

Appendix K

Sediment Quality Report

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1 INTRODUCTION

Dredging of marine sediment is required for the laying of the twin pipelines and the sediments generated will require disposal in accordance with ETWB 34/2002. The nearest EPD Routine Monitoring stations (NS3, NS4 & NS6) to the proposed dredging works indicate that the sediment along the pipeline alignment may be contaminated (Category M) and require Tier III testing to determine the suitable disposal option (as required under ETWB 34/2002). A sediment test proposal, rationale for dredging and chemical / biological test proposal was previously submitted and agreed by the MFC and DEP.

2 SEDIMENT SAMPLING AND CHEMICAL ANALYSES

A plan showing the detailed location of dredging site and submarine pipelines alignment is provided in the Environmental Permit (EP-139/2002/A). Based on the EPD data, the sediments along the pipeline alignment may be contaminated. Based on the predicted level of low contamination along the pipeline alignment, ETWB 34/2002 requires a 200 x 200 m grid surface sample only although vertical profile was conducted to provide additional information. As the dredge area is only approximately 20-30m in width, a grid was not considered necessary and 14 core samples were collected for analysis along the pipeline alignment. The sampling locations were accurately located using GPS. The vibrocoring sampling locations are positioned along the pipeline alignment (refer to *Figure 1*). The continuous vertical core collected samples at the seabed (0m), 0.9m down, 1.9m down, 2.9m down (for sampling locations MVA1, MVA2, MVA8 to MVA13 & MVA14 (TBT only)) and then at a further 3m down (for sampling locations MVA3 to MVA7) and the core penetrated to around 5.9m total depth. Dredging generally will be to 3m below the seabed except for the deep dredging where it will be to 6m below the seabed. Sufficient amount of sediment material for both chemical and biological testing was taken from each vibrocoring. After Tier II chemical testing, sufficient sediment volume (6L) was stored at 4° C in the dark for higher tier testing in the event biological screening is required.

Chemical analyses of the contaminants stipulated in Table 1 (Appendix B) of ETWB 34/2002 were conducted by a HOKLAS-accredited laboratory (Lam Laboratories Limited). All chemical testing was conducted within the holding times stipulated in ETWB 34/2002. The sediment samples were obtained from the stations detailed above between 16 June 2006 to 24 June 2006 (the vibrocoring logs and sampling coordinates are appended in *Annex A*).

3 RESULTS OF SEDIMENT CHEMICAL ANALYSES

Chemical analyses revealed that the organic contaminants (Total PCBs, low and high molecular weight PAHs and organometallics (TBT)) were all below the respective analytical reporting limits (*Annex B*). Aside from lead, copper, mercury and arsenic, all contaminants were below the respective LCEL values (please refer to *Table 1* for a summary of the screening criteria and *Table 2* for a summary of the testing results). Lead exceeded the LCEL (category M) at one sampling depth for MVA2, copper exceeded the LCEL (category M) at two sampling depths for MVA1 and MVA 3, mercury exceeded the LCEL (category M) at one sampling depth for MVA1 and arsenic exceeded the LCEL at 14 sampling depths for MVA1 to MVA4 and MVA8 to MVA13. The sediment chemistry results showing

exceedances are highlighted below in *Table 2*. The full set of chemical analysis of contaminants is shown in *Annex B*.

The quality control data (comprising standard reference material, method blanks, batch duplicate and single control samples spiked with analytes of interest) are appended in *Annex B*. All the quality control data were within acceptable ranges and based on the information provided in the laboratory report, the data are considered to be acceptable.

Table 1 Criteria for Marine Sediment Quality Classification (ETWB 34/2002; Appendix A)

| Contaminant | Lower Chemical Exceedance Level (LCEL) | Upper Chemical Exceedance Level (UCEL) |
|--|--|--|
| Metals (mg kg⁻¹ dry wt.) | | |
| Cadmium | 1.5 | 4 |
| Chromium | 80 | 160 |
| Copper | 65 | 110 |
| Mercury | 0.5 | 1 |
| Nickel ¹ | 40 | 40 |
| Lead | 75 | 110 |
| Silver | 1 | 2 |
| Zinc | 200 | 270 |
| Metalloid (mg kg⁻¹ dry wt.) | | |
| Arsenic | 12 | 42 |
| Organics-PAHs (μg kg⁻¹ dry wt.) | | |
| Low Molecular Weight PAHs | 550 | 3160 |
| High Molecular Weight PAHs | 1700 | 9600 |
| Organics-non-PAHs (μg kg⁻¹ dry wt.) | | |
| Total PCBs | 23 | 180 |
| Organometallics (μg TBT L⁻¹ in interstitial water) | | |
| Tributyltin ¹ | 0.15 | 0.15 |

Note: ¹The contaminant level is considered to have exceeded the UCEL if it is greater than the value shown.

Table 2 Sediment Chemistry Results Showing Exceedances

| Drill Hole No. | Depth (m) | | Contaminant | | | | | | | | |
|----------------|-----------|------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | From | To | Cd | Cr | Cu | Ni | Pb | Zn | Hg | As | Ag |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| MVA1 | 0.00 | 0.20 | 0.18 | 43 | 69 | 25 | 69 | 100 | 0.19 | 12 | 0.42 |
| MVA1 | 0.90 | 1.10 | 0.16 | 33 | 22 | 19 | 52 | 73 | 0.22 | 17 | 0.12 |
| MVA1 | 1.70 | 1.90 | 0.14 | 29 | 12 | 18 | 32 | 62 | 0.69 | 13 | <0.10 |
| MVA1 | 2.90 | 3.10 | 0.09 | 18 | 6.2 | 10 | 22 | 33 | 0.07 | 7.3 | 0.19 |
| MVA2 | 0.00 | 0.20 | 0.16 | 38 | 39 | 22 | 47 | 99 | 0.15 | 12 | 0.70 |
| MVA2 | 0.90 | 1.10 | 0.15 | 33 | 24 | 20 | 46 | 71 | 0.22 | 17 | 0.12 |
| MVA2 | 1.70 | 1.90 | 0.12 | 25 | 11 | 16 | 84 | 56 | 0.12 | 10 | <0.10 |
| MVA2 | 2.90 | 3.10 | 0.12 | 26 | 11 | 16 | 27 | 56 | 0.10 | 10 | <0.10 |
| MVA3 | 0.00 | 0.20 | 0.14 | 32 | 35 | 13 | 38 | 95 | 0.16 | 11 | 0.39 |
| MVA3 | 0.90 | 1.10 | 0.19 | 49 | 72 | 26 | 66 | 120 | 0.22 | 14 | 0.41 |
| MVA3 | 1.70 | 1.90 | 0.05 | 13 | 7.3 | 13 | 53 | 30 | 0.06 | 3.8 | <0.10 |
| MVA3 | 2.90 | 3.10 | 0.12 | 49 | 12 | 18 | 31 | 62 | 0.10 | 11 | <0.10 |
| MVA3 | 5.80 | 6.00 | 0.11 | 11 | 5.2 | 5.1 | 17 | 27 | 0.06 | 4.8 | <0.10 |

to determine the ultimate disposal option. A biological test proposal was submitted on 13 July 2006 and agreed with EPD. A summary of the biological tests is provided below in *Section 4*.

4 BIOLOGICAL SCREENING

Chemical analysis revealed that some of the collected sediment samples were contaminated (category M) and required biological testing. In general, the Tier III biological testing was conducted on composite samples by mixing at most 4 continuous vertical or horizontal profile of the same category (M) although in some exceptional cases, the testing was done on the individual sample and the sample pooling scheme was summarised in *Table 3*. The sediment samples were mixed to ensure that bioassays were conducted on homogeneous material. The number of biological tests was 11 (including the reference sample).

Table 3 Summary of Sample Pooling for Biological Screening

| Depth (m) | Vibrocoring No | | | | | | | | | | | | | | |
|-----------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|---------------------|--|
| | MVA 1 | MVA 2 | MVA 3 | MVA 4 | MVA 5 | MVA 6 | MVA 7 | MVA 8 | MVA 9 | MVA 10 | MVA 11 | MVA 12 | MVA 13 | MVA 14 ¹ | |
| 0 | L | L | L | L | L | L | CS5 | | | | CS8 | | L | CS6 | |
| -0.9 | CS2 | CS3 | | L | L | L | L | L | L | CS7 | | CS8 | | L | |
| -1.9 | CS1 | | L | CS4 | L | L | L | CS7 | | L | L | L | L | CS10 ¹ | |
| -2.9 | L | L | L | L | L | L | L | L | L | L | L | CS9 | | L | |
| -5.9 | - | - | L | L | L | L | L | - | - | - | - | - | - | - | |

Note: CS = Composite Sample of Category M sample; L = Category L Material; - = not applicable; ¹Core MVA14 was tested for TBT only but concentrations were not above the reporting limit.

The test species and bioassays followed the protocols detailed in ETWB 34/2002 and comprised a 10-day burrowing amphipod (*Leptocheirus plumulosus*), 20-day polychaete (*Neanthes arenaceodentata*) and a 48-96 hour bivalve (*Crassostrea gigas*). Endpoints (survival, normality, growth) were assessed in accordance with the decision criteria stipulated in ETWB 34/2002. The test species, endpoints and decision criteria used to determine the pass/failure of the bioassays is detailed below in *Table 4*.

Table 4 Test Endpoints and Decision Criteria for Tier III Biological Screening (ETWB, 34/2002)

| Test | Endpoint | Failure Criteria |
|---|---|---|
| Amphipod (<i>Leptocheirus plumulosus</i>) | 10-day Survival | Mean survival in the test sediment is significantly different ($p \leq 0.05$) from mean survival in the reference sediment and mean survival in test sediment <80% of mean survival in reference sediment. |
| Polychaete (<i>Neanthes arenaceodentata</i>) | 20-day Growth (Dry Weight) | Mean dry weight in the test sediment is significantly different ($p \leq 0.05$) from mean dry weight in reference sediment and mean dry weight in test sediment <90% of mean dry weight in reference sediment. |
| Bivalve (<i>Crassostrea gigas</i>) | 48 to 96-hour Normal Survival (Development) | Mean normality survival in test sediment is significantly different ($p \leq 0.05$) from mean normality survival in reference sediment and mean normality in test sediment <80% of mean normality survival in reference sediment. |

Note: The sediment is deemed to have failed the biological test if it fails any one of the three bioassays; statistical tests performed using Students *t*-test; normal survival integrates normal development and survival endpoints.

To ensure high quality data, stringent QA/QC procedures were used and both negative and positive controls were run. The reference sediment was obtained from the waters off Sai Kung in Port Shelter (820057N 850234E) and subject to the chemical testing required for the test sediments (inorganic and organic contaminants detailed in the sediment test proposal; total organic carbon and grain size analyses). Positive controls were conducted with appropriate metal salts in accordance with the laboratory's test procedures. Results of the positive controls were compared against the laboratory control charts. All biological testing was conducted within the holding times stipulated in ETWB 34/2002 by a HOKLAS-accredited laboratory (Lam Laboratory Ltd.). The summary results of the biological screening are presented below in *Table 5*. The full laboratory report comprising water quality data (including ammonia and salinity), details of the sample preparation procedures, source of test species, QA/QC (including results of negative and positive controls) and statistical tables is appended in *Annex C*.

Table 5 Bioassay Summary Results and Decision Criteria based on ETWB 34/2002

| Sample / Test | End Point | Percentage Difference between Test and Reference | Statistical ($p \leq 0.05$) Difference ¹ | Pass/Fail ² |
|-----------------------|------------------------------------|--|---|------------------------|
| Amphipod | Mean (\pm SD) % Survival | < 80% | Sample vs Reference | |
| Control (Negative) | 90.0 \pm 0.0 | n/a | n/a | n/a |
| CS1 | 82.0 \pm 4.5 | No | - | Pass |
| CS2 | 66.0 \pm 8.2 | Yes | Yes | Fail |
| CS3 | 86.0 \pm 4.2 | No | - | Pass |
| CS4 | 81.0 \pm 4.2 | No | - | Pass |
| CS5 | 82.0 \pm 6.7 | No | - | Pass |
| CS6 | 84.0 \pm 4.2 | No | - | Pass |
| CS7 | 74.0 \pm 6.5 | No | - | Pass |
| CS8 | 80.0 \pm 7.1 | No | - | Pass |
| CS9 | 81.0 \pm 4.2 | No | - | Pass |
| CS10 | 89.0 \pm 8.2 | No | - | Pass |
| Reference | 92.0 \pm 2.7 | n/a | n/a | Pass |
| Polychaete | Mean (\pm SD) dry weight (mg) | <90% | Sample vs Reference | |
| Control (Negative) | 65.9 \pm 1.0 | n/a | n/a | n/a |
| CS1 | 34.2 \pm 21.5 | Yes | No | Pass |
| CS2 | 27.2 \pm 10.7 | Yes | No | Pass |
| CS3 | 45.4 \pm 5.6 | No | - | Pass |
| CS4 | 62.5 \pm 9.8 | No | - | Pass |
| CS5 | 46.5 \pm 9.1 | No | - | Pass |
| CS6 | 45.7 \pm 4.6 | No | - | Pass |
| CS7 | 32.7 \pm 13.7 | Yes | No | Pass |
| CS8 | 33.2 \pm 10.2 | Yes | No | Pass |
| CS9 | 31.5 \pm 6.5 | Yes | No | Pass |
| CS10 | 53.4 \pm 12.3 | No | - | Pass |
| Reference | 46.8 \pm 22.2 | n/a | n/a | n/a |
| Bivalve Larvae | Mean (\pm SD) % Normal Survival | < 80% | Sample vs Reference | |
| Control (Negative I) | 71.3 \pm 3.9 | n/a | n/a | n/a |
| Control (Negative II) | 73.6 \pm 5.1 | n/a | n/a | n/a |
| CS1 | 49.0 \pm 3.2 | Yes | Yes | Fail |
| CS2 | 48.9 \pm 2.7 | Yes | Yes | Fail |
| CS3 | 54.7 \pm 6.9 | Yes | Yes | Fail |
| CS4 | 51.0 \pm 4.0 | Yes | Yes | Fail |
| CS5 | 73.3 \pm 11.1 | No | - | Pass |
| CS6 | 78.1 \pm 6.3 | No | - | Pass |
| CS7 | 76.7 \pm 4.9 | No | - | Pass |

| Sample / Test | End Point | Percentage Difference between Test and Reference | Statistical ($p \leq 0.05$) Difference ¹ | Pass/Fail ² |
|---------------|----------------|--|---|------------------------|
| CS8 | 80.7 ± 4.8 | No | - | Pass |
| CS9 | 61.4 ± 1.8 | No | - | Pass |
| CS10 | 71.3 ± 3.6 | No | - | Pass |
| Reference | 70.3 ± 5.5 | n/a | n/a | n/a |

Note: n/a = not applicable; ¹Statistical Test (one tail t-test) was performed if the sample statistic is less than the specified percentage of the Reference; ²Pass/Fail condition from the decision criteria in ETWB 34/2002 (see *Table 4* above).

Amphipod Survival

The amphipod survival rate in the Reference sediment was $92.0 \pm 2.7\%$ (mean \pm SD). Comparing to the Reference sediment, the amphipod survival rate in the testing composite samples ranged between 71.7 – 96.7% of the Reference sediment. Only one composite sample CS2 has the survival rate lower than 80% of the Reference sediment and statistical test suggested that the difference was statistically significant ($P < 0.05$). Based on the ETWB 34/2002 decision criteria detailed above, all the test sediment samples passed the amphipod test, except CS2.

Amphipod survival in the clean negative control sediment (mud and sand collected from a clean area on the eastern coast of the New Territories and Hong Kong Island, respectively) was 90.0 % indicating that the individuals used in the tests were in good condition (survival acceptability criterion is $\geq 90\%$; *Annex C*). The positive control (reference toxicant test conducted with cadmium chloride) indicated that the sensitivity of the amphipods was within acceptable limits as the 96-h LC₅₀ was 0.99 mg L^{-1} Cd (laboratory control limits are $0.92 \pm 0.41 \text{ mg L}^{-1}$ Cd [mean \pm 2SD]). Water quality parameters throughout the testing were within acceptable ranges for this species (*Annex C*).

Polychaete Growth

For polychaetes held in the Reference sediment, the mean total dry weight on day 20 of the test was $46.8 \pm 22.2 \text{ mg}$ (mean \pm SD). The mean total dry weight of polychaetes held in the testing composite samples on day 20 ranged between 58.1 – 133.5% of the Reference sediment. There were five composite samples (CS1, CS2, CS7, CS8 and CS9) with mean polychaete growth less than 90% of the Reference sediment, however, statistical tests indicated that the differences were statistically not significant ($P > 0.05$). Based on the ETWB 34/2002 decision criteria detailed above, all the test sediment samples passed the polychaete test.

Mean polychaete survival in the clean negative control was 100.0% (survival acceptability criterion is $\geq 90\%$; *Annex C*) indicating that the individuals used in the tests were in good condition. The positive control (reference toxicant test conducted with cadmium chloride) indicated that the sensitivity of the polychaetes was within acceptable limits as the 96-h LC₅₀ was 10.67 mg L^{-1} Cd (laboratory control limits are $9.89 \pm 3.20 \text{ mg L}^{-1}$ Cd [mean \pm 2SD]). Water quality parameters throughout the testing were within acceptable ranges for this polychaete species (*Annex C*).

Bivalve Larvae Normal Survival

The 48-h normality survival rate of the bivalve larvae held in the Reference sediment was $70.3 \pm 5.5\%$ (mean \pm SD). The normality survival of the bivalve larvae held in the composite

samples ranged between 69.6 – 114.8% of the Reference sediment. There were four composite samples (CS1, CS2, CS3 and CS4) with the larval normality survival rate less than 80% of the Reference sediment and the statistical tests indicated that the differences were statistically significant ($P<0.05$). Based on the ETWB 34/2002 decision criteria, all of the test sediment samples passed the 48-h bivalve larval test, except CS1, CS2, CS3 and CS4.

The mean larval survival in the clean negative seawater controls (0.45 μm filtered natural seawater collected from Hong Kong Island) was 72.5% indicating that the individuals used in the tests were in a good condition (acceptable test validity for larval survival is $>70\%$; *Annex C*). The positive control (reference toxicant test conducted with cadmium chloride) indicated that the sensitivity of the bivalve larvae was within acceptable limits as the 48-h EC₅₀ was 1.44 mg L⁻¹ Cd (laboratory control limits are 1.45 ± 0.54 mg L⁻¹ Cu [mean \pm 2SD]). Water quality parameters throughout the testing were within acceptable ranges for this bivalve species (*Annex C*).

5 SEDIMENT CLASSIFICATION

In accordance with ETWB 34/2002 chemical analyses revealed that 41 test sediment samples were Category L (all drill holes) while 16 sediment samples were Category M (due to lead, copper, mercury and arsenic concentrations exceeding the LCEL, *Table 1*) which were present in selected depth from drill hole MVA1-MVA4 and MVA8 to MVA13. The Category L material shall be dredged, transported and disposed of in a manner which minimizes the loss of contaminants either into solution or by resuspension and the material can be disposed of in Type I Open Sean Disposal facility (*Figure 2*).

Based on the chemical analyses, the 16 Category M sediment samples were required to undergo biological screening to determine the ultimate disposal option. A suite of bioassays was conducted following the protocols, endpoints and pass/fail criteria stipulated in ETWB 34/2002. Significant differences were evident between test and Reference sediments for the composite samples. Based on both the statistical test results and failure criteria (based on percentage differences in endpoint response between the test and Reference sediments) all composite samples passed the polychaete growth test; composite sample CS2 (representing 3 samples from vibrocore MVA1) failed the amphipod test; composite samples CS1, CS2, CS3 and CS4 failed the bivalve larval assay. As the sediment is deemed to have failed the biological screening if a failure is recorded in any one of the three bioassays, the four composite samples (CS1-CS4; representing 7 individual samples from vibrocores MVA1-4) failed the biological screening and are suitable for Type 2 Confined Marine Disposal (*Figure 2*). Composite samples CS5-13 (represent 9 individual samples from vibrocores MVA8-13) passed the biological screening and are suitable for Type 1 Open Sea Disposal (Dedicated Sites) facility. The Category M material must be dredged and transported with care and effectively isolated from the environment upon final disposal. The disposal options for the material to be dredged along the pipeline alignment are summarised in Table 6 below.

Table 6 Summary of Disposal Options

| Depth (m) | Vibrocore No. | | | | | | | | | | | | |
|--------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| | MVA 1 | MVA 2 | MVA 3 | MVA 4 | MVA 5 | MVA 6 | MVA 7 | MVA 8 | MVA 9 | MVA 10 | MVA 11 | MVA 12 | MVA 13 |
| 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | ID | ID | ID | ID | 1 | ID |
| -0.9 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ID | 1 | ID |
| -1.9 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | ID | 1 | 1 | 1 | 1 | 1 |
| -2.9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ID | 1 |
| -5.9 | - | - | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |

Note: 1 = Type 1 Open Sea Disposal; 1D = Type 1 Open Sea Disposal (Dedicated Sites); 2 = Type 2 Confined Marine Disposal; - = dredging not required; Shaded Cell = Category M material.

