

Appendix III
Geotechnical Planning Review Report

**Geotechnical Planning Review Report (GPRR)
for
Temporary Logistics Centre with
Ancillary Office and Parking of Vehicle for
a Period of 3 Years at
Various Lots in D.D.129 & adjoining Government Land
Lau Fau Shan, Yuen Long, N.T.
(Application No. A/YL-LFS/426)**

Prepared by: Ting Hong So



**Ir. Ting Hong SO
CEng, MICE, MStructE, MHKIE,
RPE (Civil, Structural & Geotechnical)**



**Ir. IEONG Kwok Lun
(RGE73/95)**

**Ref. No. : LFS002a
17 June 2022**

CONTENTS

	<u>Page</u>
Synopsis	2
1) Introduction	3
2) Description of Site	3
3) Site Geology	6
4) Geotechnical Considerations	7
5) Conclusion	10
6) Reference	10

PHOTO

Plate 1 to 4 General View of the features

FIGURES

Figure 1 Site Location Plan
Figure 2 Site Layout Plan
Figure 3 Hong Kong Geological Map Sheet 2 (Part Plan of 1:20,000)

APPENDICE

Appendix A SIS Report and SIMAR for Registered Features in the Vicinity of the Site
Appendix B Existing BD Records
Appendix C Existing Ground Investigation Records
Appendix D Extract of the Site Plan for PlanD Application

SYNOPSIS

The 1st GPRR report (application no. A/YL-LFS/426) has been submitted to the Plannings Department (PlanD) on 30 May 2022. In the 1st amendment, the red lines indicating the location of storage area in the GPRR has been removed and submitted to PlanD on 31 May 2022 and forwarded to GEO of CEDD. GEO have provided verbal comments on the 1st amended report and presentation on the areas have been revised. In this 2nd amendment, the presentation and the wordings of the red areas have been adjusted and the areas are indicated as "Structure 1" to be consistent with the planning application.

There is no change in the content of this report from the previous report on 22 April 2020 (application no. A/YL-LFS/353).

1) INTRODUCTION

It is proposed to further extend the Temporary Logistics Centre for a period of 3 years at various lots in D.D.129 and adjoining government land at Lau Fau Shan, Yuen Long, N.T. under section 16 of the Town Planning Ordinance (application no. **A/YL-LFS/426**).

In the previous planning application (previous application no. A/YL-LFS/353), GEO of CEDD has issued a memo to PlanD (memo ref: PLN-50-2005-7-YL-LFS) on 20 January 2020. Their comments are as follow:

1. Part of the subject site is overlooked by steep natural terrain and meets the alert criteria for a natural terrain hazard study (NTHS). It is required to submit a Geotechnical Planning Review Report (GPRR) in support of the planning application. The GPRR should include a preliminary geotechnical review of the natural terrain hazards, assess the geotechnical feasibility of the proposed development, and where necessary, indicate the recommended extent of the NTHS study area and a commitment to undertake the NTHS and to carry out any necessary mitigation measures as part of the proposed development.
2. The subject application could affect or be affected Feature nos. 2SW-C/F20, 2SW-C/C110, 2SW-C/C112, 2SW-C/C113 and 2SW-C/C127, and meets the criteria for submission of a GPRR to support the application.

The comments in the memo were satisfied in the last revised Geotechnical Planning Review Report on 22 April 2020. And the planning application was approved by the Town Planning Board on 12 June 2020.

This report would present a Geotechnical Planning Review Report (GPRR) of the site to support of the current planning application (application no. A/YL-LFS/426). No foundation, site formation, building works, or works which involve significant excavation works would be involved in this application.

2) DESCRIPTION OF SITE

The subject site is located at various lots in D.D.129 and adjoining government land at Lau Fau Shan, Yuen Long, N.T. (level +12mPD to +13mPD). A site location plan and site layout plan are shown on **Figures 1** and **2**, respectively. The site is about triangular on plan and has an area of approximately 18834m². The site is a 1-storey covered storage area since 2016.

There is no visible change within the vicinity of the “Application Site” after the approval of the last application on 12 June 2020.

2.1 Site History

No building record can be retrieved from the Buildings Department. Based on the Arial photo records, the site has been used as a storage area since 1993.

2.2 Existing Features in the Vicinity of the Site

There are 5 registered features in the vicinity of the proposed development. The locations of the features are shown in **Figure 2**. SIS reports and SIMAR reports indicating the location of the feature and their maintenance responsibility are attached in **Appendix A** for easy reference. No record of slope instability can be found.

Maintenance Responsibility of features in the vicinity of the proposed development:

Feature No.	Sub-division No.	Maintenance Responsibility
2SW-C/F20	1	DD129 Lot2327
	2	DD129 Lot2326
	3	DD129 Lot2320
	4	DD129 Lot2318
	5	DD129 Lot2317
	6	Lands Department
2SW-C/C110	1	DD129 Lot2292
	2	DD129 Lot2277A
	3	DD129 Lot2278
	4	DD129 Lot2279A
	5	DD129 Lot2812DRP
2SW-C/C112	1	DD129 Lot1710
	2	DD129 Lot1711
	3	DD129 Lot1712
	4	DD129 Lot2812DRP
	5	DD129 Lot2279B
	6	DD129 Lot2280
	7	DD129 Lot2285
	8	DD129 Lot2296
2SW-C/C113	1	DD129 Lot2314A
	2	DD129 Lot2812DRP
	3	DD129 Lot2302
2SW-C/C127	1	DD129 Lot1714
	2	DD129 Lot1715
	3	DD129 Lot1719

The descriptions of the features are as follows:

Feature No. 2SW-C/F20 (Outside boundary of application site)

This west-facing feature is located about 25m from the western boundary of the site. It consists of a soil slope with a maximum retaining height of 2.5m. It is generally 100m long and has a face angle of about 40°.

