











Pacific Light Cable Network (PLCN) - Deep Water Bay (EP-539/2017)

Phase 1 – Post-Project Water Quality Impact Monitoring Report

May 2018

Environmental Resources Management

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Phase 1 – Post-Project Water Quality Impact Monitoring Report

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Client:		GMS N	0:		
	Global (HK) Limited	044840)9		
results of	rt presents the monitoring requirements, methodologies and the post-project water quality monitoring in accordance with the ofile (PP-550/2017).	Date: 08 May Approve Terence Partne	ed by :		
0	Phase 1 – Post-Project Water Quality Impact Monitoring Report	NN	FZino	TFONG	08 May 18
Revision	Description	Ву	Checked	Approved	Date
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Pacific Light Cable Network (PLCN) – Deep Water Bay Environmental Certification Sheet EP-539/2017

Reference Document/Plan

Document/Plan-to be-Certified/ Verified:

Phase 1 - Post-Project Water Quality Monitoring Report

(Zone A)

Date of Report:

11 May 2018

Date prepared by ET:

ERM-Hong Kong Ltd

Date received by IEC:

Ecosystem Ltd

Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement:

Section 2

Content:

Water Quality Monitoring

G.2.3.1 "Post Project Monitoring will comprise sampling on three occasions (days) within three weeks after completion of the cable installation/ repair operation works at the same stations as Baseline Monitoring, during mid-flood and mid-ebb tides. The interval between two sets of monitoring shall not be less than 36 hours."

G2.5 The reports to be provided shall include:

- · Baseline Monitoring Report;
- · Weekly Impact Monitoring Reports; and
- Post Project Monitoring Report.

The Baseline Monitoring Report shall be provided no later than two weeks before the cable installation/repair operation work and the report should be submitted to EPD for agreement on the Action/Limit Levels.

EP Condition:

Conditions No. 3.2 - 3.3

Content:

Water Quality Monitoring

- 3.2 Samples, measurements and necessary remedial actions shall be taken in accordance with the EM&A requirements described in the Project Profile (Register No. PP-550/2017) by:
 - (a) conducting baseline environmental monitoring;
 - (b) conducting impact monitoring; and
 - (c) carrying out remedial actions in accordance to the EM&A requirements as described in the Project Profile (Register No. PP-550/2017), or as agreed by the Director, in case where specified criteria in the EM&A requirements are exceeded.
- 3.3 Submit to the Director three hard copies and one electronic copy of the following, as defined in the EM&A requirements described in the Project Profile (Register No. PP-550/2017):
 - (a) Baseline Monitoring Report on water quality no later than 2 week before the commencement of cable installation works;
 - (b) Weekly EM&A Report no later than 3 days after the relevant monitoring data are collected or become available during the cable installation works; and
 - (c) Final EM&A Report within one month after completion of the construction works.



ET Certification

I hereby certify that the above referenced	document/plan	complies with	the above referenced	condition of
EP-539/2017.				

Terence Fong, Environmental

Team Leader:

Date:

11 May 2018

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-539/2017

Dr Vincent Lai, Independent Environmental Checker:

Date: 14 May 2018

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EXECUTIVE SUMMARY

The cable installation works for the **Pacific Light Cable Network – Deep Water Bay** (the 'Project') are scheduled to be carried out in phases:

- Phase 1 Land Cable Installation and Shore-End Cable Installation (Zone A only) completed on 4 April;
- **Phase 2** Submarine Cable Installation (**Zones A and B**) tentatively scheduled to commence Jun/Jul 2018.

Phase 1 of the Project commenced with land works at Deep Water on 6 March 2018 (no water jetting work and no WQ impact monitoring requirement). Land works completed on 24 March 2018. Near shore marine diver jetting works within silt curtain (requiring WQ impact monitoring) then started on 24 March 2018 and was completed on 4 April.

This *Phase 1 - Post Project Water Quality Monitoring Report (Zone A)* presents the EM&A post project monitoring conducted from 19 to 24 April 2018 in accordance with the *Annex G* of *the Project Profile* and the requirements under EP-539/2017.

Water Quality

Post-Project Water Quality Monitoring was carried out on three occasions (days) at all monitoring stations within Zone A and took place within 3 weeks after the completion of the Phase 1 cable installation works within Zone A and the intervals between two sets of monitoring were not less than 36 hours. The water quality sampling was undertaken within 2 hours before and 2 hours after mid-flood and mid-ebb tidal state on each sampling occasion.

Post project data showed larger DO range (and on average lower values), lower turbidity and higher SS records compared to the baseline data. The overall water quality at the impact stations in Zone A was found to be similar to that at the control stations and given the control stations are far away (about 4 km) from the Phase 1 work area and water quality at these stations could not have been affected by the Project, it is concluded that the overall changes in DO, turbidity and SS levels during the post-project monitoring period at all designated stations, including the control stations, are likely to represent natural variation and were not due to the Project.

Conclusion

Phase 1 of this Project had negligible impact on water quality.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by PCCWG as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Pacific Light Cable Networks (PLCN) – Deep Water Bay Project (thereinafter called the 'Project').

1.1 Purpose of the Report

This is the Post-Project Water Quality Monitoring Report for Phase 1 (Land Cable Installation and Shore-End Cable Installation) of the Project and summarises the post-project water quality (WQ) monitoring results for the post-project water quality monitoring from 19 to 24 April 2018. The post-project water quality monitoring results are used to compare with the Baseline and Impact monitoring results in order to investigate any potential impact of the Project works on the WQ in the vicinity of the Project at Deep Water Bay.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1: **Introduction**

Details the background, purpose and structure of the report.

Section 2: **Project Information**

Summarises background and scope of the project, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3: Water Quality Monitoring Requirements

Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, and Event / Action Plans.

Section 4: Monitoring Results

Summarises the monitoring results obtained in the post-project water quality monitoring for Phase 1 of the Project.

Section 5: Conclusions

Presents the key findings of the post-project water quality monitoring results for Phase 1 of the Project.

2 PROJECT INFORMATION

2.1 BACKGROUND

In order to help meet the tremendous telecommunication services requirements between Asia and North America, the **PLCN Consortium** has decided to build a submarine telecommunication cable system, which will be approximately 12,800 km in length, connecting Hong Kong and the United States. The cable will connect to Deep Water Bay (DWB) within the HKSAR. **PCCW Global (HK) Limited (PCCWG)** is providing the cable landing point and the associated cable landing service in Hong Kong for the PLCN Consortium.

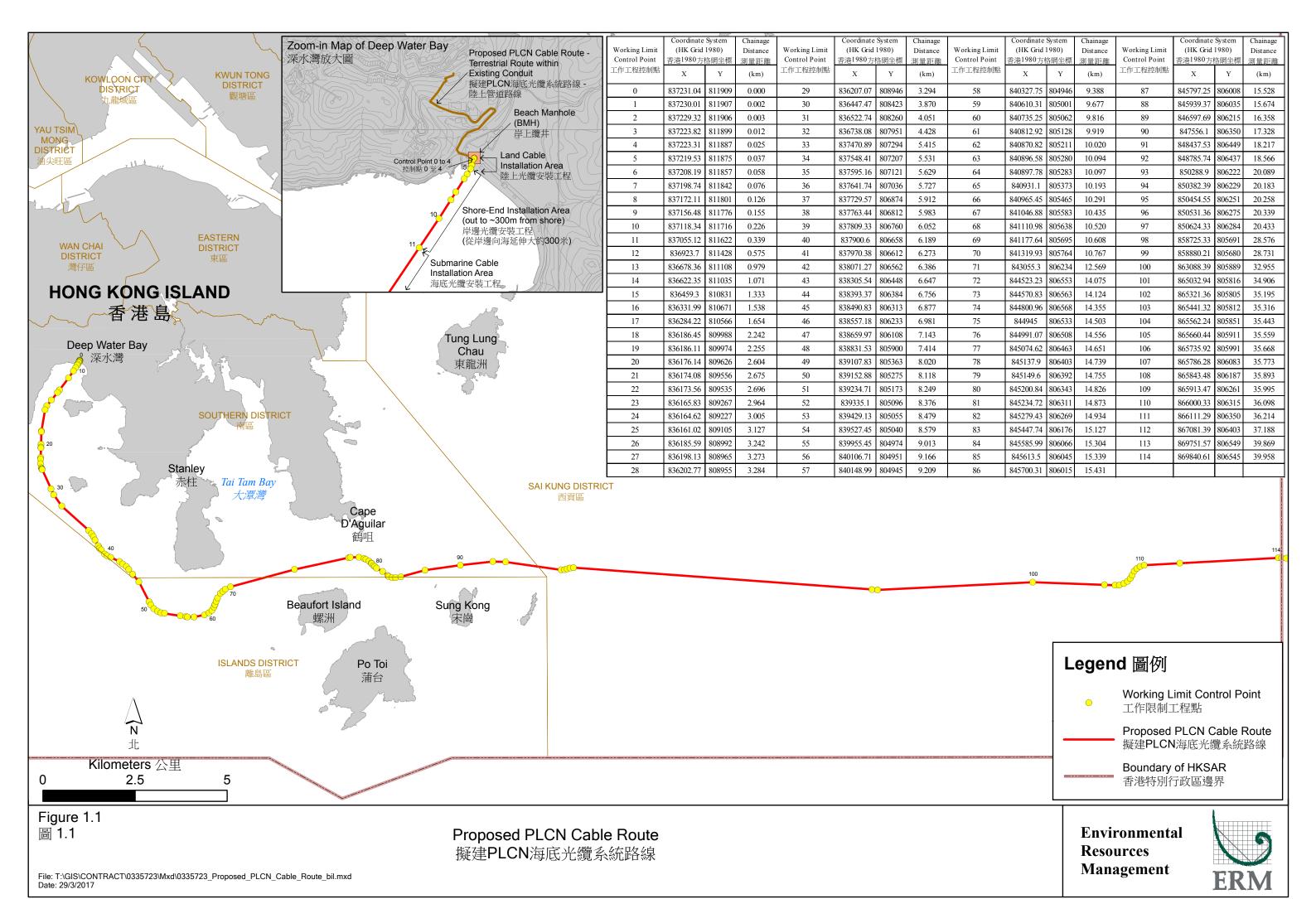
The proposed cable will land at an existing Beach Man Hole location at Deep Water Bay (DWB) in Hong Kong and the full route of the proposed PLCN submarine cable system is depicted in *Figure 1.1*. It should be noted that DWB is currently the landing site for a number of submarine cables.

The Project Profile (PP-550/2017) which includes an assessment of the potential environmental impacts associated with the installation and operation of the submarine telecommunications cable system within HKSAR (including connection to land at DWB) was prepared and submitted to the Environmental Protection Department (EPD) under section 5.(1) (b) and 5.(11) of the *Environmental Impact Assessment Ordinance* (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). On 1 June 2017, EPD issued a letter to PCCWG permitting direct application for an environmental permit and following an application, EPD subsequently issued an Environmental Permit (EP-539/2017) on 10 July 2017.

Pursuant to *Condition 3.1* of the EP, an environmental monitoring and audit (EM&A) programme, as set out in the Project Profile is required for this Project. As per *Condition 3.2* of the EP regarding Water Quality Monitoring, there is a requirement to conduct water quality baseline monitoring, impact monitoring as well as post-project monitoring. Action and Limit Levels are derived from the baseline data.

Cable installation for this Project is scheduled to be carried out in two phases, with Phase 1 situated in part of Zone A only and Phase 2 covering Zones A and B (as well as the alignment outside both Zone A or Zone B). The phasing of the cable installation works is shown in *Figures 2.1* to 2.3 and the current schedule and works carried out to date for each Phase is as follows:

 Phase 1 Land Cable Installation and Shore-End Cable Installation (Zone A only): Mini shore-end cable installation to Beach Manhole at Deep Water Bay (DWB), involving land trench excavation and shore-end cable installation of the PLCN cable (ie from Beach Manhole out to approximately 650 m from Beach Man Hole) using diver jetting;



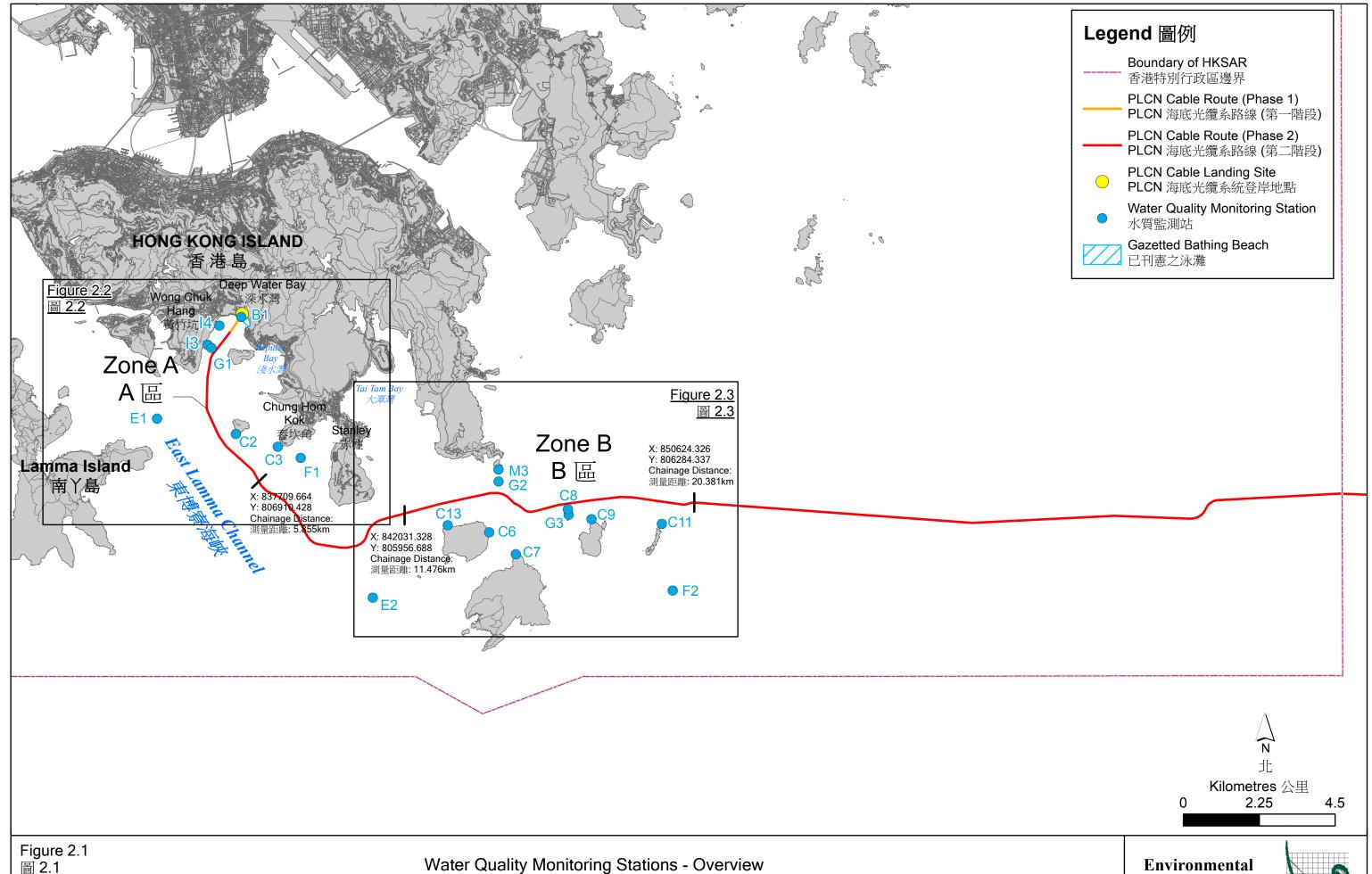
- Baseline data were collected prior to the start of Phase 1 cable installation works (between 5th and 9th February 2018) and Action and Limit Levels derived from these data, as presented in the final *Baseline Water Quality Monitoring Report* (*Zone A*).
- Land trenching commenced 6 March 2018. Following issue of Marine Department Notice on 23 March 2018, land trenching completed with LCSD inspection of restored beach area, on 24 March 2018.
- Near shore marine diver jetting works within silt curtain commenced 24 Mar 2018, and was completed on 4 April.
- Note that all works in April were done outside 300 m from the seaward boundary of the beach, as required in the Environmental Permit [EP-539/2017] conditions.
- Phase 2 Submarine Cable Installation (Zones A and B): Installation of PLCN cable from shore-end (ie approximately 650m from Beach Manhole) to HK SAR marine eastern boundary, involving jetting technique and potential diver jetting in specific areas (eg HK Electric Pipeline crossing).
 - Marine installation works using jetting technique is tentatively scheduled to commence Jun/Jul 2018.

