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TEST REPORT

DRAINAGE SEWAGE DEPARTMENT

**NGONG PING SEWAGE TREATMENT PLANT,
TRUNK SEWERS AND EFFLUENT EXPORT
PIPELINE
OPERATION PHASE
MONTHLY EM&A REPORT
FOR
GROUND WATER MONITORING
(FEBRUARY 2007)**

Prepared by:

Linda Law
Senior Environmental Officer

Checked and
Approved by:

C. L. Lau
Environmental Team Leader

Issued Date: 01 March 2006

Report No.: ENA70106



CH2MHILL

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Our Ref.: DSDSTPOPEM0_0_0057

Date: 07 March 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/2003/01 Ngong Ping Sewage Treatment Plant, Truck Sewers and
Effluent Export Pipeline
Monthly EM&A Report of Ground Water Monitoring for Feb 2007

Reference is made to the monthly EM&A Report prepared by ETS for the captioned project (report no. ENA70140). 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 Eva Ho if you have any queries.

Yours sincerely,

David Yeung
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.11) has been prepared by the Environmental Team (ET) of ETS-Testconsult Ltd for groundwater monitoring under the operation phase of "Ngong Ping Sewage Treatment Plant, Trunk Sewers and Effluent Export Pipeline" (the Project) during the reporting period from 01 to 28 February 2007.

EP-157/2003/ATEM&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.

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 06 February 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, it was found that no contamination of groundwater due to the leakage from the NPSTP and Effluent Export Pipeline was detected.

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 28 February 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.
Hong Kong & Islands Division, DSD	Contractor (responsible for Groundwater Monitoring)	Mr. Edwin Lam	2594 7208	2827 6657
Sewage Treatment Division 2, DSD	Contractor (responsible for Odour Control and Water Quality Control except Groundwater Monitoring)	Mr. Zenith Chan	2195 3458	2991 4233
CH2M HILL	Independent Environmental Checker	Mr. David B K Yeung	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	96.8	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 06 February 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.

According to the results of all testing parameters, it was found that no contamination of groundwater due to the leakage from the NPSTP and Effluent Export Pipeline was detected.

4.0 ENVIRONMENTAL NON-CONFORMANCE

4.1 Summary of Groundwater Quality Monitoring

According to the results of all testing parameters, it was found that no contamination of groundwater due to the leakage from the NPSTP and Effluent Export Pipeline was detected.

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
April 06	0	0	---	---
May 06	0	0	---	---
June 06	0	0	---	---
July 06	0	0	---	---
Aug 06	0	0	---	---
Sept 06	0	0	---	---
Oct 06	0	0	---	---
Nov 06	0	0	---	---
Dec 06	0	0	---	---
Jan 06	0	0	---	---
Feb 06	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 06 February 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, it was found that no contamination of groundwater due to the leakage from the NPSTP and Effluent Export Pipeline was detected.

7.0 FUTURE KEY ISSUES

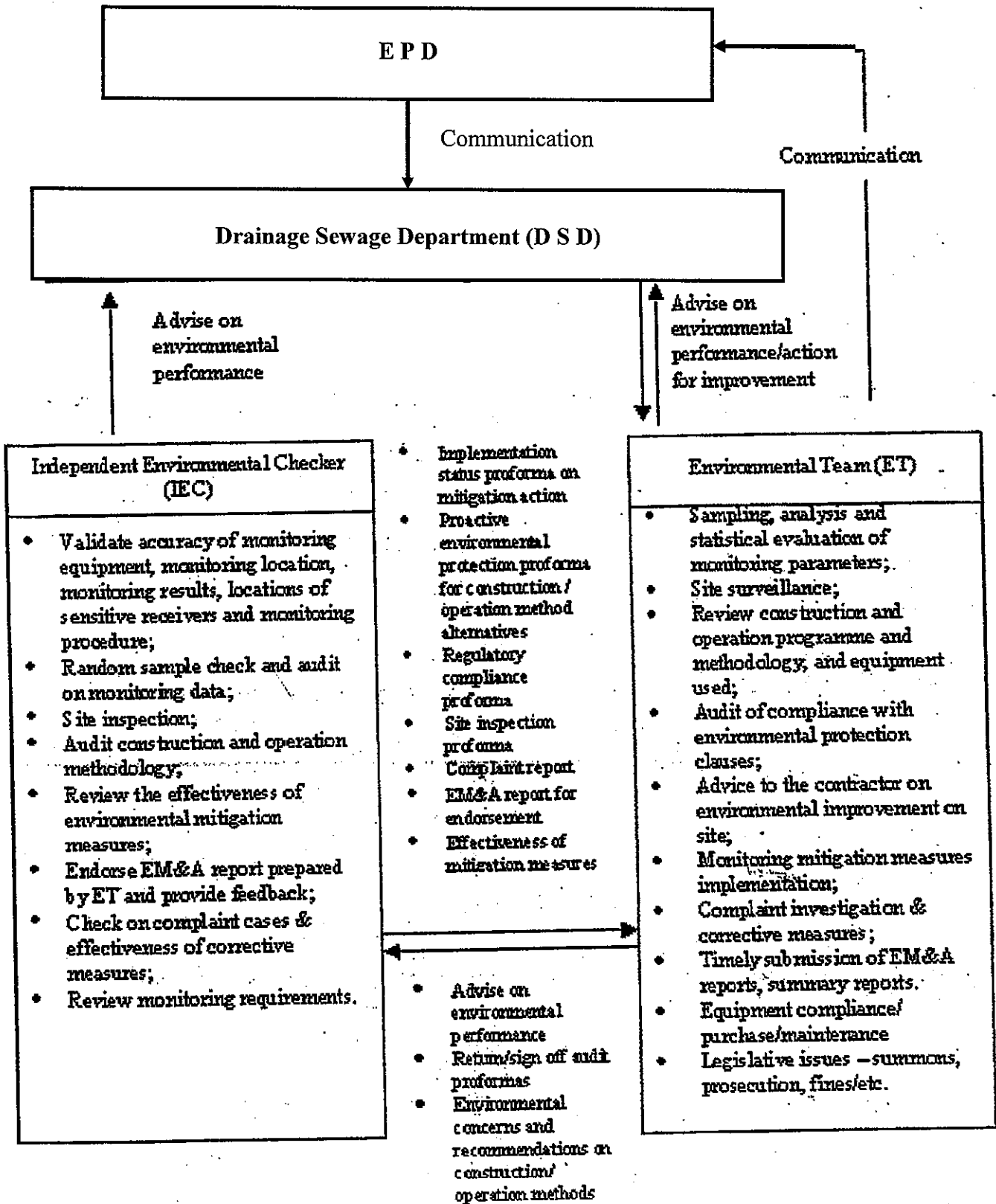
DSD will continue to carry out operation and maintenance works of NPSTW in the coming month. Future Key issues to be considered for the prevention of contamination of the water gathering ground are as follows:

- 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



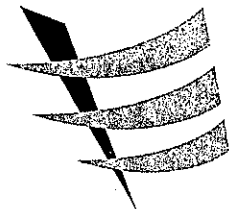


Appendix B

Groundwater Monitoring Results

and

Photos of Groundwater Monitoring at Boleholes



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TEST REPORT

Form : E/EN/R/01/Issue 4 (1/1) [08/02]

Environmental Testing of Water & Wastewater

Report No. : ENA70105
Date of issue : 13 February 2007
Page No. : 1 of 1

Information provided by client

Client name : Paul Y Construction Co. Ltd
Client address : 31/F Paul Y Centre 51 Hung To Road Kwun Tong Kowloon HK
Sample Source : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants and Facilities (2005-2007)
Sample Type : Groundwater
Date of sampling : 06 February 2007
Sample Description : The sample was collected in 100ml glass bottle (for Total Phosphates only), 500ml glass bottle (for Oil & Grease only), 100ml 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

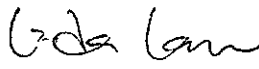
Date Received : 06 February 2007

Result


Client Sample ID	Lab Ref No	Test	Method Used	Result	Date Tested
WM3	W21297 (01)	Biochemical Oxygen Demand (5-day)	In house method based on APHA 19ed 4500-O G	4.0 mg/L	07 February 2007 (10:00) to 12 February 2007 (10:00)
		pH Value	In house method TPE/003/W	6.2 (at 25°C)	06 February 2007
		Turbidity	In house method TPE/005/W	19 NTU	06 February 2007
	W21297 (05)	Synthetic Detergents	In house method TPE/005/W	0.4 mg/L	07 February 2007
	W21297 (02)	Nitrate & Nitrite Nitrogen	In house method TPE/023/W	0.32 mg/L	07 February 2007
		Ammonia	In house method TPE/016/W	<0.025 mg/L	07 February 2007
	W21297 (03)	Total Phosphates	In house method TPE/019/W	< 0.01 mg/L	07 February 2007
	W21297 (04)	Oil & Grease	APHA 19ed 5520B	<5.0 mg/L	07 February 2007
W21297 (06)	E-coli *	DoE (1983), section 7.8 & 7.9 plus in-situ urease test	<1 cfu/100ml	06 to 08 February 2007	

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

Checked by :


LAW, Sau Yee
Senior Chemist

Approved by :


LAU, Chi Leung
Chief Chemist



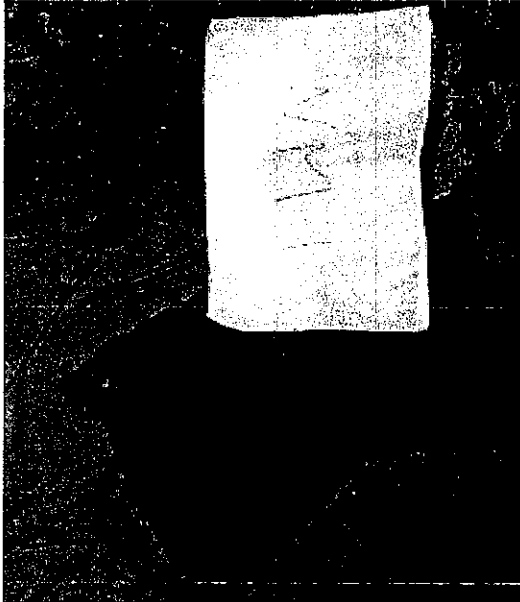
Project : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants
and Facilities (2005-2007)

Date of sampling : 06 February 2007

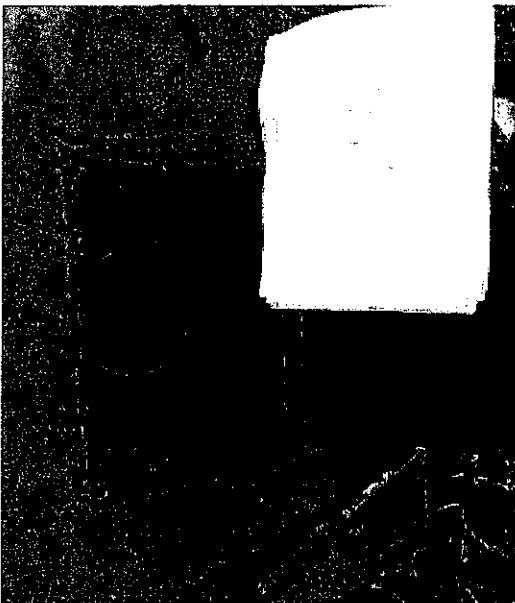
Report No. : ENA70105

Date of issue : 13 February 2007

WM1



WM2





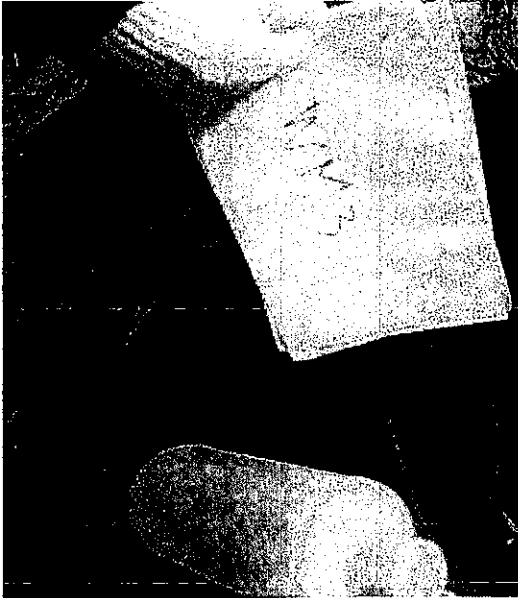
Project : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants
and Facilities (2005-2007)