Feature No. 2SW-C/C110 (Within boundary of application site)

This feature is located at the northern part of the site based on the SIS information sheet. Although the feature is apparent in a photograph within the SIS, it is not able to be clearly visible during our site inspection. The area has been trimmed off with vegetation and it has been covered with temporary buildings and cannot be located easily in this stage.

Feature No. 2SW-C/C112 (Outside boundary of application site)

This feature is located about 2.5m from the eastern boundary of the site. It consists of a soil slope with a maximum retaining height of 9m. It is generally 152m long and has a face angle of about 40° dipping to the east based on site measurement. Based on the information acquired from the GIU of GEO, the feature has been studied by CM Wong & Associates Ltd under the Stage 2 Report no. S2R069/2018 and has been accepted by GEO on 29 November 2019. The report only recommends maintenance works on the feature and no slope strengthening works were required.

Feature No. 2SW-C/C113 (Outside boundary of application site)

This feature is located about 2.5m from the south-eastern boundary of the site. It consists of a soil slope with a maximum retaining height of 10m. It is generally 167m long and has a face angle of about 45° dipping towards the site based on site measurement.

Feature No. 2SW-C/C127 (Outside boundary of application site)

This feature is located adjacent to the northern boundary of the site. It consists of a north-facing soil slope with face angle between 35° to 40°. It is located at 1.5m from the boundary at its western portion (with a retaining height of 1.3m) and is located at 3.6m from the boundary at its eastern portion (with a retaining height of 3.2m). It is generally 65m long and has a face angle of about 40°.

Other than the registered geotechnical features, there are 2 unregistered features found within the vicinity of the site.

Unregistered feature 1

This feature is located at about 4m from the north-western boundary of the site. It consists of a soil slope with a maximum retaining height of less than 3m. It is generally 100m long and has a maximum face angle of about 40° dipping towards the site.

Unregistered feature 2

This feature is located at about 2.5m from the north-eastern boundary of the site. It consists of a soil slope with a maximum retaining height of less than 3m. It is generally 30m long and has a face angle of about 40° dipping towards the site.

Natural Terrain Feature 3

This feature is located at about 20m from the south-eastern boundary of the site. It consists of a vegetated soil slope with a retaining height of about 15m. It is generally 140m long and has a face angle of about 25° dipping towards the site.

Other than the above registered features and the natural terrain features, there exists no other slopes or retaining walls, including the natural terrain features, which may affect or be affected by the proposed application.

3) SITE GEOLOGY

With reference to the 1:20,000 geological map published by the Geotechnical Control Office, Hong Kong Geological Survey Sheet 2, the site is located within the area of fine- to medium-grained granite (gfm). Therefore, the superficial deposits should be fine- to medium-grained granite. Extract of the Geological Map Sheet is as attached in **Figure 3**.

There was no buried stream course identified in the vicinity of the site.

3.1 Previous Ground Investigation Records at GIU

Search at the GIU of the GEO revealed that there are no ground investigation works carried out within the vicinity of the site. The closest ground investigation borehole (hole no. HSK-ABH 0201) (found in GIU Ref: 62062) is located at about 270m from the western boundary of the site. It reveals that the underlying geology consists of FILL composed of yellowish brown to dark grey, silty fine to coarse SAND, above ALLUVIUM composed of pale brown to light yellowish brown, clayey silty fine to coarse SAND.

Extract of the ground investigation report is as attached in **Appendix C**.

3.3 Soil and Rock

As suggested by the existing site information, the geology of the site is in general blanketed by a layer of Fill or Alluvium, overlying CDG. There is currently insufficient information to determine the profile of bedrock of Grade III or better rock across the site.

- Fill – composed of yellowish brown to dark grey, silty fine to coarse SAND.
- Alluvium – composed of pale brown to light yellowish brown, clayey silty fine to coarse SAND with gravels occasionally.
- CDG – forming the original ground is pink to dark brown, fine to medium silty fine to medium SAND.

3.4 Groundwater

There are no piezometer and standpipe monitoring records installed within the vicinity of the site. However, there is a measurement of groundwater level at 1.35m below ground level (+3.48mPD) at hole no. HSK-ABH 0201 located at about 270m from the western boundary of the site.

4) GEOTECHNICAL CONSIDERATIONS

The following section gives an assessment on the geotechnical aspects: -

4.1 Gradient across a site

The site is located on a level platform with little level difference to be used as a non-dangerous goods storage site at Yuen Long. Therefore, there are no place of which its gradient is greater than 15°.

4.2 Geotechnical Features

Feature No. 2SW-C/F20 (Outside boundary of application site)

The feature would not be modified by the extended period of tenancy. The feature is located 25m from the western boundary of the site and only has a maximum retaining height of 2.5m. Therefore, the proposed extended period would not have adverse effect on the stability of geotechnical feature due to their distance.