Given the commencement dates for Phase 1 and Phase 2 cable installation and jetting works are currently scheduled to start at least two months apart, the baseline data (and corresponding Action and Limit Levels) are being presented in separate reports for each Phase.

This report presents the Project's post project monitoring data for *Phase 1 Land Cable Installation and Shore-End Cable Installation* (Only Zone A as show in *Figure 2.2*).

2.2 SITE DESCRIPTION

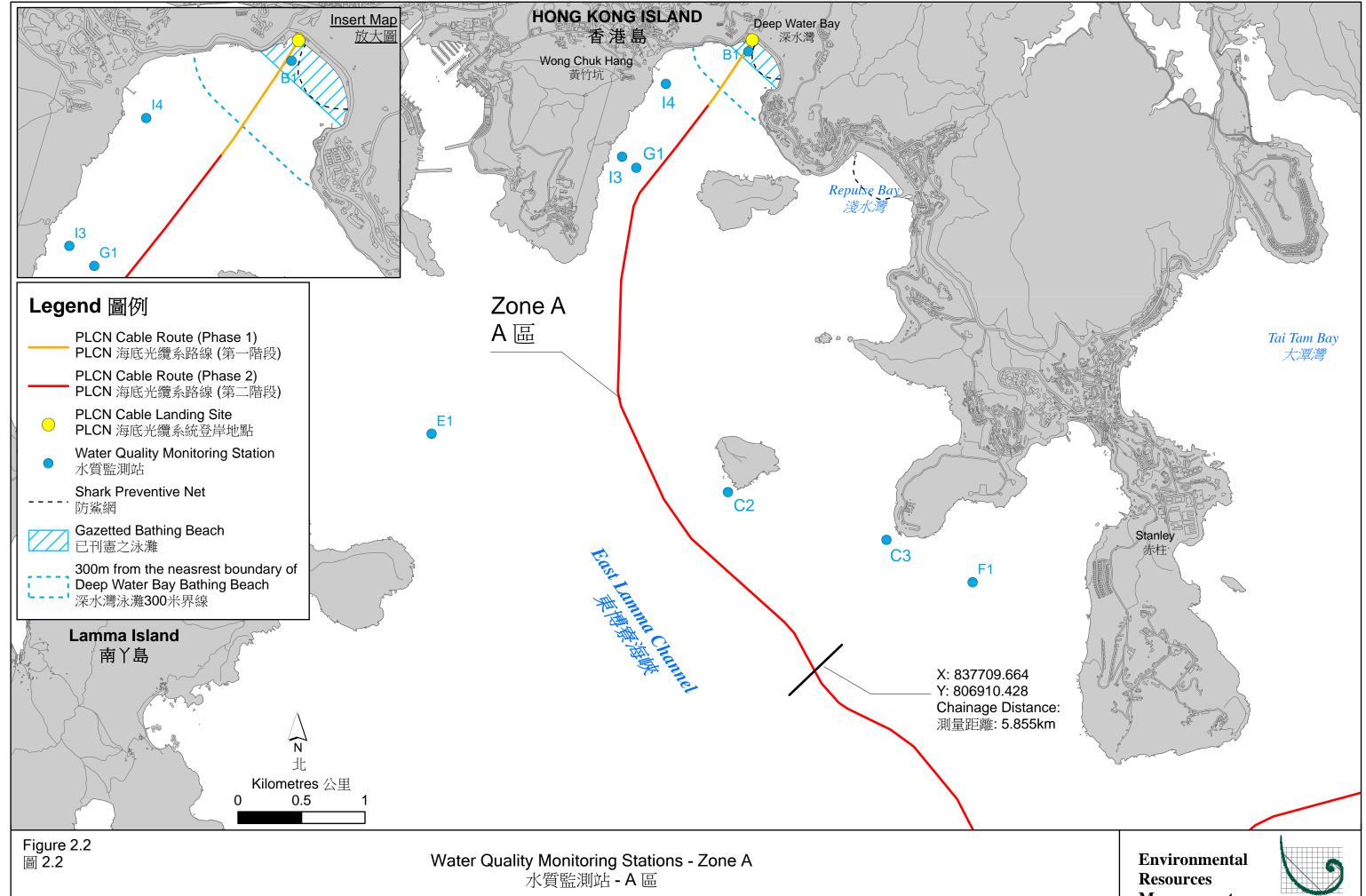
The cable installation runs from Deep Water Bay out through southeast Hong Kong offshore waters. The alignment of the cable is illustrated in *Figure 2.1*.



Water Quality Monitoring Stations - Overview 水質監測圖 - 概覽

Resources Management

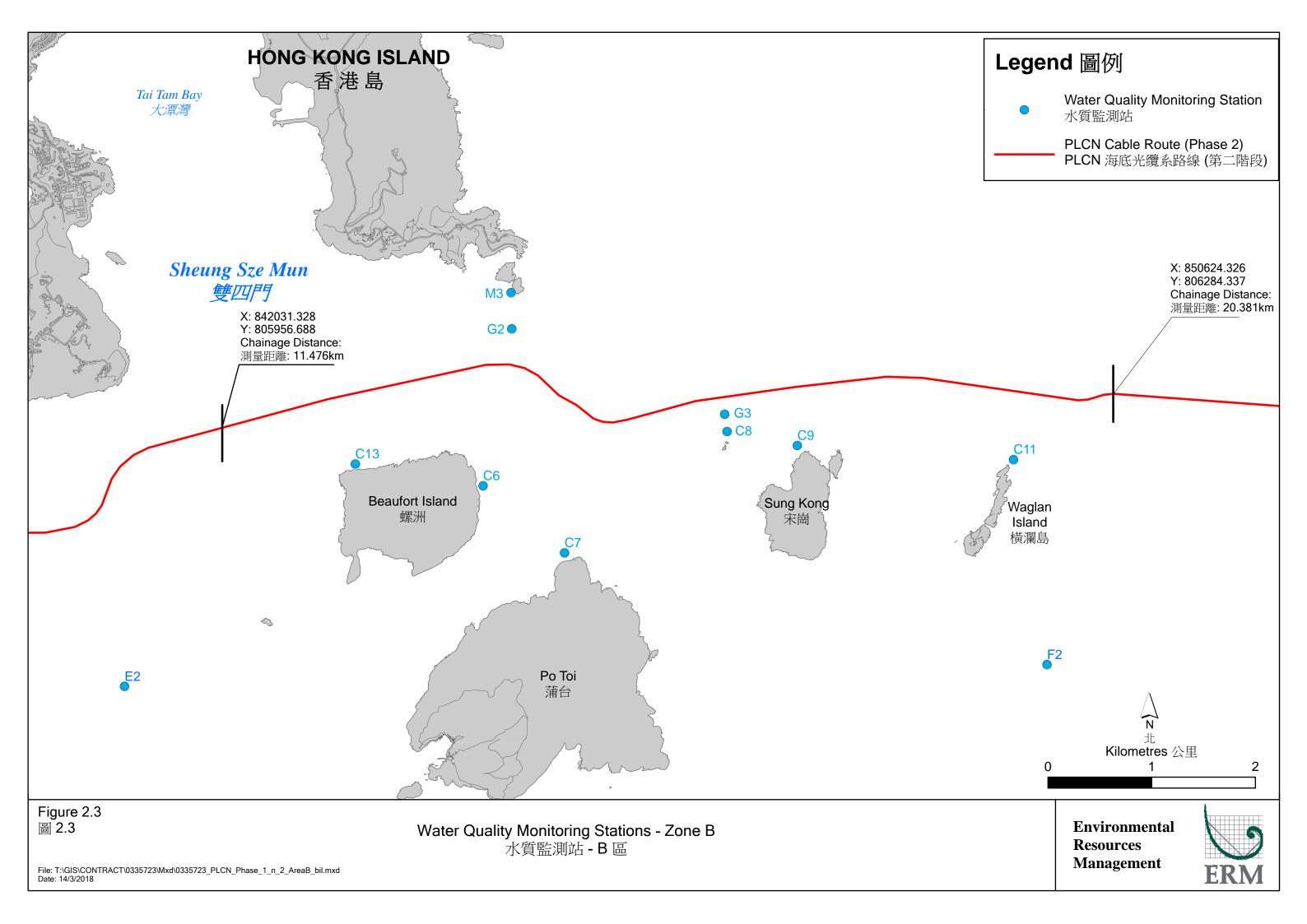




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Management





2.3 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, notifications and/or reports on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification, Permit and Reporting Status

Permit / Licence /	Reference	Validity Period	Remarks
Notification / Report			
Environmental Permit	(EP-539/2017)	Throughout construction	Granted on 10
	Available at	& operation period	July 2017
	http://www.epd.gov.hk		
	<u>/eia/english/alpha/asp</u>		
	<u>d_717.html</u>		
EM&A Manual	(PP-550/2017)	Throughout construction	Approved by
	(as part of the Project	& operation period	EPD on 1 June
	Profile – see above)		2017
Baseline Water Quality	Available at	Throughout construction	Approved by
Monitoring Report	http://www.epd.gov.hk	period for Phase 1 works	EPD on 15
(Zone A)	/eia/english/register/ae	in Zone A	March 2018
	p/ep5392017_content.ht		
	<u>ml</u>		
Phase 1 – 1 st Weekly	Available at	n/a	Submitted to
WQ Impact Monitoring	http://www.epd.gov.hk		EPD 18 April
Report	/eia/english/register/ae		2018
	p/ep5392017_content.ht		
	<u>ml</u>		
Phase 1 – 2 nd Weekly	Available at	n/a	Submitted to
WQ Impact Monitoring	http://www.epd.gov.hk		EPD 20 April
Report	/eia/english/register/ae		2018
	p/ep5392017_content.ht		
	<u>ml</u>		

3 WATER QUALITY MONITORING

3.1 MONITORING LOCATIONS

In accordance with the *Annex G* of *the Project Profile*, since Phase 1 cable installation works were only conducted within Zone A , post project water quality sampling was undertaken at Zone A stations only (situated around the cable laying works at Deep Water Bay). The locations of the sampling stations within Zone A are shown in *Figures 2.1* and 2.2. The co-ordinates of Zone A and the monitoring stations are listed in *Table 3.1* and *Table 3.2*, respectively.

Table 3.1 Co-ordinates of Starting Points and Ending Points for Zones A (HK Grid)

Zone	Starting Point		Ending Point	Ending Point		
	Easting	Northing	Easting	Northing		
A	Start from shore e	end.	837709.664	806910.428		

Table 3.2 Co-ordinates of Post-Project Monitoring Stations (HK Grid)

Station	Nature	Corresponding Control Station	Easting	Northing
B1	Impact Station (Adjacent to Deep Water Bay Beach)	E1, F1	837188	811783
I3	Impact Station (Ocean Park's Main Seawater Intake)	E1, F1	836195	810956
I4	Impact Station (Ocean Park's Training Yard Seawater Intake)	E1, F1	836539	811529
C2	Impact Station (Coral sites along the coast of Round Island)	E1, F1	847579	805787
C3	Impact Station (Coral sites along the coast of Chung Hom Kok)	E1, F1	838275	807941
G1	Gradient Station (Between Ocean Park's Main Seawater Intake and cable alignment)	E1, F1	836306	810867
E1	Control Station for Zone A in Ebb Tide	-	834695	808775
F1	Control Station for Zone A in Flood Tide	-	838953	807607

3.2 SAMPLING AND TESTING METHODOLOGY

3.2.1 Monitoring Parameters

Parameters measured in situ were:

- dissolved oxygen (DO) (% saturation and mg L-1);
- temperature (°C);
- turbidity (NTU); and

• salinity (%).

The only parameter measured in the laboratory was:

• suspended solids (SS) (mg L-1).

In addition to the water quality parameters, other relevant data were measured and recorded in field logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal state, current direction and speed, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

3.2.2 Monitoring Equipment

Table 3.3 summaries the equipment used for the water quality impact monitoring.