Date of sampling : 06 February 2007

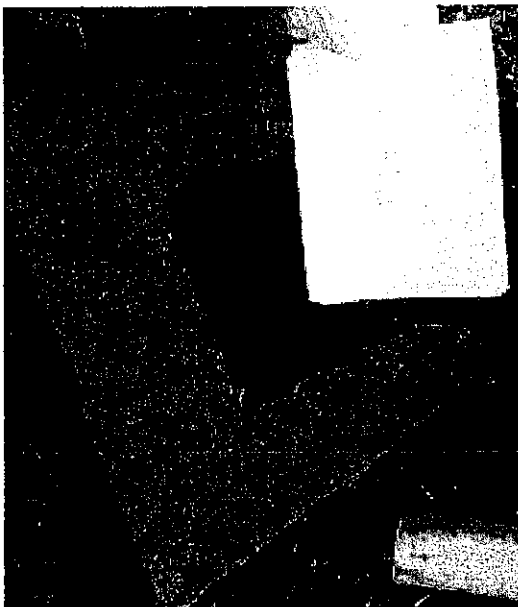
Report No. : ENA70105

Date of issue : 13 February 2007

WM3



WM4





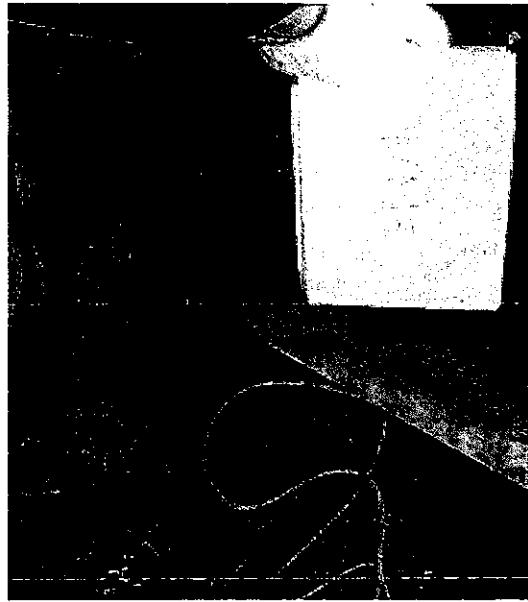
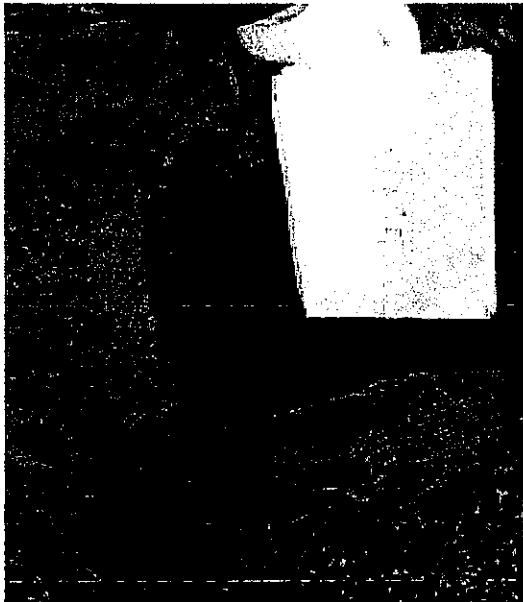
Project : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants
and Facilities (2005-2007)

Date of sampling : 06 February 2007

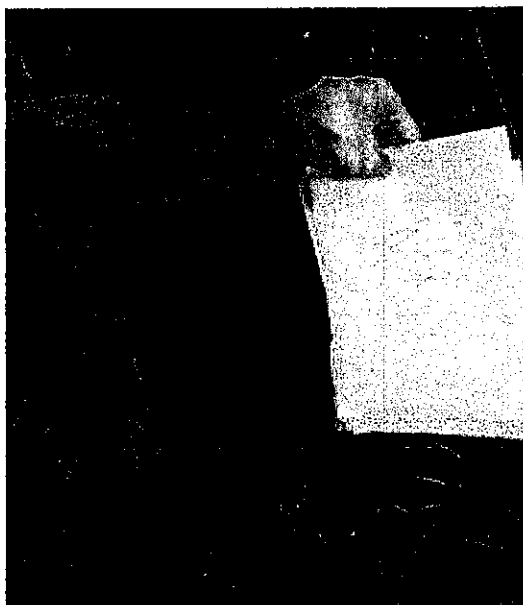
Report No. : ENA70105

Date of issue : 13 February 2007

WM5



WM6





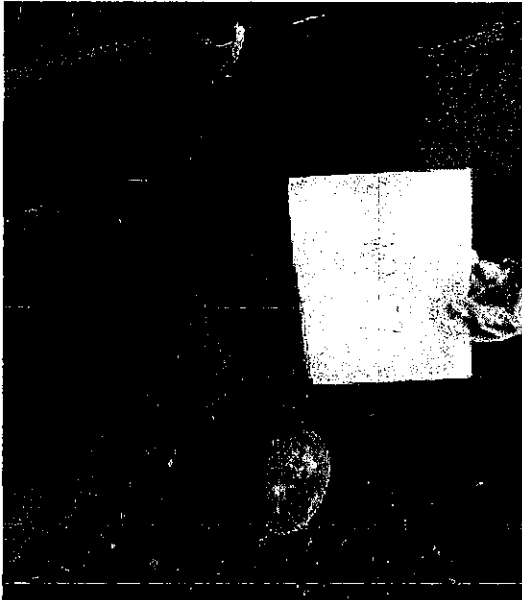
Project : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants
and Facilities (2005-2007)

