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TEST REPORT

DRAINAGE SERVICES DEPARTMENT

**CONTRACT NO. DC/2006/15 BUILDING AND
CIVIL MAINTENANCE AND MINOR WORKS OF
DSD PLANTS AND FACILITIES (2007-2009)**

**GROUNDWATER MONITORING AT
NGONG PING STW AND EFFLUENT EXPORT
PIPE**

MONTHLY EM&A REPORT

(AUGUST 2007)

Prepared by:

LAW, Sau Yee
Senior Environmental Officer

Checked and
Approved by:

LAU, Chi Leung
Environmental Team Leader

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**CH2MHILL**

Our Ref.: DSDSTPOPEM00_0_0091

Date: 21 September 2007

Consultants Management Division
Drainage Services Department
42/F., Revenue Tower,
5 Gloucester Road, Wan Chai,
Hong Kong

By mail and by Fax (2827 8526)

Attention : Mr. Mok Wing Cheong, Ringo

Dear Mr. Mok,

Re: Environmental Permit 157/2003/A
Contract No: DC/2006/15 Building and Civil Maintenance and Minor Works of DSD
Plants and Facilities
Monthly EM&A Report of Ground Water Monitoring for August 2007

Reference is made to the monthly EM&A Report prepared by ETS for the captioned project (report no. ENA70884). We are pleased to verify that the captioned report complied with the conditions 5.4 and 6.1 of the Environmental Permit.

Thank you very much for your attention and please feel free to contact the undersigned or our Mr. Roy Leung if you have any queries.

Yours sincerely,

Billy Yu
Independent Environmental Checker

c.c. Mr. Edwin Lam CE/HKI, DSD
Mr. C L Lau ETS

By Fax: 2827 6657
By Fax: 2695 3944



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EXECUTIVE SUMMARY

This monthly EM&A report (No.1) has been prepared by the Environmental Team (ET) of ETS-Testconsult Ltd for groundwater monitoring under "Contract No. DC/2006/15 Building and Civil Maintenance and Minor Works to DSD Plants and Facilities (2007-2009) – Groundwater Monitoring at Ngong Ping STW and Effluent Export Pipeline" (the Project) during the operation period from 01 to 31 August 2007.

Under the requirements of Section 5 of "the Environmental Permit (No. EP-157/2003/A)" (the EP), EM&A programme as set out in the EM&A Manual and the EIA Report (Register No.: AEIAR-065/2002) is required to be implemented. In accordance with the EM&A manual and the EIA Report, groundwater monitoring is required for the Project during operation phase

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- *Groundwater Monitoring: 1 Occasion at 9 designated boreholes.*

Groundwater Monitoring

Groundwater monitoring was carried out on 23 August 2007. During this monitoring, ground water was found in Borehole WM3 and the other boreholes were dry.

Test results of the groundwater during this monitoring show no contamination of ground water by any treated effluent. In other words, it is evident that there was no leakage of treated effluent from the Ngong Ping Sewage Treatment Works or its effluent export pipeline into the water gathering ground.

Environmental Complaints

No complaints were received in this reporting month.

Notification of summons and successful prosecutions

There were no notification of summons and prosecutions with respect to environmental issues in this month.

Future Key Issues

Future Key issues to be considered for the prevention of contamination of the water gathering ground are as follows:

- The provision of leakage containment system for the section of pipeline in the close proximity of the reservoir;
- Removing waste in a timely manner and disposing of outside the water gathering ground;
- Locating the chemical storage area at a safe environment with adequate space; and
- Reminding the workers not to discharge any sewage or wastewater into the nearby environment.



1.0 INTRODUCTION

The construction works of Ngong Ping Sewage Treatment Works (NPSTW) was certificated completed on 09 March 2006 and the NPSTW was handed over to "Drainage Sewage Department" (DSD) for operation and maintenance from 10 March 2006. "ETS-Testconsult Limited" (ETL) has been commissioned as Environmental Team (ET) to carry out groundwater monitoring at Ngong Ping according to the EM&A Manual.

This monthly EM&A report presents the results of groundwater monitoring during the reporting period from 01 to 31 August 2007.

2.0 PROJECT INFORMATION

2.1 Background

Master Plan (OI SMP) Study in December 1994 and drew up a SMP for Lantau Island, Cheung Chau, Lamma Island, Peng Chau and other smaller and less populated islands. The SMP comprises provisions for upgrading and expanding the sewerage systems to cover unsewered areas.

This sewerage project is the Stage 1 works under the OI SMP and can be divided into 3 packages as follows:

Package 1 – Ngong Ping STW with tertiary treatment

Package 2 – Ngong Ping main trunk sewer and effluent export pipeline

Package 3 – Ngong Ping village sewerage system

This Project only covers the operation phase of Package 1 and Package 2. The general layout plan of the project is shown in Appendix D (Drawing No. 23400/EN/098).

The existing treatment facilities at Ngong Ping include grease traps and septic tanks, with discharge locally to soakaways. Following the opening of the Statue of Buddha in December 1993, the number of visitors to Ngong Ping increased significantly. Besides, the Cable Car system linking Tung Chung and Ngong Ping was being planned for commissioning in June 2006. It will certainly further increase the number of visitors in Ngong Ping. The existing treatment and disposal facilities were found to be inadequate, with significant quantities of sewage being directly discharged into the local stream. It was under this setting that the recommendation to provide a local sewerage system and a centralised treatment system for Ngong Ping was put forward in the OI SMP in 1994.

The Project was planned, designed, operated and maintained by the DSD. During the operation phase of NPSTW, DSD will follow the environmental monitoring recommendation stated at the M&A Manual that was prepared with reference to the EIA Report (Register No.: AEIAR-065/2002) to avoid the contamination of the water gathering ground.

2.2 Site Description

The general layout plan of the project is shown in Appendix D. The groundwater monitoring locations are also shown in the Drawing No. 23400/T/202, 23400/T/074, 23400/T/075 and 23400/T/076.

2.3 Project Organization and Management Structure

The line of communication of project organization with respect to the on-site environmental management and monitoring program are shown in Appendix A.



2.4 Contact Details of Key Personnel

The key personnel contact names and telephone numbers, and construction programme are shown in table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel. No.	Fax No.
DSD	Contractor	Mr. P C Wu	2594 7199	2827 6657
CH2M HILL	Independent Environmental Checker	Mr. Billy Yu	2507 2203	2507 2293
ETL	Contractor's Environmental Team	Mr. C L Lau (ET Leader)	2946 7791	2695 3944

3.0 GROUNDWATER QUALITY MONITORING

3.1 Monitoring Locations

Groundwater quality monitoring was undertaken at nine designated boreholes shown in Table 3.1.