Table 3.3 Equipment used during Post-Project Water Quality Monitoring

Equipment	Model
Global Positioning Device	Garmin etrex 20x & Furuno GP-170E (dGPS)
Water Depth Gauge	Sontek Hydrosurveyor / Sontek Riversurveyor
Water Sampling Equipment	Wildlife 1120 – 2.2L alpha vertical sampler
Salinity, DO, Temperature Measuring Meter	YSI ProDSS (Multi-Parameter)
Current Velocity and Direction	Sontek Hydrosurveyor / Sontek Riversurveyor
Turbidity Meter	YSI ProDSS (Multi-Parameter)

3.2.3 Monitoring Frequency and Timing

Post-Project Water Quality Monitoring was carried out on three occasions (days) at all monitoring stations within Zone A (B1, I3, I4, C2, C3, G1, E1 and F1) took place within 3 weeks after the completion of the Phase 1 cable installation works within Zone A as shown in *Figure 2.1* and the intervals between two sets of monitoring were not less than 36 hours. The water quality sampling was undertaken within 2 hours before and 2 hours after mid-flood and mid-ebb tidal state on each sampling occasion.

Reference was made to the predicted tides at Waglan Island, which is the tidal station nearest to the Project Site, published on the website of the Hong Kong Observatory ⁽¹⁾. Based on the predicted tidal levels at Waglan Island, the post-project water quality monitoring was conducted between 19th and 24th April 2018, following the schedule presented in *Annex A*.

3.2.4 Sampling/Testing Protocol

All *in situ* monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use (see calibration reports in *Annex B*), and will subsequently

⁽¹⁾ Hong Kong Observatory (2017) http://www.hko.gov.hk/tide/predtide.htm?s=WAG [Accessed in April 2018]

be re-calibrated at-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

For the on-site calibration of field equipment, the *BS* 1427: 1993, *Guide to Field and On-Site Test Methods for the Analysis of Waters* was observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available.

Water samples for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4° C without being frozen), and delivered to a HOKLAS laboratory (ALS Technichem [HK] Pty Ltd) as soon as possible after collection.

3.2.5 Laboratory Analysis

All laboratory work was carried out in a HOKLAS accredited laboratory (ALS Technichem [HK] Pty Ltd). Water samples of about 1,000 mL were collected at the monitoring and control stations for carrying out the laboratory determinations. The determination work started within the next working day after collection of the water samples. The SS laboratory measurements were provided within 2 days of the sampling event (48 hours). The analyses followed the standard methods as described in APHA Standard Methods for the *Examination of Water and Wastewater*, 19th Edition, unless otherwise specified (APHA 2540D for SS).

The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (for details refer to *Annex C*).

3.2.6 Sampling Depths & Replication

Each station was sampled and measurements were taken at three depths, 1 m below the sea surface, mid depth and 1m above the sea bed. (All stations were at least 3 m in depth)

For *in situ* measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.

4 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

Mitigation measures for water quality control were recommended in the Project Profile (PP-550/2017) and Environmental Permit (EP-539/2017). The Contractor implemented the following select and relevant mitigation measures during Phase 1 cable installation works:

- All diver hand jetting works were conducted within silt curtain works area to provide protection to surrounding water from sediment; and
- Water quality monitoring was carried out to verify that the project works were not resulting in any impacts to water quality, marine ecology and fisheries.

A total of three monitoring events were carried out between 19 and 24 April 2018 at Zone A, covering all work days in the period. All monitoring events at all designated monitoring stations within Zone A were performed on schedule, ie on 19, 21 and 24 April 2018, as detailed in *Section 3.2.3*, following completion of the Project Phase 1 works on 4 April 2018.

The monitoring data post-project water quality monitoring within Zone A are presented in *Annex D* and graphical presentations in *Figures D1 -D4* compare the data against baseline and impact monitoring data for Phase 1 in Zone A.

The levels of DO measured during the post project monitoring period had a larger range than that of the baseline and impact monitoring period, with higher maximum and lower minimum depth-averaged DO levels compared with that of the baseline and impact monitoring period. Accordingly, exceedances in DO action and limit levels were recorded, including at both control stations E1 and F1 in all three survey days (for both tides). Measured DO levels at controls stations E1 and F1 (both about 4 km from works area of Phase 1) were similar to that at impact monitoring stations, indicating water quality variations during post-project monitoring was due to widespread natural variation and not isolated incidents due to the previous Project works. Detailed analysis during impact monitoring also showed similar results at the control and impact assessment stations. Therefore, although there is some difference between the baseline monitoring period and post-project monitoring, it is considered widespread WQ variation due to natural causes. Overall, the DO levels recorded were high and always above 6.0 mg/L with minimum DO saturation of at least 88%, which is higher than the corresponding Water Quality Objectives of DO of 4 mg/L for surface and middle layer and 2 mg/L for bottom layer.

Levels of Turbidity measured during the post-project monitoring period were generally lower than that of the baseline monitoring period. Only one exceedance of turbidity limit level was recorded at control station E1 in the mid-flood tide survey on 24 April 2018.

For SS, the recorded levels were within the range of that of the impact monitoring period and higher than that of the baseline monitoring period. Accordingly, exceedances in SS level were recorded, including control stations E1 and F1 for 5 out of 6 survey events. For mid-flood survey on 21 April, where exceedance in SS level at relatively high number of survey stations (4 out of 8 stations) were recorded, the recorded SS elevation at the flood tide control station F1 was the highest among all monitoring stations in the same survey event. Exceedances of action and limit SS level were also recorded in other survey events, but the exceedances recorded were isolated (i.e. only at one impact station at a time) and accompanied with one control station.

In general, measured turbidity and SS levels at controls stations E1 and F1 (both about 4 km from work area of Phase 1) were similar to that of the rest of the monitoring stations during monitoring. Therefore, similar to that for DO levels, the differences between the baseline and post-project monitoring period are considered to be due to natural variation.

Given the above information, particularly with regard to the control stations as well as the absence of marine works or other activities in the vicinity during post-project monitoring, the overall changes in DO, Turbidity and SS levels during the post project monitoring period at all designated stations compared to baseline data are likely to represent a natural phenomenon.

6 CONCLUSIONS

This *Phase 1 Post Project Water Quality Monitoring Report (Zone A)* presents the post project WQ monitoring undertaken between 19 to 24 April 2018 in accordance with the *Annex G* of *the Project Profile* and the requirements under EP-539/2017.

Post-Project Water Quality Monitoring was carried out on three occasions (days) at all monitoring stations within Zone A and took place within 3 weeks after the completion of the Phase 1 cable installation works within Zone A on 4 April 2018. The intervals between two sets of monitoring were not less than 36 hours. The WQ sampling was undertaken within 2 hours before and 2 hours after mid-flood and mid-ebb tidal state on each sampling occasion.

Post project data showed larger DO range (and on average lower values), lower turbidity and higher SS records compared to the baseline data. The overall water quality at the impact stations in Zone A was found to be similar to that at the control stations and given the control stations are far away (about 4 km) from the Phase 1 work area and water quality at these stations could not have been affected by the Project, it is concluded that the overall changes in DO, turbidity and SS levels during the post-project monitoring period at all designated stations, including the control stations, are likely to represent natural variation and were not due to the Project.

Although some changes in WQ were observed between post project and baseline monitoring for marine works under Phase 1 of this Project, for the reasons explained above, none of these changes are considered to be as a result of the Phase 1 Project works. Phase 1 of this Project therefore had negligible impact on water quality.

Annex A

Phase 1 - Post-Project Water Quality Monitoring Schedule (Zone A)

PLCN Post-Project Water Quality Impact Monitoring Schedule - Zone A

APRIL 2018

Sunday or Public Holiday

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
													1
	2		3		4		5		6		7		8
	9		10		11		12		13		14		15
						ebb tide 12:40 - flood tide 6:06 -				ebb tide 14:23 - flood tide 7:18 -			
	16		17		18		19		20		21		22
		ebb tide 18:13 - flood tide 10:53 -	14:53										
	23		24		25		26		27		28		29

Annex B

Calibration Reports of Multi-parameter Sensor



業化驗有限公司

OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AH030201

Date of Issue

03 April 2018

Page No.

1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Rm 811, Hin Pui House,

Hin Keng Estate, Tai Wai

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104233

Date of Received

Mar 27, 2018

Date of Calibration

Mar 27, 2018 to Mar 27, 2018

Date of Next Calibration(a)

May 27, 2018

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C

APHA 21e 4500-H+ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity Temperature APHA 21e 2130 B Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.98	-0.02	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	9.96	-0.05	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
16.5	16.3	-0.2	Satisfactory
26.5	26.4	-0.1	Satisfactory
34.0	33.9	-0.1	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards.

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Koug Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AH030201

Date of Issue

03 April 2018

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.13	+0.13	Satisfactory
4.39	4.29	-0.10	Satisfactory
5.84	5.74	-0.10	Satisfactory
7.31	7.27	-0.04	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	. of KCl (M) Expected Reading Displa (μS/cm) (Tolerance (%)	Results
0.001	146.9	150.8	+2.7	Satisfactory
0.01	1412	1442	+2.1	Satisfactory
0.1	12890	12708	-1.4	Satisfactory
0.5	58670	58072	-1.0	Satisfactory
1.0	111900	107309	-4.1	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	ected Reading (g/L) Displayed Reading (g/L)		Results	
10	10.15	+1.5	Satisfactory	
20	20.19	+1.0	Satisfactory	
30	30.09	+0.3	Satisfactory	

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1	- -	
10	9.5	-5.0	Satisfactory
20	19.4	-3.0	Satisfactory
100	97.2	-2.8	Satisfactory
800	781	-2.4	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

[&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

⁽b) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AH030200

Date of Issue

03 April 2018

Page No.

1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Rm 811, Hin Pui House,

Hin Keng Estate, Tai Wai

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17E100747

Date of Received

Mar 27, 2018

Date of Calibration

Mar 27, 2018 to Mar 27, 2018

Date of Next Calibration(a)

May 27, 2018

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen Conductivity at 25°C

APHA 21e 4500-O G APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	+0.04	Satisfactory
7.42	7.44	+0.02	Satisfactory
10.01	10.09	+0.08	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results	
16.5	16.3	-0.2	Satisfactory	
26.5	26.3	-0.2	Satisfactory	
34.0	33.8	-0.2	Satisfactory	

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards.

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AH030200

Date of Issue

03 April 2018

Page No.

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results	
0.00	0.16	+0.16	Satisfactory	
4.39	4.31	-0.08	Satisfactory	
5.84	5.76	-0.08	Satisfactory	
7.31	7.25	-0.06	Satisfactory	

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (μS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	151.8	+3.3	Satisfactory
0.01	1412	1398	-1.0	Satisfactory
0.1	12890	12690	-1.6	Satisfactory
0.5	58670	58110	-1.0	Satisfactory
1.0	111900	107658	-3.8	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results	
10	10.13	+1.3	Satisfactory	
20	20.11	+0.5	Satisfactory	
30	30.12	+0.4	Satisfactory	

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1		
10	9.8	-2.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	95.7	-4.3	Satisfactory
800	787	-1.6	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

relevant international standards.

 [&]quot;Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
 The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form

Annex C

QA/QC Results of Laboratory Testing for Suspended Solids

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

Address



CERTIFICATE OF ANALYSIS

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 6

Contact : MR THOMAS WONG Contact : Richard Fung Work Order : HK1823071

FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, Address 11/F., Chung Shun Knitting Centre, 1 - 3

N.T. HONG KONG Wing Yip Street, Kwai Chung, N.T.,
Hong Kong

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Project : PACIFIC LIGHT CABLE NETWORK Quote number : HKE/1254/2018 Date received : 19-Apr-2018

(PLCN) - DEEP WATER BAY

Order number : — Date of issue : 23-Apr-2018

C-O-C number : — No. of samples - Received : 96

Site : — - Analysed : 96

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This document has been signed by those names that appear on this report and are the authorised signatories.

the testing laboratory.

Signatory Position Authorised results for:

Fung Lim Chee, Richard General Manager Inorganics

Page Number : 2 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823071

ALS

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1823071 supersedes any previous reports with this reference. Testing period is from 19-Apr-2018 to 23-Apr-2018. 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 HK1823071:

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

Page Number : 3 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823071



Analytical Results

Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and	 	
	/ time	ID	Aggregate Properties		
E1/Surface/Mid-Ebb	19-Apr-2018	HK1823071-001	6.1	 	
E1/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-002	4.8	 	
E1/Middle/Mid-Ebb	19-Apr-2018	HK1823071-003	4.5	 	
E1/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-004	5.8	 	
E1/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-005	4.8	 	
E1/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-006	4.7	 	
G1/Surface/Mid-Ebb	19-Apr-2018	HK1823071-007	3.2	 	
G1/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-008	2.3	 	
G1/Middle/Mid-Ebb	19-Apr-2018	HK1823071-009	2.2	 	
G1/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-010	3.8	 	
G1/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-011	8.7	 	
G1/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-012	7.1	 	
I3/Surface/Mid-Ebb	19-Apr-2018	HK1823071-013	2.4	 	
I3/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-014	3.8	 	
I3/Middle/Mid-Ebb	19-Apr-2018	HK1823071-015	2.5	 	
I3/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-016	2.7	 	
I3/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-017	5.0	 	
I3/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-018	5.7	 	
I4/Surface/Mid-Ebb	19-Apr-2018	HK1823071-019	2.3	 	
I4/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-020	3.6	 	
I4/Middle/Mid-Ebb	19-Apr-2018	HK1823071-021	4.4	 	
I4/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-022	5.2	 	
I4/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-023	5.9	 	
I4/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-024	4.5	 	
B1/Surface/Mid-Ebb	19-Apr-2018	HK1823071-025	4.3	 	
B1/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-026	4.6	 	
B1/Middle/Mid-Ebb	19-Apr-2018	HK1823071-027	4.5	 	
B1/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-028	5.9	 	
B1/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-029	6.6	 	
B1/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-030	6.3	 	
F1/Surface/Mid-Ebb	19-Apr-2018	HK1823071-031	4.5	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823071



Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and	 	
	/ time	ID	Aggregate Properties		
F1/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-032	4.3	 	
F1/Middle/Mid-Ebb	19-Apr-2018	HK1823071-033	6.0	 	
F1/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-034	6.3	 	
F1/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-035	11.5	 	
F1/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-036	11.7	 	
C2/Surface/Mid-Ebb	19-Apr-2018	HK1823071-037	8.0	 	
C2/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-038	8.0	 	
C2/Middle/Mid-Ebb	19-Apr-2018	HK1823071-039	8.8	 	
C2/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-040	7.5	 	
C2/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-041	8.0	 	
C2/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-042	8.9	 	
C3/Surface/Mid-Ebb	19-Apr-2018	HK1823071-043	5.7	 	
C3/Surface/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-044	6.1	 	
C3/Middle/Mid-Ebb	19-Apr-2018	HK1823071-045	6.7	 	
C3/Middle/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-046	7.1	 	
C3/Bottom/Mid-Ebb	19-Apr-2018	HK1823071-047	6.6	 	
C3/Bottom/Mid-Ebb Duplicate	19-Apr-2018	HK1823071-048	7.0	 	
E1/Surface/Mid-Flood	19-Apr-2018	HK1823071-049	3.9	 	
E1/Surface/Mid-Flood Duplicate	19-Apr-2018	HK1823071-050	3.5	 	
E1/Middle/Mid-Flood	19-Apr-2018	HK1823071-051	7.8	 	
E1/Middle/Mid-Flood Duplicate	19-Apr-2018	HK1823071-052	7.5	 	
E1/Bottom/Mid-Flood	19-Apr-2018	HK1823071-053	8.2	 	
E1/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-054	7.6	 	
G1/Surface/Mid-Flood	19-Apr-2018	HK1823071-055	4.7	 	
G1/Surface/Mid-Flood Duplicate	19-Apr-2018	HK1823071-056	3.6	 	
G1/Middle/Mid-Flood	19-Apr-2018	HK1823071-057	3.7	 	
G1/Middle/Mid-Flood Duplicate	19-Apr-2018	HK1823071-058	4.0	 	
G1/Bottom/Mid-Flood	19-Apr-2018	HK1823071-059	3.9	 	
G1/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-060	4.8	 	
I3/Surface/Mid-Flood	19-Apr-2018	HK1823071-061	3.8	 	
I3/Surface/Mid-Flood Duplicate	19-Apr-2018	HK1823071-062	2.8	 	
I3/Middle/Mid-Flood	19-Apr-2018	HK1823071-063	3.9	 	
I3/Middle/Mid-Flood Duplicate	19-Apr-2018	HK1823071-064	4.9	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823071



Client sample ID	Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
Signatural Sig			LOR Unit	0.5 mg/L	 	
Billiottom/Mici-Piood 19-Apr-2018	Client sample ID	, ,		•	 	
SignothamMid-Flood Duplicate 19-Apr-2018						
MRSutrisouMMid-Flood Diplicate 19-Apr-2018 HK1823071-067 3.6 .	I3/Bottom/Mid-Flood	· ·				
MANUMIS-Plood Deplicate 19-Apr-2018	I3/Bottom/Mid-Flood Duplicate	· ·				
MAINIGRIGHMINE-Flood 19-Apr-2018	I4/Surface/Mid-Flood	<u>'</u>			 	
Michaeldemidi-Flood uplicate 19-Apr-2018 HK1823071-070 4.3	I4/Surface/Mid-Flood Duplicate	<u>'</u>			 	
MR-Storm/Mid-Flood Uplicate 19-Apr-2018	I4/Middle/Mid-Flood	<u>'</u>			 	
MBottomMid-Flood Duplicate 19-Apr-2018	I4/Middle/Mid-Flood Duplicate	·	HK1823071-070		 	
BI/SurfaceMid-Flood 19-Apr-2018	I4/Bottom/Mid-Flood	19-Apr-2018	HK1823071-071	5.2	 	
SilvariaseMid-Flood Duplicate 19-Apr-2018	I4/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-072	5.8	 	
BI/Middle/Mid-Flood 19-Apr-2018 HK1823071-076 5.0	B1/Surface/Mid-Flood	19-Apr-2018	HK1823071-073	5.0	 	
BI/Midde/Mid-Flood Duplicate 19-Apr-2018	B1/Surface/Mid-Flood Duplicate	19-Apr-2018	HK1823071-074	3.8	 	
B1/Bottom/Mid-Flood 19-Apr-2018 HK1823071-077 5.5 B1/Bottom/Mid-Flood Duplicate 19-Apr-2018 HK1823071-078 6.9	B1/Middle/Mid-Flood	19-Apr-2018	HK1823071-075	3.6	 	
BI/Bottom/Mid-Flood Duplicate 19-Apr-2018	B1/Middle/Mid-Flood Duplicate	19-Apr-2018	HK1823071-076	5.0	 	
Fi/Surface/Mid-Flood 19-Apr-2018 HK1823071-080 3.9	B1/Bottom/Mid-Flood	19-Apr-2018	HK1823071-077	5.5	 	
Filosinace/Mid-Flood Duplicate 19-Apr-2018 HK1823071-080 3.9 .	B1/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-078	6.9	 	
F1/Middle/Mid-Flood 19-Apr-2018 HK1823071-081 5.4	F1/Surface/Mid-Flood	19-Apr-2018	HK1823071-079	5.3	 	
Fri/Middle/Mid-Flood Duplicate 19-Apr-2018	F1/Surface/Mid-Flood Duplicate	19-Apr-2018	HK1823071-080	3.9	 	
Fil/Bottom/Mid-Flood Duplicate 19-Apr-2018	F1/Middle/Mid-Flood	19-Apr-2018	HK1823071-081	5.4	 	
Fil/Bottom/Mid-Flood Duplicate 19-Apr-2018 HK1823071-085 7.6	F1/Middle/Mid-Flood Duplicate	19-Apr-2018	HK1823071-082	6.0	 	
C2/Surface/Mid-Flood 19-Apr-2018 HK1823071-085 7.6	F1/Bottom/Mid-Flood	19-Apr-2018	HK1823071-083	11.6	 	
C2/Surface/Mid-Flood Duplicate 19-Apr-2018 HK1823071-086 8.1 <	F1/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-084	10.7	 	
C2/Surface/Mid-Flood Duplicate 19-Apr-2018 HK1823071-086 8.1 <	C2/Surface/Mid-Flood	19-Apr-2018	HK1823071-085	7.6	 	
C2/Middle/Mid-Flood 19-Apr-2018 HK1823071-087 8.0		19-Apr-2018	HK1823071-086	8.1	 	
C2/Middle/Mid-Flood Duplicate 19-Apr-2018 HK1823071-088 7.0 </td <td></td> <td>19-Apr-2018</td> <td>HK1823071-087</td> <td>8.0</td> <td> </td> <td> </td>		19-Apr-2018	HK1823071-087	8.0	 	
C2/Bottom/Mid-Flood 19-Apr-2018 HK1823071-089 7.6		19-Apr-2018	HK1823071-088	7.0	 	
C2/Bottom/Mid-Flood Duplicate 19-Apr-2018 HK1823071-090 8.7	·	19-Apr-2018	HK1823071-089	7.6	 	
C3/Surface/Mid-Flood 19-Apr-2018 HK1823071-091 6.7		· ·	HK1823071-090	8.7	 	
C3/Surface/Mid-Flood Duplicate 19-Apr-2018 HK1823071-092 6.5		19-Apr-2018	HK1823071-091	6.7	 	
C3/Middle/Mid-Flood 19-Apr-2018 HK1823071-093 6.5		· ·	HK1823071-092	6.5	 	
C3/Middle/Mid-Flood Duplicate 19-Apr-2018 HK1823071-094 6.5	•	·	HK1823071-093	6.5	 	
C3/Bottom/Mid-Flood 19-Apr-2018 HK1823071-095 6.3		·	HK1823071-094	6.5	 	
40.4	-	· ·		6.3	 	
CK/Rottom/Mid_Flood Dunitosts 13-7AU-ZV10 FIN 10Z3U/1-U30 V.Z	C3/Bottom/Mid-Flood Duplicate	19-Apr-2018	HK1823071-096	6.2	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823071



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
sample ID											
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1582840)									
HK1823071-001	E1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	6.1	5.7	7.22			
HK1823071-011	G1/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	8.7	8.0	8.72			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1582841)									
HK1823071-021	I4/Middle/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	4.4	5.3	18.6			
HK1823071-031	F1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	4.5	3.5	24.3			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1582842)									
HK1823071-041	C2/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	8.0	9.0	11.7			
HK1823071-051	E1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	7.8	8.6	9.76			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1582843)									
HK1823071-061	I3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.8	3.8	0.00			
HK1823071-071	I4/Bottom/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	5.2	6.5	21.6			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1582844)									
HK1823071-081	F1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	5.4	6.4	17.5			
HK1823071-091	C3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	6.7	7.3	8.20			

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						
			Spike Spik		covery (%)	Recovery Limits (%)		RPDs (%)		
Method: Compound CAS Numb	r LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 15828	0)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 15828	1)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	97.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 15828	2)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 15828	3)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 15828	4)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	114		85	115		

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

Order number



CERTIFICATE OF ANALYSIS

· 1 of 6 Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD Laboratory : ALS Technichem (HK) Pty Ltd Page

· HK1823683 Work Order Contact · MR THOMAS WONG Contact : Richard Fung

· 11/F., Chung Shun Knitting Centre, 1 - 3 ; FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, Address Address

> Wing Yip Street, Kwai Chung, N.T., N.T. HONG KONG

Hong Kong

· Thomas.Wong@eno.com.hk richard.fung@alsglobal.com E-mail E-mail

+852 2610 1044 Telephone Telephone +852 2610 2021 Facsimile Facsimile

· 21-Apr-2018 Project : PACIFIC LIGHT CABLE NETWORK Quote number : HKE/1254/2018 Date received

> (PLCN) - DEEP WATER BAY · 25-Apr-2018

C-O-C number No. of samples Received

96

96 Site Analysed

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Position Authorised results for: Signatory the testing laboratory.

Fung Lim Chee, Richard **General Manager** Inorganics

Date of issue

Page Number : 2 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823683



Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1823683 supersedes any previous reports with this reference. Testing period is from 21-Apr-2018 to 25-Apr-2018. 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 HK1823683:

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

Page Number : 3 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823683



Analytical Results

			Solids (SS)		
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and	 	
	/ time	ID	Aggregate Properties		
E1/Surface/Mid-Ebb	21-Apr-2018	HK1823683-001	4.2	 	
E1/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-002	3.1	 	
E1/Middle/Mid-Ebb	21-Apr-2018	HK1823683-003	5.9	 	
E1/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-004	5.1	 	
E1/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-005	8.6	 	
E1/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-006	7.5	 	
G1/Surface/Mid-Ebb	21-Apr-2018	HK1823683-007	6.6	 	
G1/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-008	5.0	 	
G1/Middle/Mid-Ebb	21-Apr-2018	HK1823683-009	7.8	 	
G1/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-010	6.7	 	
G1/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-011	7.4	 	
G1/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-012	6.9	 	
I3/Surface/Mid-Ebb	21-Apr-2018	HK1823683-013	4.1	 	
I3/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-014	3.4	 	
I3/Middle/Mid-Ebb	21-Apr-2018	HK1823683-015	5.7	 	
I3/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-016	5.3	 	
I3/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-017	4.7	 	
I3/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-018	5.7	 	
I4/Surface/Mid-Ebb	21-Apr-2018	HK1823683-019	3.9	 	
I4/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-020	4.5	 	
I4/Middle/Mid-Ebb	21-Apr-2018	HK1823683-021	6.3	 	
I4/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-022	5.6	 	
I4/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-023	8.7	 	
I4/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-024	7.8	 	
B1/Surface/Mid-Ebb	21-Apr-2018	HK1823683-025	5.4	 	
B1/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-026	6.7	 	
B1/Middle/Mid-Ebb	21-Apr-2018	HK1823683-027	7.7	 	
B1/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-028	7.3	 	
B1/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-029	11.8	 	
B1/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-030	10.1	 	
F1/Surface/Mid-Ebb	21-Apr-2018	HK1823683-031	7.6	 	

Page Number : 4 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD



Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and	 	
	/ time	ID	Aggregate Properties		
F1/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-032	7.8	 	
F1/Middle/Mid-Ebb	21-Apr-2018	HK1823683-033	8.2	 	
F1/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-034	9.1	 	
F1/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-035	13.5	 	
F1/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-036	14.7	 	
C2/Surface/Mid-Ebb	21-Apr-2018	HK1823683-037	7.0	 	
C2/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-038	8.1	 	
C2/Middle/Mid-Ebb	21-Apr-2018	HK1823683-039	10.4	 	
C2/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-040	11.7	 	
C2/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-041	10.8	 	
C2/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-042	11.1	 	
C3/Surface/Mid-Ebb	21-Apr-2018	HK1823683-043	6.9	 	
C3/Surface/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-044	5.6	 	
C3/Middle/Mid-Ebb	21-Apr-2018	HK1823683-045	5.1	 	
C3/Middle/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-046	6.4	 	
C3/Bottom/Mid-Ebb	21-Apr-2018	HK1823683-047	11.9	 	
C3/Bottom/Mid-Ebb Duplicate	21-Apr-2018	HK1823683-048	11.5	 	
E1/Surface/Mid-Flood	21-Apr-2018	HK1823683-049	5.9	 	
E1/Surface/Mid-Flood Duplicate	21-Apr-2018	HK1823683-050	6.1	 	
E1/Middle/Mid-Flood	21-Apr-2018	HK1823683-051	6.3	 	
E1/Middle/Mid-Flood Duplicate	21-Apr-2018	HK1823683-052	6.1	 	
E1/Bottom/Mid-Flood	21-Apr-2018	HK1823683-053	7.1	 	
E1/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-054	7.7	 	
G1/Surface/Mid-Flood	21-Apr-2018	HK1823683-055	2.7	 	
G1/Surface/Mid-Flood Duplicate	21-Apr-2018	HK1823683-056	2.8	 	
G1/Middle/Mid-Flood	21-Apr-2018	HK1823683-057	4.3	 	
G1/Middle/Mid-Flood Duplicate	21-Apr-2018	HK1823683-058	3.2	 	
G1/Bottom/Mid-Flood	21-Apr-2018	HK1823683-059	3.6	 	
G1/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-060	3.1	 	
I3/Surface/Mid-Flood	21-Apr-2018	HK1823683-061	4.3	 	
I3/Surface/Mid-Flood Duplicate	21-Apr-2018	HK1823683-062	3.0	 	
I3/Middle/Mid-Flood	21-Apr-2018	HK1823683-063	3.7	 	
I3/Middle/Mid-Flood Duplicate	21-Apr-2018	HK1823683-064	3.8	 	