Date of sampling : 06 February 2007

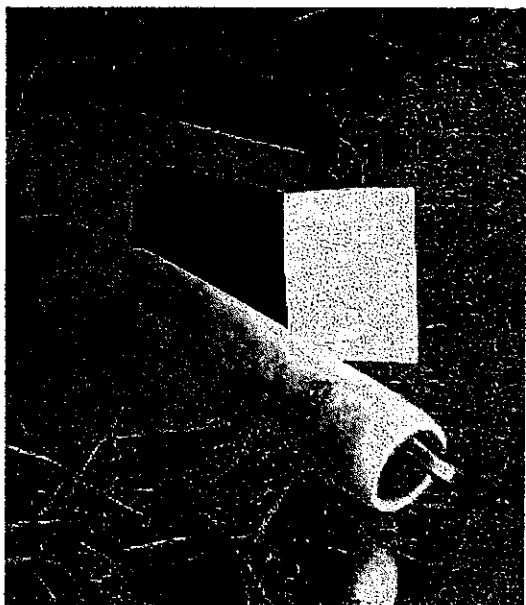
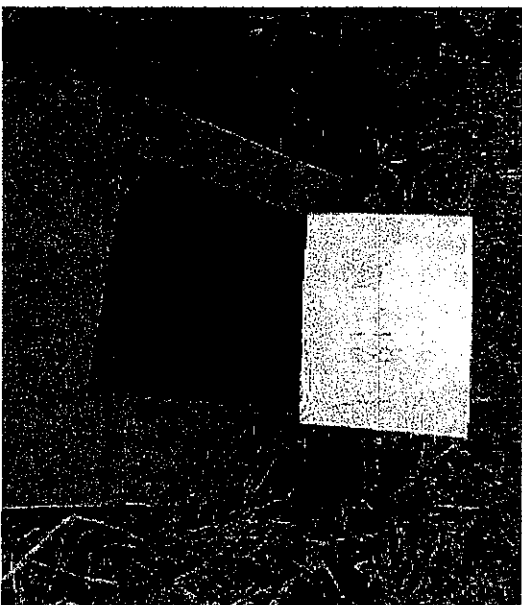
Report No. : ENA70105

Date of issue : 13 February 2007

WM7



WM8





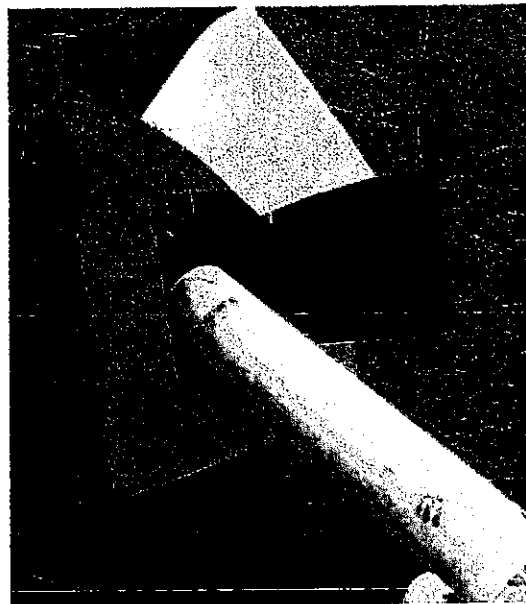
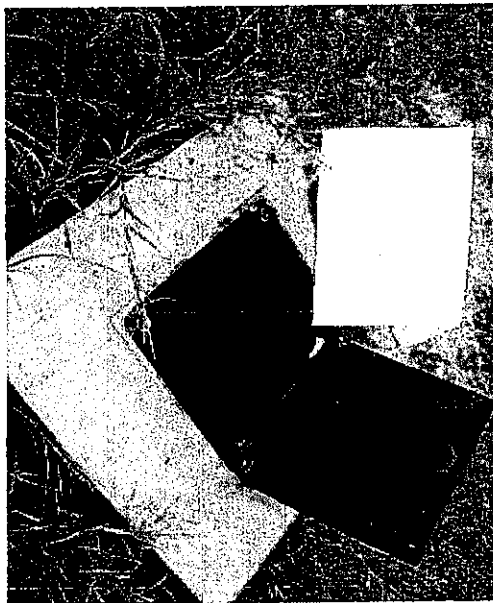
Project : DC/2004/09 - Building and Civil Maintenance and Minor Works to DSD Plants
and Facilities (2005-2007)