Table 3.1 Locations of Groundwater Quality Monitoring

Borehole No.	Depth from Ground Level to end of standpipe (m)	Location
WM1	3.58	Keung Shan Road (L/P FA0463)
WM2	4.24	Keung Shan Road (L/P FA0458)
WM3	3.57	Keung Shan Road (L/P FA0445)
WM4	2.77	Keung Shan Road (L/P FA0437)
WM5	4.63	Keung Shan Road (L/P FA0428)
WM6	10.46	STP (Ngong Ping)
WM7	9.68	STP (Ngong Ping)
WM8	9.99	STP (Ngong Ping)
WM9	10.69	STP (Ngong Ping)

3.2 Monitoring Parameters

Monitoring of the groundwater monitoring parameters are listed below:

- Biochemical Oxygen Demand (BOD₅), mg/L;
- Ammonia Nitrogen (NH₄⁺-N), mg/L;
- Nitrate + Nitrite Nitrogen (NO₂⁻+NO₃⁻), mg/L;
- pH value;
- Turbidity, NTU;
- Oil & Grease (O&G), mg/L;
- Total Phosphates (TP), mg/L;
- Synthetic detergents, mg/L;
- E-coli, cfu/100ml.



3.3 Monitoring Frequency

The monitoring frequency of the groundwater monitoring is summarized in Table 3.3.

Table 3.3 The frequency of the Groundwater Monitoring

Parameter	Frequency	No. of Boreholes
Biochemical Oxygen Demand	Once per month	9
Ammonia Nitrogen		
Nitrate + Nitrite		
pH value		
Turbidity		
Oil & Grease		
Total Phosphates		
Synthetic detergents		
E-coli		

3.4 Monitoring Methodology and Equipment Used

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The opening ends of the sampler were then closed accordingly and water samples were collected.

The sample container, made by high-density polythene / glass, was rinsed with a portion of the water sample. The groundwater sample was then transferred to the container, labeled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The groundwater samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.

In accordance with the requirement of HOKLAS, the laboratory testing of the monitoring parameters were carried out with QA/QC results shown in Appendix E. The summary of testing methods of testing parameters as recommended by EIA or required by EPD were shown in Table 3.4.

Table 3.4 Summary of testing procedures

Laboratory Analysis	Testing Procedure	Detection Limit
Biochemical Oxygen Demand	In house method TPE/001/W or BS 6068 : Section 2.14 : 1990	2.0 mg/L
Ammoniacal Nitrogen	In house method TPE/016/W, refer to APHA 19ed 4500-NH ₃ F & G	0.13 mg/L
Nitrate + Nitrite	In house method TPE/023/W, refer to APHA 19ed 4500-NO ₃ B	0.004 mg/L
pH (at 25°C)	In house method TPE/003/W, refer to APHA 19ed APHA 4500-H ⁺ B	Detection range: 4.0-10.0
Turbidity	In house method TPE/005/W, refer to APHA 19ed 2130B	0.5 NTU
Oil & Grease	APHA 19ed 5520 B	5.0 mL
Total Phosphate	In house method base on ASTM D 515-88	0.05 mg/L
Synthetic detergents	In house method based on APHA 19ed 5540 C & D	0.1 mg/L
E-coli	DoE Section 7.8 & 7.9 plus in-site urease test	<1 cfu/100ml



3.5 Groundwater Monitoring Results

In this reporting month, groundwater monitoring was carried out on 23 August 2007. During this monitoring, groundwater was found in Borehole No WM3 and the other boreholes were dry. The groundwater quality measurement results are detailed in Appendix B. Graphical presentation of the monitoring parameters for this reporting month is shown in Appendix C.

Test results of the groundwater during this monitoring show no contamination of ground water by any treated effluent. In other words, it is evident that there was no leakage of treated effluent from the Ngong Ping Sewage Treatment Works or its effluent export pipeline into the water gathering ground.

4.0 ENVIRONMENTAL NON-CONFORMANCE

4.1 Summary of Groundwater Quality Monitoring

According to the results of all testing parameters, they show no contamination of ground water by any treated effluent. In other words, it is evident that there was no leakage of treated effluent from the Ngong Ping Sewage Treatment Works or its effluent export pipeline into the water gathering ground.

4.2 Summary of Environmental Complaints

No complaints were received in this reporting month.

4.3 Summary of Notification of Summons and Prosecution

There was no notification of summons respect to environmental issues registered in this month.

5.0 IMPLEMENTATION STATUS

5.1 Implementation Status of Environmental Mitigation Measures

DSD has been implementing the required environmental mitigation measures indicating in Clause 4.5.20 of the EM&A manual.

5.2 Implementation Status of Environmental Complaint Handling

No complaints were received in this reporting month. The details of the complaint-log are presented in Table 5.1.

Table 5.1 Statistical Summary of Environmental Complaints

Reporting Month	Complaint Statistics			
	Frequency	Cumulative	Aspect	Investigation Results and Follow up Actions
August 07	0	0	---	---

5.3 Implementation Status of Notification of Summons and Prosecution

There were no notifications of summons respect to environmental issues registered in this reporting month.



6.0 CONCLUSION

In this reporting month, groundwater monitoring was carried out on 23 August 2007. During this monitoring, ground water was found in Borehole WM3 and the other boreholes were dry.

According to the results of all testing parameters, they show no contamination of ground water by any treated effluent. In other words, it is evident that there was no leakage of treated effluent from the Ngong Ping Sewage Treatment Works or its effluent export pipeline into the water gathering ground.

7.0 FUTURE KEY ISSUES

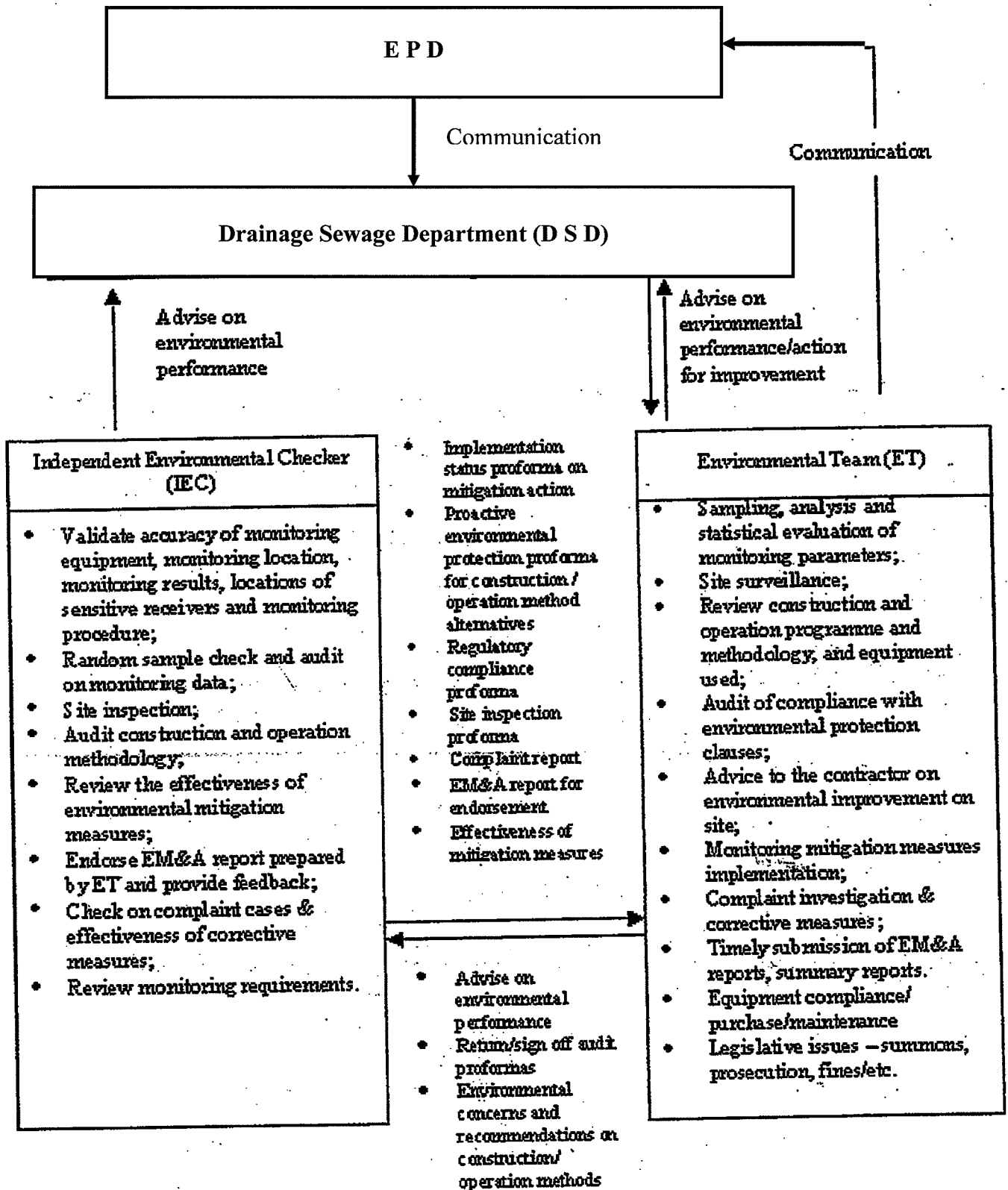
DSD will continue to carry out operation and maintenance works of NPSTW in the coming month. Future Key issues to be considered for the prevention of contamination of the water gathering ground are as follows:

- The provision of leakage containment system for the section of pipeline in the close proximity of the reservoir;
- Removing waste in a timely manner and disposing of outside the water gathering ground;
- Locating the chemical storage area at a safe environment with adequate space; and
- Reminding the workers not to discharge any sewage or wastewater into the nearby environment.



Appendix A

Lines of Communication



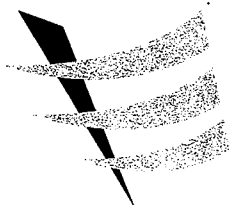


Appendix B

Groundwater Monitoring Results

and

Photos of Groundwater Monitoring at Boleholes



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong
Tel : 2695 8318 E-mail : etl@ets-testconsult.com
Fax : 2695 3944 Web site : www.ets-testconsult.com

TEST REPORT

Environmental Testing of Water & Wastewater

Report No. : ENA70865
Date of issue : 30 August 2007
Page No. : 1 of 1

Information provided by client

Client name : Welcome Construction Co Ltd
Client address : Flat 01, 19/F, Westley Square, 48 Hoi Yuen Road, Kwun Tong, Kowloon
Sample Source : DC/2006/15 - Building and Civil Maintenance and Minor Works to DSD Plants and Facilities (2007-2009)
Sample Type : Groundwater
Date of sampling : 23 August 2007
Sample Description : The sample was collected in 200ml glass bottle (for Total Phosphates only), 500ml glass bottle (for Oil & Grease only), 200ml sterilized glass bottle (for E-coli only), 500ml and 1L plastic bottles (for other testing parameters). Sample for Ammonia and Nitrate + Nitrite Nitrogen was preserved by adding conc. H₂SO₄ to pH<2. Sample for Oil & Grease was preserved by adding conc. HCl to pH<2. All samples were chilled immediately after collection.

Laboratory information

Date Received : 23 August 2007

Result

Client Sample ID	Lab Ref No	Test	Method Used	Result	Date Tested
WM3	W22119 (01)	pH Value	In house method TPE/003/W	5.6 (at 25°C)	23 August 2007
		Turbidity	In house method TPE/005/W	14 NTU	23 August 2007
		Biochemical Oxygen Demand (5-day)	In house method TPE/001/W	6.4 mg/L	23 August 2007 (18:00) to 28 August 2007 (18:00)
	W22119 (02)	Nitrate & Nitrite Nitrogen	In house method TPE/023/W	0.27 mg/L	24 August 2007
		Ammonia	In house method TPE/016/W	< 0.025 mg/L	29 August 2007
	W22119 (04)	Total Phosphates	In house method TPE/019/W	< 0.05 mg/L	24 August 2007
	W22119 (05)	Oil & Grease	APHA 19ed 5520B	< 5.0 mg/L	24 August 2007
	W22119 (03)	Synthetic Detergents	In house method refer to APHA 19th ed 5540 C & D	< 0.1 mg/L	24 August 2007
W22119 (06)	E-coli *	DoE (1983), section 7.8 & 7.9 plus in-situ urease test	4 cfu/100ml	23 to 25 August 2007	

Remark (if any) : The tests marked with "*" indicated the tests were sub-contract to ALS Technichem (HK) Pty Ltd and HOKLAS accredited. Ground water monitoring was only carried out at Borehole WM3 only since other boreholes were observed to be dry during the monitoring.

Checked by :
LAW, Sau Yee
Senior Chemist

Approved by :
LAU, Chi Leung
Chief Chemist



Project : DC/2006/15 - Building and Civil Maintenance and
Minor Works to DSD Plants and Facilities (2007-2009)
Date of sampling and photo taking : 23 August 2007
Report No. : ENA70865
Date of issue : 30 August 2007

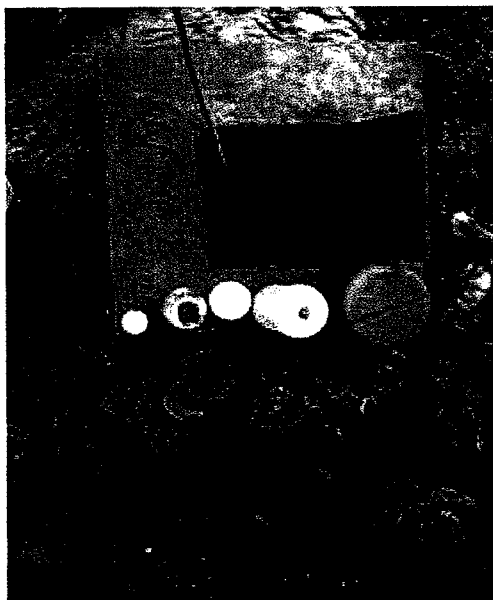
WM1



WM2



WM3



WM4





Project : DC/2006/15 - Building and Civil Maintenance and
Minor Works to DSD Plants and Facilities (2007-2009)
Date of sampling and photo taking : 23 August 2007
Report No. : ENA70865
Date of issue : 30 August 2007