Figure 1

Site Location Plan for Proposed Fuel Pipeline

PAFF/BA/01/DWG/C/1023

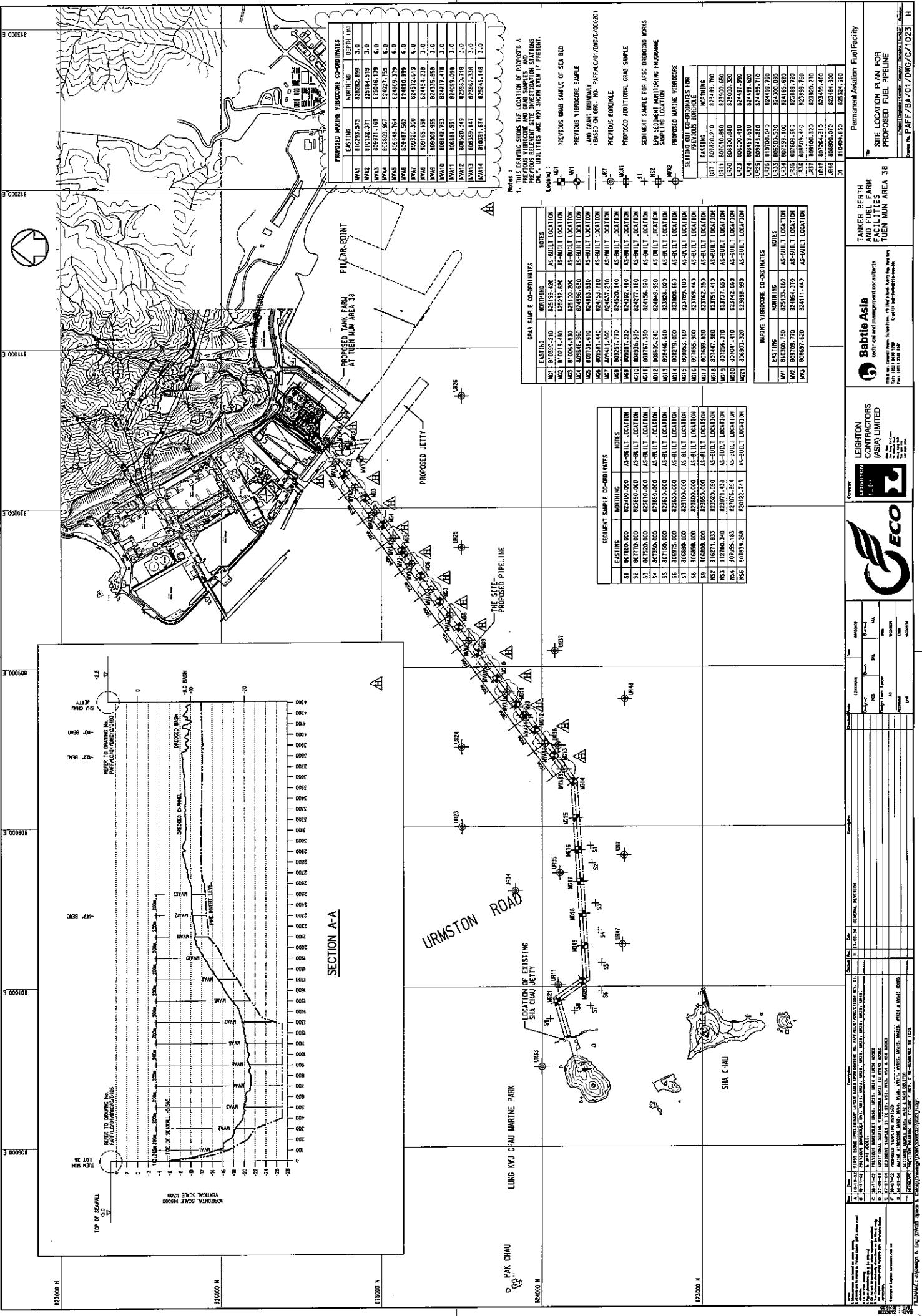
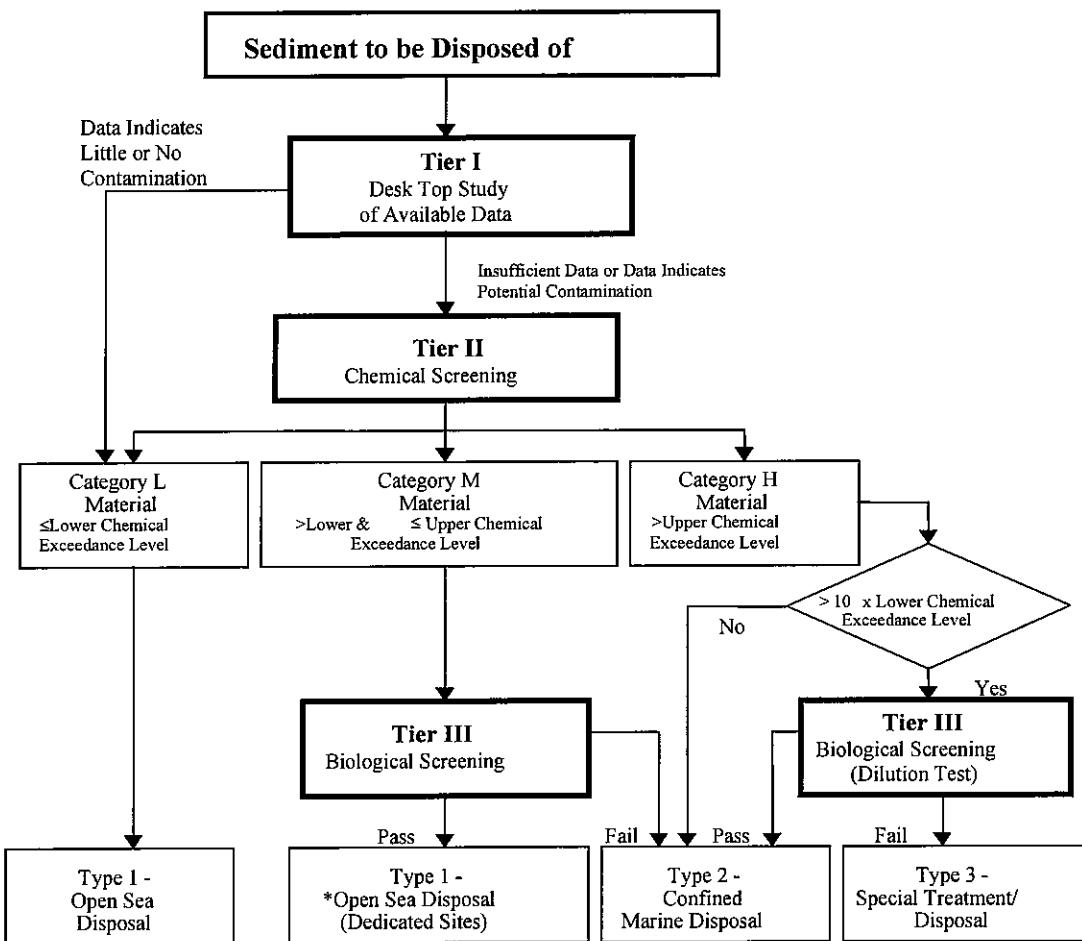


Figure 2

**Management Framework for Dredged/Excavated Sediment
(ETWB 34/2002; Appendix C)**



* Dedicated Sites will be monitored to confirm that there is no adverse impact.

Annex A

Vibrocore Logs and Sampling Co-ordinates



Lam Geotechnics Limited

Our Ref. : LG26010/1.0/018/06

Date : 29 June 2006

Leighton Contractors (Asia) Ltd.
39/F., Sun Hung Kai Centre
30 Harbour Road,
Hong Kong

By Fax
(2404-0081)

Attn: Mr. Brian Gillon

Dear Sir,

**Permanent Aviation Fuel Facility
At Area 38 Tuen Mun
Geotechnical Investigation
Submission of Records and Reports**

Please find attached the following documents.

| Document | No. of Copy | Description |
|--|-------------|--------------------------------|
| Daily Site Record | --- | --- |
| Preliminary Log | 1 | Vibrocoring Nos. MVA1 to MVA14 |
| Test Result | --- | --- |
| Draft Fieldwork Report with Photographs | --- | --- |
| Draft Laboratory Report with Photographs | --- | --- |
| Final Fieldwork Report with Photographs | --- | --- |
| Others (Specify) | --- | --- |

Remarks: For your comment.

Yours faithfully,
For and on behalf of
Lam Geotechnics Limited

H.M. Chow
Project Manager

Encl.

CM/jl



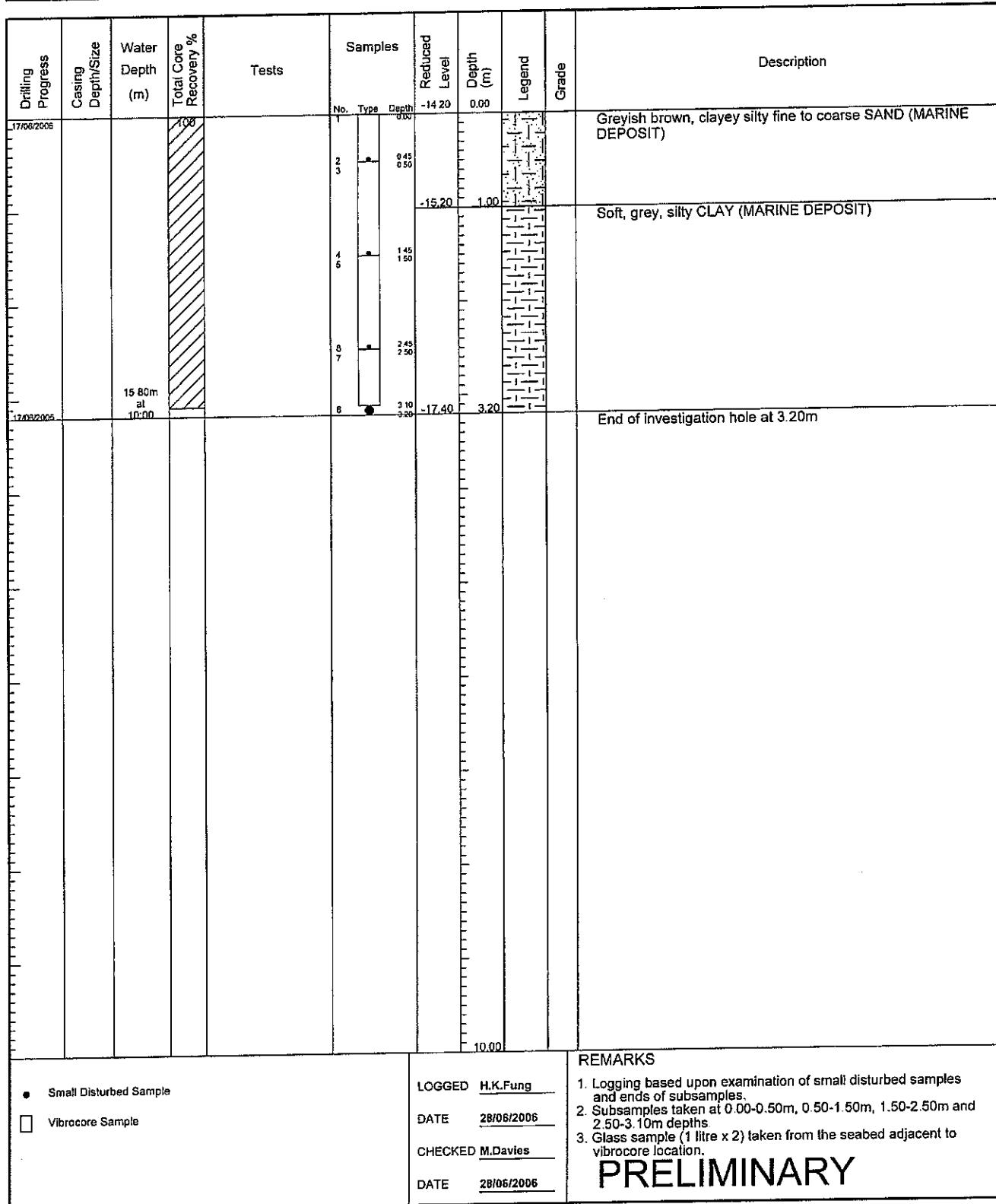
VIBROCORE RECORD

VIBROCORE No. MVA1

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------------|----------------------------|--|------------------------------------|------------|
| METHOD VC | CO-ORDINATES | | PROJECT No. | LG26010 |
| MACHINE & No. BR4 | E 810293.10 N 825283.60 | | DATE from 17/06/2006 to 17/06/2006 | |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | | GROUND LEVEL | -14.20 mPD |

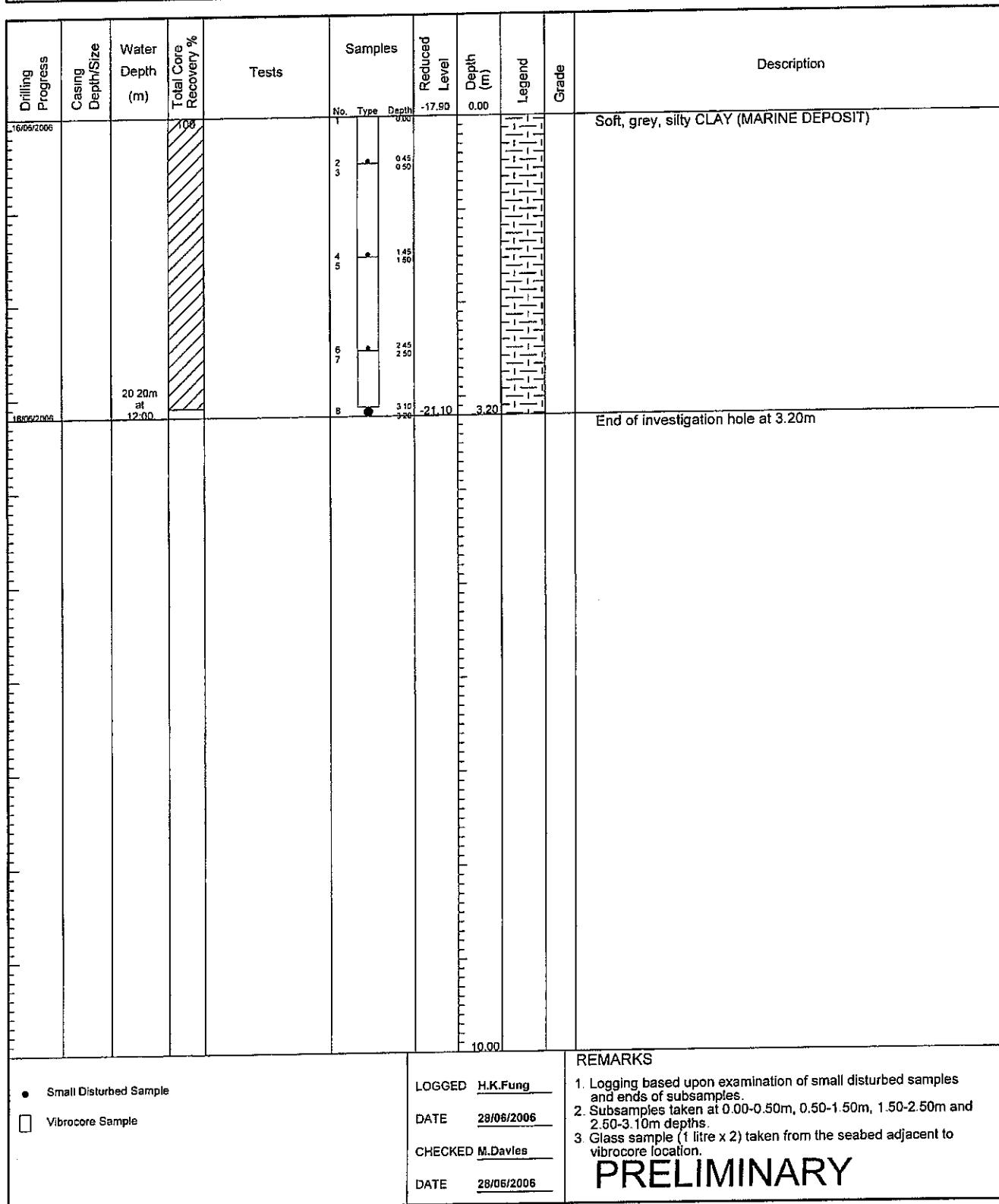


Lam**VIBROCORE RECORD**VIBROCORE No. **MVA2**

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | |
|-----------------------|--|------------------------------------|
| METHOD VC | CO-ORDINATES E 810132.80 N 825165.10 | PROJECT No. LG26010 |
| MACHINE & No. BR4 | | DATE from 16/06/2006 to 16/06/2006 |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | GROUND LEVEL -17.90 mPD |



Lam

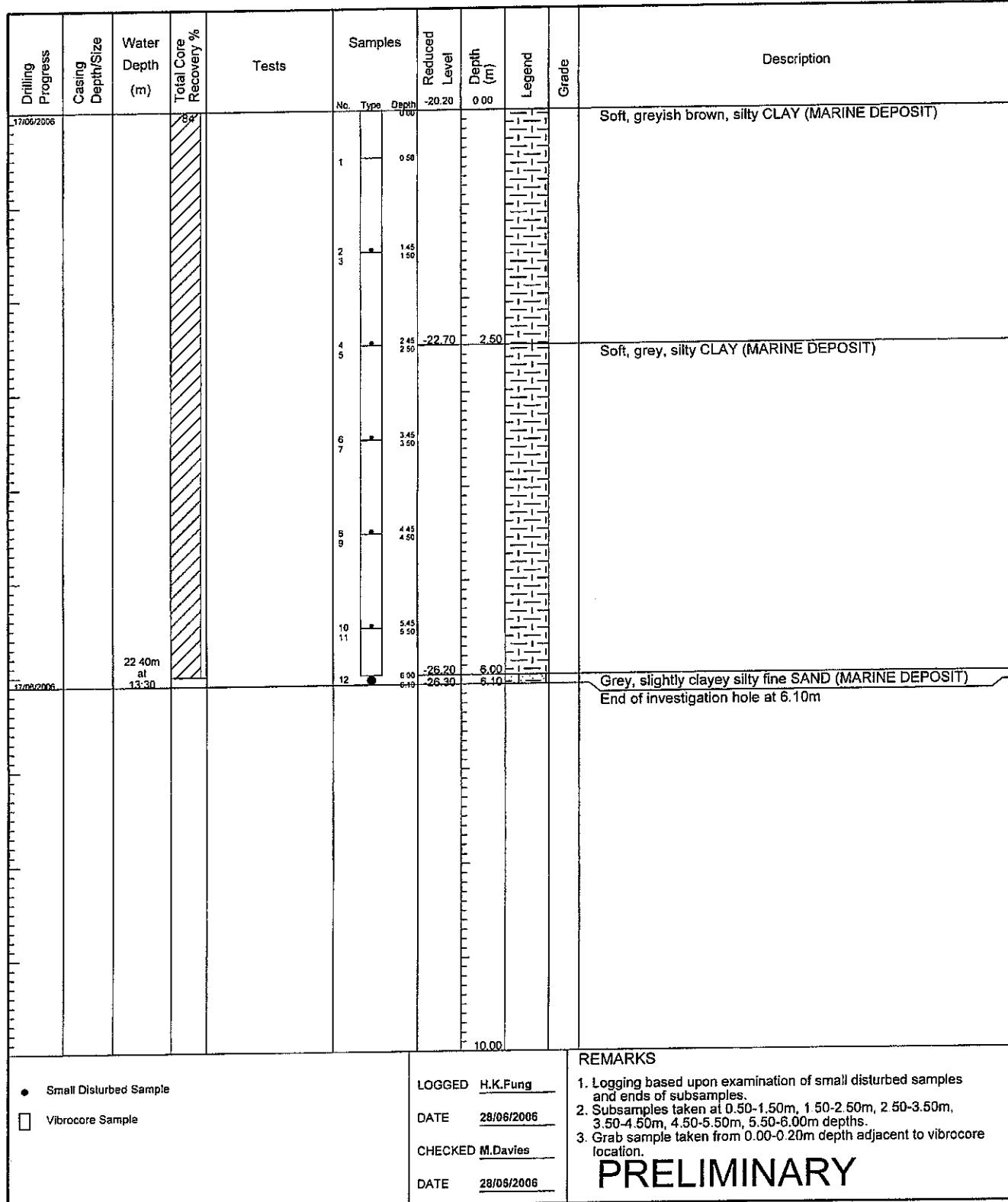
VIBROCORE RECORD

VIBROCORE No. MVA3

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | |
|-----------------------|--|------------------------------------|
| METHOD VC | CO-ORDINATES E 809971.80 N 825045.50 | PROJECT No. LG26010 |
| MACHINE & No. BR4 | | DATE from 17/06/2006 to 17/06/2006 |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | GROUND LEVEL -20.20 mPD |





VIBROCORE RECORD

VIBROCORE No. **MVA4**

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | | |
|-----------------------|--|----------------------------|----------|------------------------------------|------------|
| METHOD VC | | CO-ORDINATES | | PROJECT No. LG26010 | |
| MACHINE & No. BR4 | | E 809810.50 N 824927.40 | | DATE from 19/06/2006 to 19/06/2006 | |
| FLUSHING MEDIUM Water | | ORIENTATION | Vertical | GROUND LEVEL | -20.90 mPD |

- Small Disturbed Sample
 - Vibrocore Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.50-1.50m, 1.50-2.50m, 2.50-3.50m, 3.50-4.50m, 4.50-5.50m, 5.50-6.00m depths.
 3. Grab sample taken from 0.00-0.20m depth adjacent to vibrocoring location.

PRELIMINARY



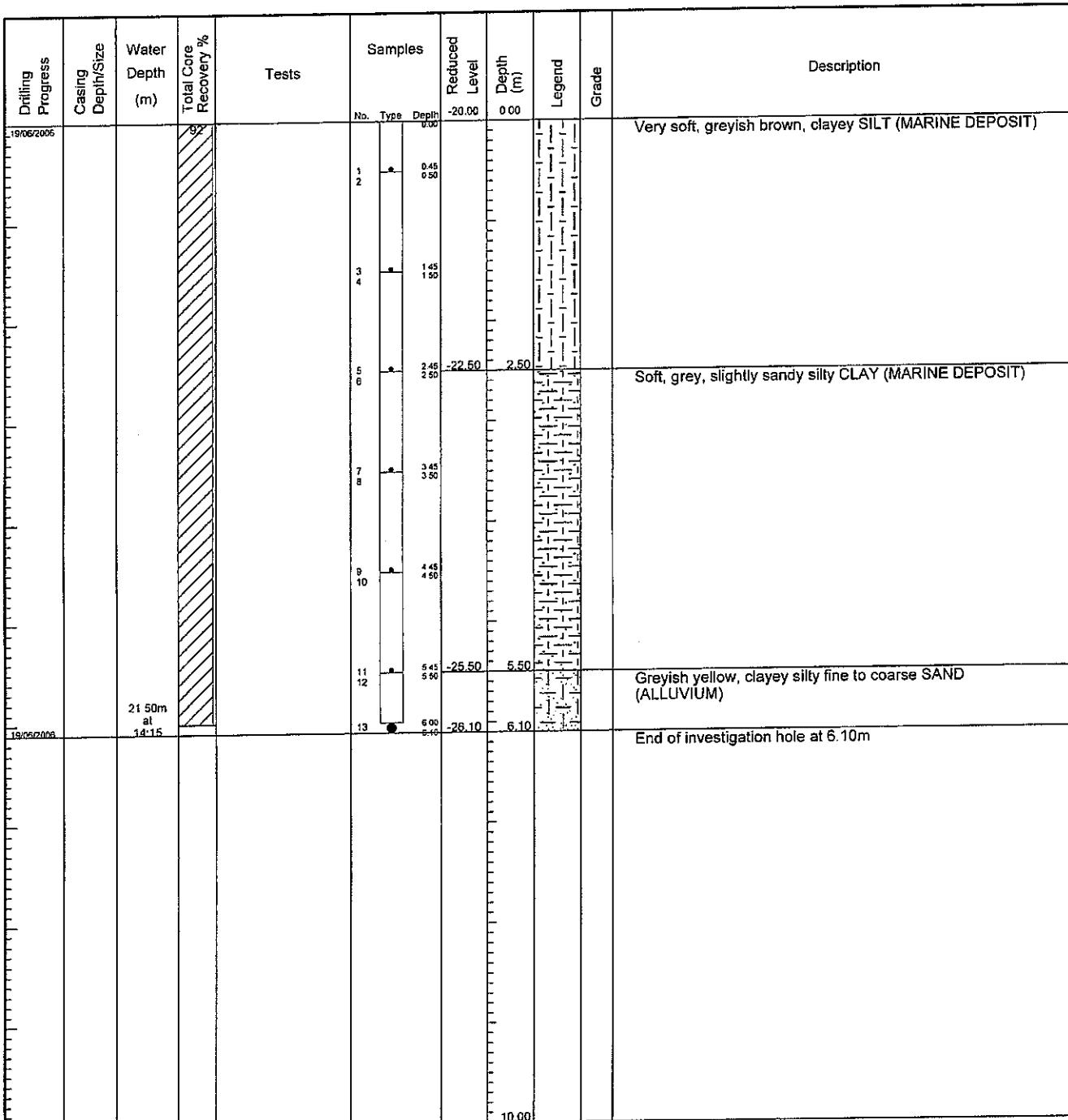
VIBROCORE RECORD

VIBROCORE No. MVA5

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 809648.80 N 824808.70 | DATE from | 19/06/2006 to 19/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -20.00 mPD |



- Small Disturbed Sample
 - Vibrocore Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.50-1.50m, 1.50-2.50m, 2.50-3.50m, 3.50-4.50m, 4.50-5.50m, 5.50-6.00m depths.
 3. Grab sample taken from 0.00-0.20m depth adjacent to vibrocoring location.