Page Number : 5 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD



Client sample ID Client sampling date Laboratory sample EAFED. Physical and Register Client sample ID Client sample	Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
Signethen Properties 180			LOR Unit	0.5 mg/L	 	
ISBRotromMid-Flood 21-Apr-2018 HK1823683-065 3.4 .	Client sample ID	, ,		<u>-</u>	 	
ISBEctomMis-Flood Duplicate						
MR-SurfaceMMR-Proof Deplicate 21-Apr-2018	I3/Bottom/Mid-Flood	· ·				
MiddledMid-Flood Duplicate	I3/Bottom/Mid-Flood Duplicate	· ·				
Middida/Mid-Flood Diplicate 21-Apr-2018	I4/Surface/Mid-Flood	· ·			 	
MM6delmMid-Flood Diplicate 21-Apr-2018	I4/Surface/Mid-Flood Duplicate	·			 	
MicRotromMid-Flood 21-Apr-2018	I4/Middle/Mid-Flood	<u>'</u>			 	
M/Botton/Mid-Flood 21-Apr-2018	I4/Middle/Mid-Flood Duplicate	· · · · · · · · · · · · · · · · · · ·	HK1823683-070	2.5	 	
B1/Surface/MicFlood	I4/Bottom/Mid-Flood	21-Apr-2018	HK1823683-071	4.0	 	
BiSurfaceMid-Flood Duplicate 21-Apr-2018	I4/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-072	3.5	 	
BYMiddeMid-Flood 21-Apr-2018 HK1823683-076 4.8	B1/Surface/Mid-Flood	21-Apr-2018	HK1823683-073	3.5	 	
B1/Middle/Mid-Flood Duplicate 21-Apr-2018 HK1823683-076 4.8	B1/Surface/Mid-Flood Duplicate	21-Apr-2018	HK1823683-074	4.6	 	
B1/Bottom/Mid-Flood Duplicate 21-Apr-2018 HK1823683-0778 4.2	B1/Middle/Mid-Flood	21-Apr-2018	HK1823683-075	5.2	 	
B1/Bottor/Mid-Flood Duplicate 21-Apr-2018 HK1823683-078 4.2 F1/Surface/Mid-Flood 21-Apr-2018 HK1823683-079 4.3 F1/Surface/Mid-Flood 21-Apr-2018 HK1823683-080 4.6	B1/Middle/Mid-Flood Duplicate	21-Apr-2018	HK1823683-076	4.8	 	
Fi/Surface/Mid-Flood 21-Apr-2018 HK1823683-080 4.8	B1/Bottom/Mid-Flood	21-Apr-2018	HK1823683-077	5.1	 	
F1/Surface/Mid-Flood Duplicate 21-Apr-2018 HK1823683-081 3.1	B1/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-078	4.2	 	
F1/Middle/Mid-Flood	F1/Surface/Mid-Flood	21-Apr-2018	HK1823683-079	4.3	 	
F1/Middle/Mid-Flood Duplicate 21-Apr-2018 HK1823683-082 3.6	F1/Surface/Mid-Flood Duplicate	21-Apr-2018	HK1823683-080	4.6	 	
F1/Bottom/Mid-Flood Duplicate 21-Apr-2018 HK1823683-084 5.9	F1/Middle/Mid-Flood	21-Apr-2018	HK1823683-081	3.1	 	
F1/Bottom/Mid-Flood Duplicate 21-Apr-2018 HK1823683-084 5.9	F1/Middle/Mid-Flood Duplicate	21-Apr-2018	HK1823683-082	3.6	 	
C2/Surface/Mid-Flood 21-Apr-2018 HK1823683-085 6.3	F1/Bottom/Mid-Flood	21-Apr-2018	HK1823683-083	6.2	 	
C2/Surface/Mid-Flood 21-Apr-2018 HK1823683-085 6.3 C2/Surface/Mid-Flood Duplicate 21-Apr-2018 HK1823683-086 5.0 C2/Middle/Mid-Flood 21-Apr-2018 HK1823683-087 5.6 C2/Middle/Mid-Flood Duplicate 21-Apr-2018 HK1823683-088 5.7	F1/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-084	5.9	 	
C2/Surface/Mid-Flood Duplicate 21-Apr-2018 HK1823683-086 5.0 <	•	21-Apr-2018	HK1823683-085	6.3	 	
C2/Middle/Mid-Flood 21-Apr-2018 HK1823683-088 5.6		21-Apr-2018	HK1823683-086	5.0	 	
C2/Middle/Mid-Flood Duplicate 21-Apr-2018 HK1823683-088 5.7 </td <td></td> <td>21-Apr-2018</td> <td>HK1823683-087</td> <td>5.6</td> <td> </td> <td> </td>		21-Apr-2018	HK1823683-087	5.6	 	
C2/Bottom/Mid-Flood 21-Apr-2018 HK1823683-089 7.2		21-Apr-2018	HK1823683-088	5.7	 	
C2/Bottom/Mid-Flood Duplicate 21-Apr-2018 HK1823683-090 6.1	·	21-Apr-2018	HK1823683-089	7.2	 	
C3/Surface/Mid-Flood 21-Apr-2018 HK1823683-091 2.6		· ·	HK1823683-090	6.1	 	
C3/Surface/Mid-Flood Duplicate 21-Apr-2018 HK1823683-092 2.9		· ·	HK1823683-091	2.6	 	
C3/Middle/Mid-Flood 21-Apr-2018 HK1823683-093 4.7		· ·		2.9	 	
C3/Middle/Mid-Flood Duplicate 21-Apr-2018 HK1823683-094 5.3	•	·		4.7	 	
C3/Bottom/Mid-Flood 21-Apr-2018 HK1823683-095 4.8		·		5.3	 	
0.4.1.00.40		· ·		4.8	 	
	C3/Bottom/Mid-Flood Duplicate	21-Apr-2018	HK1823683-096	5.5	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1823683



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
sample ID										
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1588764)								
HK1823683-001	E1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	4.2	4.1	0.00		
HK1823683-011	G1/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	7.4	7.8	5.23		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1588765)								
HK1823683-021	I4/Middle/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	6.3	6.2	2.01		
HK1823683-031	F1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	7.6	6.0	23.8		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1588766)								
HK1823683-041	C2/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	10.8	10.7	0.00		
HK1823683-051	E1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	6.3	6.6	5.03		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1588767)								
HK1823683-061	I3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	4.3	4.0	7.18		
HK1823683-071	I4/Bottom/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	4.0	4.2	7.32		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1588768)								
HK1823683-081	F1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.1	3.8	20.9		
HK1823683-091	C3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.6	3.3	22.8		

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

Matrix: WATER			Method Blank (ME	B) Report		Laboratory Control	l Spike (LCS) and Laborate	ory Control Sp	ike Duplicate (DCS) Report	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound CAS Nur	nber LO	R	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1588	764)										
EA025: Suspended Solids (SS)	0.5	5	mg/L	<0.5	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1588	765)										
EA025: Suspended Solids (SS)	0.8	5	mg/L	<0.5	20 mg/L	108		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1588	766)										
EA025: Suspended Solids (SS)	0.9	5	mg/L	<0.5	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1588	767)										
EA025: Suspended Solids (SS)	0.9	5	mg/L	<0.5	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1588	768)										
EA025: Suspended Solids (SS)	0.9	5	mg/L	<0.5	20 mg/L	112		85	115		

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

Address



CERTIFICATE OF ANALYSIS

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 6

Contact : MR THOMAS WONG Contact : Richard Fung Work Order : HK1826273

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Project : PACIFIC LIGHT CABLE NETWORK Quote number : HKE/1254/2018 Date received : 24-Apr-2018

(PLCN) - DEEP WATER BAY

Order number : — Date of issue : 27-Apr-2018

C-O-C number : — No. of samples - Received : 96

Site : — - Analysed : 96

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the testing laboratory.

Signatory Position Authorised results for:

Fung Lim Chee, Richard General Manager Inorganics

Page Number : 2 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1826273



Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1826273 supersedes any previous reports with this reference. Testing period is from 24-Apr-2018 to 27-Apr-2018. 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 HK1826273:

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

Page Number : 3 of 6

Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1826273



Analytical Results

Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 		
		LOR Unit	0.5 mg/L	 		
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and	 		
	/ time	ID	Aggregate Properties			
E1/Surface/Mid-Ebb	24-Apr-2018	HK1826273-001	5.4	 		
E1/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-002	6.9	 		
E1/Middle/Mid-Ebb	24-Apr-2018	HK1826273-003	6.5	 		
E1/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-004	5.2	 		
E1/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-005	9.7	 		
E1/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-006	8.8	 		
G1/Surface/Mid-Ebb	24-Apr-2018	HK1826273-007	4.2	 		
G1/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-008	3.7	 		
G1/Middle/Mid-Ebb	24-Apr-2018	HK1826273-009	3.9	 		
G1/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-010	2.7	 		
G1/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-011	8.2	 		
G1/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-012	8.1	 		
I3/Surface/Mid-Ebb	24-Apr-2018	HK1826273-013	5.8	 		
I3/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-014	4.1	 		
I3/Middle/Mid-Ebb	24-Apr-2018	HK1826273-015	8.3	 		
I3/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-016	7.9	 		
I3/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-017	7.2	 		
I3/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-018	7.0	 		
I4/Surface/Mid-Ebb	24-Apr-2018	HK1826273-019	3.0	 		
I4/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-020	4.8	 		
I4/Middle/Mid-Ebb	24-Apr-2018	HK1826273-021	7.2	 		
I4/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-022	7.9	 		
I4/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-023	9.7	 		
I4/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-024	10.2	 		
B1/Surface/Mid-Ebb	24-Apr-2018	HK1826273-025	6.8	 		
B1/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-026	6.0	 		
B1/Middle/Mid-Ebb	24-Apr-2018	HK1826273-027	5.0	 		
B1/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-028	5.8	 		
B1/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-029	8.6	 		
B1/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-030	8.7	 		
F1/Surface/Mid-Ebb	24-Apr-2018	HK1826273-031	4.3	 		

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD



Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
	/ time	ID			
F1/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-032	4.1	 	
F1/Middle/Mid-Ebb	24-Apr-2018	HK1826273-033	5.0	 	
F1/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-034	5.2	 	
F1/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-035	6.7	 	
F1/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-036	5.0	 	
C2/Surface/Mid-Ebb	24-Apr-2018	HK1826273-037	3.1	 	
C2/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-038	3.6	 	
C2/Middle/Mid-Ebb	24-Apr-2018	HK1826273-039	5.4	 	
C2/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-040	3.8	 	
C2/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-041	6.7	 	
C2/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-042	5.7	 	
C3/Surface/Mid-Ebb	24-Apr-2018	HK1826273-043	6.3	 	
C3/Surface/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-044	6.2	 	
C3/Middle/Mid-Ebb	24-Apr-2018	HK1826273-045	6.2	 	
C3/Middle/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-046	7.2	 	
C3/Bottom/Mid-Ebb	24-Apr-2018	HK1826273-047	6.7	 	
C3/Bottom/Mid-Ebb Duplicate	24-Apr-2018	HK1826273-048	6.0	 	
E1/Surface/Mid-Flood	24-Apr-2018	HK1826273-049	6.4	 	
E1/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-050	6.7	 	
E1/Middle/Mid-Flood	24-Apr-2018	HK1826273-051	7.1	 	
E1/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-052	8.2	 	
E1/Bottom/Mid-Flood	24-Apr-2018	HK1826273-053	7.6	 	
E1/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-054	7.8	 	
G1/Surface/Mid-Flood	24-Apr-2018	HK1826273-055	7.6	 	
G1/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-056	6.2	 	
G1/Middle/Mid-Flood	24-Apr-2018	HK1826273-057	9.0	 	
G1/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-058	8.8	 	
G1/Bottom/Mid-Flood	24-Apr-2018	HK1826273-059	13.9	 	
G1/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-060	13.6	 	
I3/Surface/Mid-Flood	24-Apr-2018	HK1826273-061	6.0	 	
I3/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-062	5.6	 	
I3/Middle/Mid-Flood	24-Apr-2018	HK1826273-063	5.3	 	
I3/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-064	5.0	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD



Sub-Matrix: MARINE WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	0.5 mg/L	 	
Client sample ID	Client sampling date	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
	/ time	ID	Aggregate Properties		
I3/Bottom/Mid-Flood	24-Apr-2018	HK1826273-065	8.4	 	
l3/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-066	8.3	 	
I4/Surface/Mid-Flood	24-Apr-2018	HK1826273-067	4.5	 	
I4/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-068	4.3	 	
I4/Middle/Mid-Flood	24-Apr-2018	HK1826273-069	3.7	 	
I4/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-070	3.6	 	
I4/Bottom/Mid-Flood	24-Apr-2018	HK1826273-071	6.0	 	
I4/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-072	5.9	 	
B1/Surface/Mid-Flood	24-Apr-2018	HK1826273-073	5.5	 	
B1/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-074	5.4	 	
B1/Middle/Mid-Flood	24-Apr-2018	HK1826273-075	7.2	 	
B1/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-076	5.8	 	
B1/Bottom/Mid-Flood	24-Apr-2018	HK1826273-077	7.8	 	
B1/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-078	7.6	 	
F1/Surface/Mid-Flood	24-Apr-2018	HK1826273-079	4.5	 	
F1/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-080	5.0	 	
F1/Middle/Mid-Flood	24-Apr-2018	HK1826273-081	4.9	 	
F1/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-082	4.3	 	
F1/Bottom/Mid-Flood	24-Apr-2018	HK1826273-083	6.3	 	
F1/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-084	6.6	 	
C2/Surface/Mid-Flood	24-Apr-2018	HK1826273-085	4.8	 	
C2/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-086	3.9	 	
C2/Middle/Mid-Flood	24-Apr-2018	HK1826273-087	7.9	 	
C2/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-088	7.7	 	
C2/Bottom/Mid-Flood	24-Apr-2018	HK1826273-089	7.2	 	
C2/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-090	8.1	 	
C3/Surface/Mid-Flood	24-Apr-2018	HK1826273-091	4.6	 	
C3/Surface/Mid-Flood Duplicate	24-Apr-2018	HK1826273-092	3.7	 	
C3/Middle/Mid-Flood	24-Apr-2018	HK1826273-093	8.0	 	
C3/Middle/Mid-Flood Duplicate	24-Apr-2018	HK1826273-094	7.5	 	
C3/Bottom/Mid-Flood	24-Apr-2018	HK1826273-095	7.0	 	
C3/Bottom/Mid-Flood Duplicate	24-Apr-2018	HK1826273-096	7.2	 	

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Client : ENOVATIVE ENVIRONMENTAL SERVICE LTD