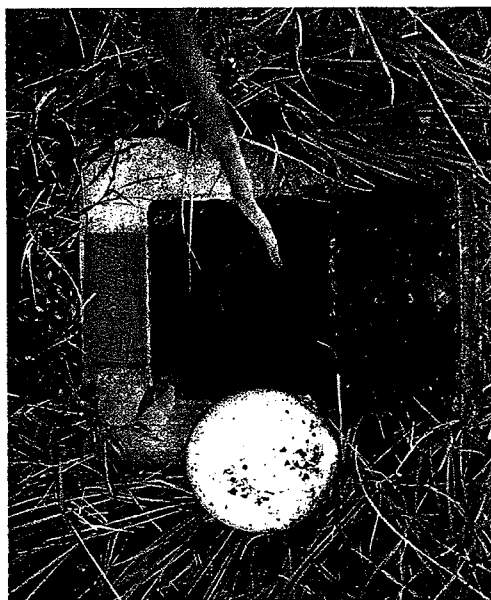
WM5



WM6



WM7



WM8





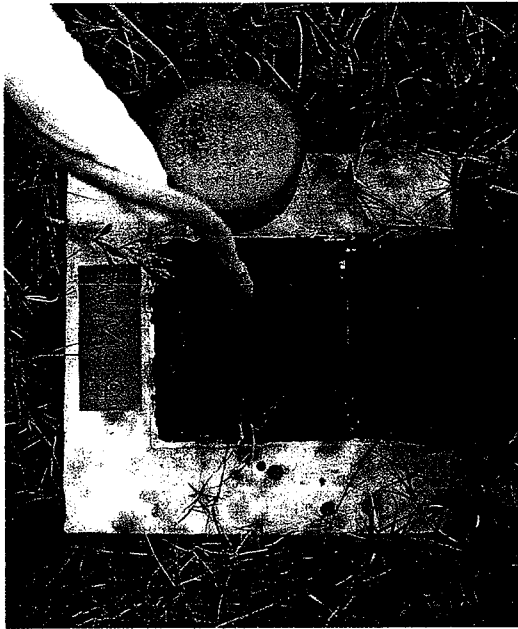
Project : DC/2006/15 - Building and Civil Maintenance and
Minor Works to DSD Plants and Facilities (2007-2009)

Date of sampling and photo taking : 23 August 2007

Report No. : ENA70865

Date of issue : 30 August 2007

WM9



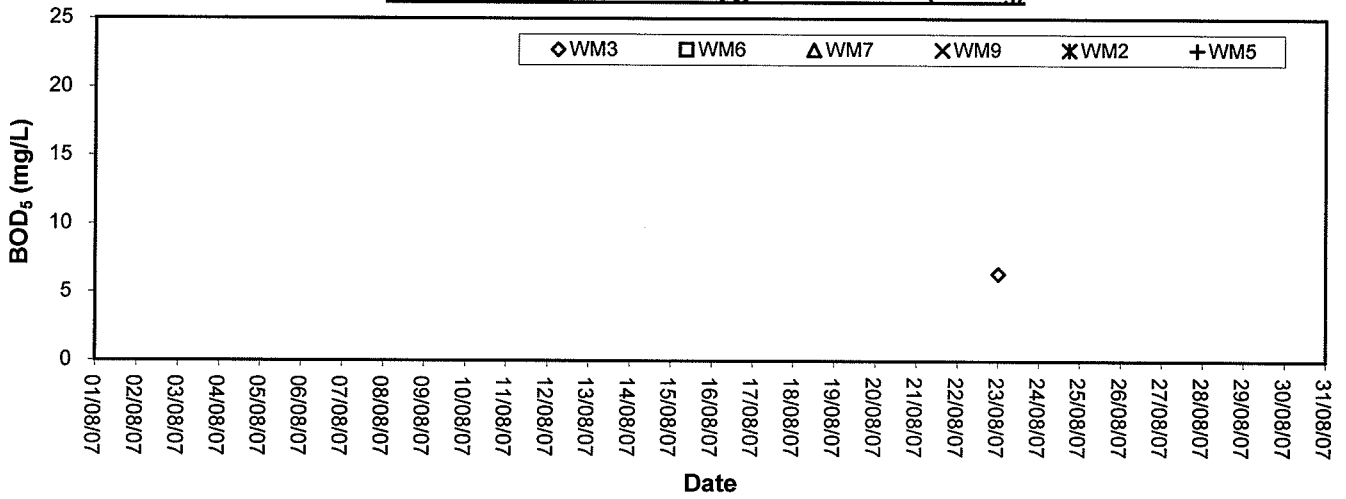


Appendix C

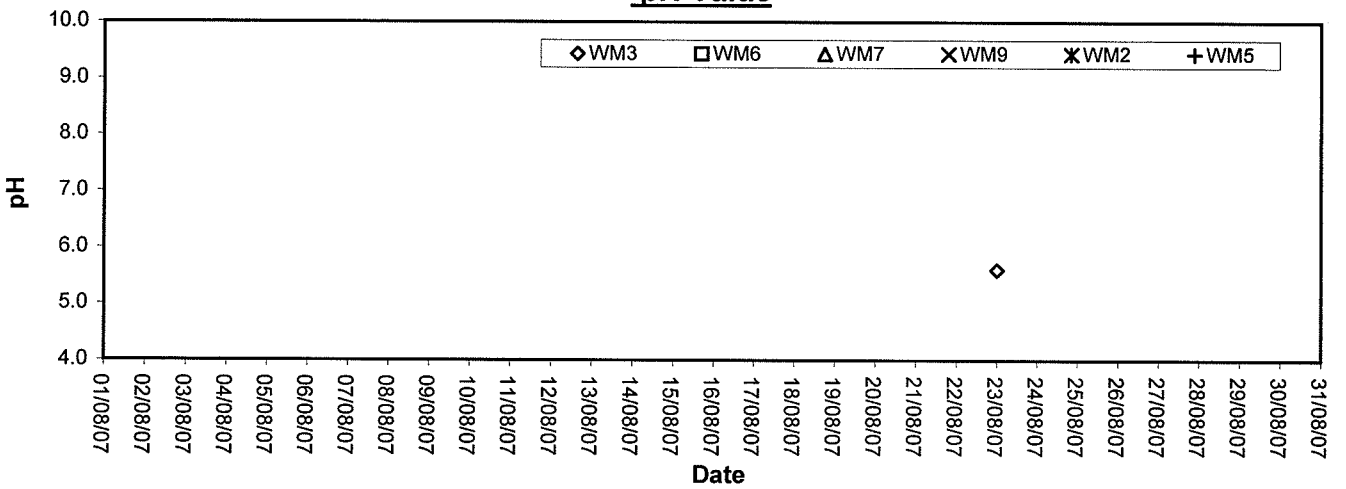
Graphical Plots of Groundwater Monitoring Data