Date of sampling : 06 February 2007

Report No. : ENA70105

Date of issue : 13 February 2007

WM9



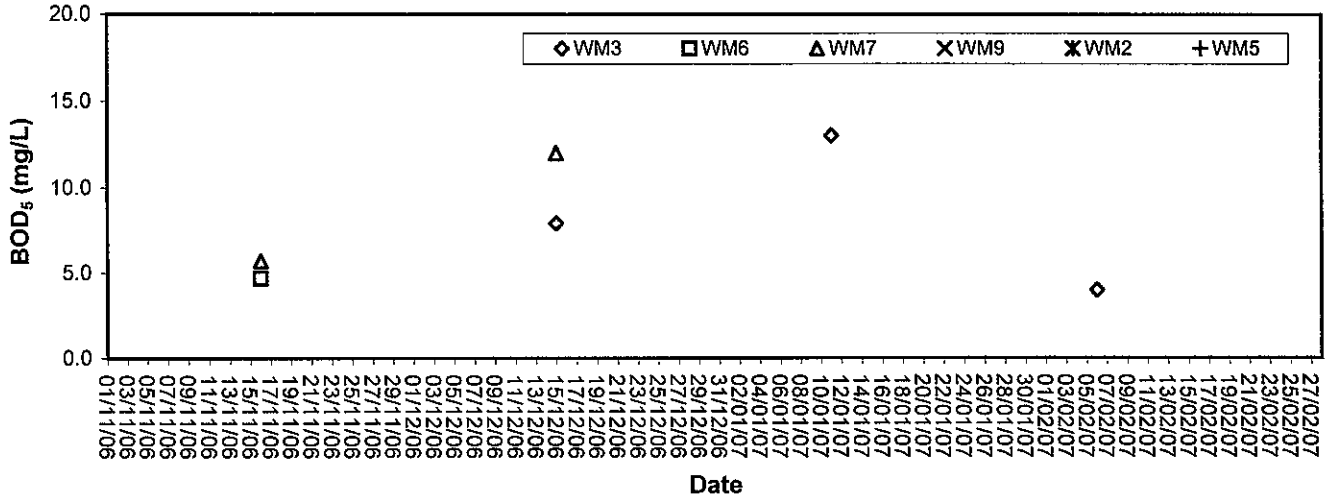


Appendix C

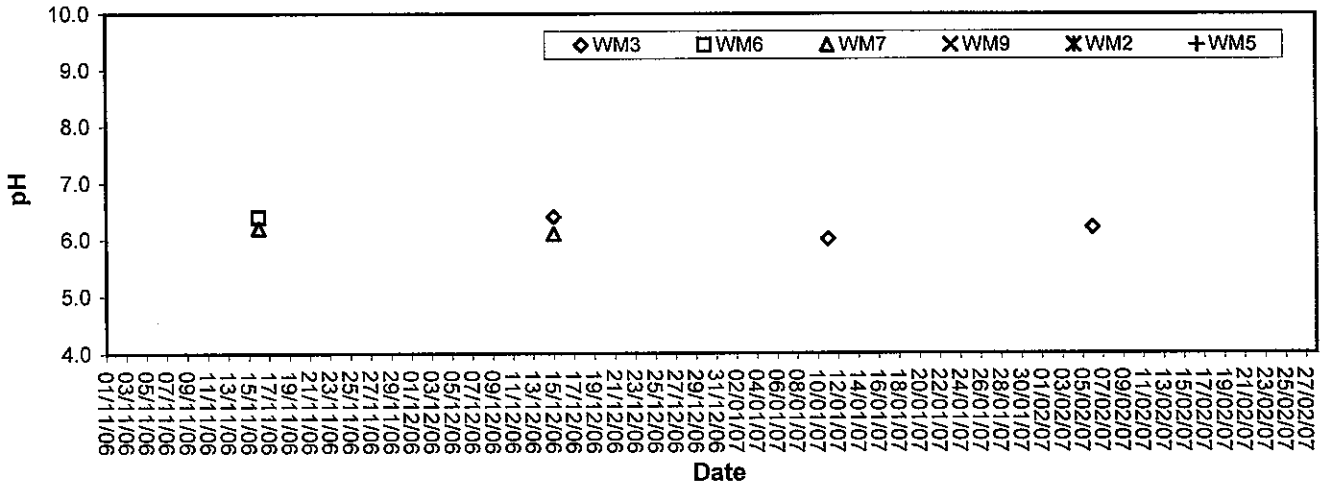
Graphical Plots of Groundwater Monitoring Data



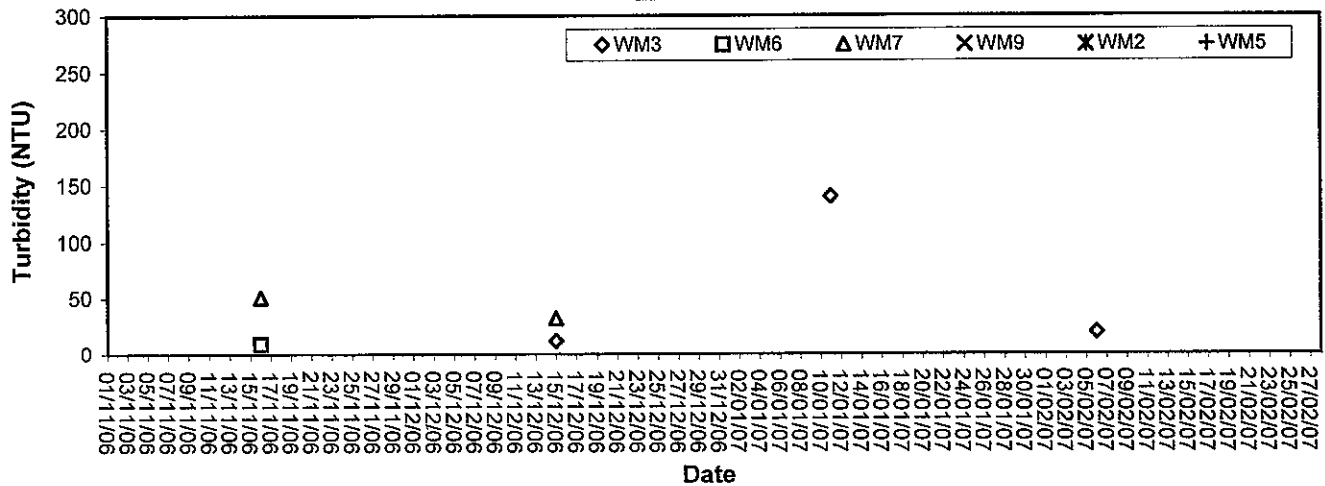
5-day Biochemical Oxygen Demand (BOD₅)



