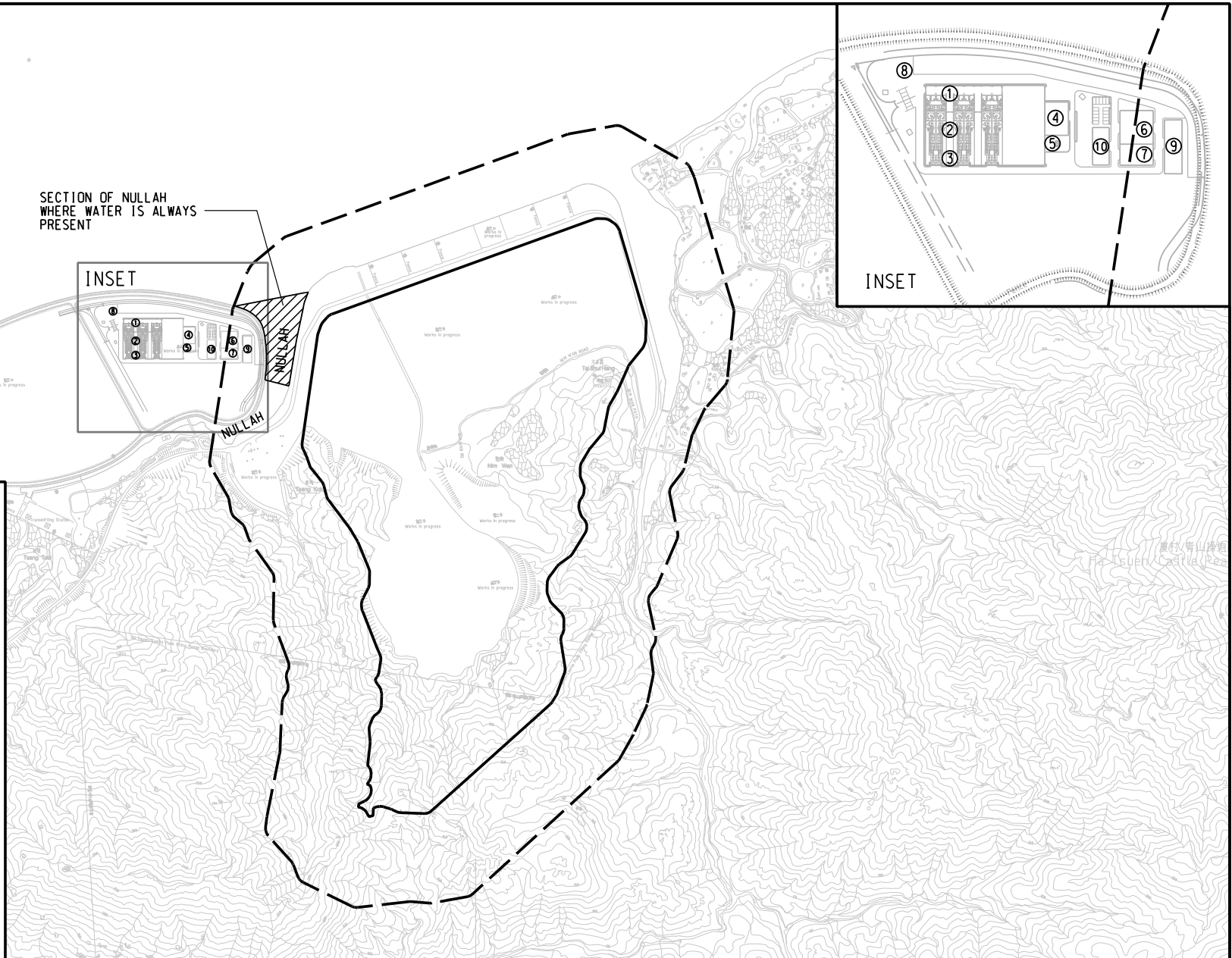


LEGEND

- ① DELIVERY BAY
- ② INCINERATORS AND AIR CONTROL EQUIPMENT
- ③ FUEL GAS RESIDUE SILOS, ASH SILOS & LOADING AREA
- ④ CHEMICAL / FUEL STORAGE AND FEEDING
- ⑤ STACK
- ⑥ ADMINISTRATION BUILDING & LABORATORY
- ⑦ MAINTENANCE WORKSHOP
- ⑧ UTILITY YARD
- ⑨ DESALINATION PLANT, SEAWATER PUMPING STATION & STORAGE TANK
- ⑩ SEWAGE TREATMENT WORKS

WENT LANDFILL
CONSULTATION ZONE
BOUNDARY

WENT LANDFILL
WASTE BOUNDARY



DATE: \$DATE\$

MAUNSELL | AECOM
Metcalf & Eddy Ltd.