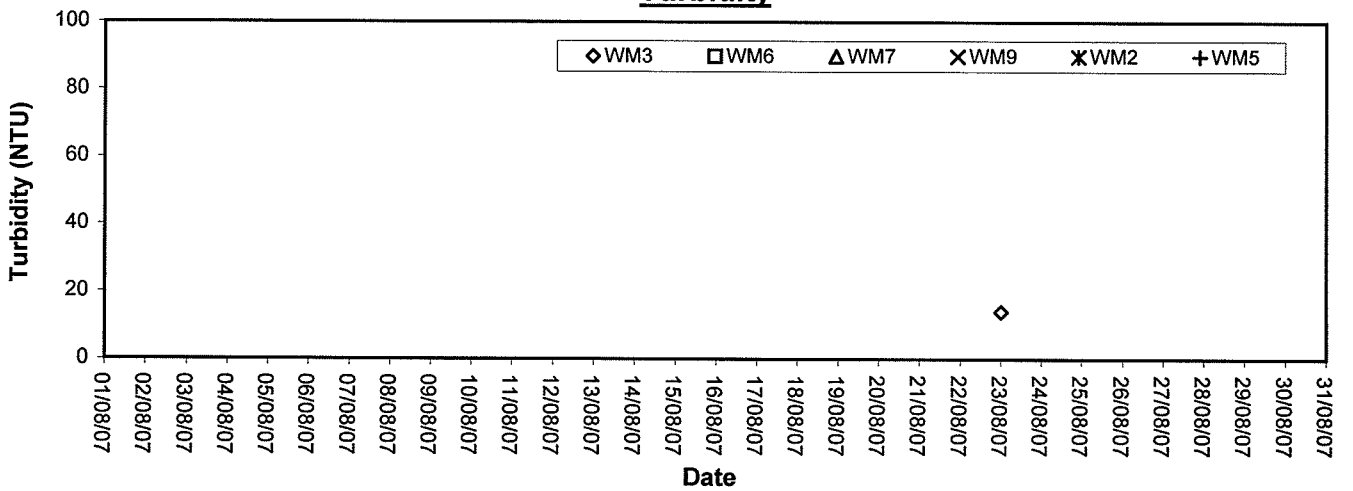
5-day Biochemical Oxygen Demand (BOD₅)



pH Value

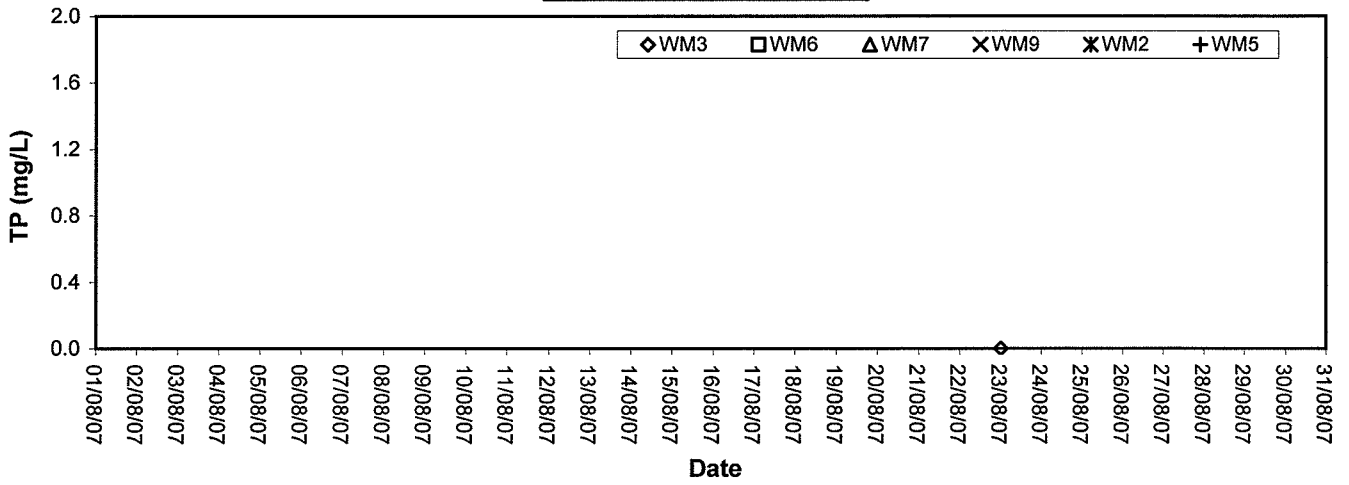


Turbidity

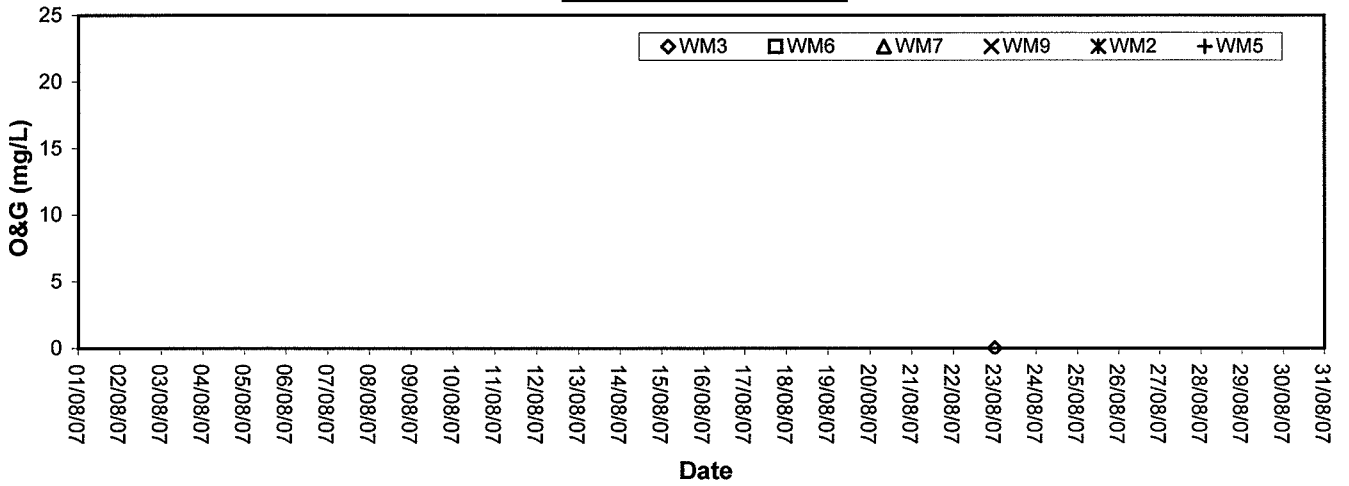




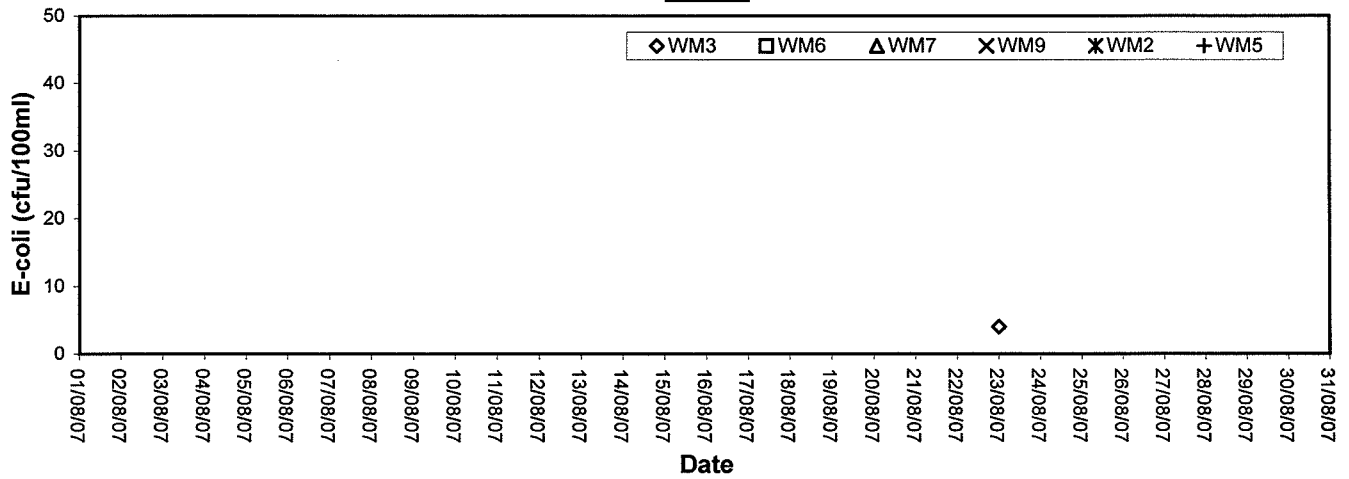
Total Phosphates (TP)