PRELIMINARY

lam

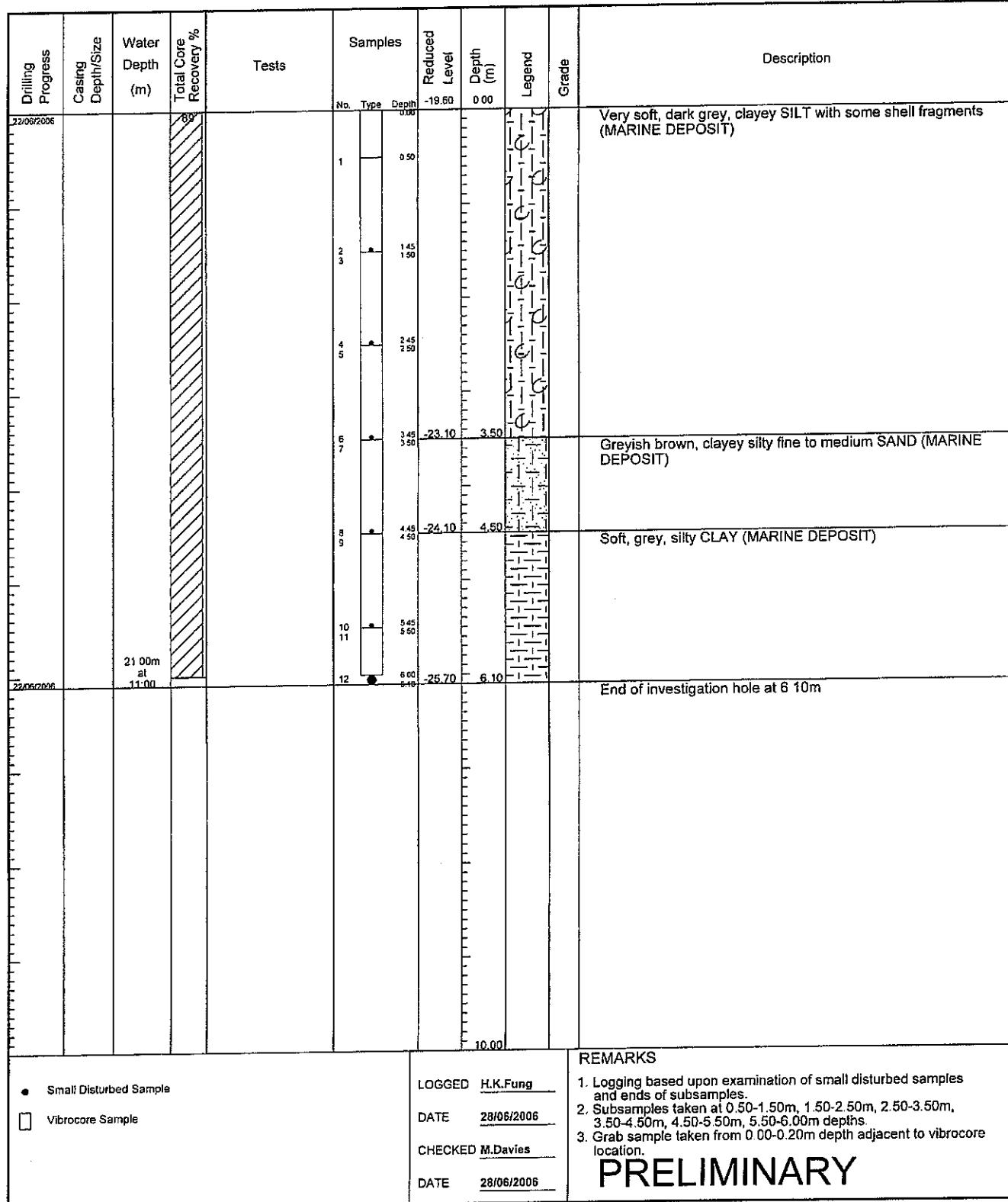
VIBROCORE RECORD

VIBROCORE No. MVA6

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

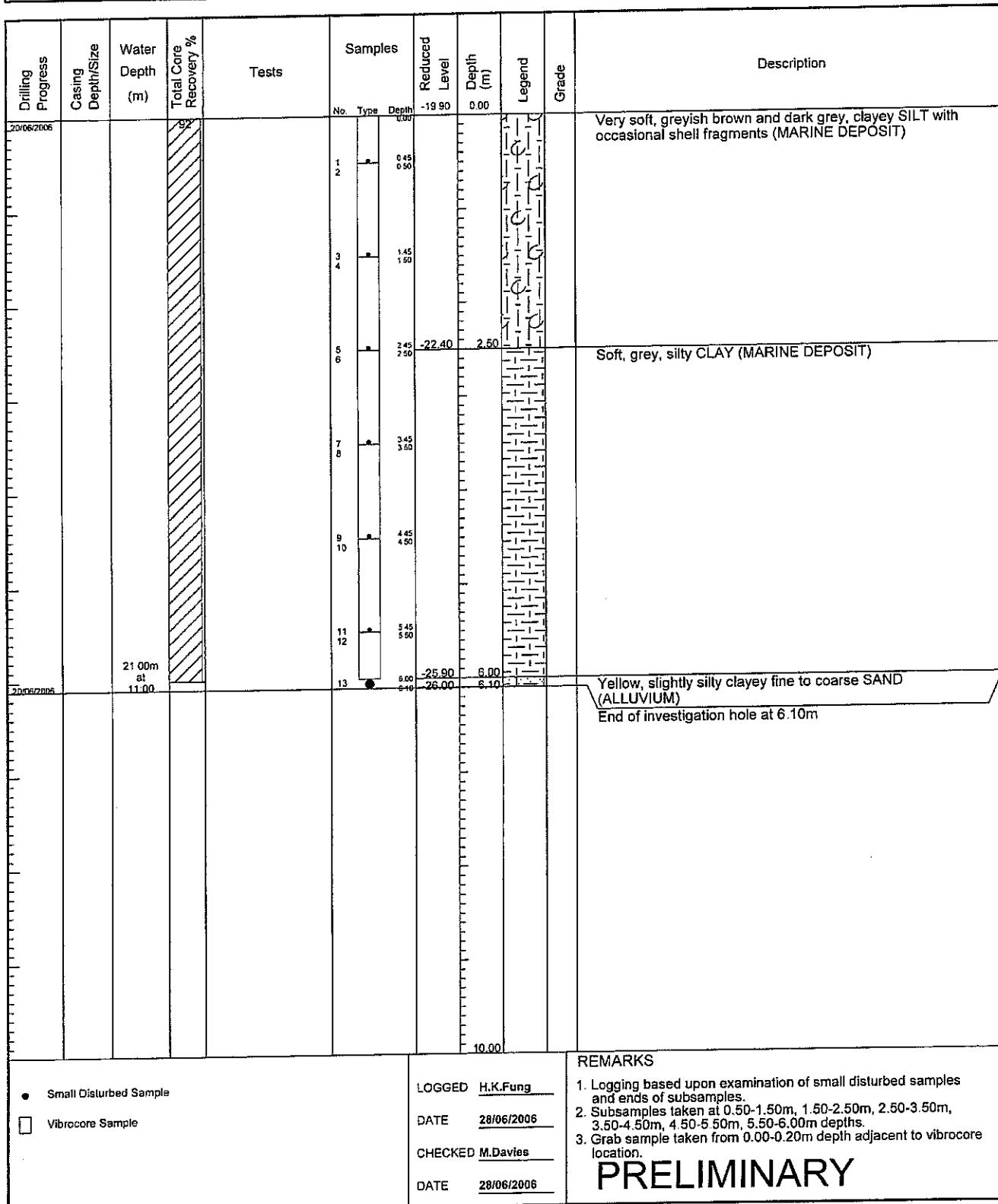
| | | |
|-----------------------|----------------------------|-------------------------|
| METHOD VC | CO-ORDINATES | PROJECT No. |
| MACHINE & No. BR4 | E 809486.90 N 824690.30 | LG26010 |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | GROUND LEVEL -19.60 mPD |



Lam**VIBROCORE RECORD**VIBROCORE No. **MVA7**SHEET **1** of **1**

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 809325.70 N 824573.20 | DATE from | 20/06/2006 to 20/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION Vertical | | GROUND LEVEL -19.90 mPD |





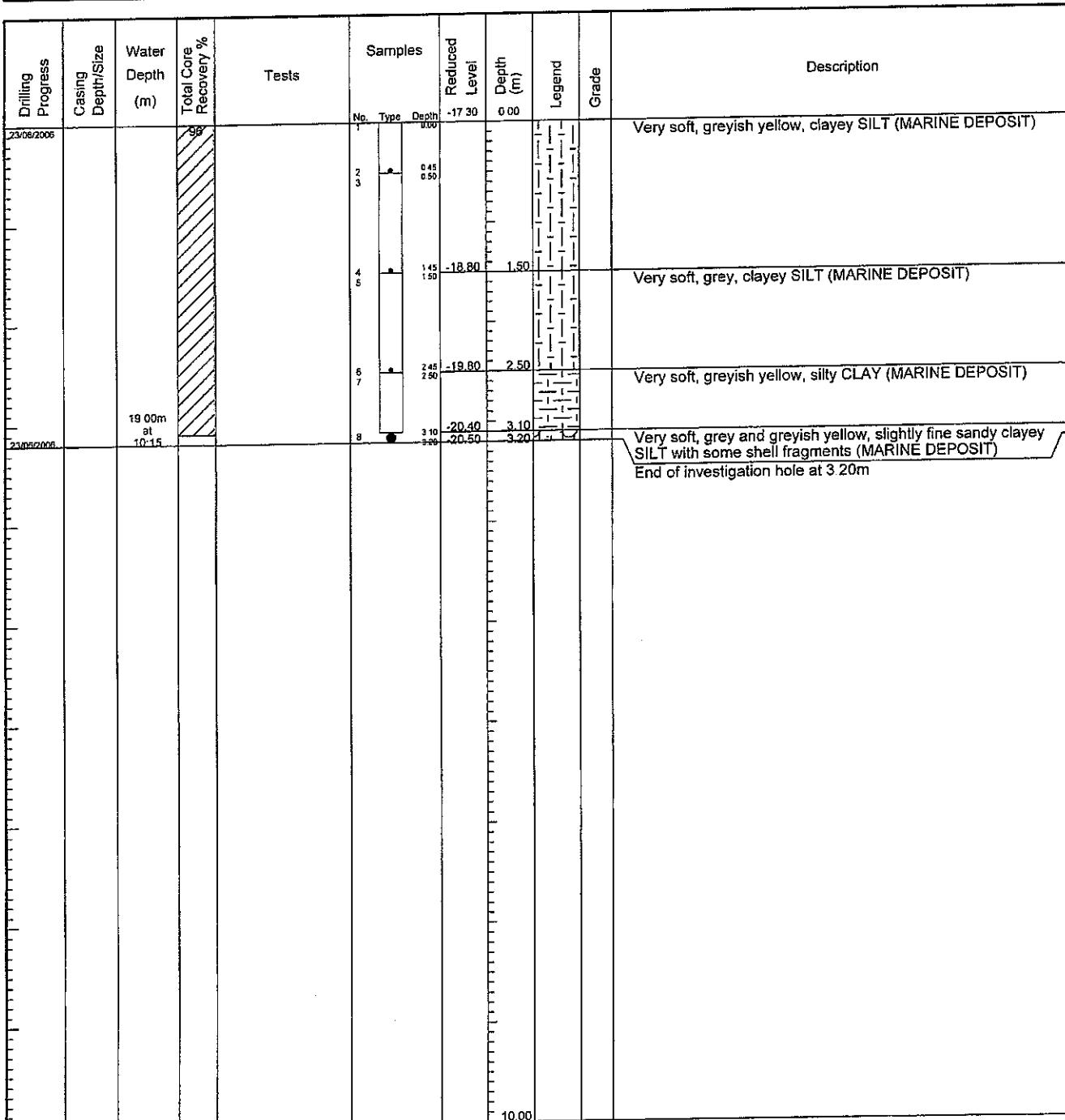
VIBROCORE RECORD

VIBROCORE No. **MVA8**

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 809165.60 N 824454.70 | DATE from | 23/06/2006 to 23/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -17.30 mPD |



- ### • Small Disturbed Sample

- #### Vibrocore Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.
 3. Grab sample taken from 0.00-0.20m depth adjacent to vibrocoring location.

PRELIMINARY



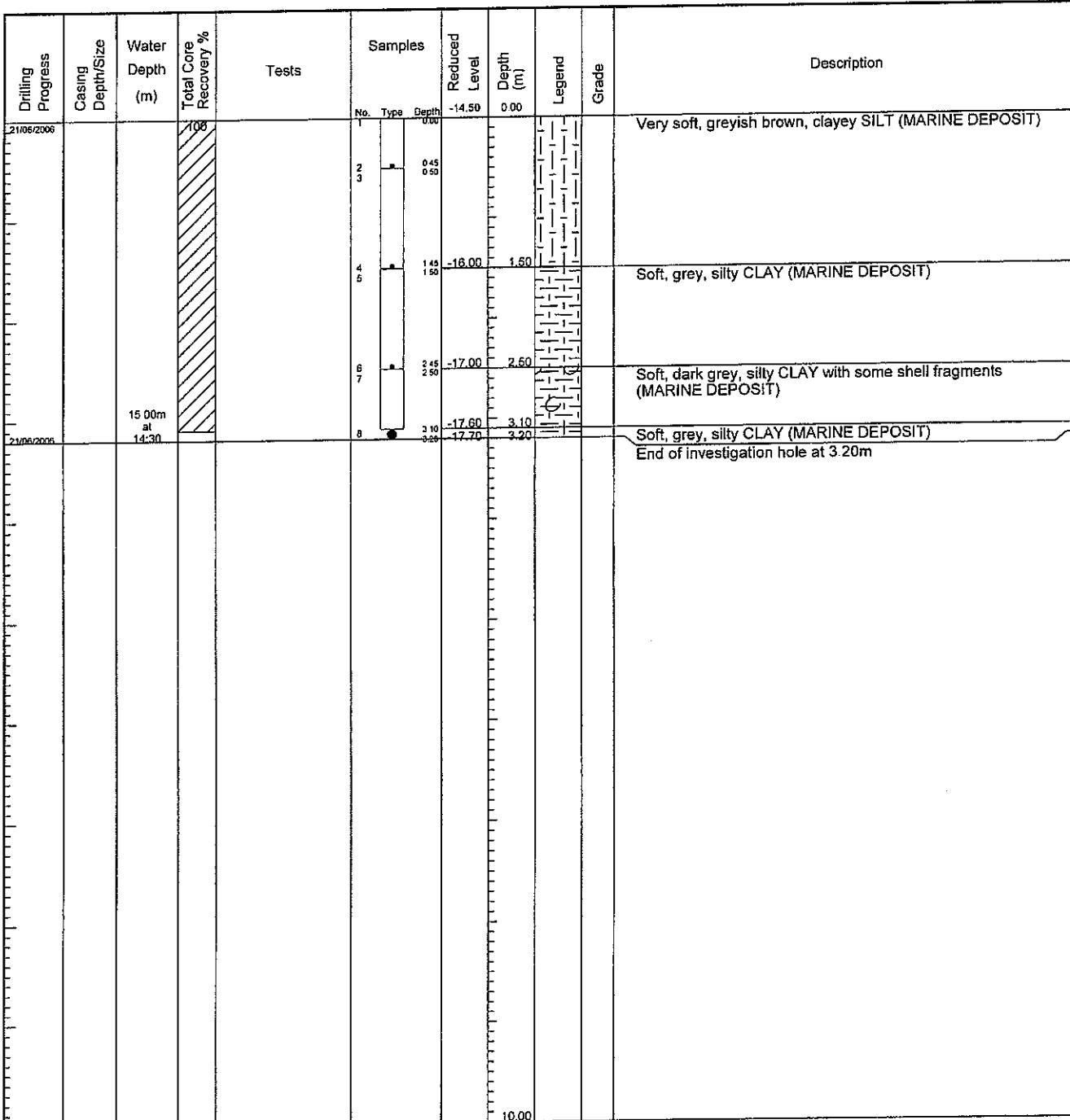
VIBROCORE RECORD

VIBROCORE No. MVA9

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 809003.30 N 824336.40 | DATE from | 21/06/2006 to 21/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -14.50 mPD |



- Small Disturbed Sample
 - Vibracore Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.

PRELIMINARY

lam

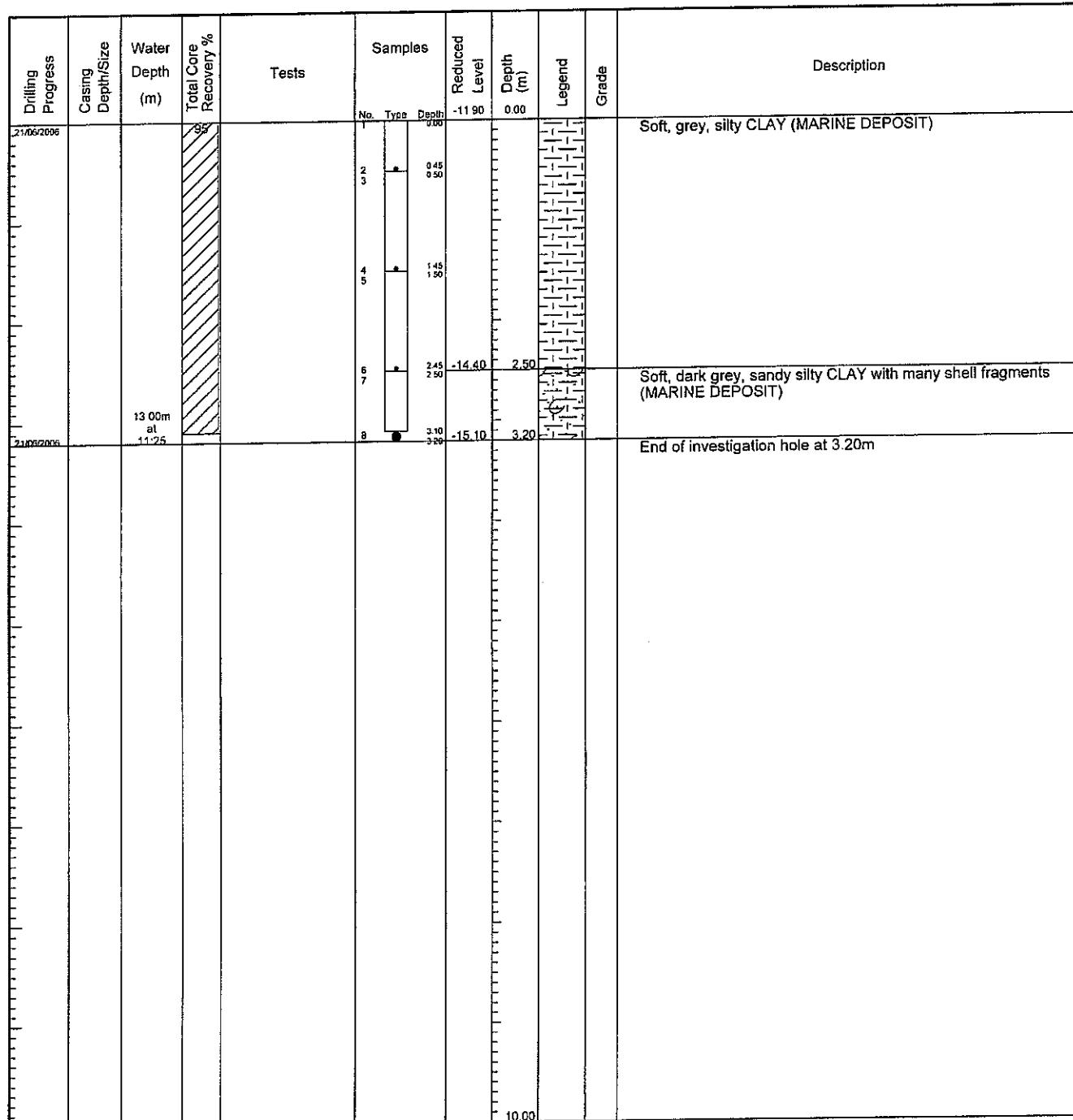
VIBROCORE RECORD

VIBROCORE No. MVA10

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | |
|-----------------------|--|------------------------------------|
| METHOD VC | CO-ORDINATES E 808842.30 N 824217.90 | PROJECT No. LG26010 |
| MACHINE & No. BR4 | | DATE from 21/06/2006 to 21/06/2006 |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | GROUND LEVEL -11.90 mPD |



REMARKS

- Small Disturbed Sample
 - Vibrocore Sample
- LOGGED H.K.Fung
DATE 28/06/2006
CHECKED M.Davies
DATE 28/06/2006
1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.
 3. Grab sample taken from 0.00-0.20m depth adjacent to vibrocore location.

PRELIMINARY

I am

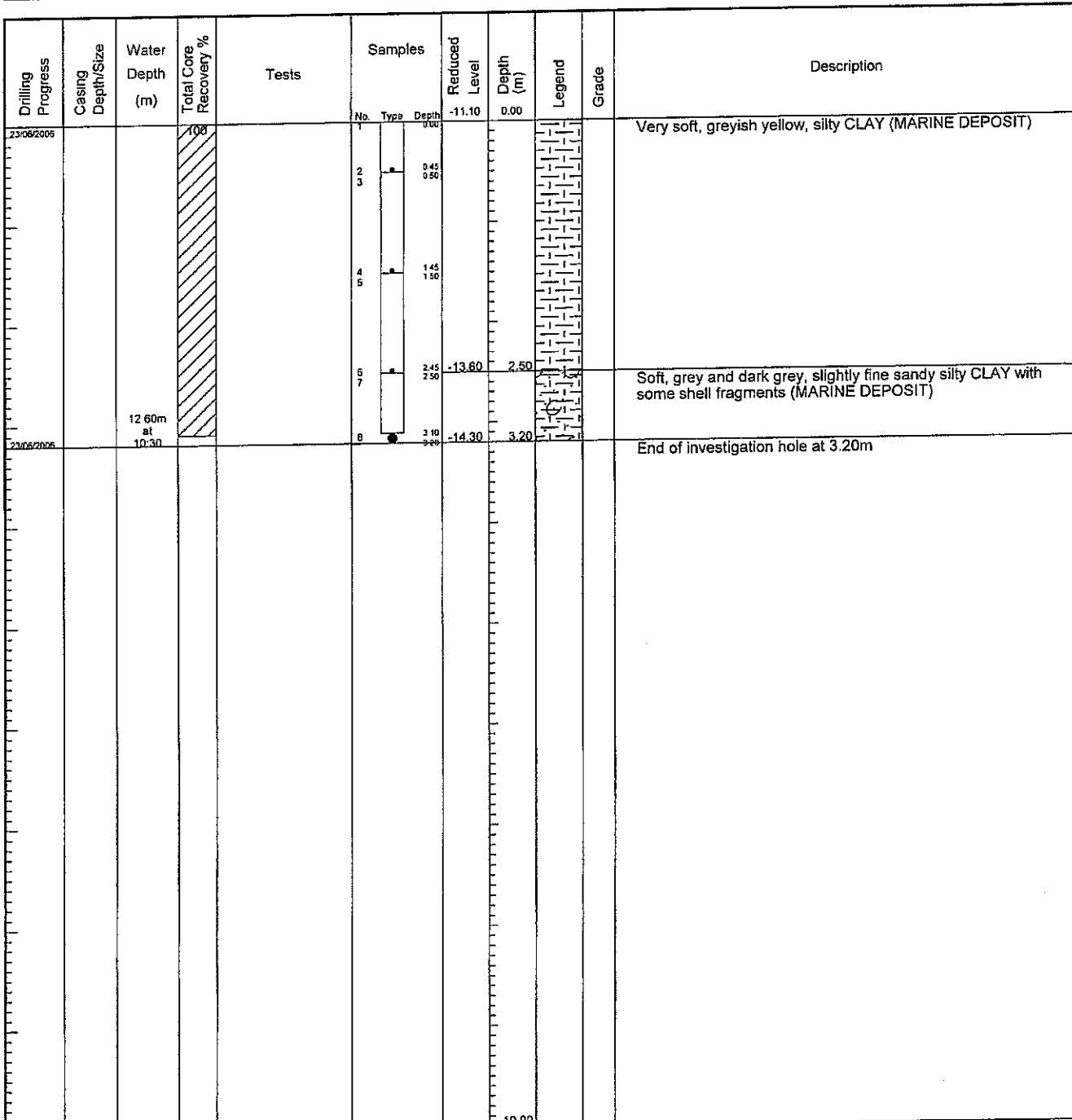
VIBROCORE RECORD

VIBROCORE No. MVA11

SHEET 1 OF 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|--|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES E 808681.80 N 824099.60 | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | | DATE from | 23/06/2006 to 23/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -11.10 mPD |



- Small Disturbed Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.