pH Value

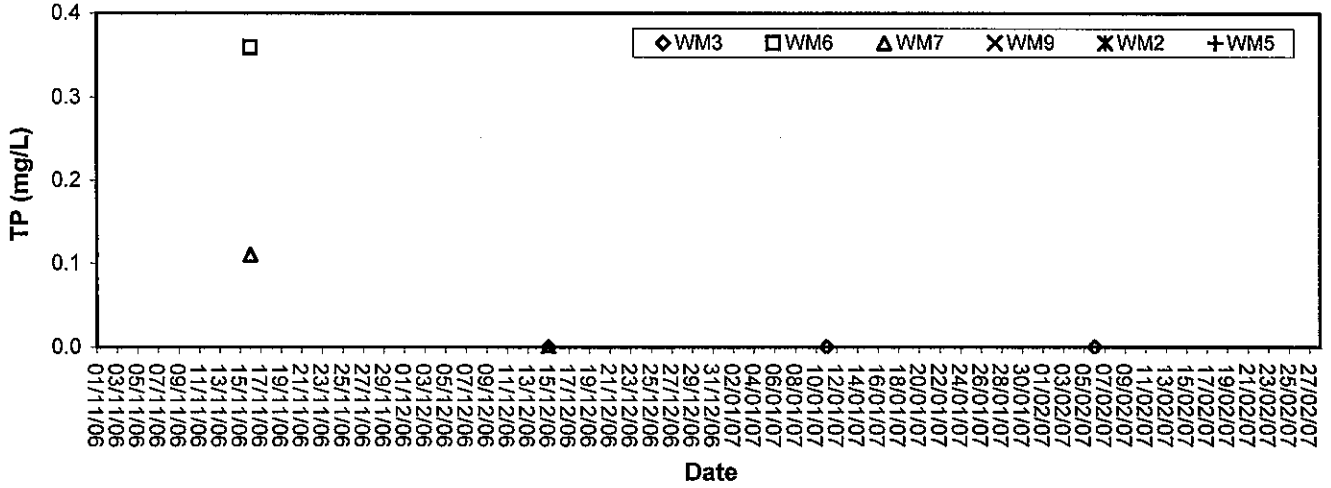


Turbidity

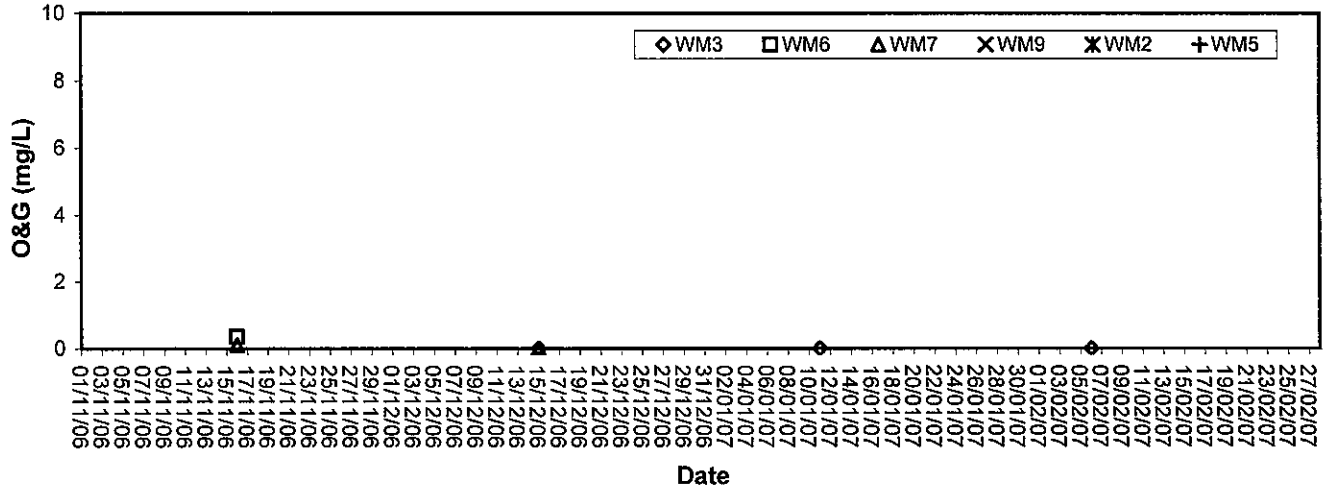




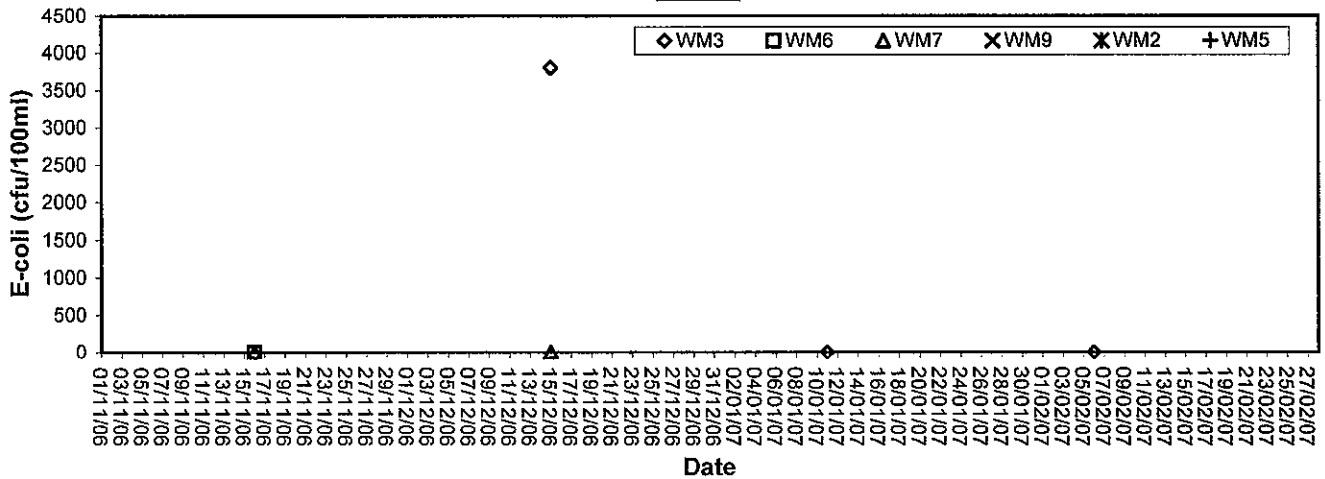
Total Phosphates (TP)



Oil & Grease (O&G)