Oil & Grease (O&G)



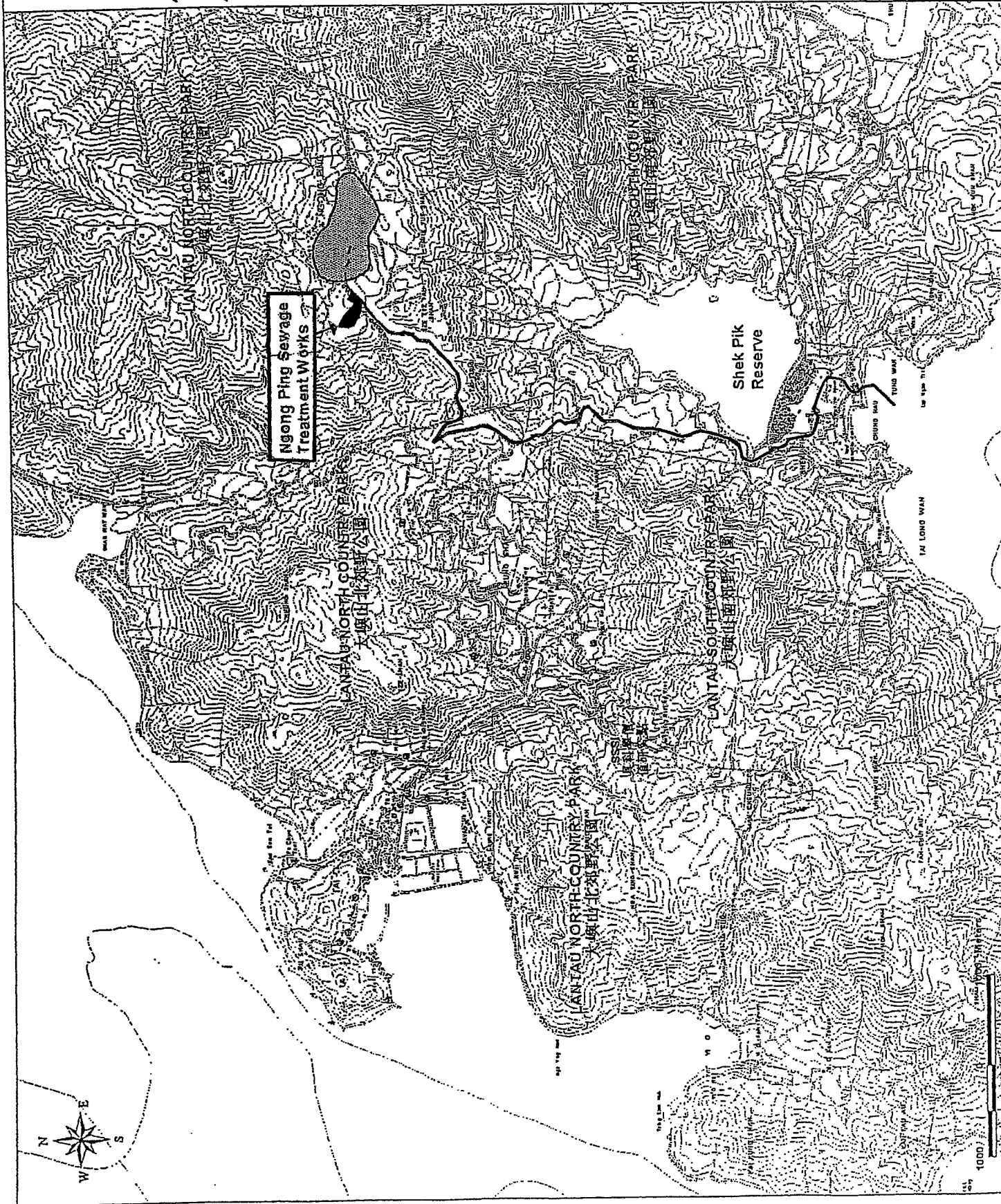
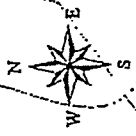
E-coli





Appendix D

General Layout Plan



Legend:

- Proposed Effluent Export Pipeline
- Proposed Trunk Sewer of Ngong Ping Sewerage
- Ngong Ping Sewerage Catchment Area

Project No.			
Scale			
Author			
Checker			
Drawn			
Approved			
ARUP <small>INCORPORATED IN HONG KONG</small>			
AGREEMENT NO CE 29/01 OUTLYING ISLANDS STAGE 1 PHASE 1 NGONG PING SEWAGE TREATMENT WORKS AND SEWERAGE			
Ngong Ping Sewerage Project Scheme - General Layout			
Project No.	23400/EN/039	Scale	
Client	KC	Project	AC
Contract No.	172000@AQ	Phase	AC
Contract Name		Design Stage	Preliminary
香港特別行政區排水處 DRAINAGE SERVICES DEPARTMENT GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION			





Appendix E

QA/QC Results



QA/QC Results of Laboratory Analysis of Testing Parameters

Testing Parameter	QC Sample Analysis	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
Turbidity	98.8	WM3	1.5	---	---
Nitrate + Nitrite	103.3	---	---	---	---
Oil & Grease	97.1	---	---	---	---
Ammoniacal Nitrogen	108.2	---	---	---	---
Synthetic detergents	---	---	---	---	---
Biochemical Oxygen Demand (5-day)	95.5	WM3	1.6	---	---
Total Phosphates	102.2	---	---	---	---
Testing Parameter	QC Sample Analysis	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	Difference between Duplicates +	Sample ID	% Recovery @
pH Value(at 25°C)	---	WM3	0.03 unit	---	---

Note: (*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between -10% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(+) Difference between Duplicates should be less than 0.1 unit for pH value.