PRELIMINARY



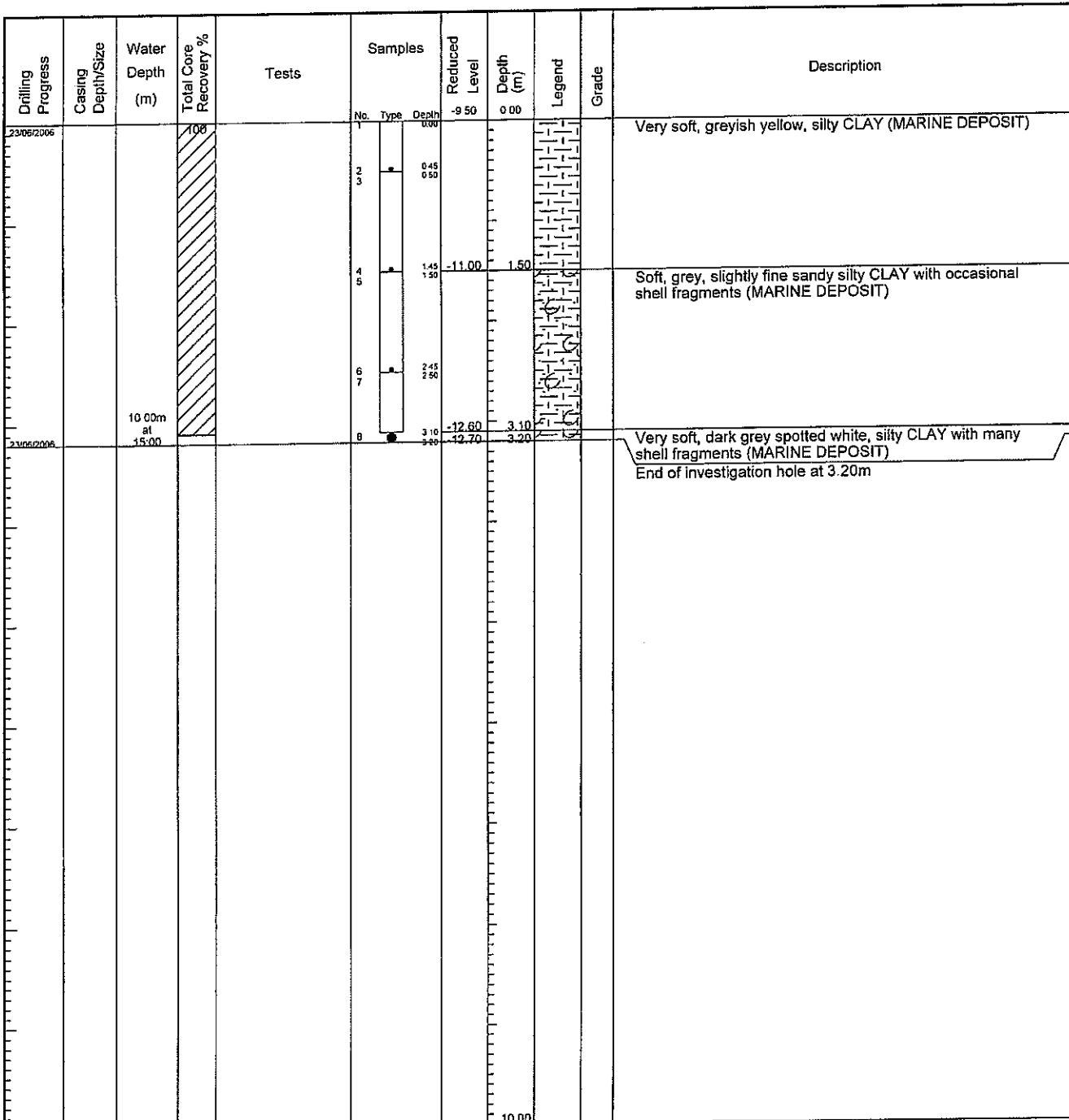
VIBROCORE RECORD

VIBROCORE No. MVA12

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 808520.70 N 823981.20 | DATE from | 23/06/2006 to 23/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -9.50 mPD |



- Small Disturbed Sample
 - Vibrocore Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.

PRELIMINARY

lam

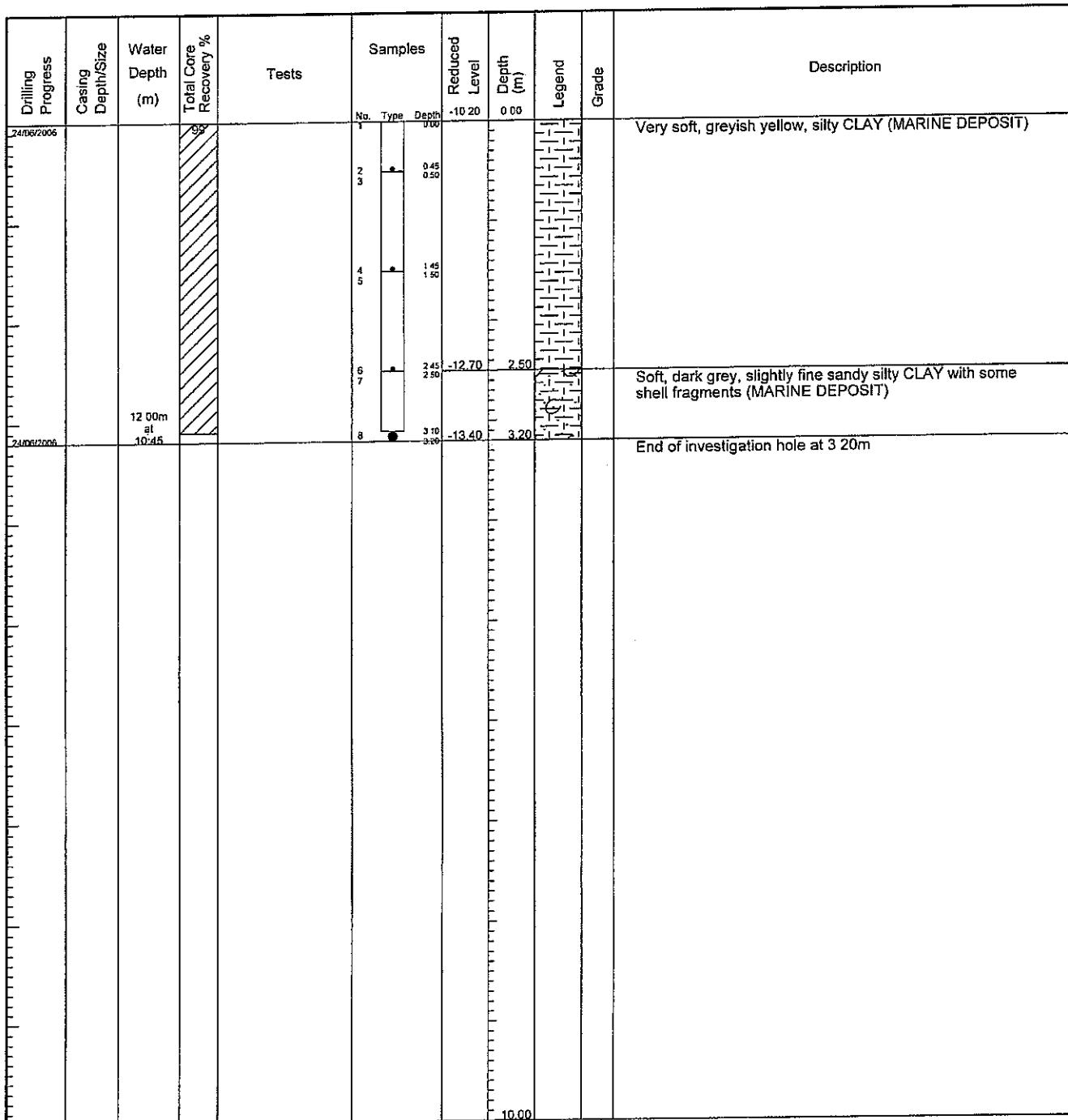
VIBROCORE RECORD

VIBROCORE No. MVA13

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | | | |
|-----------------|-------|----------------------------|-------------|--------------------------|
| METHOD | VC | CO-ORDINATES | PROJECT No. | LG26010 |
| MACHINE & No. | BR4 | E 808358.70 N 823862.50 | DATE from | 24/06/2006 to 24/06/2006 |
| FLUSHING MEDIUM | Water | ORIENTATION | Vertical | GROUND LEVEL -10.20 mPD |



- Small Disturbed Sample

LOGGED H.K.Fung

DATE 28/06/2006

CHECKED M.Davies

DATE 28/06/2006

REMARKS

1. Logging based upon examination of small disturbed samples and ends of subsamples.
 2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.

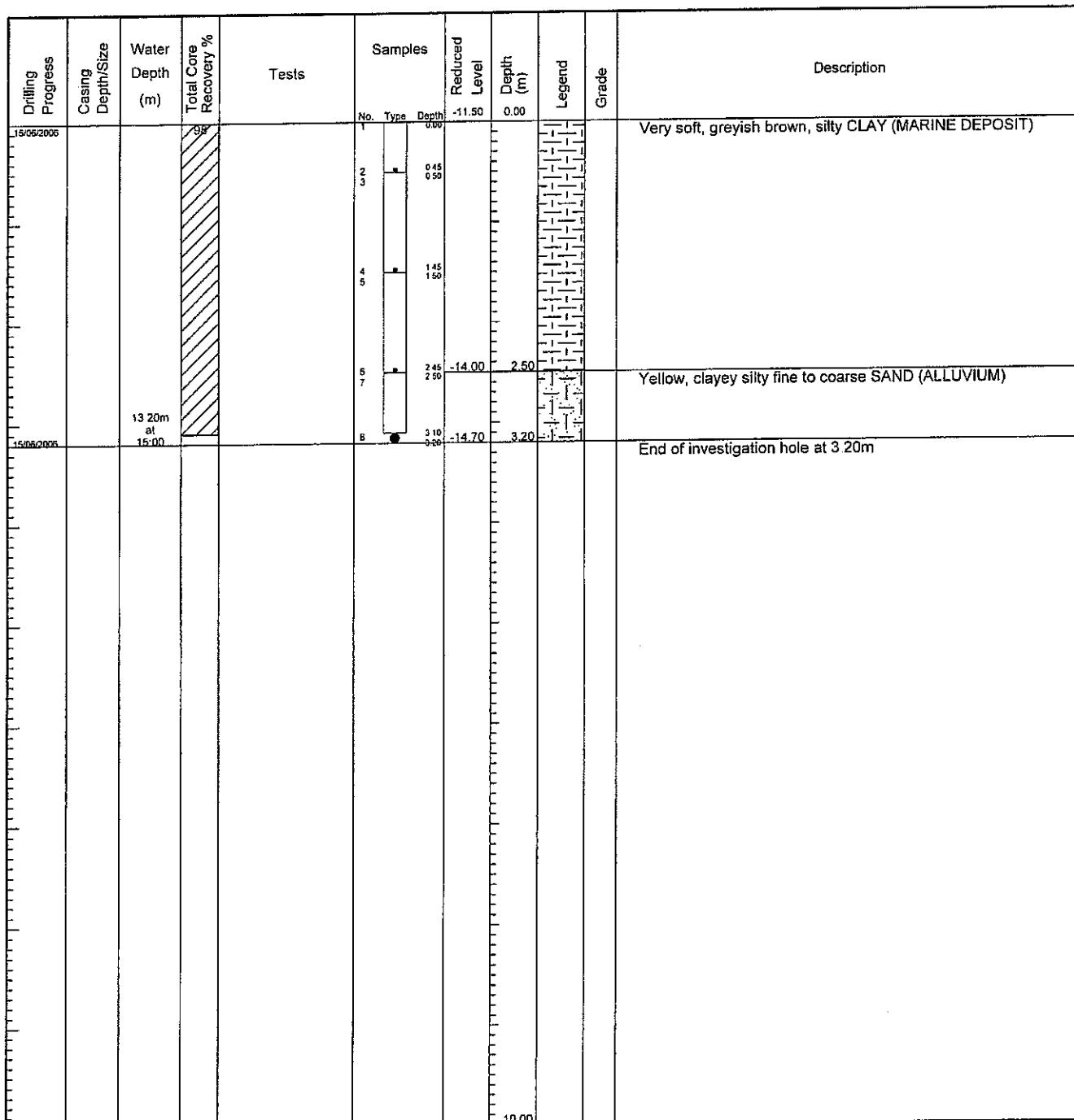
PRELIMINARY

Lam**VIBROCORE RECORD**VIBROCORE No. **MVA14**

SHEET 1 of 1

PROJECT Permanent Aviation Fuel Facility at Area 38 Tuen Mun

| | | |
|-----------------------|--|--|
| METHOD VC | CO-ORDINATES E 810391.30 N 825244.60 | PROJECT No. LG26010 |
| MACHINE & No. BR4 | | DATE from 15/06/2006 to 15/06/2006 |
| FLUSHING MEDIUM Water | ORIENTATION Vertical | GROUND LEVEL -11.50 mPD |

 Small Disturbed Sample Vibrocore SampleLOGGED H.K.FungDATE 28/06/2006CHECKED M.DaviesDATE 28/06/2006**REMARKS**

1. Logging based upon examination of small disturbed samples and ends of subsamples.
2. Subsamples taken at 0.00-0.50m, 0.50-1.50m, 1.50-2.50m and 2.50-3.10m depths.
3. Grab sample taken from 0.00-0.20m depth adjacent to vibrocore location.
4. Glass sample (1 litre x 2) taken from the seabed adjacent to vibrocore location.

PRELIMINARY

Annex B

Chemical Analysis Results

TEST REPORT

| | |
|---------------------|---|
| Report No. | : 100080N(1) |
| Project Name | : Permanent Aviation Fuel Facility |
| Customer | : Lam Geotechnics Limited |
| Address | : 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Lab Job No. | : J514 |
| Lab Sample No. | : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |
| Sample Description | : 57 samples said to be sediment |
| Sample Receipt Date | : 17 June 2006 - 26 June 2006 |
| Test Period | : 20 June 2006 - 06 July 2006 |

Test Information**1. Low Molecular Weight Polycyclic Aromatic Hydrocarbons, LMW PAHs**

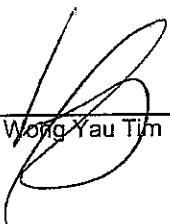
| CODE | Test Parameter | Reporting Limit | Test Procedure |
|------|----------------|-----------------|----------------|
| | | ug/kg | |
| NAP | Naphthalene | 55 | S/O/PAH |
| ANY | Acenaphthylene | 55 | S/O/PAH |
| ANA | Acenaphthene | 55 | S/O/PAH |
| FLU | Fluorene | 55 | S/O/PAH |
| PHE | Phenanthrene | 55 | S/O/PAH |
| ANT | Anthracene | 55 | S/O/PAH |

2. High Molecular Weight Polycyclic Aromatic Hydrocarbons, HMW PAHs

| CODE | Test Parameter | Reporting Limit | Test Procedure |
|------|------------------------|-----------------|----------------|
| | | ug/kg | |
| CHR | Chrysene | 170 | S/O/PAH |
| BaA | Benzo(a)anthracene | 170 | S/O/PAH |
| BbF | Benzo(b)fluoranthene | 170 | S/O/PAH |
| BkF | Benzo(k)fluoranthene | 170 | S/O/PAH |
| BaP | Benzo(a)pyrene | 170 | S/O/PAH |
| DBA | Dibenz(ah)anthracene | 170 | S/O/PAH |
| FLT | Fluoranthene | 170 | S/O/PAH |
| IPY | Indeno(1,2,3-cd)pyrene | 170 | S/O/PAH |
| PYR | Pyrene | 170 | S/O/PAH |
| BPE | Benzo(ghi)perylene | 170 | S/O/PAH |

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results relate to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods only) as follows:
S/O/PAH:Ultra-Sonic extraction and GC-MS Quantification.
 8. This report supersedes the one dated 06 July 2005 with report no.100080N.

Authorized Signatory



 Wong Yau Tim

Issue Date:

14 Jul. 2006

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

| Customer Ref. | Sample | | | | NAP ug/kg | ANY ug/kg | ANA ug/kg | FLU ug/kg | PHE ug/kg | ANT ug/kg | | | | | | |
|---------------|----------|------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|--|--|--|--|
| | Depth, m | | Type | Specimen Depth m | | | | | | | | | | | | |
| | No. | From | | | | | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA2 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA2 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA2 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA1 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA1 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA1 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA1 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA3 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA3 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA3 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA3 | NA | 5.80 | 6.00 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA4 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA4 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA4 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA4 | NA | 5.80 | 6.00 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA5 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA5 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA5 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA5 | NA | 5.80 | 6.00 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

| Customer Ref. | Sample | | | CHR | BaA | BbF | BkF | BaP | DBA | FLT | IPY | PYR | BPE | |
|---------------|---------------|----------|------|-----|----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Drillhole No. | Depth, m | Type | | | | | | | | | | | |
| | | No. | From | To | Specimen | Depth m | ug/kg |
| MVA2 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA2 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA2 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA2 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA1 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA1 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA1 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA1 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA3 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA3 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA3 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA3 | NA | 5.80 | 6.00 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA4 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA4 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA4 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA4 | NA | 5.80 | 6.00 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA5 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA5 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA5 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA5 | NA | 5.80 | 6.00 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |

TEST REPORT

| | | |
|----------------|---|--|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509, 17513, 17519, 17528, 17540, 17548, 17557, 17569, 17563, 17577 |

Test Results

1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs

| Customer Ref. Drillhole No. | Sample | | | | NAP ug/kg | ANY ug/kg | ANA ug/kg | FLU ug/kg | PHE ug/kg | ANT ug/kg | | | | | | |
|--------------------------------|----------|------|------|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|--|--|--|--|
| | Depth, m | | | Type Specimen Depth m | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | |
| MVA7 | NA | 0.90 | 1.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA7 | NA | 1.70 | 1.90 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA7 | NA | 2.90 | 3.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA7 | NA | 5.80 | 6.00 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA9 | NA | 0.00 | 0.20 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA9 | NA | 0.90 | 1.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA9 | NA | 1.70 | 1.90 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA9 | NA | 2.90 | 3.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA10 | NA | 0.00 | 0.20 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA10 | NA | 0.90 | 1.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA10 | NA | 1.70 | 1.90 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA10 | NA | 2.90 | 3.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA6 | NA | 0.90 | 1.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA6 | NA | 1.70 | 1.90 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA6 | NA | 2.90 | 3.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA6 | NA | 5.80 | 6.00 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA13 | NA | 0.00 | 0.20 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA13 | NA | 0.90 | 1.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA13 | NA | 1.70 | 1.90 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA13 | NA | 2.90 | 3.10 | NA | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | |

TEST REPORT

| | | |
|-----------------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2. High Molecular Weight Polycyclic Aromatic Hydrocarbons, HMW PAHs**

| Customer Ref. | Sample | | | CHR | BaA | BbF | BkF | BaP | DBA | FLT | IPY | PYR | BPE | |
|---------------|----------|------|------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Depth, m | | Type | | | | | | | | | | | |
| Drillhole No. | No. | From | To | | | | | | | | | | | |
| | | | | Depth m | ug/kg |
| MVA7 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA7 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA7 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA7 | NA | 5.80 | 6.00 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA9 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA9 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA9 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA9 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA10 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA10 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA10 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA10 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA6 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA6 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA6 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA6 | NA | 5.80 | 6.00 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA13 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA13 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA13 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA13 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

| Customer Ref. Drillhole No. | Sample | | | | NAP ug/kg | ANY ug/kg | ANA ug/kg | FLU ug/kg | PHE ug/kg | ANT ug/kg | | | | | | |
|--------------------------------|----------|------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|--|--|--|--|
| | Depth, m | | Type | Specimen Depth m | | | | | | | | | | | | |
| | No. | From | | | | | | | | | | | | | | |
| MVA8 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA8 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA8 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA8 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA11 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA11 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA11 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA11 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA12 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA12 | NA | 0.90 | 1.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA12 | NA | 1.70 | 1.90 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA12 | NA | 2.90 | 3.10 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| Reference Sample | NA | NA | NA | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA3 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA4 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA5 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA6 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |
| MVA7 | NA | 0.00 | 0.20 | | NA | <55 | <55 | <55 | <55 | <55 | | | | | | |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

| Customer Ref. | Sample | | | Specimen Depth m | CHR | BaA | BbF | BkF | BaP | DBA | FLT | IPY | PYR | BPE |
|------------------|---------------|----------|------|------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Drillhole No. | Depth, m | | | Type | ug/kg |
| | | No. | From | To | Depth m | ug/kg |
| MVA8 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA8 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA8 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA8 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA11 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA11 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA11 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA11 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA12 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA12 | NA | 0.90 | 1.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA12 | NA | 1.70 | 1.90 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA12 | NA | 2.90 | 3.10 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| Reference Sample | NA | NA | NA | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA3 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA4 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA5 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA6 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |
| MVA7 | NA | 0.00 | 0.20 | | NA | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 |

-----End of Report-----

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.1 Sample Duplicate**

| Customer Ref. | Sample | | | | Batch | NAP % | ANY % | ANA % | FLU % | PHE % | ANT % |
|----------------|----------|------|------|------------------|-------|----------------------|-------|-------|-------|-------|-------|
| | Depth, m | | | Type | | | | | | | |
| | No. | From | To | Specimen Depth m | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | na* | na* | na* | na* | na* |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | na* | na* | na* | na* | na* |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | na* | na* | na* | na* | na* |
| | | | | | | | | | | | |
| Control Limits | | | | | | +/- 30 % of the mean | | | | | |