Feature No. 2SW-C/C110 (Inside boundary of application site)

Although the feature is apparent in a photograph within the SIS, it is not able to be clearly visible during our site inspection. The area has been trimmed off with vegetation and it has been covered with temporary buildings and cannot be located easily in this stage. However, the area within the vicinity of the feature has been inspected and there are no any apparent signs of distress or instability. Therefore, it is geotechnical feasible to grant the extension.

After the extension has been granted, it is recommended to provide further study on the feature and carry out remedial works if found necessary.

Feature No. 2SW-C/C112 (Outside boundary of application site)

The feature would not be modified by the extended period of tenancy. As mentioned in Section 2.2, the feature has been studied by CM Wong & Associates Ltd under the Stage 2 Report no. S2R069/2018 and has been accepted by GEO on 29 November 2019. The report recommends only maintenance items and no slope strengthening works were required. The storage site remains generally the same since 2018 and it has only been 1 year after GEO accepted the report.

Further site inspection of this feature under this report has been carried out and no any signs of distress or instability can be found at the within vicinity of this feature. Therefore, it is geotechnical feasible to grant extension to this application. However, in view of the size of the feature, it is recommended to provide further study on the feature and carry out remedial works if found necessary.

Feature No. 2SW-C/C113 (Outside boundary of application site)

The feature would not be modified by the extended period of tenancy. The non-dangerous goods storage site is located at least 2.5m from the toe of the slope since 2016. No signs of distress can be found at the feature. Further to the comments as provided by GEO, a 'no-build' zone would be included in the planning application, which results in a clear distance of about 13m between the slope and the buildings at the site. Due to their distance, no further studies or remedial actions would be required.

Feature No. 2SE-C/C127 (Outside boundary of application site)

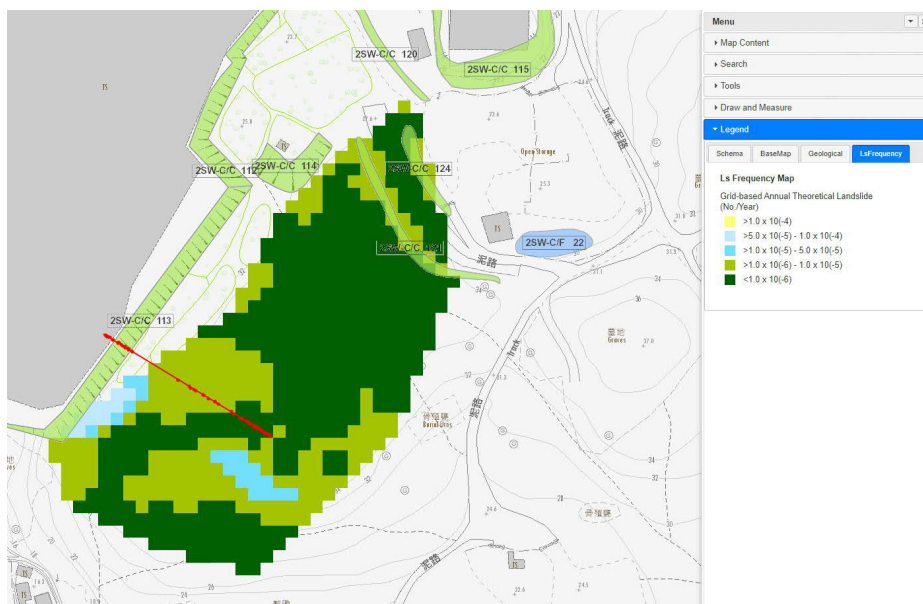
As mentioned in Section 2.2, considering the relation of the relatively less retained height of the feature and its distance from the boundary of application, the load spread onto the slope due to its usage would be minimal. Therefore, it is considered to be geotechnical feasible to give the extension to the application.

Unregistered Feature 1 and 2 (Outside boundary of application site)

The two features would not be modified by the extended period of tenancy. The site is located at the toe of the 2 features and therefore the proposed extended period would not have adverse effect on the stability of geotechnical feature. The slopes are located at about 2.5m from the boundary of the site and their retaining height are less than 3m. Due to their distance and the retaining height, no further studies or remedial actions would be required.

Natural Terrain Feature 3 (Outside boundary of application site)

The feature would not be modified by the extended period of tenancy. The site is located 20m from the toe of the feature and therefore the proposed extended period would not have adverse effect on the stability of geotechnical feature.



The feature has a face angle of 25° without any visible boulders on its surface. Based on the extract of landslide frequency map obtained from the GInfo System from the GIU library of GEO, its annual theoretical landslide is only between 5.0×10^{-5} to 1.0×10^{-4} , which is less likely than a 1 in 1000-year event. Consider the period of land use extension would be 3 years only, the risk of landslide would be minimal.

5) **CONCLUSION**

This report has discussed all the relevant issues regarding the geotechnical issues at various lots in D.D.129 and adjoining government land at Lau Fau Shan, Yuen Long, N.T. No any foundation, site formation, building works or works of which involve significant excavation works under this extension application.

Therefore, with reference to the preceding discussions, it is considered that the application is considered geotechnically feasible.