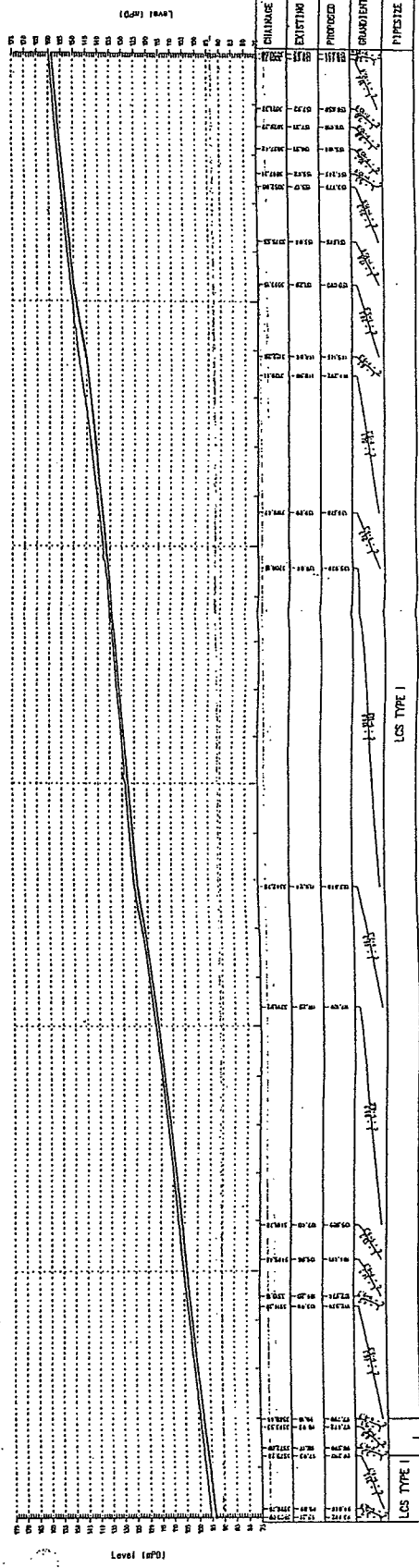
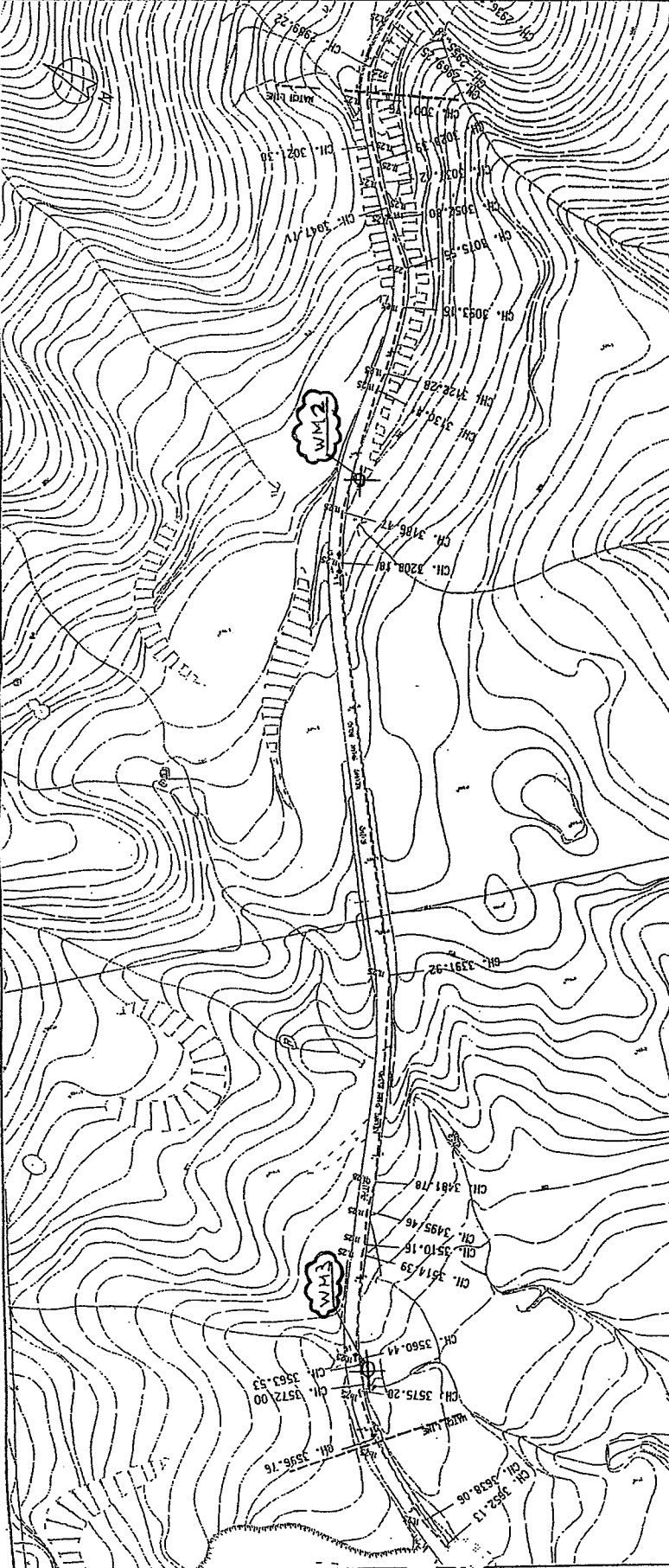
Figures

LEGENDS :

- EFFLUENT PIPELINE ALIGNMENT
- EXISTING GROUND LEVEL
- EFFLUENT PIPELINE PROFILE
- HATCHBOX CHAMBER
- GATE VALVES CHAMBER
- VENTILATION PIPE CHAMBER
- 1:25 SINGS

NOTE:

1. REFER TO DRAWING NO. DR/0001/001 FOR DETAILS.
2. L.S. - LEAKAGE COLLECTION SYSTEMS - LINES SHOWN WITHOUT DESIGN.
3. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF HATCHBOX CHAMBER.
4. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF GATE VALVE CHAMBER.
5. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF VENTILATION PIPE CHAMBER.
6. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF THE PIPE AND FITTINGS.
7. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF THE PIPE AND FITTINGS.
8. CHECK LOCATION OF PIPES AND CHAMBERS TO BE EXTENDED AS SITE CONDITIONS PERMIT.
9. REFER TO THE DRAWING NO. DR/0001/001 FOR DETAILS OF THE PIPE AND FITTINGS.



ISSUE FOR CONSTRUCTION	DATE	BY	DATE

Consultants

ARUP One App & Parkway Hong Kong Limited

Project Title

CONTRACT NO. DC2003001
NGONG PING SEWAGE TREATMENT PLANT, TRUNK SEWERS AND EFFLUENT EXPORT PIPELINE

Drawing Title

EFFLUENT EXPORT PIPELINE: ALIGNMENT AND PROFILE (SHEET 6 OF 10)

Drawing No. 23400/7075

Scale: 1:25

Author: [Name]

Checked: [Name]

Approved: [Name]

Drawn: [Name]

Project Manager: [Name]

Site Engineer: [Name]

Site Supervisor: [Name]

Site Clerk: [Name]

Site Foreman: [Name]

Site Worker: [Name]

1:500
DATE: 20/10/17



KEY PLAN

- NOTE:
- COORDINATES SHOWN ON THE TABLE ARE MEASURED AT THE OUTSIDE WALL AT MPD.
 - PLAN OF STRUCTURES ARE SHOWN AT 44x1.00 MPD.