1.2 Sample Spike (Spike Level = 5 ug)

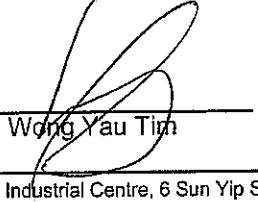
| Customer Ref. | Sample | | | | Batch | NAP % | ANY % | ANA % | FLU % | PHE % | ANT % | |
|----------------|----------|------|------|------------------|-------|------------|-------|-------|-------|-------|-------|-----|
| | Depth, m | | | Type | | | | | | | | |
| | No. | From | To | Specimen Depth m | | | | | | | | |
| MVA2 | N/A | 0.00 | 0.20 | | N/A | 1 | 86 | 85 | 83 | 85 | 87 | 89 |
| MVA7 | N/A | 0.90 | 1.10 | | N/A | 2 | 103 | 93 | 101 | 89 | 104 | 106 |
| MVA8 | N/A | 0.00 | 0.20 | | N/A | 3 | 104 | 94 | 96 | 88 | 89 | 99 |
| | | | | | | | | | | | | |
| Control Limits | | | | | | 70 - 130 % | | | | | | |

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

Authorized Signatory

:


Wong Yau Tim

Issue Date : 14 Jul. 2006

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.1 Sample Duplicate**

| Customer Ref. | Sample | | | | | Batch | CHR % | BaA % | BbF % | BkF % | BaP % | DBA % | FLT % | IPY % | PYR % | BPE % | | | | | | | | | | | | |
|----------------|----------|------|------|------|------------------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | | | | | | | | | | | |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | | | | | | | | | | | |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | na* | | | | | | | | | | | |
| Control Limits | | | | | | | +/- 30 % of the mean | | | | | | | | | | | | | | | | | | | | | |

2.2 Sample Spike (Spike Level = 5 ug)

| Customer Ref. | Sample | | | | | Batch | CHR % | BaA % | BbF % | BkF % | BaP % | DBA % | FLT % | IPY % | PYR % | BPE % | | | | | | | | | | | | |
|----------------|----------|------|------|------|------------------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | | | | |
| MVA2 | N/A | 0.00 | 0.20 | | N/A | 1 | 90 | 83 | 103 | 94 | 91 | 89 | 91 | 100 | 99 | 91 | | | | | | | | | | | | |
| MVA7 | N/A | 0.90 | 1.10 | | N/A | 2 | 113 | 85 | 101 | 100 | 103 | 89 | 104 | 89 | 102 | 92 | | | | | | | | | | | | |
| MVA8 | N/A | 0.00 | 0.20 | | N/A | 3 | 98 | 87 | 89 | 96 | 104 | 92 | 98 | 101 | 93 | 92 | | | | | | | | | | | | |
| Control Limits | | | | | | | 70 - 130 % | | | | | | | | | | | | | | | | | | | | | |

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.3 QC Sample (SETOC 2002.3.3)**

| Customer Ref. | Sample | | | | | Batch | NAP % | ANY % | ANA % | FLU % | PHE % | ANT % | | | | | | | |
|----------------|----------|------|-----|------|------------------|-----------------------------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | 1 | 104 | 95 | 108 | 92 | 87 | 94 | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | 2 | 102 | 90 | 120 | 84 | 86 | 86 | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | 3 | 103 | 100 | 109 | 118 | 85 | 82 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Control Limits | | | | | | 70 - 130 % of nominal value | | | | | | | | | | | | | |

1.4 Method Blank

| Customer Ref. | Sample | | | | | Batch | NAP ug/kg | ANY ug/kg | ANA ug/kg | FLU ug/kg | PHE ug/kg | ANT ug/kg | | | | | | | |
|----------------|----------|------|-----|------|------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 1 | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 2 | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 3 | <55 | <55 | <55 | <55 | <55 | <55 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Control Limits | | | | | | Less than reporting limit | | | | | | | | | | | | | |

QUALITY CONTROL REPORT

| | | |
|-----------------------|---|---|
| Report No. | : | 100080N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.3 QC Sample (SETOC 2002.3.3)**

| Customer Ref. | Sample | | | | | | Batch | CHR % | BaA % | BbF % | BkF % | BaP % | DBA % | FLT % | IPY % | PYR % | BPE % | | | | | | | | | | | | |
|----------------|----------|------|-----|------|------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | | 1 | 96 | 84 | 107 | 85 | 93 | 106 | 79 | 88 | 86 | 94 | | | | | | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | | 2 | 101 | 91 | 102 | 92 | 99 | 89 | 85 | 87 | 92 | 93 | | | | | | | | | | | | |
| SETOC 2002.3.3 | N/A | N/A | N/A | | N/A | | 3 | 96 | 89 | 105 | 96 | 102 | 113 | 92 | 95 | 87 | 91 | | | | | | | | | | | | |
| Control Limits | | | | | | 70 - 130% of nominal value | | | | | | | | | | | | | | | | | | | | | | | |

2.4 Method Blank

| Drillhole No. | Sample | | | | | | Batch | CHR ug/kg | BaA ug/kg | BbF ug/kg | BkF ug/kg | BaP ug/kg | DBA ug/kg | FLT ug/kg | IPY ug/kg | PYR ug/kg | BPE ug/kg | | | | | | | | | | | | |
|----------------|----------|------|-----|------|------------------|---------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | | 1 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | | | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | | 2 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | | | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | | 3 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | <170 | | | | | | | | | | | | |
| Control Limits | | | | | | Less than reporting limit | | | | | | | | | | | | | | | | | | | | | | | |

TEST REPORT

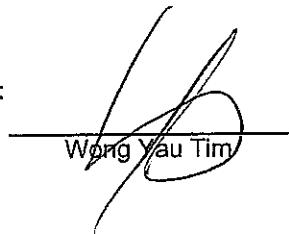
| | |
|----------------------------|---|
| Report No. | : 100062N(1) |
| Project Name | : Permanent Aviation Fuel Facility |
| Customer | : Lam Geotechnics Limited |
| Address | : 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Lab Job No. | : J514 |
| Lab Sample No. | : 17509, 17513, 17519, 17528, 17540, 17548, 17557, 17569, 17563, 17577 |
| Sample Description | : 57 samples said to be sediment |
| Sample Receipt Date | : 17 June 2006 - 26 June 2006 |
| Test Period | : 20 June 2006 - 5 July 2006 |

Test Information

| Code | Test Parameter | Reporting Limits | Test Procedure |
|------|----------------|------------------|------------------------|
| | | Sediment/Soil | |
| | | mg/kg | |
| Cd | Cadmium | 0.10 | S/M/DIG-RAR & M/ICP-MS |
| Cr | Chromium | 1.0 | S/M/DIG-RAR & M/ICP-MS |
| Cu | Copper | 1.0 | S/M/DIG-RAR & M/ICP-MS |
| Ni | Nickel | 1.0 | S/M/DIG-RAR & M/ICP-MS |
| Pb | Lead | 1.0 | S/M/DIG-RAR & M/ICP-MS |
| Zn | Zinc | 10 | S/M/DIG-RAR & M/ICP-MS |
| Hg | Mercury | 0.05 | S/M/DIG-RAR & M/ICP-MS |
| As | Arsenic | 1.0 | S/M/DIG-RAR & M/ICP-MS |
| Ag | Silver | 0.10 | S/M/DIG-RAR & M/ICP-MS |

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results related to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods) as follows:
 S/M/DIG-RAR: Acid digestion.
 M/ICP-MS: ICP-MS Quantification.
 8. This report supersedes the one dated 06 July 2005 with report no.100062N.

Authorized Signatory :



Wong Yau Tim

Issue Date: 14 July 2006

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Result

| Customer Ref. | Sample | | | | Cd mg/kg | Cr mg/kg | Cu mg/kg | Ni mg/kg | Pb mg/kg | Zn mg/kg | Hg mg/kg | As mg/kg | Ag mg/kg | | | | | | | | | |
|---------------|----------|------|------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|
| | Depth, m | | Type | Specimen Depth, m | | | | | | | | | | | | | | | | | | |
| | No. | From | | | | | | | | | | | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | NA | 0.16 | 38 | 39 | 22 | 47 | 99 | 0.15 | 12 | 0.70 | | | | | | | | | |
| MVA2 | NA | 0.90 | 1.10 | NA | 0.15 | 33 | 24 | 20 | 46 | 71 | 0.22 | 17 | 0.12 | | | | | | | | | |
| MVA2 | NA | 1.70 | 1.90 | NA | 0.12 | 25 | 11 | 16 | 84 | 56 | 0.12 | 10 | <0.10 | | | | | | | | | |
| MVA2 | NA | 2.90 | 3.10 | NA | 0.12 | 26 | 11 | 16 | 27 | 56 | 0.10 | 10 | <0.10 | | | | | | | | | |
| MVA1 | NA | 0.00 | 0.20 | NA | 0.18 | 43 | 69 | 25 | 69 | 100 | 0.19 | 12 | 0.42 | | | | | | | | | |
| MVA1 | NA | 0.90 | 1.10 | NA | 0.16 | 33 | 22 | 19 | 52 | 73 | 0.22 | 17 | 0.12 | | | | | | | | | |
| MVA1 | NA | 1.70 | 1.90 | NA | 0.14 | 29 | 12 | 18 | 32 | 62 | 0.69 | 13 | <0.10 | | | | | | | | | |
| MVA1 | NA | 2.90 | 3.10 | NA | 0.09 | 18 | 6.2 | 10 | 22 | 33 | 0.07 | 7.3 | 0.19 | | | | | | | | | |
| MVA3 | NA | 0.90 | 1.10 | NA | 0.19 | 49 | 72 | 26 | 66 | 120 | 0.22 | 14 | 0.41 | | | | | | | | | |
| MVA3 | NA | 1.70 | 1.90 | NA | 0.05 | 13 | 7.3 | 13 | 53 | 30 | 0.06 | 3.8 | <0.10 | | | | | | | | | |
| MVA3 | NA | 2.90 | 3.10 | NA | 0.12 | 49 | 12 | 18 | 31 | 62 | 0.10 | 11 | <0.10 | | | | | | | | | |
| MVA3 | NA | 5.80 | 6.00 | NA | 0.11 | 11 | 5.2 | 5.1 | 17 | 27 | 0.06 | 4.8 | <0.10 | | | | | | | | | |
| MVA4 | NA | 0.90 | 1.10 | NA | 0.13 | 27 | 29 | 16 | 48 | 85 | 0.15 | 11 | 0.33 | | | | | | | | | |
| MVA4 | NA | 1.70 | 1.90 | NA | 0.12 | 30 | 21 | 17 | 47 | 68 | 0.40 | 14 | <0.10 | | | | | | | | | |
| MVA4 | NA | 2.90 | 3.10 | NA | 0.15 | 24 | 10 | 15 | 41 | 55 | 0.09 | 10 | <0.10 | | | | | | | | | |
| MVA4 | NA | 5.80 | 6.00 | NA | 0.06 | 8.9 | 3.9 | 6.4 | 13 | 23 | <0.05 | 8.4 | <0.10 | | | | | | | | | |
| MVA5 | NA | 0.90 | 1.10 | NA | 0.13 | 25 | 23 | 14 | 42 | 79 | 0.10 | 10 | 0.30 | | | | | | | | | |
| MVA5 | NA | 1.70 | 1.90 | NA | 0.13 | 24 | 24 | 14 | 34 | 86 | 0.25 | 9.1 | 0.32 | | | | | | | | | |
| MVA5 | NA | 2.90 | 3.10 | NA | 0.13 | 26 | 12 | 16 | 32 | 59 | 0.16 | 11 | <0.10 | | | | | | | | | |
| MVA5 | NA | 5.80 | 6.00 | NA | 0.01 | 9.0 | 2.9 | 4.5 | 16 | 20 | 0.06 | 3.5 | <0.10 | | | | | | | | | |

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Result

| Customer Ref. | Sample | | | | Cd mg/kg | Cr mg/kg | Cu mg/kg | Ni mg/kg | Pb mg/kg | Zn mg/kg | Hg mg/kg | As mg/kg | Ag mg/kg | | | | | | | | | |
|---------------|----------|------|------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type Specimen Depth, m | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | |
| MVA7 | NA | 0.90 | 1.10 | NA | 0.13 | 32 | 18 | 19 | 44 | 78 | 0.08 | 10 | 0.20 | | | | | | | | | |
| MVA7 | NA | 1.70 | 1.90 | NA | 0.10 | 22 | 8.7 | 13 | 37 | 47 | 0.09 | 7.5 | <0.10 | | | | | | | | | |
| MVA7 | NA | 2.90 | 3.10 | NA | <0.10 | 25 | 10 | 14 | 26 | 51 | 0.09 | 7.4 | 0.13 | | | | | | | | | |
| MVA7 | NA | 5.80 | 6.00 | NA | <0.10 | 9.0 | 3.4 | 5.1 | 11 | 18 | 0.09 | 4.7 | <0.10 | | | | | | | | | |
| MVA9 | NA | 0.00 | 0.20 | NA | 0.15 | 40 | 30 | 24 | 47 | 77 | 0.21 | 16 | 0.13 | | | | | | | | | |
| MVA9 | NA | 0.90 | 1.10 | NA | <0.10 | 23 | 6.4 | 13 | 34 | 47 | 0.05 | 7.0 | <0.10 | | | | | | | | | |
| MVA9 | NA | 1.70 | 1.90 | NA | <0.10 | 24 | 5.3 | 13 | 30 | 50 | <0.05 | 6.5 | <0.10 | | | | | | | | | |
| MVA9 | NA | 2.90 | 3.10 | NA | 0.14 | 30 | 13 | 18 | 32 | 60 | 0.09 | 11 | <0.10 | | | | | | | | | |
| MVA10 | NA | 0.00 | 0.20 | NA | 0.16 | 43 | 35 | 26 | 50 | 88 | 0.19 | 17 | 0.16 | | | | | | | | | |
| MVA10 | NA | 0.90 | 1.10 | NA | <0.10 | 26 | 9.3 | 15 | 35 | 52 | 0.05 | 7.1 | <0.10 | | | | | | | | | |
| MVA10 | NA | 1.70 | 1.90 | NA | <0.10 | 23 | 4.6 | 13 | 30 | 46 | <0.05 | 7.2 | <0.10 | | | | | | | | | |
| MVA10 | NA | 2.90 | 3.10 | NA | 0.14 | 30 | 13 | 18 | 46 | 59 | 0.07 | 10 | <0.10 | | | | | | | | | |
| MVA6 | NA | 0.90 | 1.10 | NA | 0.13 | 24 | 22 | 14 | 35 | 74 | 0.09 | 10 | 0.25 | | | | | | | | | |
| MVA6 | NA | 1.70 | 1.90 | NA | 0.17 | 24 | 21 | 14 | 29 | 69 | 0.09 | 10 | 0.26 | | | | | | | | | |
| MVA6 | NA | 2.90 | 3.10 | NA | 0.13 | 27 | 12 | 17 | 32 | 59 | 0.06 | 9.3 | <0.10 | | | | | | | | | |
| MVA6 | NA | 5.80 | 6.00 | NA | <0.10 | 13 | 5.3 | 8.0 | 16 | 27 | <0.05 | 4.8 | <0.10 | | | | | | | | | |
| MVA13 | NA | 0.00 | 0.20 | NA | 0.17 | 37 | 41 | 23 | 55 | 99 | 0.13 | 15 | 0.33 | | | | | | | | | |
| MVA13 | NA | 0.90 | 1.10 | NA | 0.17 | 40 | 34 | 23 | 52 | 86 | 0.18 | 17 | 0.17 | | | | | | | | | |
| MVA13 | NA | 1.70 | 1.90 | NA | <0.10 | 18 | 11 | 17 | 41 | 61 | 0.06 | 8.7 | <0.10 | | | | | | | | | |
| MVA13 | NA | 2.90 | 3.10 | NA | <0.10 | 24 | 6.4 | 15 | 23 | 52 | <0.05 | 5.1 | <0.10 | | | | | | | | | |

TEST REPORT

| | | |
|----------------|---|--|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509, 17513, 17519, 17528, 17540, 17548, 17557, 17569, 17563, 17577 |

Test Result

| Customer Ref. | Sample | | | Specimen Depth, m | Cd | Cr | Cu | Ni | Pb | Zn | Hg | As | Ag |
|------------------|----------|------|------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Depth, m | | Type | | mg/kg |
| | No. | From | To | | mg/kg |
| MVA8 | NA | 0.00 | 0.20 | NA | 0.16 | 33 | 25 | 20 | 40 | 79 | 0.11 | 13 | 0.18 |
| MVA8 | NA | 0.90 | 1.10 | NA | 0.15 | 36 | 37 | 22 | 45 | 93 | 0.18 | 12 | 0.23 |
| MVA8 | NA | 1.70 | 1.90 | NA | 0.12 | 33 | 22 | 20 | 40 | 66 | 0.11 | 13 | <0.10 |
| MVA8 | NA | 2.90 | 3.10 | NA | <0.10 | 23 | 8.8 | 16 | 35 | 53 | 0.05 | 7.5 | <0.10 |
| MVA11 | NA | 0.00 | 0.20 | NA | 0.14 | 35 | 28 | 22 | 53 | 72 | 0.48 | 16 | 0.12 |
| MVA11 | NA | 0.90 | 1.10 | NA | 0.13 | 30 | 19 | 19 | 38 | 61 | 0.12 | 13 | <0.10 |
| MVA11 | NA | 1.70 | 1.90 | NA | <0.10 | 25 | 11 | 16 | 35 | 56 | 0.06 | 8.0 | <0.10 |
| MVA11 | NA | 2.90 | 3.10 | NA | <0.10 | 28 | 7.6 | 18 | 31 | 63 | 0.05 | 7.5 | <0.10 |
| MVA12 | NA | 0.00 | 0.20 | NA | <0.10 | 28 | 9.3 | 20 | 44 | 63 | 0.05 | 4.9 | <0.10 |
| MVA12 | NA | 0.90 | 1.10 | NA | <0.10 | 25 | 10 | 15 | 36 | 55 | 0.07 | 8.3 | <0.10 |
| MVA12 | NA | 1.70 | 1.90 | NA | <0.10 | 25 | 7.4 | 17 | 25 | 57 | <0.05 | 5.6 | 0.12 |
| MVA12 | NA | 2.90 | 3.10 | NA | 0.13 | 35 | 25 | 21 | 49 | 70 | 0.15 | 15 | <0.10 |
| Reference Sample | NA | NA | NA | NA | <0.10 | 19 | 7.5 | 14 | 28 | 44 | 0.06 | 5.0 | <0.10 |
| MVA3 | NA | 0.00 | 0.20 | NA | 0.14 | 32 | 35 | 13 | 38 | 95 | 0.16 | 11 | 0.39 |
| MVA4 | NA | 0.00 | 0.20 | NA | 0.14 | 29 | 37 | 12 | 36 | 96 | 0.14 | 9.9 | 0.46 |
| MVA5 | NA | 0.00 | 0.20 | NA | 0.13 | 23 | 23 | 10 | 28 | 75 | 0.09 | 9.3 | 0.27 |
| MVA6 | NA | 0.00 | 0.20 | NA | 0.11 | 26 | 19 | 11 | 38 | 69 | 0.09 | 9.0 | 0.19 |
| MVA7 | NA | 0.00 | 0.20 | NA | 0.20 | 26 | 20 | 11 | 39 | 70 | 0.13 | 9.3 | 0.20 |

-----End of Report-----

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1.1 Sample Duplicate (Relative deviation)**

| Customer Ref. | Sample | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag | |
|----------------|---------------|----------|------|------|------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Drillhole No. | Depth, m | | Type | | % | % | % | % | % | % | % | % | % | |
| | | No. | From | To | Specimen Depth m | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | 2.4 | 4.5 | 0.9 | 3.6 | 2.5 | 1.3 | 0.2 | 11 | 23 |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | 0.2 | 0.3 | 8.0 | 1.8 | 12 | 1.8 | 11 | 11 | 9.8 |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | 8.9 | 5.9 | 5.9 | 2.1 | 11 | 5.5 | 8.5 | 0.1 | 4.0 |
| | | | | | | | | | | | | | | | |
| Control Limits | | | | | | +/- 30 % of the mean | | | | | | | | | |

1.2 Method Spike (Standard Addition)

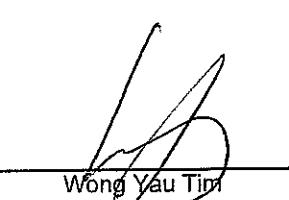
| Customer Ref. | Sample | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag | |
|----------------|---------------|----------|------|------|------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Drillhole No. | Depth, m | | Type | | % | % | % | % | % | % | % | % | % | |
| | | No. | From | To | Specimen Depth m | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | 103 | 105 | 94 | 101 | 112 | 105 | 100 | 98 | 107 |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | 104 | 91 | 94 | 95 | 120 | 88 | 99 | 120 | 109 |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | 98 | 110 | 101 | 103 | 101 | 107 | 93 | 89 | 103 |
| | | | | | | | | | | | | | | | |
| Control Limits | | | | | | 75 - 125 % | | | | | | | | | |

Note: 1. *na = Relative deviation(RD) for duplicates cannot be evaluated as the value determined is lower than reporting limits.