6) **REFERENCE**

The following documents have been reviewed and referred to in the preparation of this report:

1. GEO (2019), *Slope Information System Report of Feature Nos. 2SW-C/F20, 2SW-C/C110, 2SW-C/C112, 2SW-C/C113, 2SW-C/C127*
2. Lands Department (2019), *SMRIS Report of Feature Nos. 2SW-C/F20, 2SW-C/C110, 2SW-C/C112, 2SW-C/C113, 2SW-C/C127*
3. Driltech (2015), *Works Order No. GE/2014/07.16B, Agreement No. CE2/2011 (CE), Hung Shui Kiu New Development Area Planning and Engineering Study – Investigation (Batch 3), Final Field Work Report (GIU Ref: 62062)*
4. CM Wong & Associates Ltd (2019), *Stage 2 Report No. S2R069/2018*

Photo

Plate 1: Site view of Unregistered Feature 1



Plate 2: Site view of Unregistered Feature 1



Plate 3: Site view of Unregistered Feature 2



Plate 4: Site view of Unregistered Feature 2



Figure 1

Site Location Plan

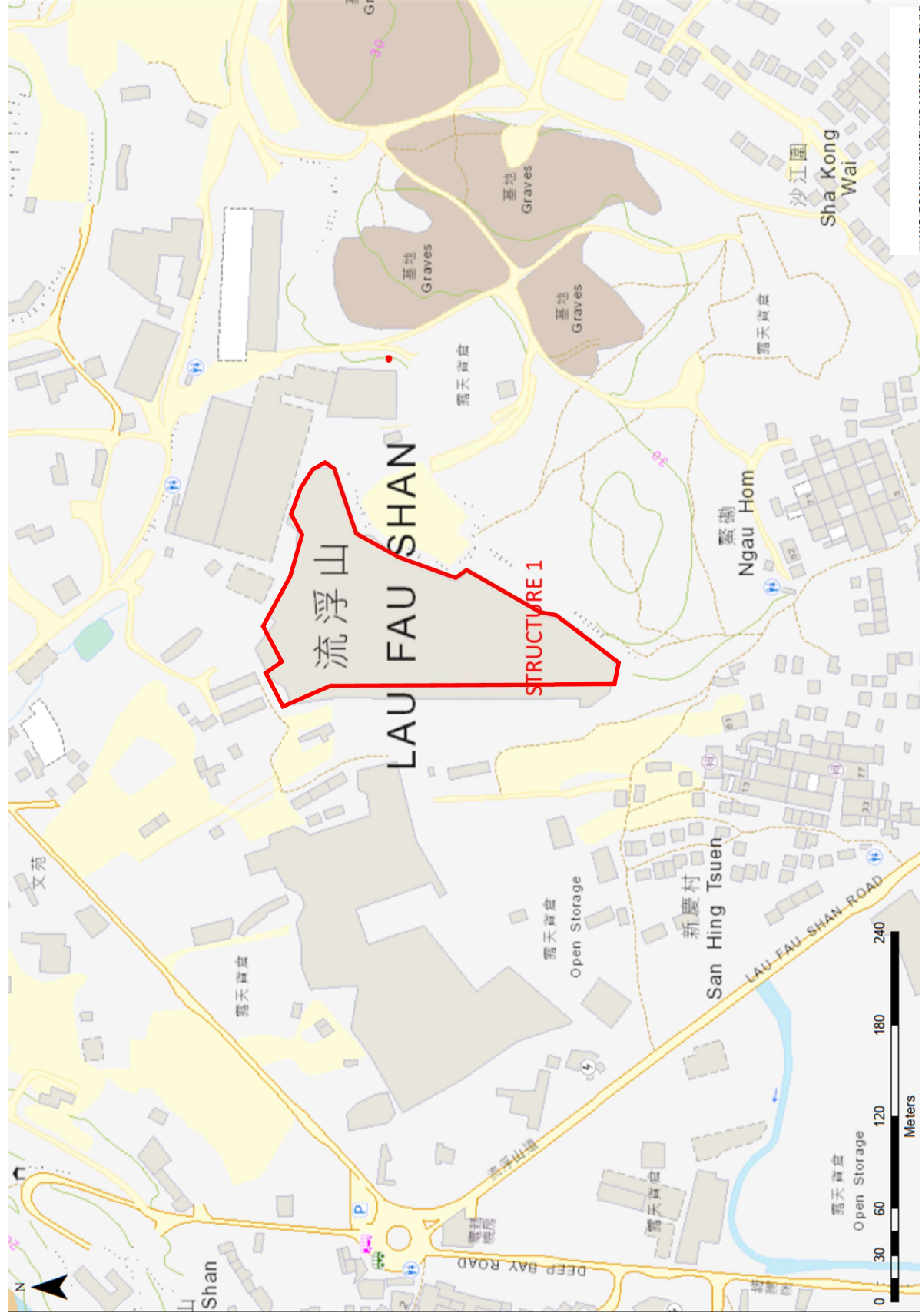


Figure 2

Site Layout Plan

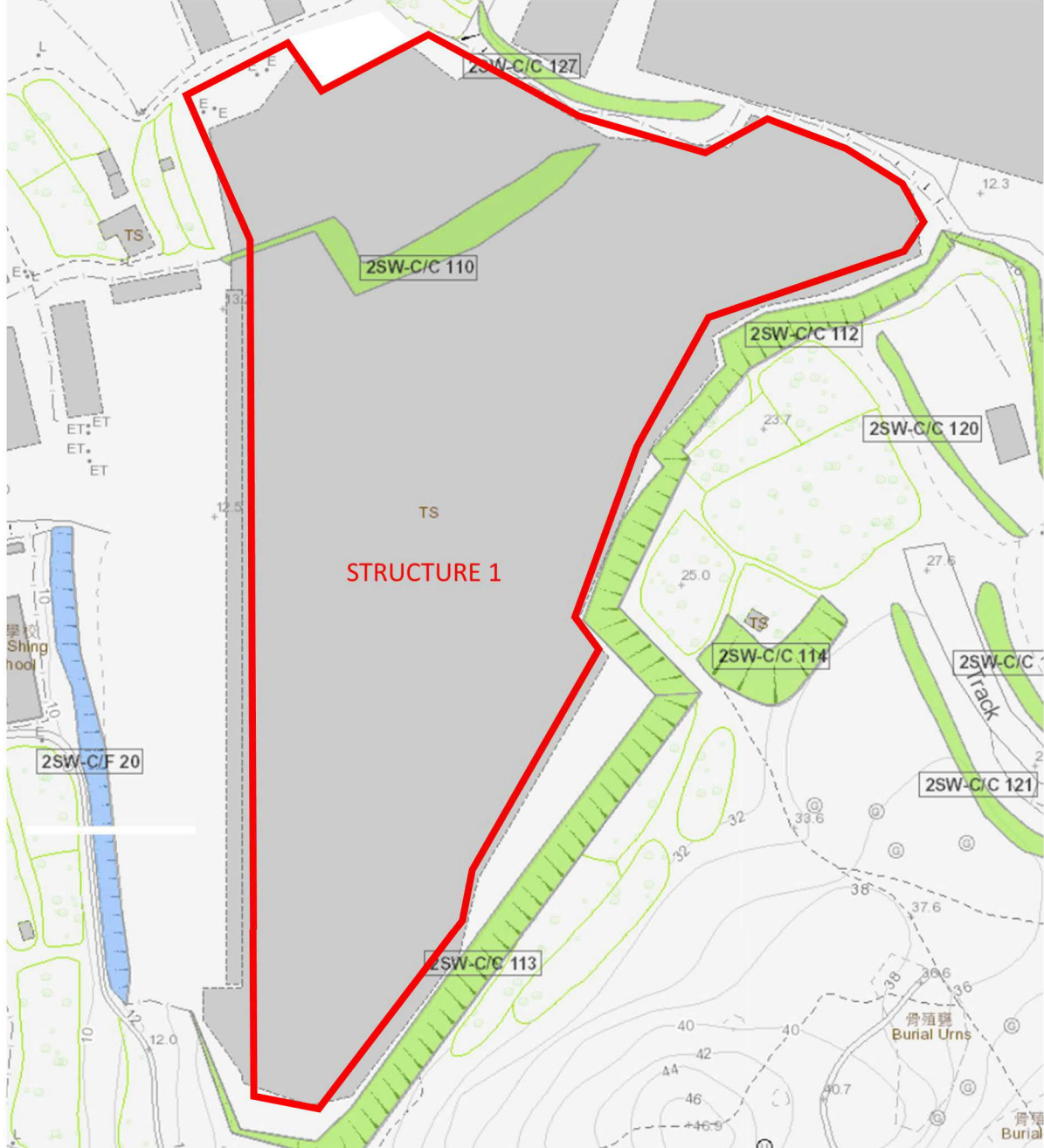


Figure 2.1 Layout and Feature location plan

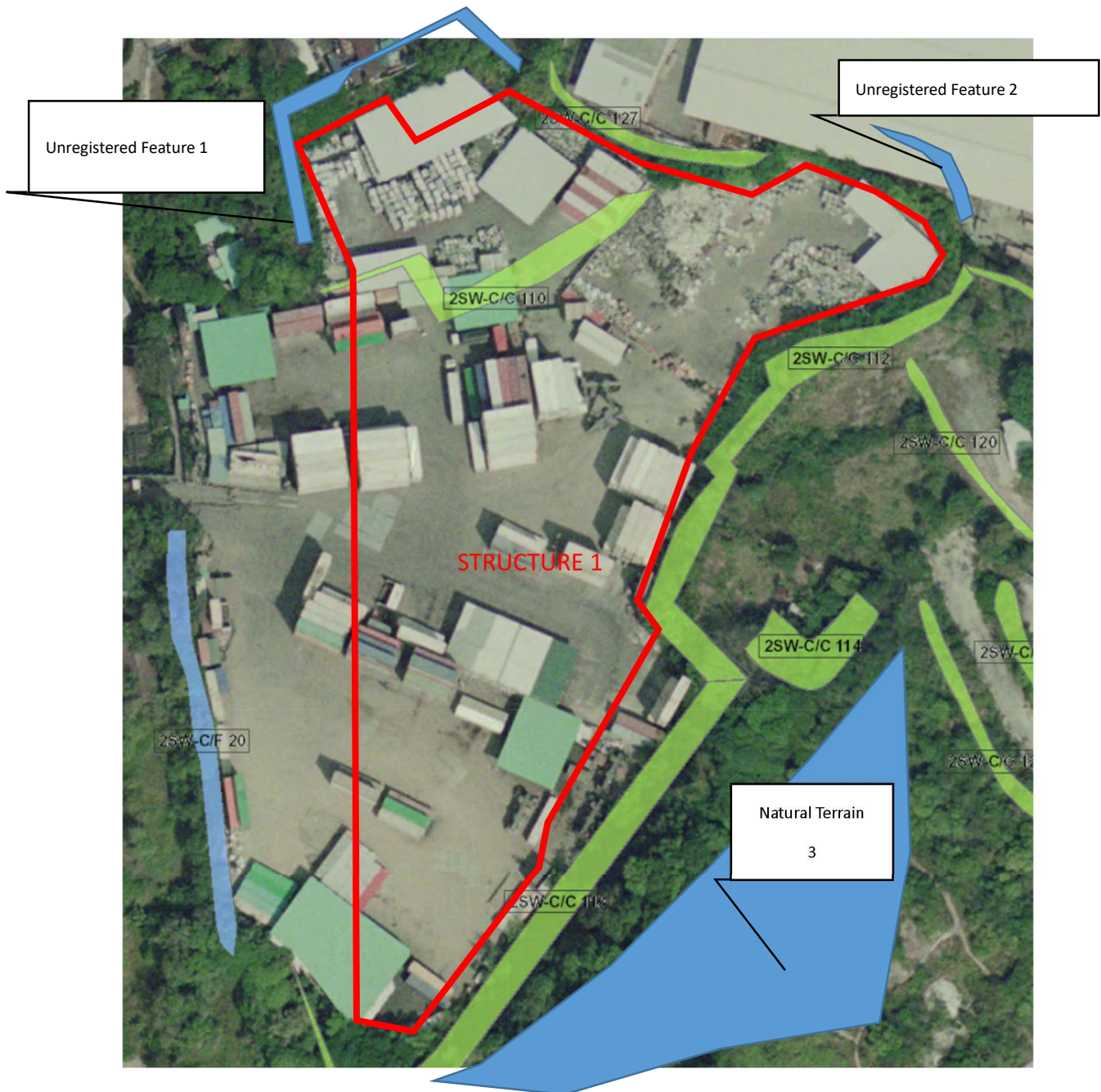
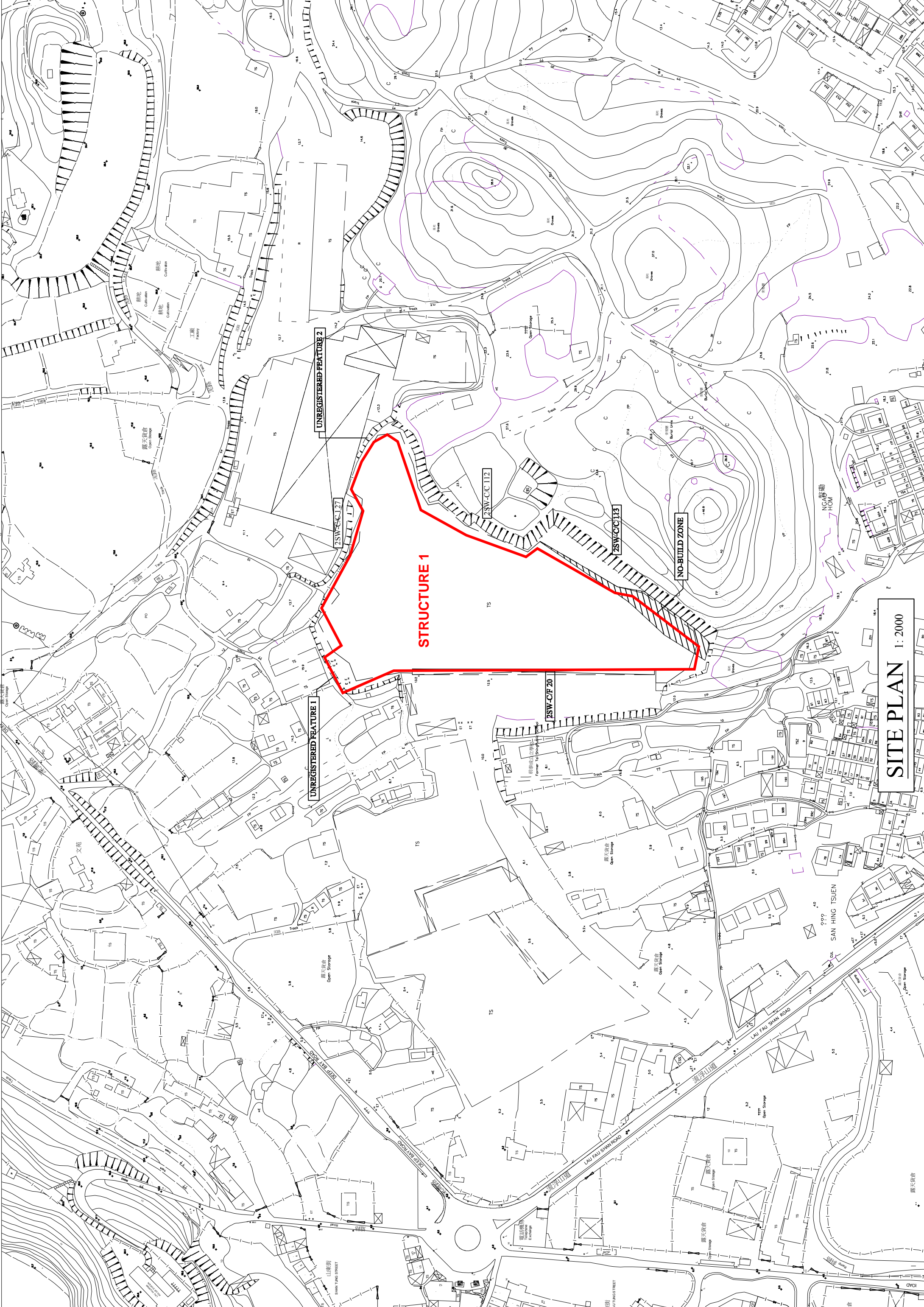