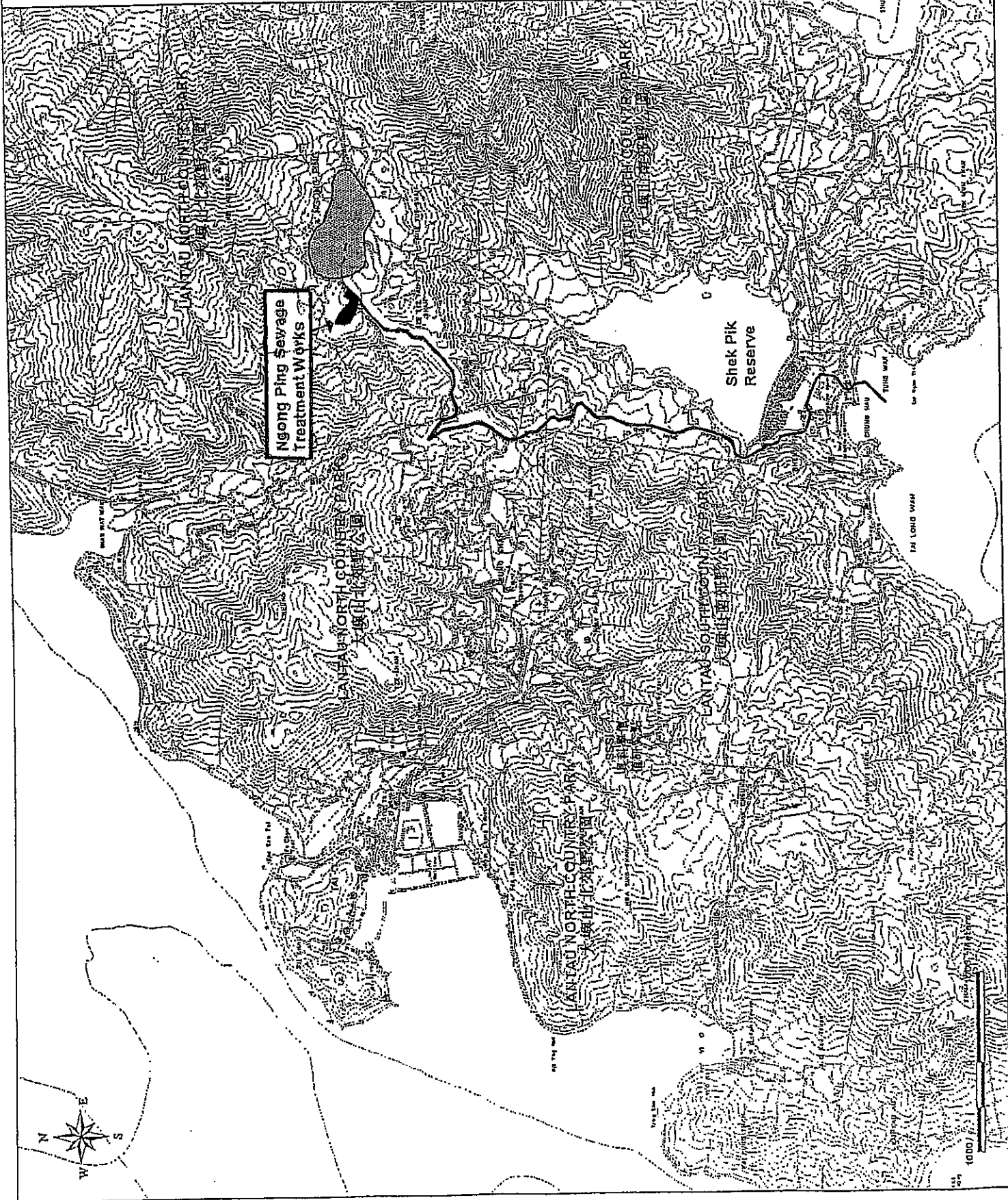
E-coli





Appendix D

General Layout Plan



Legend:

Proposed Effluent Export Pipeline

Proposed Trunk Sewer of Ngong Ping Sewerage

Ngong Ping Sewerage Catchment Area

Ngong Ping Sewerage Treatment Works

Shek Pik Reserve

THE NORTH COUNTRY
北區

THE NORTH COUNTRY
北區

THE NORTH COUNTRY
北區

DATE	NO.	BY	CHK.

ARUP

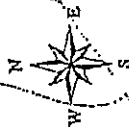
AGREEMENT NO. CE 2801
NEW KUNING ISLANDS STAGE 1 PHASE 1
NGONG PING SEWERAGE TREATMENT
WORKS AND SEWERAGE

Ngong Ping Sewerage Project
Scheme - General Layout

PROJECT NO.	234001EN/039
SCALE	1:20000@A3
DATE	FEB 03
STATUS	AC
DESIGNER	AC
CHECKER	AC
DATE	
STATUS	Preliminary



香港特別行政區環境保護局
HONG KONG SPECIAL ADMINISTRATIVE REGION
ENVIRONMENTAL PROTECTION 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	100	WM3	2.1	---	---
Nitrate + Nitrite	88	---	---	---	---
Oil & Grease	97	---	---	---	---
Ammoniacal Nitrogen	103	---	---	---	---
Synthetic detergents	---	---	---	---	---
Biochemical Oxygen Demand (5-day)	95	WM3	2.5	---	---
Total Phosphates	103	---	---	---	---
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.



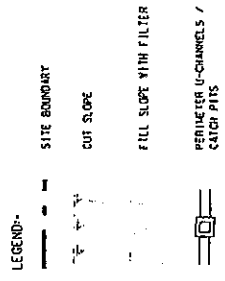
Figures

REF
SCALE 1:1000



KEY PLAN

NOTE:
1. COORDINATES SHOWN ON THE TABLE ARE MEASURED AT THE OUTSIDE WALL AT 0PD.
2. PLAN OF STRUCTURES ARE SHOWN AT 44.41.00 mPD.