2. Results are based on dry sample weight

3. < = less than

Authorized Signatory


Wong Yau Tim

Issue Date: 14 July 2006

QUALITY CONTROL REPORT

| | | |
|-----------------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1.3 Sample Reference Material (ISE 2004.3.2)**

| Reference | Sample | | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag |
|----------------|----------|------|-----|---------|----------|----------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Depth, m | | | Type | Specimen | | % | % | % | % | % | % | % | % | % |
| | No. | From | To | Depth m | Specimen | | Depth m | | | | | | | | |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 1 | 104 | 111 | 107 | 98 | 116 | 109 | 93 | 120 | 122 |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 2 | 120 | 115 | 116 | 103 | 124 | 115 | 102 | 109 | 114 |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 3 | 101 | 97 | 105 | 94 | 108 | 99 | 87 | 96 | 115 |
| Control Limits | | | | | | 75 - 125% of nominal value | | | | | | | | | |

1.4 Method Blank

| Reference | Sample | | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag |
|----------------|----------|------|-----|---------|----------|---------------------------|---------|------|------|------|------|------|------|-------|-------|
| | Depth, m | | | Type | Specimen | | % | % | % | % | % | % | % | % | % |
| | No. | From | To | Depth m | Specimen | | Depth m | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 1 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <0.05 | <0.10 |
| N/A | N/A | N/A | N/A | | N/A | 2 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <0.05 | <0.10 |
| N/A | N/A | N/A | N/A | | N/A | 3 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <0.05 | <0.10 |
| Control Limits | | | | | | Less than reporting limit | | | | | | | | | |

Note: 1. Results are based on dry sample weight

2. < = less than

TEST REPORT

| | |
|---------------------|---|
| Report No. | : 100081N(1) |
| Project Name | : Permanent Aviation Fuel Facility |
| Customer | : Lam Geotechnics Limited |
| Address | : 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Lab Job No. | : J514 |
| Lab Sample No. | : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |
| Sample Description | : 57 samples said to be sediment |
| Sample Receipt Date | : 17 June 2006 - 26 June 2006 |
| Test Period | : 20 June 2006 - 06 July 2006 |

Test Information

| CODE | Test Parameter | Reporting Limit | Test Procedure |
|-----------|--------------------------------------|-----------------|----------------|
| | | ug/kg | |
| 8 | 2,4' dichlorobiphenyl | 1.0 | S/O/PCB |
| 18 | 2,2',5 trichlorobiphenyl | 1.0 | S/O/PCB |
| 28 | 2,4,4' trichlorobiphenyl | 1.0 | S/O/PCB |
| 44 | 2,2',3,5' tetrachlorobiphenyl | 1.0 | S/O/PCB |
| 52 | 2,2',5,5' tetrachlorobiphenyl | 1.0 | S/O/PCB |
| 66 | 2,3',4,4' tetrachlorobiphenyl | 1.0 | S/O/PCB |
| 77 | 3,3',4,4' tetrachlorobiphenyl | 1.0 | S/O/PCB |
| 101 | 2,2',4,5,5' pentachlorobiphenyl | 1.0 | S/O/PCB |
| 105 | 2,3,3',4,4' pentachlorobiphenyl | 1.0 | S/O/PCB |
| 118 | 2,3',4,4',5 pentachlorobiphenyl | 1.0 | S/O/PCB |
| 126 | 3,3',4,4',5 pentachlorobiphenyl | 1.0 | S/O/PCB |
| 128 | 2,2',3,3',4,4' hexachlorobiphenyl | 1.0 | S/O/PCB |
| 138 | 2,2',3,4,4',5' hexachlorobiphenyl | 1.0 | S/O/PCB |
| 153 | 2,2',4,4',5,5' hexachlorobiphenyl | 1.0 | S/O/PCB |
| 169 | 3,3',4,4',5,5' hexachlorobiphenyl | 1.0 | S/O/PCB |
| 170 | 2,2',3,3',4,4',5 heptachlorobiphenyl | 1.0 | S/O/PCB |
| 180 | 2,2',3,4,4',5,5' heptachlorobiphenyl | 1.0 | S/O/PCB |
| 187 | 2,2',3,4',5,5',6 heptachlorobiphenyl | 1.0 | S/O/PCB |
| Total PCB | Total PCB | 1.0 | S/O/PCB |

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results relate to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods only) as follows:
S/O/PCB:Ultra-Sonic extraction and GC-MS Quantification.
 8. Total PCB Equals to the summary of individual reported PCBs.
 9. This report supersedes the one dated 06 July 2005 with report no.100081N.

Authorized Signatory :

Issue Date: 14 Jul. 2006

Wong Yau Tim

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100081N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results

| Client Reference | Sample | | | Specimen Depth m | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 |
|------------------|----------|------|------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Depth, m | | Type | | ug/kg |
| | No. | From | To | | ug/kg |
| MVA2 | NA | 0.00 | 0.20 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 0.90 | 1.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 1.70 | 1.90 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 2.90 | 3.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 0.00 | 0.20 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 0.90 | 1.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 1.70 | 1.90 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 2.90 | 3.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 0.90 | 1.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 1.70 | 1.90 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 2.90 | 3.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 5.80 | 6.00 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 0.90 | 1.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 1.70 | 1.90 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 2.90 | 3.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 5.80 | 6.00 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 0.90 | 1.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 1.70 | 1.90 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 2.90 | 3.10 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 5.80 | 6.00 | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100081N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results

| Client Reference | Sample | | | | 118 | 126 | 128 | 138 | 153 | 169 | 170 | 180 | 187 | Total PCB ug/kg |
|------------------|---------------|----------|------|------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | Drillhole No. | Depth, m | | Type | Specimen Depth m | ug/kg |
| | | No. | From | To | | ug/kg |
| MVA2 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA2 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA1 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

TEST REPORT

| | | |
|-----------------------|---|---|
| Report No. | : | 100081N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results

| Client Reference Drillhole No. | Sample | | | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 |
|-----------------------------------|--------|------|------|------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | Type | Specimen Depth m | ug/kg |
| | No. | From | To | | | | | | | | | |
| MVA7 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

TEST REPORT

Report No. : 100081N(1)
 Project Name : Permanent Aviation Fuel Facility
 Customer : Lam Geotechnics Limited
 Lab Job No. : J514
 Lab Sample No. : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577

Test Results

| Client Reference | Sample | | | | 118 ug/kg | 126 ug/kg | 128 ug/kg | 138 ug/kg | 153 ug/kg | 169 ug/kg | 170 ug/kg | 180 ug/kg | 187 ug/kg | Total PCB ug/kg |
|------------------|---------------|----------|------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|
| | Drillhole No. | Depth, m | | Type | | | | | | | | | | |
| | | No. | From | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | |
| MVA7 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA9 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA10 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 5.80 | 6.00 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA13 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

TEST REPORT

Report No. : 100081N(1)
Project Name : Permanent Aviation Fuel Facility
Customer : Lam Geotechnics Limited
Lab Job No. : J514
Lab Sample No. : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577

Test Results

| Client Reference | Sample | | | | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 |
|------------------|---------------|----------|------|------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Drillhole No. | Depth, m | | Type | Specimen Depth m | ug/kg |
| | | No. | From | | | ug/kg |
| MVA8 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Reference Sample | NA | NA | NA | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

TEST REPORT

| | | |
|-----------------------|---|---|
| Report No. | : | 100081N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results

| Client Reference | Sample | | | | 118 | 126 | 128 | 138 | 153 | 169 | 170 | 180 | 187 | Total PCB ug/kg |
|------------------|---------------|----------|------|------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | Drillhole No. | Depth, m | | Type | Specimen Depth m | ug/kg |
| | | No. | From | To | | ug/kg |
| MVA8 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA8 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA11 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 0.90 | 1.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 1.70 | 1.90 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA12 | NA | 2.90 | 3.10 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Reference Sample | NA | NA | NA | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA3 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA4 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA5 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA6 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MVA7 | NA | 0.00 | 0.20 | | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

-----End of Report-----

QUALITY CONTROL REPORT

Report No. : 100081N(1)
Project Name : Permanent Aviation Fuel Facility
Customer : Lam Geotechnics Limited
Lab Job No. : J514
Lab Sample No. : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577

Test Results**1.1 Sample Duplicate**

| Client Reference | Sample | | | | Batch | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 |
|------------------|----------|------|-----|------|-------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Depth, m | | | Type | | % | % | % | % | % | % | % | % | % |
| | No. | From | To | | | | | | | | | | | |
| R.Sediment | N/A | N/A | N/A | | N/A | 1 | na* |
| R.Sediment | N/A | N/A | N/A | | N/A | 2 | na* |
| R.Sediment | N/A | N/A | N/A | | N/A | 3 | na* |
| | | | | | | | | | | | | | | |
| Control Limit | | | | | | +/- 30% of the mean | | | | | | | | |

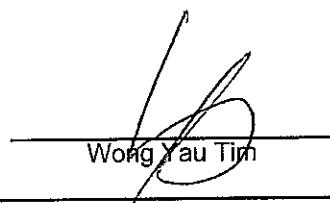
1.2 Sample Spike (Spike Level = 1 ug)

| Client Reference | Sample | | | | Batch | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 | |
|------------------|----------|------|-----|------|-------|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Depth, m | | | Type | | % | % | % | % | % | % | % | % | % | |
| | No. | From | To | | | | | | | | | | | | |
| R.Sediment | N/A | N/A | N/A | | N/A | 1 | 73 | 108 | 105 | 108 | 114 | 111 | 74 | 118 | 88 |
| R.Sediment | N/A | N/A | N/A | | N/A | 2 | 77 | 101 | 116 | 103 | 98 | 96 | 91 | 108 | 108 |
| R.Sediment | N/A | N/A | N/A | | N/A | 3 | 88 | 88 | 84 | 85 | 103 | 81 | 76 | 84 | 79 |
| | | | | | | | | | | | | | | | |
| Control Limit | | | | | | 70-130 % | | | | | | | | | |

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

Authorized Signatory :



Issue Date: : 14 Jul. 2006

QUALITY CONTROL REPORT

Report No. : 100081N(1)
 Project Name : Permanent Aviation Fuel Facility
 Customer : Lam Geotechnics Limited
 Lab Job No. : J514
 Lab Sample No. : 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577

Test Results**1.3 Sample Duplicate**

| Client Reference | Sample | | | | Batch | 118 | 126 | 128 | 138 | 153 | 169 | 170 | 180 | 187 |
|------------------|----------|------|-----|------|-------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Depth, m | | | Type | | % | % | % | % | % | % | % | % | % |
| | No. | From | To | | | 1 | na* |
| R.Sediment | N/A | N/A | N/A | | N/A | 1 | na* |
| R.Sediment | N/A | N/A | N/A | | N/A | 2 | na* |
| R.Sediment | N/A | N/A | N/A | | N/A | 3 | na* |
| | | | | | | | | | | | | | | |
| Control Limit | | | | | | +/- 30% of the mean | | | | | | | | |

1.4 Sample Spike (Spike Level = 1 ug)

| Client Reference | Sample | | | | Batch | 118 | 126 | 128 | 138 | 153 | 169 | 170 | 180 | 187 |
|------------------|----------|------|-----|------|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Depth, m | | | Type | | % | % | % | % | % | % | % | % | % |
| | No. | From | To | | | 1 | 95 | 85 | 94 | 100 | 98 | 77 | 81 | 92 |
| R.Sediment | N/A | N/A | N/A | | N/A | 1 | 95 | 85 | 94 | 100 | 98 | 77 | 81 | 91 |
| R.Sediment | N/A | N/A | N/A | | N/A | 2 | 116 | 94 | 106 | 120 | 115 | 80 | 97 | 101 |
| R.Sediment | N/A | N/A | N/A | | N/A | 3 | 81 | 112 | 87 | 91 | 82 | 86 | 90 | 85 |
| | | | | | | | | | | | | | | |
| Control Limit | | | | | | 70-130 % | | | | | | | | |

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100081N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**2.1 QC Sample (SETOC 2002.4.4)**

| Client Reference | Batch | 28 | 52 | 101 | 105 | 118 | 128 | 138 | 153 | 180 |
|------------------|-------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | % | % | % | % | % | % | % | % | % |
| SETOC 2002.4.4 | 1 | 99 | 114 | 116 | 114 | 98 | 89 | 100 | 109 | 98 |
| SETOC 2002.4.4 | 2 | 102 | 100 | 100 | 108 | 110 | 100 | 99 | 84 | 108 |
| SETOC 2002.4.4 | 3 | 120 | 113 | 84 | 97 | 104 | 95 | 99 | 105 | 94 |
| | | | | | | | | | | |
| Control Limit | | 70 - 130% of nominal value | | | | | | | | |

2.2 Method Blank

| Client Reference | Sample | | | | | Batch | 8 | 18 | 28 | 44 | 52 | 66 | 77 | 101 | 105 |
|------------------|---------------|----------|------|-----|----------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Drillhole No. | Depth, m | | | Type | | ug/kg |
| | | No. | From | To | Specimen | | | | | | | | | | |
| N/A | N/A | N/A | N/A | N/A | N/A | 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| N/A | N/A | N/A | N/A | N/A | N/A | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| N/A | N/A | N/A | N/A | N/A | N/A | 3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | | | | | | | | | | | | | | | |
| Control Limit | | | | | | less than reporting limit | | | | | | | | | |

| Client Reference | Sample | | | | | Batch | 118 | 126 | 128 | 138 | 153 | 169 | 170 | 180 | 187 |
|------------------|---------------|----------|------|-----|----------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Drillhole No. | Depth, m | | | Type | | ug/kg |
| | | No. | From | To | Specimen | | | | | | | | | | |
| N/A | N/A | N/A | N/A | N/A | N/A | 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| N/A | N/A | N/A | N/A | N/A | N/A | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| N/A | N/A | N/A | N/A | N/A | N/A | 3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | | | | | | | | | | | | | | | |
| Control Limit | | | | | | less than reporting limit | | | | | | | | | |

TEST REPORT

Report No. : 100082N
Project Name : Permanent Aviation Fuel Facility
Customer : Lam Geotechnics Limited
Address : 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong
Lab Job No. : J514
Lab Sample No. : 17519,17577
Sample Description : 4 liquid samples said to be water
Sample Receipt Date : 19 June 2006 - 26 June 2006
Test Period : 20 June 2006 - 06 July 2006

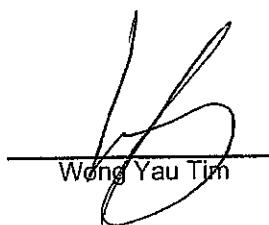
Test Information

| CODE | Test Parameter | Reporting Limit | Test Procedure |
|------|----------------|-----------------|----------------|
| | | ug/L | |
| TBT | Tri-Butyl Tin | 0.015 | W/O/TBT |

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. < = less than
 3. N/A = Not applicable
 4. Test results satisfy all in-house QA/QC protocols as attached.
 5. Test description (for in-house methods) as follows:
W/O/TBT: Solvent extraction and GC-MS Quantification.

Authorized Signator :

Issue Date: 06 Jul. 2006


Wong Yau Tim

TEST REPORT

| | | |
|----------------|---|----------------------------------|
| Report No. | : | 100082N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17519,17577 |

Test Results

| Client Reference Drillhole No. | Sample | | | | TBT ug TBT / L | |
|-----------------------------------|----------|------|-----|--------|-------------------|--|
| | Depth, m | | | Type | | |
| | No. | From | To | | | |
| MVA2 | N/A | N/A | N/A | Seabed | <0.015 | |
| MVA14 | N/A | N/A | N/A | Seabed | <0.015 | |
| MVA1 | N/A | N/A | N/A | Seabed | <0.015 | |
| Reference Sample | N/A | N/A | N/A | N/A | <0.015 | |

-----End of report-----

QUALITY CONTROL REPORT

| | | |
|----------------|---|----------------------------------|
| Report No. | : | 100082N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17519,17577 |

Test Results**1.1 Sample Duplicate (Relative deviation)**

| Client Reference | Sample | | | | | Batch | TBT % | | |
|------------------|----------|------|-----|------|------------------|---------------------|----------|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | |
| | No. | From | To | | | | | | |
| Reference Sample | N/A | N/A | N/A | | N/A | 1 | na* | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Control Limit | | | | | | +/- 30% of the mean | | | |

1.2 Sample Spike (Spike Level = 50 ng)

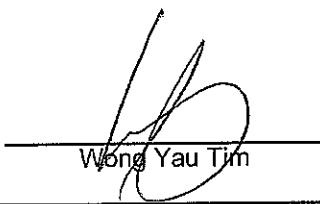
| Client Reference | Sample | | | | | Batch | TBT % | | |
|------------------|----------|------|-----|------|------------------|----------|----------|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | |
| | No. | From | To | | | | | | |
| Reference Sample | N/A | N/A | N/A | | N/A | 1 | 85 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Control Limit | | | | | | 70-130 % | | | |

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

Authorized Signatory

:



Issue Date:

06 Jul. 2006

QUALITY CONTROL REPORT

Report No. : 100082N
Project Name : Permanent Aviation Fuel Facility
Customer : Lam Geotechnics Limited
Lab Job No. : J514
Lab Sample No. : 17519,17577

Test Results**1.3 QC Sample (Spike level = 50 ng)**

| Client Reference | Sample | | | | | Batch | TBT % | | |
|------------------|----------|------|-----|------|------------------|---------------------|-------|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | |
| | No. | From | To | | | | | | |
| MB Spike | N/A | N/A | N/A | | N/A | 1 | 101 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Control Limit | | | | | | +/- 30% of the mean | | | |

1.4 Method Blank

| Client Reference | Sample | | | | | Batch | TBT ug TBT / L | | |
|------------------|----------|------|-----|------|------------------|---------------------------|----------------|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | |
| | No. | From | To | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 1 | <0.015 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Control Limit | | | | | | Less than reporting limit | | | |

TEST REPORT

| | |
|---------------------|---|
| Report No. | : 100062N(1) |
| Project Name | : Permanent Aviation Fuel Facility |
| Customer | : Lam Geotechnics Limited |
| Address | : 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Lab Job No. | : J514 |
| Lab Sample No. | : 17509, 17513, 17519, 17528, 17540, 17548, 17557, 17569, 17563, 17577 |
| Sample Description | : 57 samples said to be sediment |
| Sample Receipt Date | : 17 June 2006 - 26 June 2006 |
| Test Period | : 20 June 2006 - 5 July 2006 |

Test Information

| Code | Test Parameter | Reporting Limits | | Test Procedure | |
|------|----------------|------------------|--|------------------------|--|
| | | Sediment/Soil | | | |
| | | mg/kg | | | |
| Cd | Cadmium | 0.10 | | S/M/DIG-RAR & M/ICP-MS | |
| Cr | Chromium | 1.0 | | S/M/DIG-RAR & M/ICP-MS | |
| Cu | Copper | 1.0 | | S/M/DIG-RAR & M/ICP-MS | |
| Ni | Nickel | 1.0 | | S/M/DIG-RAR & M/ICP-MS | |
| Pb | Lead | 1.0 | | S/M/DIG-RAR & M/ICP-MS | |
| Zn | Zinc | 10 | | S/M/DIG-RAR & M/ICP-MS | |
| Hg | Mercury | 0.05 | | S/M/DIG-RAR & M/ICP-MS | |
| As | Arsenic | 1.0 | | S/M/DIG-RAR & M/ICP-MS | |
| Ag | Silver | 0.10 | | S/M/DIG-RAR & M/ICP-MS | |

Notes : 1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.

2. Results related to samples as received.

3. Results are based on dry sample weight.

4. < = less than

5. N/A = Not applicable

6. Test results satisfy all in-house QA/QC protocols as attached.

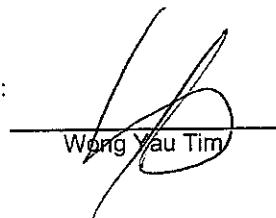
7. Test description (for in-house methods) as follows:

S/M/DIG-RAR: Acid digestion.

M/ICP-MS: ICP-MS Quantification.

8. This report supersedes the one dated 06 July 2005 with report no.100062N.

Authorized Signatory :



Issue Date: 14 July 2006

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Result

| Customer Ref. | Sample | | | Type | Specimen Depth, m | Cd | Cr | Cu | Ni | Pb | Zn | Hg | As | Ag | |
|---------------|---------------|----------|------|------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | Drillhole No. | Depth, m | | | | mg/kg | |
| | | No. | From | To | | mg/kg | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 0.16 | 38 | 39 | 22 | 47 | 99 | 0.15 | 12 | 0.70 | |
| MVA2 | NA | 0.90 | 1.10 | | NA | 0.15 | 33 | 24 | 20 | 46 | 71 | 0.22 | 17 | 0.12 | |
| MVA2 | NA | 1.70 | 1.90 | | NA | 0.12 | 25 | 11 | 16 | 84 | 56 | 0.12 | 10 | <0.10 | |
| MVA2 | NA | 2.90 | 3.10 | | NA | 0.12 | 26 | 11 | 16 | 27 | 56 | 0.10 | 10 | <0.10 | |
| MVA1 | NA | 0.00 | 0.20 | | NA | 0.18 | 43 | 69 | 25 | 69 | 100 | 0.19 | 12 | 0.42 | |
| MVA1 | NA | 0.90 | 1.10 | | NA | 0.16 | 33 | 22 | 19 | 52 | 73 | 0.22 | 17 | 0.12 | |
| MVA1 | NA | 1.70 | 1.90 | | NA | 0.14 | 29 | 12 | 18 | 32 | 62 | 0.69 | 13 | <0.10 | |
| MVA1 | NA | 2.90 | 3.10 | | NA | 0.09 | 18 | 6.2 | 10 | 22 | 33 | 0.07 | 7.3 | 0.19 | |
| MVA3 | NA | 0.90 | 1.10 | | NA | 0.19 | 49 | 72 | 26 | 66 | 120 | 0.22 | 14 | 0.41 | |
| MVA3 | NA | 1.70 | 1.90 | | NA | 0.05 | 13 | 7.3 | 13 | 53 | 30 | 0.06 | 3.8 | <0.10 | |
| MVA3 | NA | 2.90 | 3.10 | | NA | 0.12 | 49 | 12 | 18 | 31 | 62 | 0.10 | 11 | <0.10 | |
| MVA3 | NA | 5.80 | 6.00 | | NA | 0.11 | 11 | 5.2 | 5.1 | 17 | 27 | 0.06 | 4.8 | <0.10 | |
| MVA4 | NA | 0.90 | 1.10 | | NA | 0.13 | 27 | 29 | 16 | 48 | 85 | 0.15 | 11 | 0.33 | |
| MVA4 | NA | 1.70 | 1.90 | | NA | 0.12 | 30 | 21 | 17 | 47 | 68 | 0.40 | 14 | <0.10 | |
| MVA4 | NA | 2.90 | 3.10 | | NA | 0.15 | 24 | 10 | 15 | 41 | 55 | 0.09 | 10 | <0.10 | |
| MVA4 | NA | 5.80 | 6.00 | | NA | 0.06 | 8.9 | 3.9 | 6.4 | 13 | 23 | <0.05 | 8.4 | <0.10 | |
| MVA5 | NA | 0.90 | 1.10 | | NA | 0.13 | 25 | 23 | 14 | 42 | 79 | 0.10 | 10 | 0.30 | |
| MVA5 | NA | 1.70 | 1.90 | | NA | 0.13 | 24 | 24 | 14 | 34 | 86 | 0.25 | 9.1 | 0.32 | |
| MVA5 | NA | 2.90 | 3.10 | | NA | 0.13 | 26 | 12 | 16 | 32 | 59 | 0.16 | 11 | <0.10 | |
| MVA5 | NA | 5.80 | 6.00 | | NA | 0.01 | 9.0 | 2.9 | 4.5 | 16 | 20 | 0.06 | 3.5 | <0.10 | |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Result

| Customer Ref. | Sample | | | | Cd mg/kg | Cr mg/kg | Cu mg/kg | Ni mg/kg | Pb mg/kg | Zn mg/kg | Hg mg/kg | As mg/kg | Ag mg/kg | | | | | | | | | |
|---------------|----------|------|------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|--|--|--|--|--|--|--|--|
| | Depth, m | | Type | Specimen | | | | | | | | | | | | | | | | | | |
| | No. | From | | | | | | | | | | | | | | | | | | | | |
| MVA7 | NA | 0.90 | 1.10 | | NA | 0.13 | 32 | 18 | 19 | 44 | 78 | 0.08 | 10 | 0.20 | | | | | | | | |
| MVA7 | NA | 1.70 | 1.90 | | NA | 0.10 | 22 | 8.7 | 13 | 37 | 47 | 0.09 | 7.5 | <0.10 | | | | | | | | |
| MVA7 | NA | 2.90 | 3.10 | | NA | <0.10 | 25 | 10 | 14 | 26 | 51 | 0.09 | 7.4 | 0.13 | | | | | | | | |
| MVA7 | NA | 5.80 | 6.00 | | NA | <0.10 | 9.0 | 3.4 | 5.1 | 11 | 18 | 0.09 | 4.7 | <0.10 | | | | | | | | |
| MVA9 | NA | 0.00 | 0.20 | | NA | 0.15 | 40 | 30 | 24 | 47 | 77 | 0.21 | 16 | 0.13 | | | | | | | | |
| MVA9 | NA | 0.90 | 1.10 | | NA | <0.10 | 23 | 6.4 | 13 | 34 | 47 | 0.05 | 7.0 | <0.10 | | | | | | | | |
| MVA9 | NA | 1.70 | 1.90 | | NA | <0.10 | 24 | 5.3 | 13 | 30 | 50 | <0.05 | 6.5 | <0.10 | | | | | | | | |
| MVA9 | NA | 2.90 | 3.10 | | NA | 0.14 | 30 | 13 | 18 | 32 | 60 | 0.09 | 11 | <0.10 | | | | | | | | |
| MVA10 | NA | 0.00 | 0.20 | | NA | 0.16 | 43 | 35 | 26 | 50 | 88 | 0.19 | 17 | 0.16 | | | | | | | | |
| MVA10 | NA | 0.90 | 1.10 | | NA | <0.10 | 26 | 9.3 | 15 | 35 | 52 | 0.05 | 7.1 | <0.10 | | | | | | | | |
| MVA10 | NA | 1.70 | 1.90 | | NA | <0.10 | 23 | 4.6 | 13 | 30 | 46 | <0.05 | 7.2 | <0.10 | | | | | | | | |
| MVA10 | NA | 2.90 | 3.10 | | NA | 0.14 | 30 | 13 | 18 | 46 | 59 | 0.07 | 10 | <0.10 | | | | | | | | |
| MVA6 | NA | 0.90 | 1.10 | | NA | 0.13 | 24 | 22 | 14 | 35 | 74 | 0.09 | 10 | 0.25 | | | | | | | | |
| MVA6 | NA | 1.70 | 1.90 | | NA | 0.17 | 24 | 21 | 14 | 29 | 69 | 0.09 | 10 | 0.26 | | | | | | | | |
| MVA6 | NA | 2.90 | 3.10 | | NA | 0.13 | 27 | 12 | 17 | 32 | 59 | 0.06 | 9.3 | <0.10 | | | | | | | | |
| MVA6 | NA | 5.80 | 6.00 | | NA | <0.10 | 13 | 5.3 | 8.0 | 16 | 27 | <0.05 | 4.8 | <0.10 | | | | | | | | |
| MVA13 | NA | 0.00 | 0.20 | | NA | 0.17 | 37 | 41 | 23 | 55 | 99 | 0.13 | 15 | 0.33 | | | | | | | | |
| MVA13 | NA | 0.90 | 1.10 | | NA | 0.17 | 40 | 34 | 23 | 52 | 86 | 0.18 | 17 | 0.17 | | | | | | | | |
| MVA13 | NA | 1.70 | 1.90 | | NA | <0.10 | 18 | 11 | 17 | 41 | 61 | 0.06 | 8.7 | <0.10 | | | | | | | | |
| MVA13 | NA | 2.90 | 3.10 | | NA | <0.10 | 24 | 6.4 | 15 | 23 | 52 | <0.05 | 5.1 | <0.10 | | | | | | | | |