Work Order HK1826273

ALS

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
sample ID										
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1594286)								
HK1826273-001	E1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	5.4	6.1	11.7		
HK1826273-011	G1/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	8.2	9.4	14.2		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1594287)								
HK1826273-021	I4/Middle/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	7.2	8.4	15.5		
HK1826273-031	F1/Surface/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	4.3	4.7	10.0		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1594288)								
HK1826273-041	C2/Bottom/Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	6.7	6.2	7.75		
HK1826273-051	E1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	7.1	7.1	0.00		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1594289)								
HK1826273-061	I3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	6.0	6.6	7.94		
HK1826273-071	I4/Bottom/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	6.0	5.1	15.8		
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 1594290)								
HK1826273-081	F1/Middle/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	4.9	3.9	22.2		
HK1826273-091	C3/Surface/Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	4.6	4.8	3.73		

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

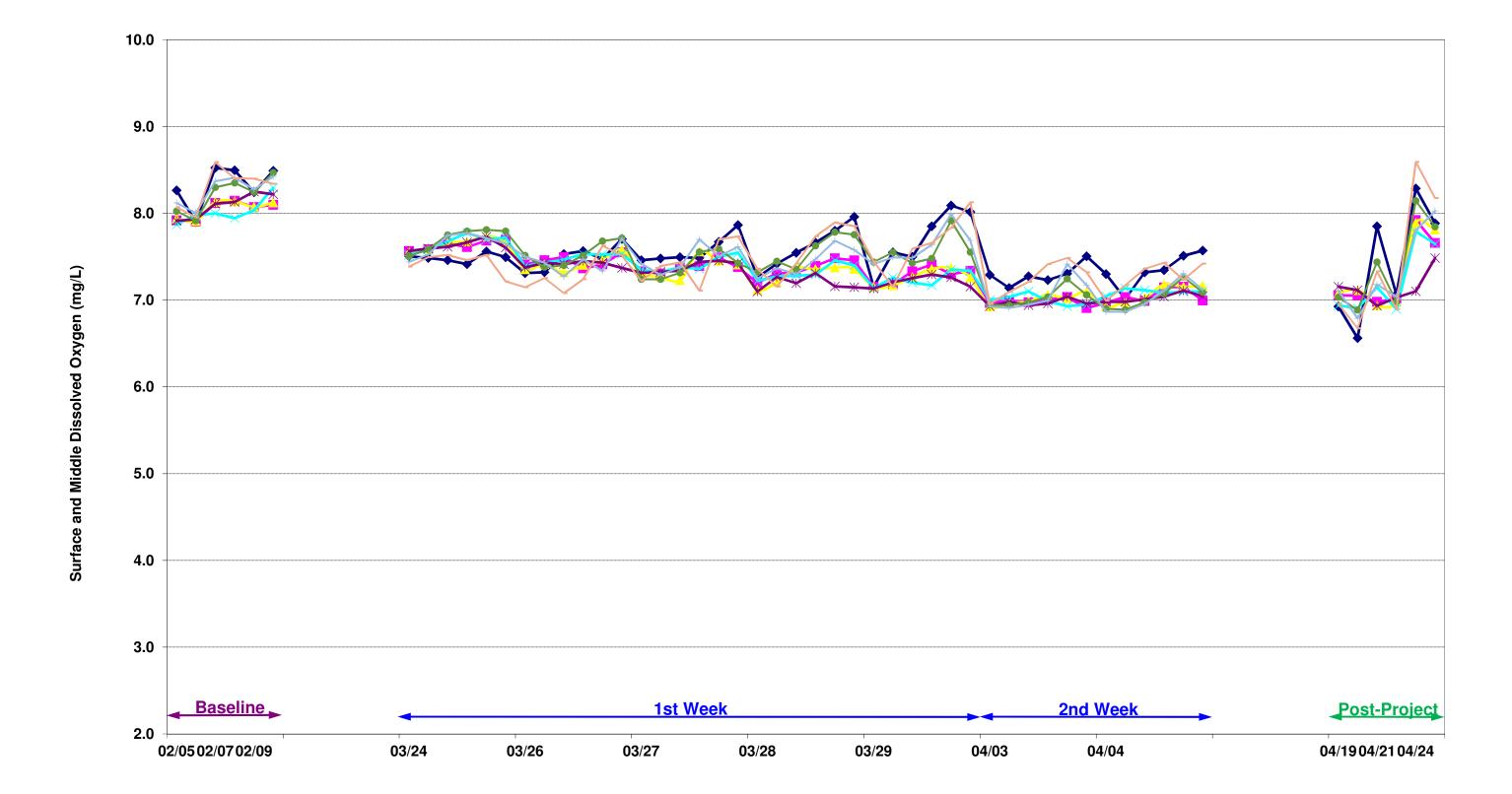
Matrix: WATER		Method Blank (M	B) Report		Laboratory Cont	rol Spike (LCS) and Labor	ratory Control Sp	ike Duplicate (DCS) Report	
				Spike	Spike R	ecovery (%)	Recovery	Limits (%)	RPD	Os (%)
Method: Compound CAS Nun	ber LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1594	286)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1594	287)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	112		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1594	288)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	88.0		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1594	289)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 1594	290)									
EA025: Suspended Solids (SS)	0.5	mg/L	<0.5	20 mg/L	100		85	115		

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

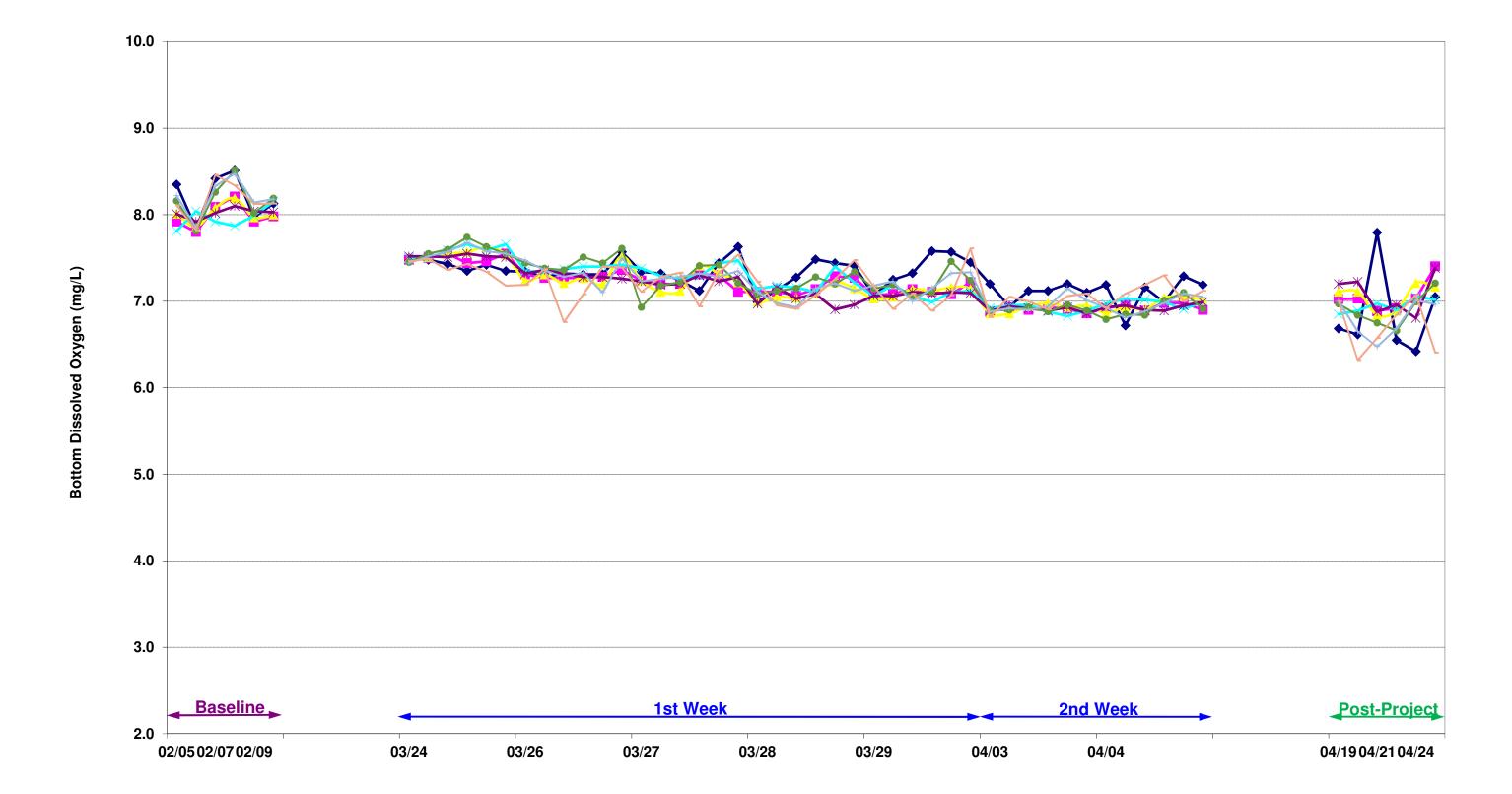
• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Annex D

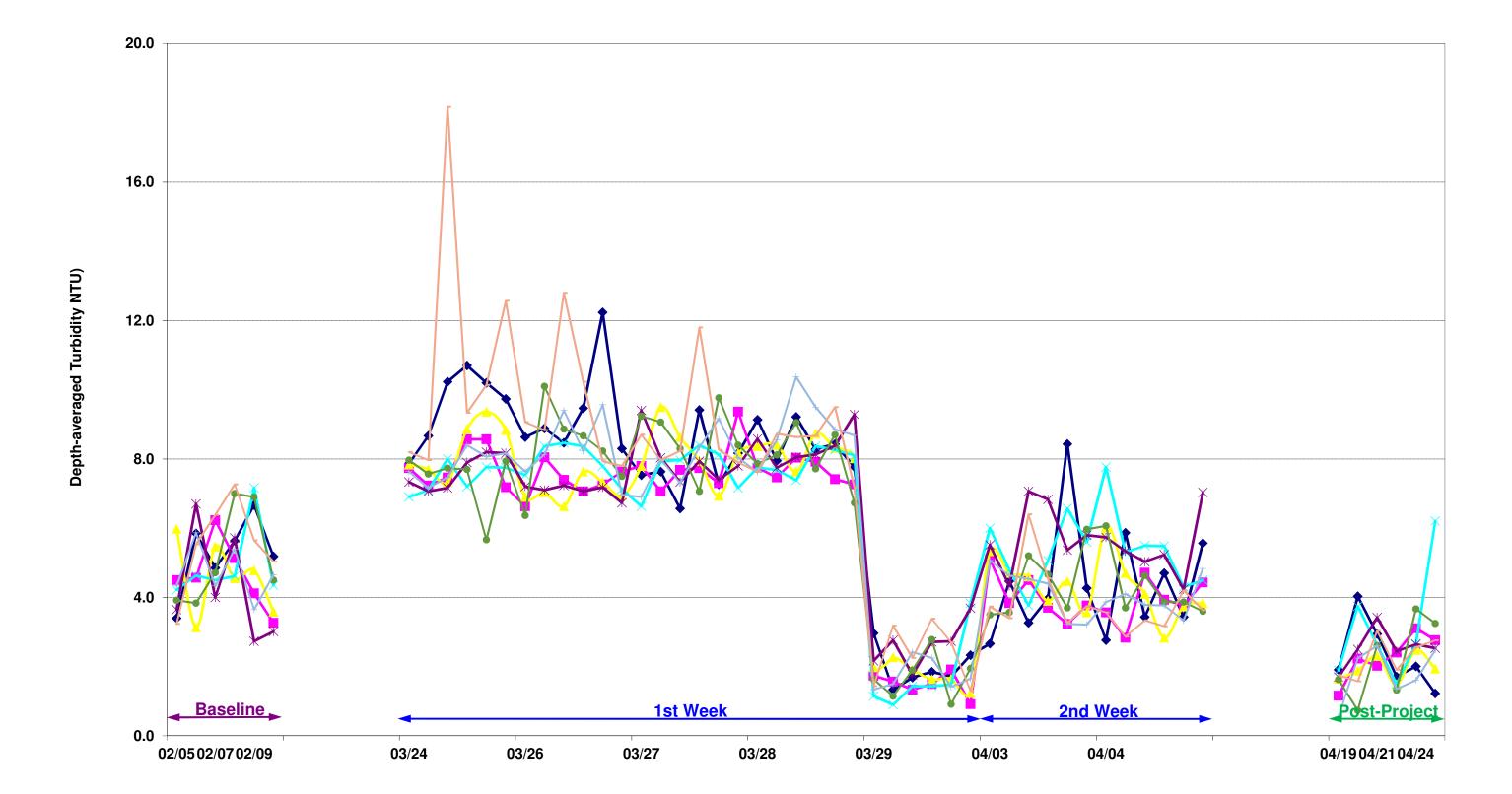
Phase 1 - Post-Project Water Quality Monitoring Results