2	AS-CONTRACTED DRAWING	By	Date
<p>ARUP By: Joe S. Turner, Ben Day, Lisa Lind</p>			

PROJECT NO. 02/00/00/01
KONG TUNG SERVICE TREATMENT PLANT, TANK STAYS AND EFFLUENT DUCT PIPING

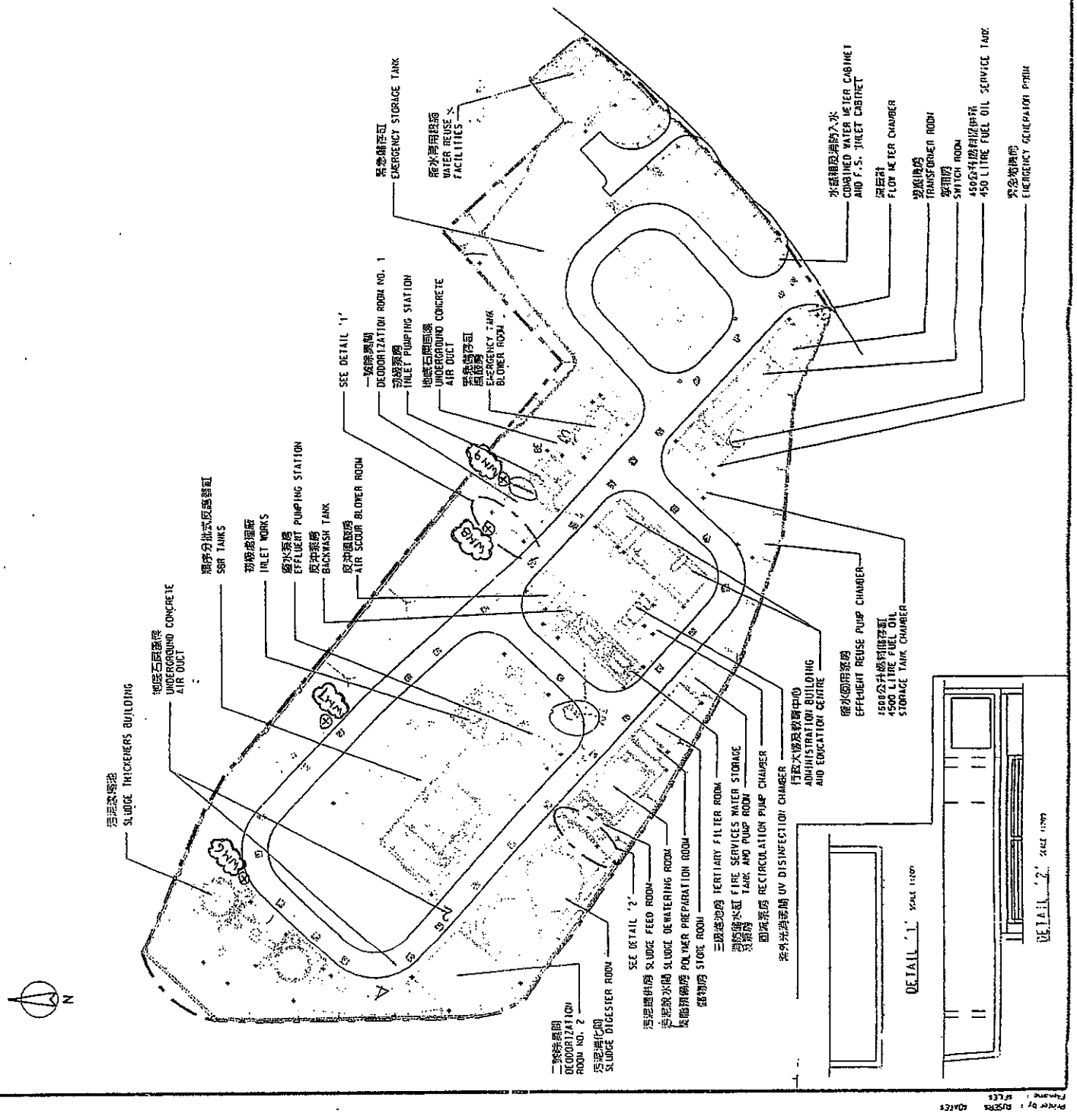
COMPONENT RECEIVED
KONG TUNG SERVICE TREATMENT PLANT, TANK STAYS AND EFFLUENT DUCT PIPING

DATE: 23/09/78

SCALE: 1:1000

SETTING OUT TABLE

LOCATION	COORDINATES	
	NORTHING	EASTING
1	02116.972	02086.022
2	02116.972	02087.452
3	02116.972	02088.882
4	02116.972	02090.312
5	02116.972	02091.742
6	02116.972	02093.172
7	02116.972	02094.602
8	02116.972	02096.032
9	02116.972	02097.462
10	02116.972	02098.892
11	02116.972	02100.322
12	02116.972	02101.752
13	02116.972	02103.182
14	02116.972	02104.612
15	02116.972	02106.042
16	02116.972	02107.472
17	02116.972	02108.902
18	02116.972	02110.332
19	02116.972	02111.762
20	02116.972	02113.192
21	02116.972	02114.622
22	02116.972	02116.052
23	02116.972	02117.482
24	02116.972	02118.912
25	02116.972	02120.342
26	02116.972	02121.772
27	02116.972	02123.202
28	02116.972	02124.632
29	02116.972	02126.062
30	02116.972	02127.492
31	02116.972	02128.922
32	02116.972	02130.352
33	02116.972	02131.782
34	02116.972	02133.212
35	02116.972	02134.642
36	02116.972	02136.072
37	02116.972	02137.502
38	02116.972	02138.932
39	02116.972	02140.362
40	02116.972	02141.792
41	02116.972	02143.222
42	02116.972	02144.652
43	02116.972	02146.082
44	02116.972	02147.512
45	02116.972	02148.942
46	02116.972	02150.372
47	02116.972	02151.802
48	02116.972	02153.232
49	02116.972	02154.662
50	02116.972	02156.092
51	02116.972	02157.522
52	02116.972	02158.952
53	02116.972	02160.382
54	02116.972	02161.812
55	02116.972	02163.242
56	02116.972	02164.672
57	02116.972	02166.102
58	02116.972	02167.532
59	02116.972	02168.962
60	02116.972	02170.392
61	02116.972	02171.822
62	02116.972	02173.252
63	02116.972	02174.682
64	02116.972	02176.112
65	02116.972	02177.542
66	02116.972	02178.972
67	02116.972	02180.402
68	02116.972	02181.832
69	02116.972	02183.262
70	02116.972	02184.692
71	02116.972	02186.122
72	02116.972	02187.552
73	02116.972	02188.982
74	02116.972	02190.412
75	02116.972	02191.842
76	02116.972	02193.272
77	02116.972	02194.702
78	02116.972	02196.132
79	02116.972	02197.562
80	02116.972	02198.992
81	02116.972	02200.422
82	02116.972	02201.852
83	02116.972	02203.282
84	02116.972	02204.712
85	02116.972	02206.142
86	02116.972	02207.572
87	02116.972	02209.002
88	02116.972	02210.432
89	02116.972	02211.862
90	02116.972	02213.292
91	02116.972	02214.722
92	02116.972	02216.152
93	02116.972	02217.582
94	02116.972	02219.012
95	02116.972	02220.442
96	02116.972	02221.872
97	02116.972	02223.302
98	02116.972	02224.732
99	02116.972	02226.162
100	02116.972	02227.592



DETAIL '1' SCALE 1:1000

DETAIL '2' SCALE 1:1000

LEGENDS :

- EFFLUENT PIPELINE ALIGNMENT
- EXISTING GROUND LEVEL
- EFFLUENT PIPELINE PROFILE
- HATCHBOX CHAMBER
- GATE VALVES CHAMBER
- VENTILATION PIPE CHAMBER
- BENCHS

NOTE:

1. REFER TO DRAWING NO. DC/DM/03/01 FOR GENERAL INFORMATION.
2. USE 1:1000 SCALE FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
4. EXISTING GROUND LEVEL IS TO BE OBTAINED FROM THE SURVEY DATA PROVIDED.
5. ALL DIMENSIONS ARE TO BE OBTAINED FROM THE SURVEY DATA PROVIDED.
6. ALL DIMENSIONS ARE TO BE OBTAINED FROM THE SURVEY DATA PROVIDED.
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