TEST REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Result

| Customer Ref. | Sample | | | | Cd mg/kg | Cr mg/kg | Cu mg/kg | Ni mg/kg | Pb mg/kg | Zn mg/kg | Hg mg/kg | As mg/kg | Ag mg/kg | | | | | | | | | |
|------------------|----------|------|------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|--|--|--|--|
| | Depth, m | | Type | Specimen Depth, m | | | | | | | | | | | | | | | | | | |
| | No. | From | | | | | | | | | | | | | | | | | | | | |
| MVA8 | NA | 0.00 | 0.20 | NA | 0.16 | 33 | 25 | 20 | 40 | 79 | 0.11 | 13 | 0.18 | | | | | | | | | |
| MVA8 | NA | 0.90 | 1.10 | NA | 0.15 | 36 | 37 | 22 | 45 | 93 | 0.18 | 12 | 0.23 | | | | | | | | | |
| MVA8 | NA | 1.70 | 1.90 | NA | 0.12 | 33 | 22 | 20 | 40 | 66 | 0.11 | 13 | <0.10 | | | | | | | | | |
| MVA8 | NA | 2.90 | 3.10 | NA | <0.10 | 23 | 8.8 | 16 | 35 | 53 | 0.05 | 7.5 | <0.10 | | | | | | | | | |
| MVA11 | NA | 0.00 | 0.20 | NA | 0.14 | 35 | 28 | 22 | 53 | 72 | 0.48 | 16 | 0.12 | | | | | | | | | |
| MVA11 | NA | 0.90 | 1.10 | NA | 0.13 | 30 | 19 | 19 | 38 | 61 | 0.12 | 13 | <0.10 | | | | | | | | | |
| MVA11 | NA | 1.70 | 1.90 | NA | <0.10 | 25 | 11 | 16 | 35 | 56 | 0.06 | 8.0 | <0.10 | | | | | | | | | |
| MVA11 | NA | 2.90 | 3.10 | NA | <0.10 | 28 | 7.6 | 18 | 31 | 63 | 0.05 | 7.5 | <0.10 | | | | | | | | | |
| MVA12 | NA | 0.00 | 0.20 | NA | <0.10 | 28 | 9.3 | 20 | 44 | 63 | 0.05 | 4.9 | <0.10 | | | | | | | | | |
| MVA12 | NA | 0.90 | 1.10 | NA | <0.10 | 25 | 10 | 15 | 36 | 55 | 0.07 | 8.3 | <0.10 | | | | | | | | | |
| MVA12 | NA | 1.70 | 1.90 | NA | <0.10 | 25 | 7.4 | 17 | 25 | 57 | <0.05 | 5.6 | 0.12 | | | | | | | | | |
| MVA12 | NA | 2.90 | 3.10 | NA | 0.13 | 35 | 25 | 21 | 49 | 70 | 0.15 | 15 | <0.10 | | | | | | | | | |
| Reference Sample | NA | NA | NA | NA | <0.10 | 19 | 7.5 | 14 | 28 | 44 | 0.06 | 5.0 | <0.10 | | | | | | | | | |
| MVA3 | NA | 0.00 | 0.20 | NA | 0.14 | 32 | 35 | 13 | 38 | 95 | 0.16 | 11 | 0.39 | | | | | | | | | |
| MVA4 | NA | 0.00 | 0.20 | NA | 0.14 | 29 | 37 | 12 | 36 | 96 | 0.14 | 9.9 | 0.46 | | | | | | | | | |
| MVA5 | NA | 0.00 | 0.20 | NA | 0.13 | 23 | 23 | 10 | 28 | 75 | 0.09 | 9.3 | 0.27 | | | | | | | | | |
| MVA6 | NA | 0.00 | 0.20 | NA | 0.11 | 26 | 19 | 11 | 38 | 69 | 0.09 | 9.0 | 0.19 | | | | | | | | | |
| MVA7 | NA | 0.00 | 0.20 | NA | 0.20 | 26 | 20 | 11 | 39 | 70 | 0.13 | 9.3 | 0.20 | | | | | | | | | |

-----End of Report-----

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1.1 Sample Duplicate (Relative deviation)**

| Customer Ref. | Sample | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag | |
|----------------|---------------|----------|------|------|-------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Drillhole No. | Depth, m | | Type | | % | % | % | % | % | % | % | % | % | |
| | | No. | From | To | | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | 2.4 | 4.5 | 0.9 | 3.6 | 2.5 | 1.3 | 0.2 | 11 | 23 |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | 0.2 | 0.3 | 8.0 | 1.8 | 12 | 1.8 | 11 | 11 | 9.8 |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | 8.9 | 5.9 | 5.9 | 2.1 | 11 | 5.5 | 8.5 | 0.1 | 4.0 |
| | | | | | | | | | | | | | | | |
| Control Limits | | | | | | +/- 30 % of the mean | | | | | | | | | |

1.2 Method Spike (Standard Addition)

| Customer Ref. | Sample | | | | Batch | Cd | Cr | Cu | Ni | Pb | Zn | As | Hg | Ag | |
|----------------|---------------|----------|------|------|-------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Drillhole No. | Depth, m | | Type | | % | % | % | % | % | % | % | % | % | |
| | | No. | From | To | | | | | | | | | | | |
| MVA2 | NA | 0.00 | 0.20 | | NA | 1 | 103 | 105 | 94 | 101 | 112 | 105 | 100 | 98 | 107 |
| MVA7 | NA | 0.90 | 1.10 | | NA | 2 | 104 | 91 | 94 | 95 | 120 | 88 | 99 | 120 | 109 |
| MVA8 | NA | 0.00 | 0.20 | | NA | 3 | 98 | 110 | 101 | 103 | 101 | 107 | 93 | 89 | 103 |
| | | | | | | | | | | | | | | | |
| Control Limits | | | | | | 75 - 125 % | | | | | | | | | |

Note: 1. *na = Relative deviation(RD) for duplicates cannot be evaluated as the value determined is lower than reporting limits.
 2. Results are based on dry sample weight
 3. < = less than

Authorized Signatory

:

Issue Date:

14 July 2006

QUALITY CONTROL REPORT

| | | |
|----------------|---|---|
| Report No. | : | 100062N(1) |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer | : | Lam Geotechnics Limited |
| Lab Job No. | : | J514 |
| Lab Sample No. | : | 17509,17513,17519,17528,17540,17548,17557,17569,17563,17577 |

Test Results**1.3 Sample Reference Material (ISE 2004.3.2)**

| Reference | Sample | | | | | Batch | Cd % | Cr % | Cu % | Ni % | Pb % | Zn % | As % | Hg % | Ag % | | | | | | | | | | |
|----------------|----------|------|-----|------|------------------|----------------------------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 1 | 104 | 111 | 107 | 98 | 116 | 109 | 93 | 120 | 122 | | | | | | | | | | |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 2 | 120 | 115 | 116 | 103 | 124 | 115 | 102 | 109 | 114 | | | | | | | | | | |
| ISE 2004.3.2 | N/A | N/A | N/A | | N/A | 3 | 101 | 97 | 105 | 94 | 108 | 99 | 87 | 96 | 115 | | | | | | | | | | |
| Control Limits | | | | | | 75 - 125% of nominal value | | | | | | | | | | | | | | | | | | | |

1.4 Method Blank

| Reference | Sample | | | | | Batch | Cd mg/kg | Cr mg/kg | Cu mg/kg | Ni mg/kg | Pb mg/kg | Zn mg/kg | As mg/kg | Hg mg/kg | Ag mg/kg | | | | | | | | | | |
|----------------|----------|------|-----|------|------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|--|--|--|--|--|--|--|
| | Depth, m | | | Type | Specimen Depth m | | | | | | | | | | | | | | | | | | | | |
| | No. | From | To | | | | | | | | | | | | | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 1 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <0.05 | <0.10 | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 2 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <0.05 | <0.10 | | | | | | | | | | |
| N/A | N/A | N/A | N/A | | N/A | 3 | <0.10 | <1.0 | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <0.05 | <0.10 | | | | | | | | | | |
| Control Limits | | | | | | Less than reporting limit | | | | | | | | | | | | | | | | | | | |

Note: 1. Results are based on dry sample weight

2. < = less than

Annex C

Biological Test Results

TEST REPORT

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100499N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 & reference sediment |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 25 Jul - 14 Aug, 2006 |

Test Parameter

| Parameter | Test Method |
|------------------------------|-------------|
| Polychaete Sediment Bioassay | PSEP 1995 |

- Note(s):
1. Uncertainty is calculated as 2 SD.
 2. Standard method: Puget Sound Estuary Program Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, USEPA, Revised July 1995.
 3. N/A = Not applicable.

Signatory:

Yi Zhang

Date: 31-Aug-2006

Remark(s): This report shall not be reproduced, except in full, without prior written approval from Lam Laboratories Ltd.

Lam Laboratories Limited Room 1412, Honour Industrial Centre, 6 Sun Yip Street, Chaiwan, Hong Kong.

Tel: (852) 2897 3282 Fax: (852) 2897 5509 Email: info@lamlab.com

Test report

Report No.: 100499N

1. Method

This 20-day toxicity test on sediment with *Neanthes arenaceodentata* was conducted using the PSEP method (1995) "Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments". *Neanthes arenaceodentata* is exposed to the test sediment overlaid with seawater for a 20-day test period. The endpoints are survival and growth.

2. Sample storage and pretreatment

All samples were homogenized thoroughly. Debris and indigenous organisms present in the sediment were removed and the sediment samples were stored at 4°C in dark until analyzed.

3. Test organism

| | |
|--------------------------|---|
| Species: | <i>Neanthes arenaceodentata</i> |
| Source: | Purchased from research organism supplier from USA, mortality during shipping was 0% |
| Age/size: | 2-3 weeks post emergence |
| Acclimation: | under test conditions with feeding provided, as per USEPA 1994, mortality during acclimation was 0% |
| Health condition: | healthy |
| Mean initial dry weight: | 0.71 mg/worm |

4. Summary of test particulars

| | |
|-----------------------------|--|
| Type of test: | renewal every three days |
| Duration: | 25 Jul -14 Aug, 2006 |
| Control sediment: | mud and sand collected from a clean area on the eastern coast of the New Territories and Hong Kong Island respectively, shipped to the laboratory on the same day, sieved through 425 micrometer mesh sieve, mixed and stored at 4°C in dark until use |
| Control seawater: | reconstituted seawater prepared with the Instant Ocean salt at 28 ppt, aerated for two days after preparation |
| Test temperature: | 20±1°C |
| Lighting: | continuous |
| Aeration: | provided (around 100 bubbles/min) |
| Test vessel: | 1000ml glass jars |
| Volume of sediment: | 175ml |
| Volume of overlying water: | 775 ml |
| No. of replicates: | 5 |
| No. of organisms/replicate: | 5 |
| Feeding: | Tetramarin powder, 8 mg per worm each time, once every two days |
| Monitoring: | temperature, DO, pH and salinity in overlying water everyday, ammonia in overlying water at test initiation and termination |
| Reference toxicant test: | 96 hour water only test with CdCl ₂ |

Test report

Report No.: 100499N

5. Summary of test results

Table 1. Survival of polychaetes on Day 20

| Sample ID | Number of living polychaete on Day 20 | | | | | | |
|--------------------------------|---------------------------------------|----------------|----------------|----------------|----------------|------|-----|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative control with sediment | 5 | 5 | 5 | 5 | 5 | 5.0 | 0.0 |
| Composite Sample 1 | 5 | 5 | 5 | 5 | 5 | 5.0 | 0.0 |
| Composite Sample 2 | 4 | 4 | 5 | 5 | 5 | 4.6 | 0.5 |
| Composite Sample 3 | 5 | 4 | 5 | 5 | 5 | 4.8 | 0.4 |
| Composite Sample 4 | 5 | 5 | 5 | 5 | 5 | 5.0 | 0.0 |
| Composite Sample 5 | 4 | 5 | 5 | 5 | 5 | 4.8 | 0.4 |
| Composite Sample 6 | 5 | 5 | 5 | 5 | 5 | 5.0 | 0.0 |
| Composite Sample 7 | 3 | 5 | 4 | 4 | 5 | 4.2 | 0.8 |
| Composite Sample 8 | 5 | 4 | 5 | 5 | 5 | 4.8 | 0.4 |
| Composite Sample 9 | 5 | 5 | 4 | 5 | 5 | 4.8 | 0.4 |
| Composite Sample 10 | 5 | 5 | 5 | 5 | 5 | 5.0 | 0.0 |
| Reference sediment | 5 | 5 | 5 | 5 | 4 | 4.8 | 0.4 |

Table 2. Survival percentage of polychaetes on Day 20

| Sample ID | Survival percentage of polychaete on Day 20 (%) | | | | | | |
|--------------------------------|---|----------------|----------------|----------------|----------------|-------|------|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative control with sediment | 100 | 100 | 100 | 100 | 100 | 100.0 | 0.0 |
| Composite Sample 1 | 100 | 100 | 100 | 100 | 100 | 100.0 | 0.0 |
| Composite Sample 2 | 80 | 80 | 100 | 100 | 100 | 92.0 | 11.0 |
| Composite Sample 3 | 100 | 80 | 100 | 100 | 100 | 96.0 | 8.9 |
| Composite Sample 4 | 100 | 100 | 100 | 100 | 100 | 100.0 | 0.0 |
| Composite Sample 5 | 80 | 100 | 100 | 100 | 100 | 96.0 | 8.9 |
| Composite Sample 6 | 100 | 100 | 100 | 100 | 100 | 100.0 | 0.0 |
| Composite Sample 7 | 60 | 100 | 80 | 80 | 100 | 84.0 | 16.7 |
| Composite Sample 8 | 100 | 80 | 100 | 100 | 100 | 96.0 | 8.9 |
| Composite Sample 9 | 100 | 100 | 80 | 100 | 100 | 96.0 | 8.9 |
| Composite Sample 10 | 100 | 100 | 100 | 100 | 100 | 100.0 | 0.0 |
| Reference sediment | 100 | 100 | 100 | 100 | 80 | 96.0 | 8.9 |

Test report

Report No.: 100499N

Table 3. Total dry weight of polychaetes on Day 20

| Sample ID | Total dry weight of polychaete on Day 20 (mg) | | | | | | |
|--------------------------------|---|-------------|-------------|-------------|-------------|------|------|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative control with sediment | 64.92 | 67.44 | 65.36 | 65.92 | 65.92 | 65.9 | 1.0 |
| Composite Sample 1 | 19.07 | 10.58 | 27.83 | 53.82 | 59.48 | 34.2 | 21.5 |
| Composite Sample 2 | 16.41 | 21.56 | 35.65 | 21.06 | 41.26 | 27.2 | 10.7 |
| Composite Sample 3 | 48.70 | 38.21 | 42.74 | 52.80 | 44.64 | 45.4 | 5.6 |
| Composite Sample 4 | 49.30 | 72.04 | 72.29 | 58.00 | 60.71 | 62.5 | 9.8 |
| Composite Sample 5 | 32.61 | 43.31 | 53.17 | 55.36 | 47.97 | 46.5 | 9.1 |
| Composite Sample 6 | 49.71 | 41.31 | 41.01 | 45.64 | 50.78 | 45.7 | 4.6 |
| Composite Sample 7 | 13.24 | 35.31 | 25.30 | 42.01 | 47.75 | 32.7 | 13.7 |
| Composite Sample 8 | 30.02 | 36.49 | 43.15 | 17.08 | 39.49 | 33.2 | 10.2 |
| Composite Sample 9 | 29.19 | 21.89 | 32.86 | 39.06 | 34.73 | 31.5 | 6.5 |
| Composite Sample 10 | 48.91 | 75.34 | 46.31 | 46.80 | 49.62 | 53.4 | 12.3 |
| Reference sediment | 67.68 | 43.27 | 27.68 | 71.70 | 23.64 | 46.8 | 22.2 |

Table 4. Summary of the total dry weight of polychaetes in relation to the reference sediments

| Sample ID | Total dry weight in relation to reference site (%) | Difference between sample and reference sediment (t-test) |
|---------------------|--|--|
| Composite Sample 1 | 73.0 | Insignificantly different, t critical=1.86, t stat=-4.714, p=0.1937 (one tail) |
| Composite Sample 2 | 58.1 | Insignificantly different, t critical=1.86, t stat=-1.780, p=0.0564 (one tail) |
| Composite Sample 3 | 97.1 | NA ¹ |
| Composite Sample 4 | 133.5 | NA ¹ |
| Composite Sample 5 | 99.3 | NA ¹ |
| Composite Sample 6 | 97.6 | NA ¹ |
| Composite Sample 7 | 69.9 | Insignificantly different, t critical=1.86, t stat=-1.206, p=0.1312 (one tail) |
| Composite Sample 8 | 71.0 | Insignificantly different, t critical=1.86, t stat=-1.239, p=0.1252 (one tail) |
| Composite Sample 9 | 67.4 | Insignificantly different, t critical=2.02, t stat=-1.475, p=0.1001 (one tail) |
| Composite Sample 10 | 114.1 | NA ¹ |

NA ¹. As the average total dry weight of the polychaetes for the test sediment was no less than 90% of that of the reference sediment, statistical analysis is not required.

Test report

Report No.: 100499N

6. Test validity

Table 5. Test validity criteria and water quality ranges in the polychaete test

| Parameter | Minimum during the test period | Maximum during the test period | Control Limit |
|---|--------------------------------|--------------------------------|--|
| Overlying salinity | 27 ppt | 29 ppt | 26-30 ppt |
| Dissolved oxygen | 6.1 mg/L | 7.2 mg/L | not specified |
| Overlying pH | 7.6 | 8.4 | NA ¹ |
| Temperature | 19.0 °C | 21.0 °C | 19-21°C |
| Unionized ammonia in overlying water (initiation/termination) | 0.0043 mg/L | 0.289 mg/L | NA ² |
| Interstitial salinity (initiation/termination) | 27 ppt | 34 ppt | >20ppt |
| Interstitial pH (initiation/termination) | 7.5 | 8.0 | NA ¹ |
| Polychaete survival in the negative control | All 100% , averagely 100% | | ≥ 90% average ≥ 80% in any individual replicate |
| 96-h LC ₅₀ obtained from the reference toxicant test | 10.67 mg/L | | 9.89±3.20 mg/L |
| 1. pH is not adjusted or controlled 2. Overlying ammonia is not controlled. Results could be qualified as possible false positive when unionized ammonia greater than 0.7 mg/L | | | |

As shown in Table 5, the water quality parameters during the test period ranged within acceptable limits: temperature ranged from 19.0 to 21.0 °C, the salinity ranged from 27 to 29 ppt. As a result, the data are interpretable.

The tests were validated by acceptable survival of control organisms. The average survival rate in controls was greater than 90% and survival rate in any control replicates greater than 80%.

The organisms also demonstrated comparable sensitivity to the reference toxicant (cadmium). The 96-hr LC₅₀ for *Neanthes arenaceodentata* obtained was 10.67 mgCd/L and found within the laboratory control limits (Mean±2STD, i.e., 9.89±3.20 mgCd/L). Therefore, the data are acceptable.

End of report

Data entry checked by: _____
Y.M.Choy

Test report

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100497N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 & reference sediment |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 1-11 Aug, 2006 |

Test Parameter

| Parameter | Test Method |
|----------------------------|-------------|
| Amphipod Sediment Bioassay | USEPA 1994 |

Note(s):

1. Uncertainty is calculated as 2 SD.
2. Standard Method: Methods for Assessing Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods. EPA/600/R-94/025, USEPA, 1994.
3. N/A = Not applicable.

Signatory:



Yi Zhang

Date: 31-Aug-2006

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Lam Laboratories Limited Room 1412, Honour Industrial Centre, 6 Sun Yip Street, Chaiwan, Hong Kong.

Tel: (852) 2897 3282 Fax: (852) 2897 5509 Email: info@lamlab.com

Test report

Report no.: 100497N

1. Method

This 10-day toxicity test with *Leptocheirus plumulosus* was conducted using the USEPA method (1994) "Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods". *Leptocheirus plumulosus* is exposed to the test sediment overlaid with seawater for a 10-day test period and survival rate is determined as the primary endpoint.

2. Sample storage and pretreatment

All samples were homogenized thoroughly. Debris and indigenous organisms present in the sediment were removed and the sediment samples were stored at 4°C in dark until analyzed.