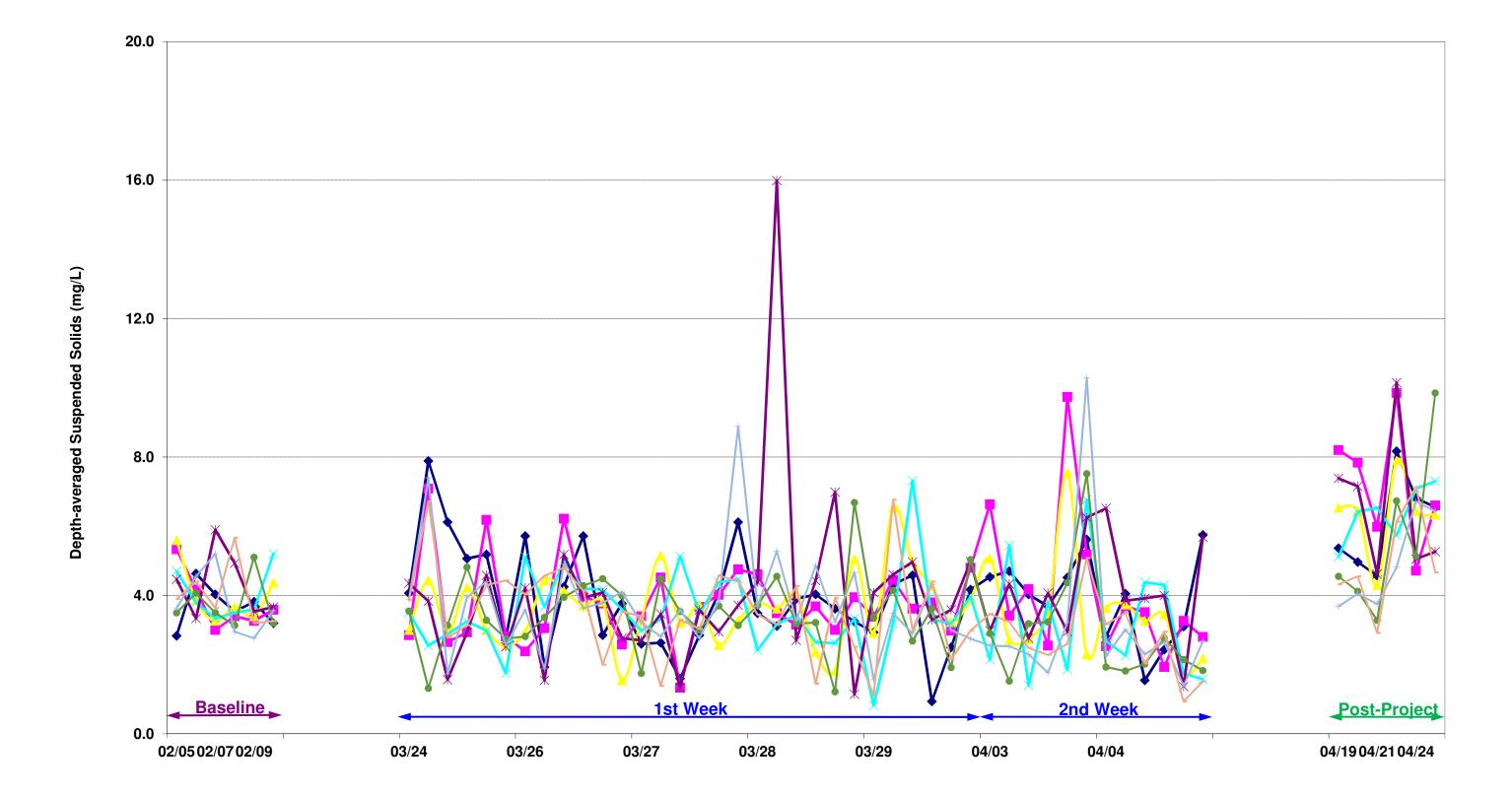














Action Level						TSS	DO Saturation	Dissolved Oxygen	Turbidity	Surface and Mid-depth Dissolved Oxygen	Bottom Dissolved Oxygen	Depth-Averaged	Depth- Averaged
Limit Level Fed dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. Values also underlined. Fed dot to the left of data point indicates trigger of Action Level. Values also underlined. Values also underl	Action Level					(mg/L)	(%)	(mg/L)	(NTU)	(mg/L) <7.88	(mg/L)	Turbidity (NTU)	SS (mg/L) >6.97
Vellow dot to the left of data point indicates trigger of Action Level. Values also underlined. Vellow and to the left of data point indicates trigger of Action Level. Values also underlined. Tide Stallon Time Level													>7.22
Date	Red dot to												
Date Tide Station Time Level			•				el. Values	also underl	ined.				
2018-Apr-19 Mid-Ebb E1)				no exceed	dance.							
2018-Apri-19 Mid-Ebb E1 14:15 Middle 4.5 97.0 6.87 1.3 2018-Apri-19 Mid-Ebb E1 14:15 Middle 5.8 97.0 6.87 1.3 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb E1 12:59 Surface 4.3 101.2 7.16 0.8 7.16 7.20 1.7 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 7.16 7.20 1.7 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 7.76 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 7.76 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.0 7.15 0.7 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.0 7.15 0.7 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.3 101.0 7.15 0.7 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.5 97.6 6.91 0.9 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.6 99.5 6.94 0.6 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.6 94.3 6.88 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Surface 8.0 100.1 7.07 1.1 7.06 7.03 1.2 2018-Apri-19 Mid-Ebb B1 13:42 Surface 8.0 100.1 7.07 1.1 7.06 7.03 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.6 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.6 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.6 2018-Apri-19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.6 2018-Apri-19 Mid-Ebb C3 13:05 Surface 2.4 10:16 7.7 99.7 7.07 1.6 2018-Apri-19 Mid-Ebb													
2018-Apri-19 Mid-Ebb E1 14:15 Middle 4.5 97.0 6.87 1.2 2018-Apri-19 Mid-Ebb E1 14:15 Middle 5.8 97.0 6.87 1.3 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.8 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018-Apri-19 Mid-Ebb F1 12:59 Surface 4.5 101.2 7.16 0.8 7.16 7.20 1.7 2018-Apri-19 Mid-Ebb F1 12:59 Middle 6.0 101.0 7.15 0.7 2018-Apri-19 Mid-Ebb F1 12:59 Middle 6.0 101.0 7.15 0.7 2018-Apri-19 Mid-Ebb F1 12:59 Bottom 11.5 101.4 7.19 3.6 2018-Apri-19 Mid-Ebb F1 12:59 Bottom 11.7 101.7 7.21 3.6 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 2018-Apri-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.68 4.2 2018-Apri-19 Mid-Ebb B2 B1 13:42 Bottom 6.6 99.3 97.6 6.91 0.9 2018-Apri-19 Mid-Ebb B2 B2 13:16 Surface 8.0 100.1 7.07 1.1 0.06 7.03 1.2 2018-Apri-19 Mid-Ebb C2 13:16 Middle 7.5 99.4 7.04 0.8 2018-Apri-19 Mid-Ebb C2 13:16 Middle 8.8 99.4 7.04 0.8 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 7.08 7.11 1.7 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 7.08 7.11 1.7 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 7.08 7.11 1.7 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 7.08 7.11 1.9 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 9.0 0.1 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.5 9.0 0.1 2018-Apri-19 Mid-Ebb C3 13:05 Surface 5.0 0.0 0.0 0.1 2018-Apri-19 Mid-Ebb C3 1											6.85	1 .9	5.12
2018 Apri 19 Mid-Ebb E1 14:15 Bottom 4.8 97.0 6.87 1.3 2018 Apri 19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018 Apri 19 Mid-Ebb E1 14:15 Bottom 4.7 96.7 6.85 4.2 2018 Apri 19 Mid-Ebb E1 12:59 Surface 4.5 101.2 7.16 0.8 7.20 1.7 2018 Apri 19 Mid-Ebb F1 12:59 Surface 4.3 101.2 7.16 0.8 2018 Apri 19 Mid-Ebb F1 12:59 Middle 6.0 101.0 7.15 0.7 2018 Apri 19 Mid-Ebb F1 12:59 Middle 6.3 101.0 7.15 0.7 2018 Apri 19 Mid-Ebb F1 12:59 Bottom 11.5 101.4 7.19 3.6 2018 Apri 19 Mid-Ebb F1 12:59 Bottom 11.5 101.4 7.19 3.6 2018 Apri 19 Mid-Ebb B1 12:59 Bottom 11.7 101.7 7.21 3.6 2018 Apri 19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018 Apri 19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018 Apri 19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.91 0.9 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.88 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.88 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.88 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.6 94.3 6.89 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.8 94.3 6.89 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.8 94.3 6.89 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.8 94.3 6.89 4.2 2018 Apri 19 Mid-Ebb B1 13:42 Bottom 6.8 94.3 6.89 4.2 2018 Apri 19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.1 7.06 7.03 1.2 2018 Apri 19 Mid-Ebb C2 13:16 Middle 8.8 99.4 7.04 0.8 2018 Apri 19 Mid-Ebb C2 13:16 Surface 8.0 100.1 7.07 1.2 2018 Apri 19 Mid-Ebb C2 13:16 Bottom 8.0 99.1 7.02 1.6 2018 Apri 19 Mid-Ebb C3 13:05 Surface 6.1 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.07 1.6 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 5.7 100.2 7.09 1.4 2018 Apri 19 Mid-Ebb C3 13:05 Surface 2.4 101.8 7.10 0.2 7.11 1.9 2018 Apri 19 Mid-Ebb C3 13:05 Surface 2.3 10.0 0.0 0.1 2018 Apri 19 Mid-Ebb C3 13:05 Surface 2.3 10.0 0.0 0.1 2018 Apri 19 Mid-Ebb C4 13													
2018-Apr-19 Mid-Ebb E1													
2018-Apr-19 Mid-Ebb F1 12:59 Surface 4.5 101.2 7.16 0.8 7.16 7.20 1.7 2018-Apr-19 Mid-Ebb F1 12:59 Middle 6.3 101.2 7.16 0.8 7.16 7.20 1.7 2018-Apr-19 Mid-Ebb F1 12:59 Middle 6.3 101.0 7.15 0.7 2018-Apr-19 Mid-Ebb F1 12:59 Middle 6.3 101.0 7.15 0.7 2018-Apr-19 Mid-Ebb F1 12:59 Bottom 11.5 101.4 7.19 3.6 2018-Apr-19 Mid-Ebb F1 12:59 Bottom 11.7 101.7 7.21 3.6 2018-Apr-19 Mid-Ebb B1 13:42 Surface 4.3 98.7 6.94 0.6 6.93 6.69 1.9 2018-Apr-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 6.94 0.6 6.93 6.69 1.9 2018-Apr-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 6.91 0.9 2018-Apr-19 Mid-Ebb B1 13:42 Middle 5.9 97.6 6.91 0.9 2018-Apr-19 Mid-Ebb B1 13:42 Surface 4.6 98.5 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.6 6.94 0.9													
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2018-Apr-19 Mid-Flood I4 08:36 Surface 3.6 94.9 6.72 0.5 6.68 6.32 1.6 4.55 2018-Apr-19 Mid-Flood I4 08:36 Surface 4.8 94.8 6.72 0.5 6.68 6.32 1.6 4.55 2018-Apr-19 Mid-Flood I4 08:36 Middle 3.6 93.7 6.64 1.2 2018-Apr-19 Mid-Flood I4 08:36 Middle 4.3 93.4 6.62 1.2 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.2 88.9 6.30 3.0 2018-Apr-19 Mid-Flood G1 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19												
2018-Apr-19 Mid-Flood I4 08:36 Surface 4.8 94.8 6.72 0.5 2018-Apr-19 Mid-Flood I4 08:36 Middle 3.6 93.7 6.64 1.2 2018-Apr-19 Mid-Flood I4 08:36 Middle 4.3 93.4 6.62 1.2 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.2 88.9 6.30 3.0 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3										0.00	1.0	4.55
2018-Apr-19 Mid-Flood I4 08:36 Middle 3.6 93.7 6.64 1.2 2018-Apr-19 Mid-Flood I4 08:36 Middle 4.3 93.4 6.62 1.2 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.2 88.9 6.30 3.0 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0										6.32	1.6	4.55
2018-Apr-19 Mid-Flood I4 08:36 Middle 4.3 93.4 6.62 1.2 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.2 88.9 6.30 3.0 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												
2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.2 88.9 6.30 3.0 2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												
2018-Apr-19 Mid-Flood I4 08:36 Bottom 5.8 89.4 6.34 3.1 2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												
2018-Apr-19 Mid-Flood G1 08:25 Surface 4.7 97.3 6.90 0.5 6.89 6.84 0.7 4.12 2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												
2018-Apr-19 Mid-Flood G1 08:25 Surface 3.6 97.3 6.90 0.5 2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0										6.84	0.7	■ // 12
2018-Apr-19 Mid-Flood G1 08:25 Middle 3.7 97.0 6.87 0.6 2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0										-0.04	0 .1	7.12
2018-Apr-19 Mid-Flood G1 08:25 Middle 4.0 96.9 6.87 0.7 2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												
2018-Apr-19 Mid-Flood G1 08:25 Bottom 3.9 96.5 6.84 1.0												

									Surface and Mid-depth	Bottom		
						DO	Dissolved		Dissolved	Dissolved		Depth-
					TSS	Saturation		Turbidity	Oxygen	Oxygen	Depth-Averaged	Averaged
					(mg/L)	(%)	(mg/L)	(NTU)	(mg/L)	(mg/L)	Turbidity (NTU)	SS (mg/L)
Action Level					<u>, , , , , , , , , , , , , , , , , , , </u>	•	, ,	,	<7.88	<7.81	<u>>5.5</u>	<u>>6.97</u>
Limit Level		-1-1				/-l	-1	- 1 - 1	<7.84	<7.80	>5.8	>7.22
			nt indicates tr									
		•	oint indicates			ei. vaiues	aiso underi	inea.				
_	Tide		oint indicates		dance.							
Date 2018-Apr-21	Mid-Ebb	Station E1	Time 15:44	Level Surface	5.9	103.5	7.31	2.0	7.15	6.98	2.6	6.53
	Mid-Ebb	E1	15:44	Surface	6.1	103.3				0.50	2.0	0.55
	Mid-Ebb	E1	15:44	Middle	6.3							
	Mid-Ebb	E1	15:44	Middle	6.1	98.4						
•	Mid-Ebb	E1	15:44	Bottom	7.1	98.1	6.97					
	Mid-Ebb	E1	15:44	Bottom	7.7		6.98					
	Mid-Ebb	F1	14:24	Surface	4.3	98.8	6.97	1.8	6.94	6.88	3.4	4.62
2018-Apr-21	Mid-Ebb	F1	14:24	Surface	4.6	98.8	6.97					
	Mid-Ebb	F1	14:24	Middle	3.1	97.7						
	Mid-Ebb	F1	14:24	Middle	3.6							
	Mid-Ebb	F1	14:24	Bottom	6.2							
	Mid-Ebb	F1	14:24	Bottom	5.9							
	Mid-Ebb	B1	15:09	Surface	3.5					7.80	2.9	4.57
•	Mid-Ebb	B1	15:09	Surface	4.6							
	Mid-Ebb	B1	15:09	Middle	5.2							
	Mid-Ebb Mid-Ebb	B1 B1	15:09 15:09	Middle Bottom	4.8 5.1	112.5 111.1	7.87 7.80					
	Mid-Ebb	B1	15:09	Bottom	5.1 4.2							
	Mid-Ebb	C2	14:45	Surface	6.3					6.89	2.0	5.98
	Mid-Ebb	C2	14:45	Surface	5.0					0.03	2.0	0.00
	Mid-Ebb	C2	14:45	Middle	5.6							
•	Mid-Ebb	C2	14:45	Middle	5.7							
•	Mid-Ebb	C2	14:45	Bottom	7.2							
	Mid-Ebb	C2	14:45	Bottom	6.1	97.4	6.89	2.4	ļ			
	Mid-Ebb	C3	14:32	Surface	2.6	99.9	7.03	1.1	6.94	6.84	2.3	4.30
•	Mid-Ebb	C3	14:32	Surface	2.9							
	Mid-Ebb	C3	14:32	Middle	4.7							
	Mid-Ebb	C3	14:32	Middle	5.3							
	Mid-Ebb	C3	14:32	Bottom	4.8							
	Mid-Ebb	C3	14:32	Bottom	5.5					C 40	0.0	0.75
	Mid-Ebb Mid-Ebb	13	15:23	Surface Surface	4.3				7.18	6.48	2.6	3.75
	Mid-Ebb	13 13	15:23 15:23	Surrace Middle	3.0 3.7							
	Mid-Ebb	13 13	15:23	Middle	3.7 3.8							
	Mid-Ebb	13 13	15:23	Bottom	3.4							
	Mid-Ebb	13	15:23	Bottom	4.3							
	Mid-Ebb	14	15:16	Surface	2.7					6.58	3.0	2.92
	Mid-Ebb	14	15:16	Surface	2.7						_	-
	Mid-Ebb	14	15:16	Middle	2.1	102.0						
2018-Apr-21	Mid-Ebb	14	15:16	Middle	2.5	101.9	7.18	3.3	3			
2018-Apr-21	Mid-Ebb	14	15:16	Bottom	4.0		6.57					
	Mid-Ebb	14	15:16	Bottom	3.5							
•	Mid-Ebb	G1	15:29	Surface	2.7					6.75	2.6	3.28
	Mid-Ebb	G1	15:29	Surface	2.8							
	Mid-Ebb	G1	15:29	Middle	4.3							
	Mid-Ebb	G1	15:29	Middle	3.2							
•	Mid-Ebb	G1	15:29	Bottom	3.6							
2018-Apr-21	Mid-Ebb	G1	15:29	Bottom	3.1	94.8	6.75	3.3)			

				TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth- Averaged SS (mg/L)
Action Level				· · · · ·	7	, ,		<7.88	<u><7.81</u>	<u>>5.5</u>	>6.97
Limit Level	the lett of data point	indicatos ti	riggor of Li	mit Lovol	Values also	chown in h	oold	<7.84	<7.80	>5.8	>7.22
	the left of data point to the left of data po										
	to the left of data po				ei. Vaiues	aiso unuen	irieu.				
Date	Tide Station	Time	Level	uance.							
2018-Apr-21	Mid-Flood E1	09:21	Surface	4.2	97.5	6.89	1.4	6.90	6.90	1.5	5.73
	Mid-Flood E1	09:21	Surface	3.1	97.4				0.00	1.0	0.70
	Mid-Flood E1	09:21	Middle	5.9							
	Mid-Flood E1	09:21	Middle	5.1	97.6						
	Mid-Flood E1	09:21	Bottom	8.6							
	Mid-Flood E1	09:21	Bottom	7.5							
	Mid-Flood F1	10:55	Surface	7.6					6.96	2.4	10.15
	Mid-Flood F1	10:55	Surface	7.8						•	
	Mid-Flood F1	10:55	Middle	8.2							
	Mid-Flood F1	10:55	Middle	9.1	98.6						
	Mid-Flood F1	10:55	Bottom	13.5							
· ·	Mid-Flood F1	10:55	Bottom	14.7							
	Mid-Flood B1	10:13	Surface	5.4				7 07.07	6.55	1.7	8.17
	Mid-Flood B1	10:13	Surface	6.7				_			
	Mid-Flood B1	10:13	Middle	7.7							
	Mid-Flood B1	10:13	Middle	7.3							
	Mid-Flood B1	10:13	Bottom	11.8							
	Mid-Flood B1	10:13	Bottom	10.1	92.8						
	Mid-Flood C2	10:34	Surface	7.0					6.92	2.4	9.85
	Mid-Flood C2	10:34	Surface	8.1	100.1	7.06					
	Mid-Flood C2	10:34	Middle	10.4							
2018-Apr-21	Mid-Flood C2	10:34	Middle	11.7							
	Mid-Flood C2	10:34	Bottom	10.8							
	Mid-Flood C2	10:34	Bottom	11.1	97.8						
	Mid-Flood C3	10:45	Surface	6.9					6.89	1.5	7.90
	Mid-Flood C3	10:45	Surface	5.6							
2018-Apr-21	Mid-Flood C3	10:45	Middle	5.1	97.7						
	Mid-Flood C3	10:45	Middle	6.4	97.6						
	Mid-Flood C3	10:45	Bottom	11.9	97.4	6.89	1.8	3			
•	Mid-Flood C3	10:45	Bottom	11.5							
	Mid-Flood I3	09:56	Surface	4.1	101.8				6.69	1.4	4.82
	Mid-Flood I3	09:56	Surface	3.4			1.2	2			
	Mid-Flood I3	09:56	Middle	5.7	97.9	6.91					
	Mid-Flood I3	09:56	Middle	5.3	97.8						
•	Mid-Flood I3	09:56	Bottom	4.7	94.6		1.4	ļ			
	Mid-Flood I3	09:56	Bottom	5.7							
	Mid-Flood I4	10:04	Surface	3.9					6.85	1.9	6.13
	Mid-Flood I4	10:04	Surface	4.5							
	Mid-Flood I4	10:04	Middle	6.3							
	Mid-Flood I4	10:04	Middle	5.6							
	Mid-Flood I4	10:04	Bottom	8.7							
	Mid-Flood I4	10:04	Bottom	7.8							
•	Mid-Flood G1	09:50	Surface	6.6					6.66	1.3	6.73
•	Mid-Flood G1	09:50	Surface	5.0							
•	Mid-Flood G1	09:50	Middle	7.8							
	Mid-Flood G1	09:50	Middle	6.7							
•	Mid-Flood G1	09:50	Bottom	7.4							
2018-Apr-21	Mid-Flood G1	09:50	Bottom	6.9	94.3	6.66	1.1				

									Surface and Mid-depth	Bottom		
						DO	Dissolved		Dissolved	Dissolved		Depth-
					TSS	Saturation		Turbidity	Oxygen	Oxygen	Depth-Averaged	Averaged
					(mg/L)	(%)	(mg/L)	(NTU)	(mg/L)	(mg/L)	Turbidity (NTU)	SS (mg/L)
Action Level					(1119/12)	(70)	(g/ =/	(<7.88	<7.81	>5.5	>6.97
Limit Level									<7.84	<7.80	>5.8	>7.22
			nt indicates tr									
			oint indicates			el. Values	also underl	ined.				
_			oint indicates		dance.							
Date	Tide	Station	Time	Level								
	Mid-Ebb	E1	19:23	Surface	5.4					7.06	2.7	<u>7.08</u>
2018-Apr-24		E1	19:23	Surface	6.9							
2018-Apr-24		E1	19:23	Middle	6.5							
2018-Apr-24		E1 E1	19:23 19:23	Middle Bottom	5.2 9.7							
2018-Apr-24 2018-Apr-24		E1	19.23	Bottom	9.7 8.8							
2018-Apr-24		F1	18:13	Surface	4.3					6.81	2.6	5.05
2018-Apr-24		F1	18:13	Surface	4.1	104.0				-0.01		3 0.00
	Mid-Ebb	F1	18:13	Middle	5.0							
2018-Apr-24		F1	18:13	Middle	5.2							
2018-Apr-24		F1	18:13	Bottom	6.7		6.80					
2018-Apr-24		F1	18:13	Bottom	5.0	96.1	6.81	4.4	ļ			
2018-Apr-24		B1	18:50	Surface	6.8		8.67			6.42	2.0	6.82
2018-Apr-24		B1	18:50	Surface	6.0							
2018-Apr-24		B1	18:50	Middle	5.0							
2018-Apr-24		B1	18:50	Middle	5.8							
2018-Apr-24		B1	18:50	Bottom	8.6							
2018-Apr-24		B1	18:50	Bottom	8.7					7 00		4.70
2018-Apr-24		C2	18:30	Surface	3.1	122.8				7.03	3.1	4.72
2018-Apr-24		C2	18:30	Surface	3.6		8.55					
2018-Apr-24 2018-Apr-24	Mid-Ebb	C2 C2	18:30 18:30	Middle Middle	5.4 3.8		7.28 7.27					
2018-Apr-24		C2	18:30	Bottom	6.7							
2018-Apr-24		C2	18:30	Bottom	5.7							
2018-Apr-24		C3	18:22	Surface	6.3					7.21	2.5	6.43
2018-Apr-24		C3	18:22	Surface	6.2					- 1-1		00
2018-Apr-24		C3	18:22	Middle	6.2							
2018-Apr-24		C3	18:22	Middle	7.2							
2018-Apr-24		C3	18:22	Bottom	6.7	101.8	7.20	1.4	ļ			
2018-Apr-24	Mid-Ebb	C3	18:22	Bottom	6.0		7.22					
2018-Apr-24		13	19:03	Surface	5.8					7.01	1.6	6.72
2018-Apr-24		13	19:03	Surface	4.1	122.1	8.57					
2018-Apr-24		13	19:03	Middle	8.3		7.00					
2018-Apr-24		13	19:03	Middle	7.9							
2018-Apr-24		13	19:03	Bottom	7.2							
2018-Apr-24		13 14	19:03	Bottom	7.0					7.08	2.6	7 10
2018-Apr-24 2018-Apr-24		14 14	18:54 18:54	Surface Surface	3.0 4.8					<u> </u>		<u>7.13</u>
2018-Apr-24		14 14	18:54	Middle	4.0 7.2							
2018-Apr-24		14 14	18:54	Middle	7.2 7.9							
2018-Apr-24		14	18:54	Bottom	9.7							
2018-Apr-24		14	18:54	Bottom	10.2		7.15					
2018-Apr-24		G1	19:09	Surface	4.2					7.00	3.7	5.13
2018-Apr-24		G1	19:09	Surface	3.7						_	
2018-Apr-24		G1	19:09	Middle	3.9							
2018-Apr-24	Mid-Ebb	G1	19:09	Middle	2.7	103.3						
2018-Apr-24		G1	19:09	Bottom	8.2							
2018-Apr-24	Mid-Ebb	G1	19:09	Bottom	8.1	99.1	7.01	5.9)			

				TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth- Averaged SS (mg/L)
Action Level				(g, <u>_</u>)	(70)	(g, <u>_</u>)	(1110)	<7.88	<7.81	<u>>5.5</u>	>6.97
Limit Level	the lett et dete neuet	i indicatas ti	viagor of Lu	mut Loval	/aluga alaa	oboure in k	a a l a	<7.84	<7.80	>5.8	>7.22
	the left of data point										
	to the left of data po				ei. vaiues	aiso unden	iriea.				
_	to the left of data po			uance.							
Date	Tide Station Mid-Flood E1	Time 12:33	Level Surface	6.4	108.1	7.61	21.0	7.65	7.02	6.2	7.30
	Mid-Flood E1	12:33	Surface	6.7					1.02	0.2	7.30
	Mid-Flood E1	12:33	Middle	7.1							
	Mid-Flood E1	12:33	Middle	8.2							
	Mid-Flood E1	12:33	Bottom	7.6							
	Mid-Flood E1	12:33	Bottom	7.8							
	Mid-Flood F1	13:55	Surface	4.5					7.39	2.5	5.27
	Mid-Flood F1	13:55	Surface	5.0		7.69					
	Mid-Flood F1	13:55	Middle	4.9							
	Mid-Flood F1	13:55	Middle	4.3							
	Mid-Flood F1	13:55	Bottom	6.3							
2018-Apr-24		13:55	Bottom	6.6							
	Mid-Flood B1	13:18	Surface	5.5					7.05	1.2	6.55
	Mid-Flood B1	13:18	Surface	5.4	122.0						
	Mid-Flood B1	13:18	Middle	7.2	103.7	7.32					
2018-Apr-24	Mid-Flood B1	13:18	Middle	5.8	103.7	7.32	1.2	<u>)</u>			
2018-Apr-24	Mid-Flood B1	13:18	Bottom	7.8	99.3	7.03	2.2	<u>)</u>			
2018-Apr-24	Mid-Flood B1	13:18	Bottom	7.6	99.9	7.07	2.1				
	Mid-Flood C2	13:38	Surface	4.8	112.2	7.89			7.41	2.8	6.60
2018-Apr-24	Mid-Flood C2	13:38	Surface	3.9	112.1	7.88	2.3	}			
	Mid-Flood C2	13:38	Middle	7.9		7.43					
	Mid-Flood C2	13:38	Middle	7.7							
2018-Apr-24	Mid-Flood C2	13:38	Bottom	7.2							
	Mid-Flood C2	13:38	Bottom	8.1	105.0		3.4				
	Mid-Flood C3	13:48	Surface	4.6				7.81	7.17	1 .9	6.33
	Mid-Flood C3	13:48	Surface	3.7		8.22					
	Mid-Flood C3	13:48	Middle	8.0							
	Mid-Flood C3	13:48	Middle	7.5							
	Mid-Flood C3	13:48	Bottom	7.0							
	Mid-Flood C3	13:48	Bottom	7.2						0.5	0 0 10
2018-Apr-24		13:03	Surface	6.0				8.03	6.97	2.5	6.43
2018-Apr-24		13:03	Surface	5.6							
2018-Apr-24		13:03	Middle	5.3		7.55					
2018-Apr-24		13:03	Middle	5.0							
2018-Apr-24		13:03	Bottom	8.4							
2018-Apr-24		13:03	Bottom	8.3					6 41	20	A 67
2018-Apr-24		13:10	Surface	4.5					6.41	2.8	4.67
2018-Apr-24 2018-Apr-24		13:10 13:10	Surface Middle	4.3 3.7							
2018-Apr-24 2018-Apr-24		13:10	Middle	3.7							
2018-Apr-24 2018-Apr-24		13:10	Bottom	3.6 6.0							
2018-Apr-24 2018-Apr-24		13:10	Bottom	5.9							
	Mid-Flood G1	13:10	Surface	7.6					7.21	3.3	9.85
	Mid-Flood G1	13:00	Surface	6.2					1.21	3 .0	9.00
	Mid-Flood G1	13:00	Middle	9.0							
		1.0.00	IVIIGGIE	9.0	100.4	7.50					
2018-Anr-24				дΩ	1በ3 1	7 2Q	1 5	;			
	Mid-Flood G1 Mid-Flood G1	13:00 13:00	Middle Bottom	8.8 13.9		7.28 7.20					

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