Figure 2.2 Aerial Photo showing the site and the features

Figure 2.3 1:2000 scale layout plan showing the geotechnical features (including the locations of the unregistered natural slopes) and the 'no-build' zone



UNREGISTERED FEATURE 1

UNREGISTERED FEATURE 2

25W-CF 21

25W-CF 112

25W-CF 113

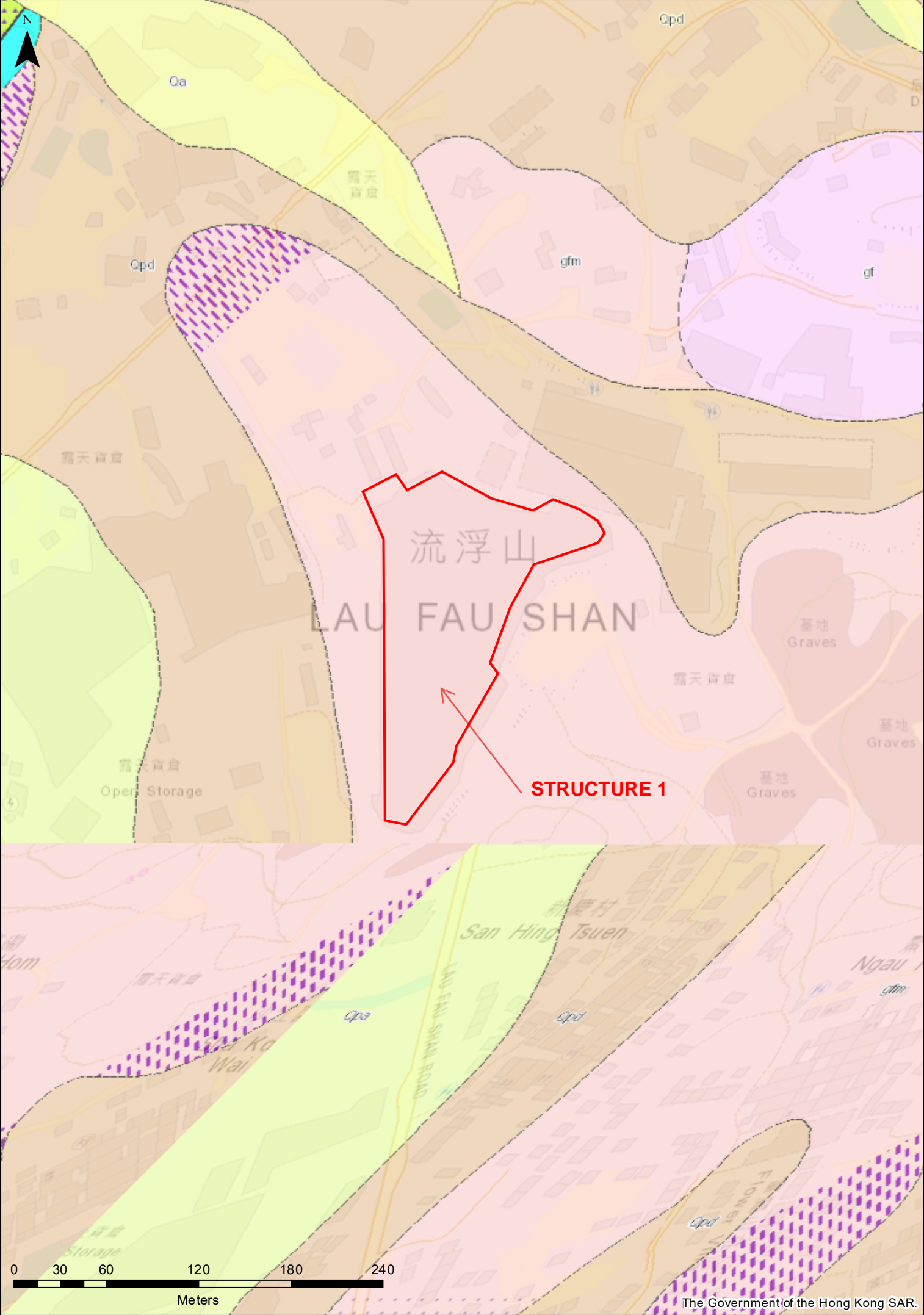
NO-BUILD ZONE

25W-CF 20

SITE PLAN 1: 2000

Figure 3

Hong Kong Geological Map Sheet 2 (Part Plan of
1:20,000)



Appendix A

SIMAR and SIS for Registered Features in the Vicinity of the Site

Slope Maintenance Responsibility Report

(2SW-C/F20)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	2SW-C/F20		Sub-Division	1
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	DD129 Lot2327	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/F20		Sub-Division	2
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	DD129 Lot2326	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/F20		Sub-Division	3
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	DD129 Lot2320	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
4	2SW-C/F20		Sub-Division	4
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	DD129 Lot2318	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
5	2SW-C/F20		Sub-Division	5
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	DD129 Lot2317	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
6	2SW-C/F20		Sub-Division	6
	Location	WITHIN VARIOUS LOT IN DD129 & GL		
	Responsible Lot/Party	Lands Department	Maintenance Agent	Lands Department
	Remarks	1. Slope information being reviewed. 2. For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		