3. Test organism

Species: *Leptocheirus plumulosus*
Source: Purchased from research organism supplier from USA, mortality during shipping was 2.56%
Size/age: 3-4 mm in length
Acclimation: under test conditions with feeding provided, as per USEPA 1994, mortality during acclimation was 4.44%
Health condition: healthy

4. Summary of test particulars

Type of test: static
Duration: 1-11 Aug, 2006
Control sediment: mud and sand collected from a clean area on the eastern coast of the New Territories and Hong Kong Island respectively, shipped to the laboratory on the same day, sieved through 425 micrometer mesh sieve, mixed and stored at 4°C in dark until use
Control seawater: reconstituted seawater prepared with the Instant Ocean salt at 20 ppt, aerated for two days after preparation
Test temperature: 25±1°C
Lighting: continuous
Aeration: provided (around 100 bubbles/min)
Test vessel: 1000ml glass jars
Volume of sediment: 175ml
Volume of overlying water: 775 ml
No. of replicates: 5
No. of organisms/replicate: 20
Feeding: none
Monitoring: temperature, DO, pH and salinity in overlying water everyday, ammonia in overlying water at test initiation and termination
Reference toxicant test: 96 hour water only test with CdCl₂

Test report

Report no.: 100497N

5. Summary of test results

Table 1. Survival of amphipods on Day 10

| Sample ID | Number of living amphipod on Day 10 | | | | | | |
|--------------------------------|-------------------------------------|----------------|----------------|----------------|----------------|------|-----|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative Control with sediment | 18 | 18 | 18 | 18 | 18 | 18.0 | 0.0 |
| Composite Sample 1 | 17 | 17 | 17 | 16 | 15 | 16.4 | 0.9 |
| Composite Sample 2 | 14 | 14 | 11 | 12 | 15 | 13.2 | 1.6 |
| Composite Sample 3 | 16 | 18 | 18 | 17 | 17 | 17.2 | 0.8 |
| Composite Sample 4 | 15 | 17 | 16 | 17 | 16 | 16.2 | 0.8 |
| Composite Sample 5 | 15 | 17 | 18 | 17 | 15 | 16.4 | 1.3 |
| Composite Sample 6 | 17 | 18 | 16 | 16 | 17 | 16.8 | 0.8 |
| Composite Sample 7 | 16 | 13 | 14 | 15 | 16 | 14.8 | 1.3 |
| Composite Sample 8 | 17 | 15 | 17 | 14 | 17 | 16.0 | 1.4 |
| Composite Sample 9 | 17 | 16 | 15 | 17 | 16 | 16.2 | 0.8 |
| Composite Sample 10 | 17 | 16 | 20 | 17 | 19 | 17.8 | 1.6 |
| Reference sediment | 19 | 18 | 18 | 19 | 18 | 18.4 | 0.5 |

Table 2. Survival percentage of amphipods on Day 10

| Sample ID | Survival percentage of amphipod on Day 10 (%) | | | | | | |
|--------------------------------|---|----------------|----------------|----------------|----------------|------|-----|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative Control with sediment | 90 | 90 | 90 | 90 | 90 | 90.0 | 0.0 |
| Composite Sample 1 | 85 | 85 | 85 | 80 | 75 | 82.0 | 4.5 |
| Composite Sample 2 | 70 | 70 | 55 | 60 | 75 | 66.0 | 8.2 |
| Composite Sample 3 | 80 | 90 | 90 | 85 | 85 | 86.0 | 4.2 |
| Composite Sample 4 | 75 | 85 | 80 | 85 | 80 | 81.0 | 4.2 |
| Composite Sample 5 | 75 | 85 | 90 | 85 | 75 | 82.0 | 6.7 |
| Composite Sample 6 | 85 | 90 | 80 | 80 | 85 | 84.0 | 4.2 |
| Composite Sample 7 | 80 | 65 | 70 | 75 | 80 | 74.0 | 6.5 |
| Composite Sample 8 | 85 | 75 | 85 | 70 | 85 | 80.0 | 7.1 |
| Composite Sample 9 | 85 | 80 | 75 | 85 | 80 | 81.0 | 4.2 |
| Composite Sample 10 | 85 | 80 | 100 | 85 | 95 | 89.0 | 8.2 |
| Reference sediment | 95 | 90 | 90 | 95 | 90 | 92.0 | 2.7 |

Test report

Report no.: 100497N

Table 3. Summary of the amphipod survival in relation to the reference sediment

| Sample ID | Survival in relation to reference site (%) | Difference between sample and reference sediment (t-test) |
|--|--|---|
| Composite Sample 1 | 89.1 | NA ¹ |
| Composite Sample 2 | 71.7 | Significantly different, t critical=2.01, t stat=-6.713, p=0.0006 (one tail) |
| Composite Sample 3 | 93.5 | NA ¹ |
| Composite Sample 4 | 88.0 | NA ¹ |
| Composite Sample 5 | 89.1 | NA ¹ |
| Composite Sample 6 | 91.3 | NA ¹ |
| Composite Sample 7 | 80.4 | NA ¹ |
| Composite Sample 8 | 87.0 | NA ¹ |
| Composite Sample 9 | 88.0 | NA ¹ |
| Composite Sample 10 | 96.7 | NA ¹ |
| NA ¹ . As the average survival of the amphipods for the test sediment was no less than 80% of that of the reference sediment, statistical analysis is not required. | | |

Test report

Report no.: 100497N

6. Test validity

Table 4. Test validity criteria and water quality ranges in the amphipod test

| Parameter | Minimum during the test period | Maximum during the test period | Acceptable Range in USEPA 1994 |
|--|--------------------------------|--------------------------------|--|
| Overlying salinity | 19 ppt | 21 ppt | 19-21 ppt |
| Dissolved oxygen | 6.1 mg/L | 7.1 mg/L | >4.7 mg/L ¹ |
| Overlying pH | 8.0 | 8.4 | NA ² |
| Temperature | 24.0 °C | 25.9 °C | 22.0-28.0 °C time-average 24.0-26.0 °C |
| Total ammonia in overlying water (initiation / termination) | 0.03 mg/L | 7.66 mg/L | <60 mg/L ³ |
| Interstitial salinity (initiation) | 27 ppt | 29 ppt | 1.5-32 ppt ⁴ |
| Interstitial pH (initiation) | 7.6 | 7.9 | NA ² |
| Amphipod survival in the negative control | 90% , averagely 90.0 % | | ≥ 90% average ≥ 80% in any individual replicate |
| 96-h LC ₅₀ obtained from the reference toxicant test | 0.99 mg/L | | 0.92±0.41 mg/L |
| 1. 60% of saturation level at 20 ppt 2. pH is not adjusted or controlled 3. The acceptance level for overlying ammonia was < 20 mg/L in ETWB TCW 34/2002. When this level is exceeded, additional set of amphipod test is conducted with purging of sediment. 4. The reference sediment was pre-mixed with 20 ppt reconstituted seawater, so that interstitial salinity was below 32 ppt at test initiation. | | | |

Test report

Report no.: 100497N

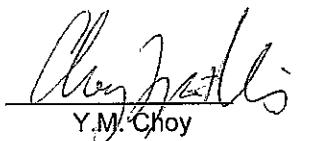
As shown in Table 4, the water quality parameters during the test period ranged within acceptable limits: temperature ranged from 24.0 to 25.9 °C, the dissolved oxygen level ranged from 6.1 to 7.1 mg/L, pH ranged from 8.0 to 8.4, the salinity ranged from 19 to 21 ppt. As a result, the data are interpretable.

The tests were validated by acceptable survival of control organisms. The average survival rate in controls was no less than 90% and survival rate in any control replicates no less than 80%.

The organisms also demonstrated comparable sensitivity to the reference toxicant (cadmium). The 96-hr LC₅₀ for *Leptocheirus plumulosus* obtained was 0.99 mgCd/L and found within the laboratory control limits (Mean±2STD, i.e., 0.92±0.41 mgCd/L). Therefore, the data are acceptable.

End of report

Data entry checked by:


Y.M. Choy

TEST REPORT

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100498N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J 514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 & reference sediment |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 31 Jul -2 Aug, 2006 |

Test Parameter

| Parameter | Test Method |
|----------------------------------|-------------|
| Bivalve Larvae Sediment Bioassay | PSEP 1995 |

Note(s):

1. Uncertainty is calculated as 2 SD.
2. Standard method: Puget Sound Estuary Program Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, USEPA, Revised July 1995.
3. N/A = Not applicable.

Signatory:



Yi Zhang

Date: 31-Aug-2006

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Lam Laboratories Limited Room 1412, Honour Industrial Centre, 6 Sun Yip Street, Chaiwan, Hong Kong.

Tel: (852) 2897 3282 Fax: (852) 2897 5509 Email: info@lamlab.com

Test report

Report No.: 100498N

1. Method

This bivalve larvae test with *Crassostrea gigas* was conducted using the PSEP method (1995) "Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments". Bivalve adults are induced to spawn and gametes are fertilized. After fertilization the embryos are immediately exposed to the test sediment overlaid with seawater and allowed to develop for 48-60 hours. The normality survival of larvae is determined as endpoint.

2. Sample storage and pretreatment

All samples were homogenized thoroughly. Debris and indigenous organisms present in the sediment were removed and the sediment samples were stored at 4oC in dark until analyzed.

3. Test organism

Species: *Crassostrea gigas*
Source: purchased from a research organism supplier in UK
Acclimation: 24 hours under test conditions, as per PSEP 1995, mortality during acclimation was 0 %
Conditions of eggs: mature and clean
Conditions of sperms: active
Fertilization rate: 92.8%
Mean initial stocking: 25260 fertilized eggs per test chamber

4. Summary of test particulars

Type of test: static and non-renewal
Duration: 31 Jul- 2 Aug 2006, 48 hours in total
Control seawater: collected from a clean area on the eastern coast of the Hong Kong Island, filtered through 0.45 mm filter paper, adjusted to 28 ppt, aerated for two days after preparation
Test temperature: 20±1°C
Lighting: 14h light : 10h dark cycle
Aeration: provided (around 100 bubbles/min)
Test vessel: 1000ml glass jars
Volume of sediment: 18g
Volume of overlying water: 900 ml
No. of replicates: 5
Feeding: none
Monitoring: temperature, DO, pH and salinity in overlying water everyday, and termination ammonia in overlying water at test initiation
Reference toxicant test: 48 hour water only test with CdCl₂

Test report

Report No.: 100498N

5. Summary of test results

Table 1. Total number of normal larvae in each test chamber at test termination

| Sample ID | Number of normal larvae in each test chamber at test termination | | | | | | |
|-----------------------------------|--|-------------|-------------|-------------|-------------|---------|--------|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative Control with Seawater I | 18900 | 18700 | 16500 | 18400 | 17600 | 18020.0 | 983.4 |
| Negative Control with Seawater II | 19800 | 18100 | 17900 | 17100 | 20100 | 18600.0 | 1292.3 |
| Composite Sample 1 | 13800 | 12100 | 11900 | 12100 | 12000 | 12380.0 | 798.1 |
| Composite Sample 2 | 11300 | 13200 | 12300 | 12400 | 12600 | 12360.0 | 687.7 |
| Composite Sample 3 | 15400 | 15000 | 14800 | 11600 | 12300 | 13820.0 | 1738.4 |
| Composite Sample 4 | 14100 | 13800 | 12500 | 12000 | 12000 | 12880.0 | 1003.5 |
| Composite Sample 5 | 17100 | 23500 | 17400 | 17000 | 17600 | 18520.0 | 2794.1 |
| Composite Sample 6 | 21600 | 17200 | 20200 | 20000 | 19700 | 19740.0 | 1596.2 |
| Composite Sample 7 | 21100 | 18000 | 18500 | 19300 | 20000 | 19380.0 | 1227.6 |
| Composite Sample 8 | 21900 | 18700 | 20100 | 21100 | 20100 | 20380.0 | 1205.0 |
| Composite Sample 9 | 15600 | 15500 | 14900 | 16200 | 15400 | 15520.0 | 465.8 |
| Composite Sample 10 | 16700 | 19200 | 18200 | 17800 | 18200 | 18020.0 | 901.1 |
| Reference sediment | 17200 | 17600 | 16200 | 20000 | 17800 | 17760.0 | 1395.7 |

Table 2. Combined normality/survival of the bivalve larvae at test termination

| Sample ID | Normality survival of bivalve larvae at test termination (%) | | | | | | |
|-----------------------------------|--|-------------|-------------|-------------|-------------|------|------|
| | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 | Mean | SD |
| Negative Control with Seawater I | 74.8 | 74.0 | 65.3 | 72.8 | 69.7 | 71.3 | 3.9 |
| Negative Control with Seawater II | 78.4 | 71.7 | 70.9 | 67.7 | 79.6 | 73.6 | 5.1 |
| Composite Sample 1 | 54.6 | 47.9 | 47.1 | 47.9 | 47.5 | 49.0 | 3.2 |
| Composite Sample 2 | 44.7 | 52.3 | 48.7 | 49.1 | 49.9 | 48.9 | 2.7 |
| Composite Sample 3 | 61.0 | 59.4 | 58.6 | 45.9 | 48.7 | 54.7 | 6.9 |
| Composite Sample 4 | 55.8 | 54.6 | 49.5 | 47.5 | 47.5 | 51.0 | 4.0 |
| Composite Sample 5 | 67.7 | 93.0 | 68.9 | 67.3 | 69.7 | 73.3 | 11.1 |
| Composite Sample 6 | 85.5 | 68.1 | 80.0 | 79.2 | 78.0 | 78.1 | 6.3 |
| Composite Sample 7 | 83.5 | 71.3 | 73.2 | 76.4 | 79.2 | 76.7 | 4.9 |
| Composite Sample 8 | 86.7 | 74.0 | 79.6 | 83.5 | 79.6 | 80.7 | 4.8 |
| Composite Sample 9 | 61.8 | 61.4 | 59.0 | 64.1 | 61.0 | 61.4 | 1.8 |
| Composite Sample 10 | 66.1 | 76.0 | 72.1 | 70.5 | 72.1 | 71.3 | 3.6 |
| Reference sediment | 68.1 | 69.7 | 64.1 | 79.2 | 70.5 | 70.3 | 5.5 |

Test report

Report No.: 100498N

Table 3. Summary of the normality survival of bivalve larvae in relation to the reference sediments

| Sample ID | Normality survival in relation to reference site (%) | Difference between sample and reference sediment (t-test) |
|---------------------|--|---|
| Composite Sample 1 | 69.7 | Significantly different, t critical=1.86, t stat=-7.482, p<0.0001 (one tail) |
| Composite Sample 2 | 69.6 | Significantly different, t critical=1.86, t stat=-7.760, p<0.0001 (one tail) |
| Composite Sample 3 | 77.8 | Significantly different, t critical=1.86, t stat=-3.952, p=0.0021 (one tail) |
| Composite Sample 4 | 72.5 | Significantly different, t critical=1.86, t stat=-6.348, p=0.0001 (one tail) |
| Composite Sample 5 | 104.3 | NA ¹ |
| Composite Sample 6 | 111.1 | NA ¹ |
| Composite Sample 7 | 109.1 | NA ¹ |
| Composite Sample 8 | 114.8 | NA ¹ |
| Composite Sample 9 | 87.4 | NA ¹ |
| Composite Sample 10 | 101.5 | NA ¹ |

NA¹ - As the average normality survival of the bivalve larvae for the test sediment was no less than 80% of that of the reference sediment, statistical analysis is not required.

Test report

Report No.: 100498N

6. Test validity

Table 4. Test validity criteria and water quality ranges in the bivalve test

| Parameter | Minimum during the test period | Maximum during the test period | Control Limit |
|---|--------------------------------|--------------------------------|-----------------------|
| Overlying salinity | 27 ppt | 28 ppt | 27-29ppt |
| Dissolved oxygen | 6.3 mg/L | 6.9 mg/L | >4.5mg/L ¹ |
| Overlying pH | 7.9 | 8.6 | NA ² |
| Temperature | 19.1 °C | 21.0 °C | 19.0-21.0°C |
| Unionized ammonia in overlying water (initiation/termination) | <0.002 mg/L | 0.03 mg/L | NA ³ |
| Larvae normality survival in the negative control | 65.3 - 78.4% , averagely 72.5% | | ≥ 70% averagely |
| 48-h EC ₅₀ obtained from the reference toxicant test | 1.44 mg/L | | 1.45 ± 0.54 mg/L |
| 1. 60% of saturation level at 28 ppt 2. pH is not adjusted or controlled 3. Overlying ammonia is not controlled. Results could be qualified as possible false positive when ammonia (unionized) is greater than 0.13 mg/L | | | |

As shown in Table 4, the water quality parameters during the test period ranged within control limits: temperature ranged from 19.1 to 21.0 °C, the dissolved oxygen level ranged from 6.3 to 6.9 mg/L, pH ranged from 7.9 to 8.6, the salinity ranged from 27 to 28 ppt. As a result, the data are interpretable.

The tests were validated by acceptable normality survival of control organisms. The average normality survival rate in controls was greater than 70%.

The organisms also demonstrated comparable sensitivity to the reference toxicant (cadmium). The 48-hr EC₅₀ for *Crassostrea gigas* obtained was 1.44 mgCd/L and found within the laboratory control limits (Mean±2STD, i.e., 1.45±0.54 mgCd/L). Therefore, the data are acceptable.

End of Report

Data entry checked by: Y.M. Choy
Y.M. Choy

TEST REPORT

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100502N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 1-8 Aug, 2006 |

Test Parameter

| Parameter | Test Method |
|----------------------|------------------------|
| Grain size | Geospec 3: Test 8.1 |
| Moisture content | Geospec 3: Test 5.2 |
| Total Organic Carbon | ALS Method Code EP-009 |

Note(s): 1. The TOC samples were subcontracted to ALS Technichem (HK) Pty Ltd.
 2. NA = Not Applicable

Signatory:

Yi Zhang

Date: 31-Aug-2006

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Lam Laboratories Limited Room 1412, Honour Industrial Centre, 6 Sun Yip Street, Chaiwan, Hong Kong.

Tel: (852) 2897 3282 Fax: (852) 2897 5509 Email: info@lamlab.com

Test report

| | |
|----------------------|------------------------------------|
| Report No. | : 100502N |
| Project Name | : Permanent Aviation Fuel Facility |
| Customer Name | : Lam Geotechnics Limited |
| Contract No. | : N/A |
| Works Order No. | : N/A |
| Lab. Sample Ref. No. | : 17339/1-11 |

| Sample ID | Grain Size < 63 mm (%) | Moisture Content ¹ (%) | TOC (% Wet Weight) | TOC (% Dry Weight) ² |
|---------------------|------------------------|-----------------------------------|--------------------|---------------------------------|
| Composite sample 1 | 77 | 67 | 0.52 | 0.87 |
| Composite sample 2 | 82 | 73 | 0.59 | 1.02 |
| Composite sample 3 | 90 | 86 | 0.60 | 1.12 |
| Composite sample 4 | 64 | 63 | 0.58 | 0.95 |
| Composite sample 5 | 90 | 91 | 0.49 | 0.94 |
| Composite sample 6 | 93 | 90 | 0.54 | 1.03 |
| Composite sample 7 | 88 | 73 | 0.47 | 0.81 |
| Composite sample 8 | 88 | 76 | 0.47 | 0.83 |
| Composite sample 9 | 92 | 93 | 0.60 | 1.16 |
| Composite sample 10 | 49 | 41 | 0.50 | 0.71 |
| Reference sediment | 48 | 56 | 0.46 | 0.72 |
| Detection Limit | NA | NA | 0.05 | 0.1 |

Note 1. Moisture content is calculated as: (Sample Wet Weight – Sample Dry Weight) / Sample Dry Weight x 100%

Note 2. TOC (% dry weight) is calculated as: TOC (% wet weight) x (1 + moisture content / 100)

End of Report

Data entry checked by:



Y.M. Choy

TEST REPORT

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100500N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 & reference sediment |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 27-Jul-2006 |

Test Parameter

| Parameter | Test Method |
|----------------------|---------------------------------|
| Interstitial ammonia | APHA 4500-NH3 F. Phenate Method |

Note(s): 1. N/A = Not applicable.

Signatory:

Yi Zhang

Date: 31-Aug-2006

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Test report

Certificate no.: 100500N

| Sample ID | Interstitial ammonia (mgNH ₃ /L) |
|--------------------|---|
| Composite Sample1 | 9.5 |
| Composite Sample2 | 11.4 |
| Composite Sample3 | 28.0 |
| Composite Sample4 | 1.7 |
| Composite Sample5 | 9.3 |
| Composite Sample6 | 6.4 |
| Composite Sample7 | 14.6 |
| Composite Sample8 | 10.4 |
| Composite Sample9 | 12.3 |
| Composite Sample10 | 23.4 |
| Reference Sediment | 3.3 |
| Detection limit | 0.03 |

Sample duplicate

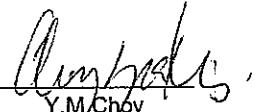
| Sample ID | Relative deviation (%) |
|--------------------|------------------------|
| Reference Sediment | 4.6 |
| Control limits | ±20% from the mean |

Sample Spike

| Sample ID | Spike recovery (%) |
|--------------------|--------------------------------|
| Reference Sediment | 115.9 |
| Control limits | 80-120% from the nominal value |

End of Report

Data entry checked by:


Y.M. Choy

TEST REPORT

| | | |
|-----------------------------------|---|--|
| Report No. | : | 100501N |
| Project Name | : | Permanent Aviation Fuel Facility |
| Customer Name | : | Lam Geotechnics Limited |
| Customer Address | : | 2304-6 World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong |
| Contract No. | : | N/A |
| Works Order No. | : | N/A |
| Lab. Job No. | : | J514 |
| Lab. Sample Ref. No. | : | 17339/1-11 |
| No. of Sample(s) & Description | : | 17 no. of samples stated as sediment were received on chilled condition 11 no. of samples were tested including 10 composite samples 1-10 & reference sediment |
| Sample Receive Date | : | 16-26 Jun, 2006 |
| Test Date | : | 26-Jul-2006 |

Test Parameter

| Parameter | Test Method |
|-----------------------|-------------|
| Interstitial salinity | APHA 2502 B |

Note(s): 1. NA = Not applicable.

Signatory: 
Yi Zhang Date: 31-Aug-2006

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Test report

Report no.: 100501N

| Sample ID | Interstitial salinity (ppt) |
|---------------------|-----------------------------|
| Composite Smaple 1 | 29 |
| Composite Smaple 2 | 29 |
| Composite Smaple 3 | 29 |
| Composite Smaple 4 | 27 |
| Composite Smaple 5 | 28 |
| Composite Smaple 6 | 29 |
| Composite Smaple 7 | 29 |
| Composite Smaple 8 | 29 |
| Composite Smaple 9 | 29 |
| Composite Smaple 10 | 30 |
| Reference sediment | 34 |
| Detection limit | NA |

Sample duplicate

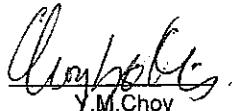
| Sample ID | Relative deviation (%) |
|--------------------|------------------------|
| Reference sediment | -2.6 |
| Control limits | ±20% from the mean |

Standard check

| Sample ID | Recovery (%) |
|--------------------|--------------------------------|
| Reference standard | 99.6 |
| Control limits | 80-120% from the nominal value |

End of Report

Data entry checked by:


Y.M. Choy