AGREEMENT NO. CE 28/2003 (EP)
SLUDGE TREATMENT FACILITIES - FEASIBILITY STUDY
WENT LANDFILL CONSULTATION ZONE

| | | | |
|---------|----------|-------------|-------------|
| SCALE | 1:11000 | DATE | APR. 2008 |
| CHECK | TCYC | DRAWN | ALFA |
| JOB No. | 60039510 | DRAWING No. | FIGURE 10.1 |
| | | REV | - |

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Figure 4.1

Ecological Transect Route

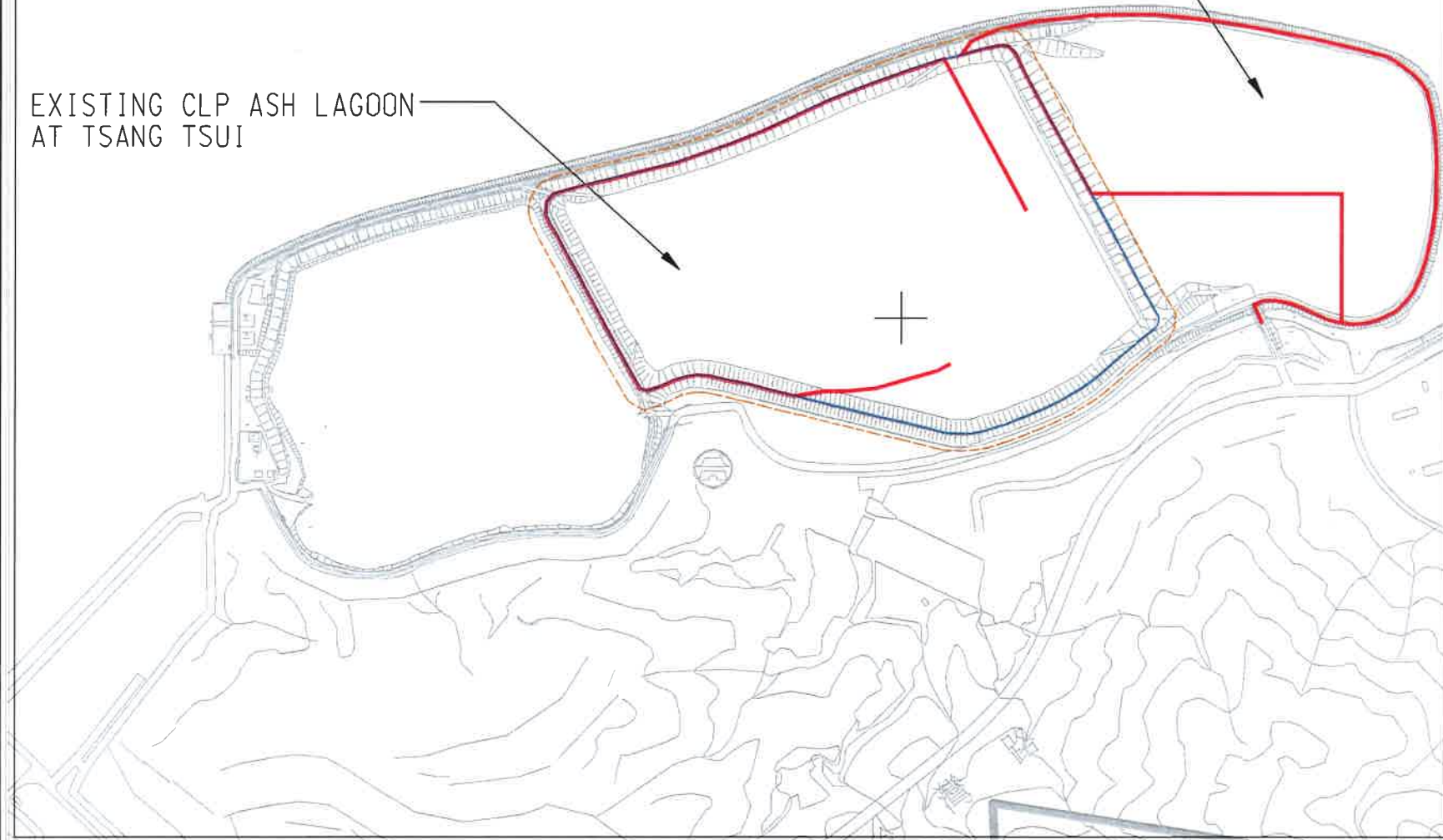
0m 100m 200m 300m 400m



DEEP BAY

EXISTING CLP ASH LAGOON
AT TSANG TSUI

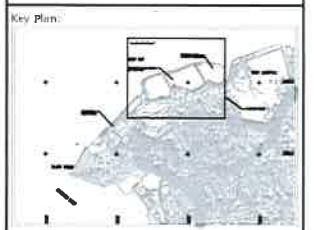
PROPOSED SLUDGE
TREATMENT FACILITIES



- Notes:
- Survey Route
 - Middle Lagoon Boundary
 - - - 20m from Middle Lagoon Boundary

 Asia Ecological Consultants Ltd

Project Title:
Contract No. EP/SP/58/08
Sludge Treatment Facilities



Drawing Title:
Ecological Transect Route

| | |
|-----------------------|-----------------|
| Drawn: SK | Scale: As shown |
| Checked: DJS | Date: May 2011 |
| Approved: DJS | File: -- |
| Drawing Number: -- | Revision 1 |