- LEGEND:
- SITE BOUNDARY
 - CUT SLOPE
 - FILL SLOPE WITH FILTER
 - PERIMETER U-CHANNELS / CATCH PITS

2	AS-CONSTRUCTED DRAWING	RL	01/05
Rev	Description	By	Date

ARUP

Project Title
 CONTRACT NO. 02/2006/A1
 ROOF PINE STRIPS TREATMENT PLANT
 PLANT, TANKS, SERVICES AND
 EFFLUENT EXPORT PIPELINE

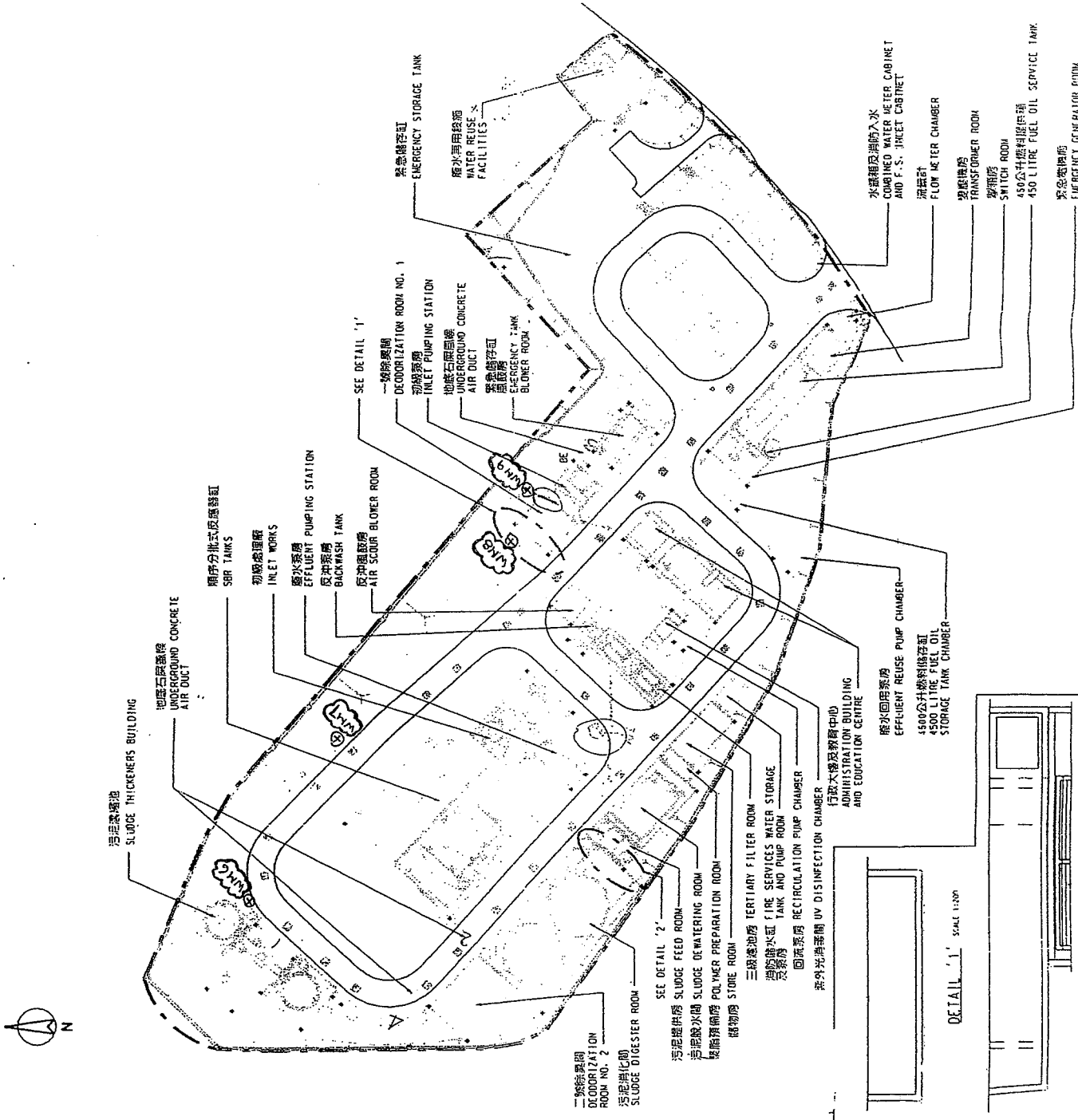
Drawing Title
 張平污水處理廠廢物處理廠
 ROOF PINE STRIPS TREATMENT PLANT
 SETTING OUT PLAN FOR STRUCTURES

Drawing No.	23/10/17/82	Rev.	2
Scale	1:500	Contract No.	02/2006/A1
Drawn by	W.S.	Checked by	W.S.
Scale	1:500	Drawn by	W.S.
		Checked by	W.S.



SETTING OUT TABLE

LOCATION	COORDINATES	
	NORTHING	EASTING
A	017146.937	007866.002
B	017135.201	007873.432
C	017139.444	007869.546
D	017170.412	007777.602
E	017241.173	007886.784
F	017231.437	007812.581
G	017146.944	007827.574
H	017152.064	007832.601
I	017217.971	007835.603
J	017227.311	007862.533
K	017095.361	007856.606
L	017054.038	007858.584
M	017266.237	007842.556
N	017215.607	007846.035
O	017247.718	007854.536
P	017242.012	007816.107
Q	017110.370	007828.489
R	017110.532	007811.289
S	017102.051	007825.500
T	017217.484	007829.106
U	017211.005	007834.349
V	017214.252	007845.605
W	017217.257	007852.484
X	017238.687	007841.745
Y	017242.332	007845.145
Z	017241.824	007846.834
AA	017246.422	007853.323
AB	017206.301	007842.276
AC	017221.418	007853.118
AD	017223.235	007864.478
AE	017229.003	007862.783
AF	017231.481	007861.137
AG	017234.325	007861.185
AH	017239.718	007876.826
AI	017239.445	007862.770
AJ	017208.766	007891.249
AK	017200.334	007822.502
AL	017222.224	007853.084
AM	017251.540	007837.084
AN	017224.460	007870.610
AO	017224.433	007862.163
AP	017211.933	007844.600
AQ	017202.050	007836.800
AR	017213.244	007823.332
AS	017215.374	007846.349
AT	017214.520	007842.588
AU	017216.728	007844.599
AV	017205.640	007841.751
AW	017201.233	007855.076
AX	017227.924	007851.275
AY	017221.920	007861.489
AZ	017241.185	007862.489
BA	017237.483	007852.277
BB	017241.182	007844.588
BC	017269.617	007844.588
BD	017241.981	007845.188
BE	017241.981	007845.188
BF	017241.981	007845.188
BG	017241.981	007845.188
BH	017241.981	007845.188
BI	017241.981	007845.188
BJ	017241.981	007845.188
BK	017241.981	007845.188
BL	017241.981	007845.188
BM	017241.981	007845.188
BN	017241.981	007845.188
BO	017241.981	007845.188
BP	017241.981	007845.188



DETAIL '1' SCALE 1:200

DETAIL '2' SCALE 1:200