- End of Report -

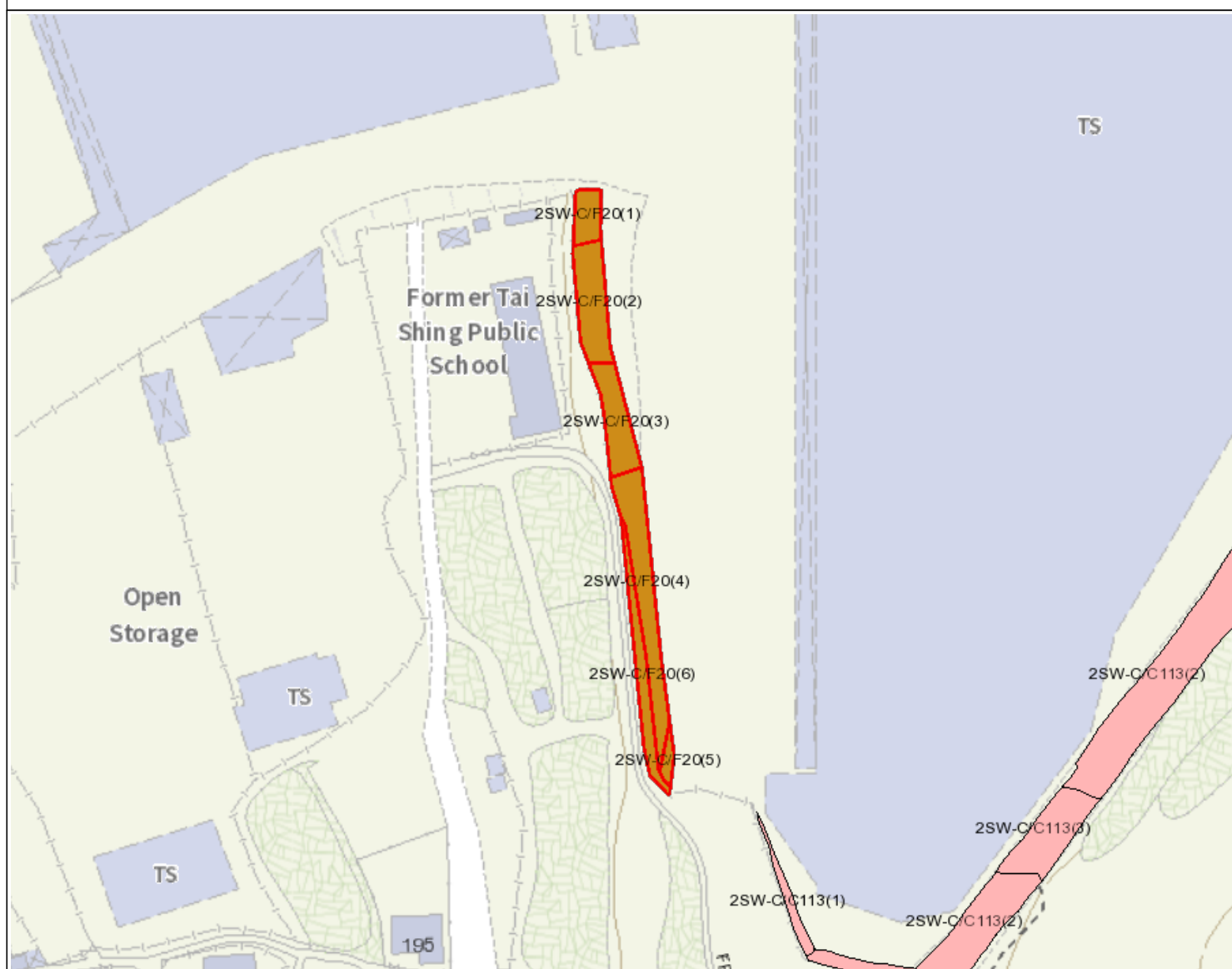
Notes:

- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 2SW-C/F20

Location Plan



Legend

- Slope Area(s)
- - - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

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Search Criteria: 2SW-C/F20

BASIC INFORMATION

Location: 200m to the NW San Hing Tsuen, Lau Fau Shan

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816750 Northing : 836373

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Non-dangerous goods storage site

Distance of Facility from Crest (m): 0

Facility at Toe: Road/footpath with very low traffic density

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 2.5 Length (m): 110 Average Angle (deg): 40

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Mixed Feature	Party: DD129 Lot2327	Agent: N/A
Mixed Feature	Party: DD129 Lot2326	Agent: N/A
Mixed Feature	Party: DD129 Lot2320	Agent: N/A
Mixed Feature	Party: DD129 Lot2318	Agent: N/A
Mixed Feature	Party: DD129 Lot2317	Agent: N/A
Mixed Feature	Party: Lands D	Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	07-11-2001
Data Source:	EI
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
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SLOPE PART

Slope Part (1)

Surface Protection (%):	Bare: 0	Vegetated: 100	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil	Geology: Other geology			
Berm:	No. of Berms: N/A	Min. Berm Width (m): N/A			
Weepholes:	Size (mm): N/A	Spacing (m): N/A			



WALL PART

N/A

SERVICES

N/A

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Road/footpath with very low traffic density

Distance from Toe(m): 0

Type of Crest Facility: Non-dangerous goods storage site

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

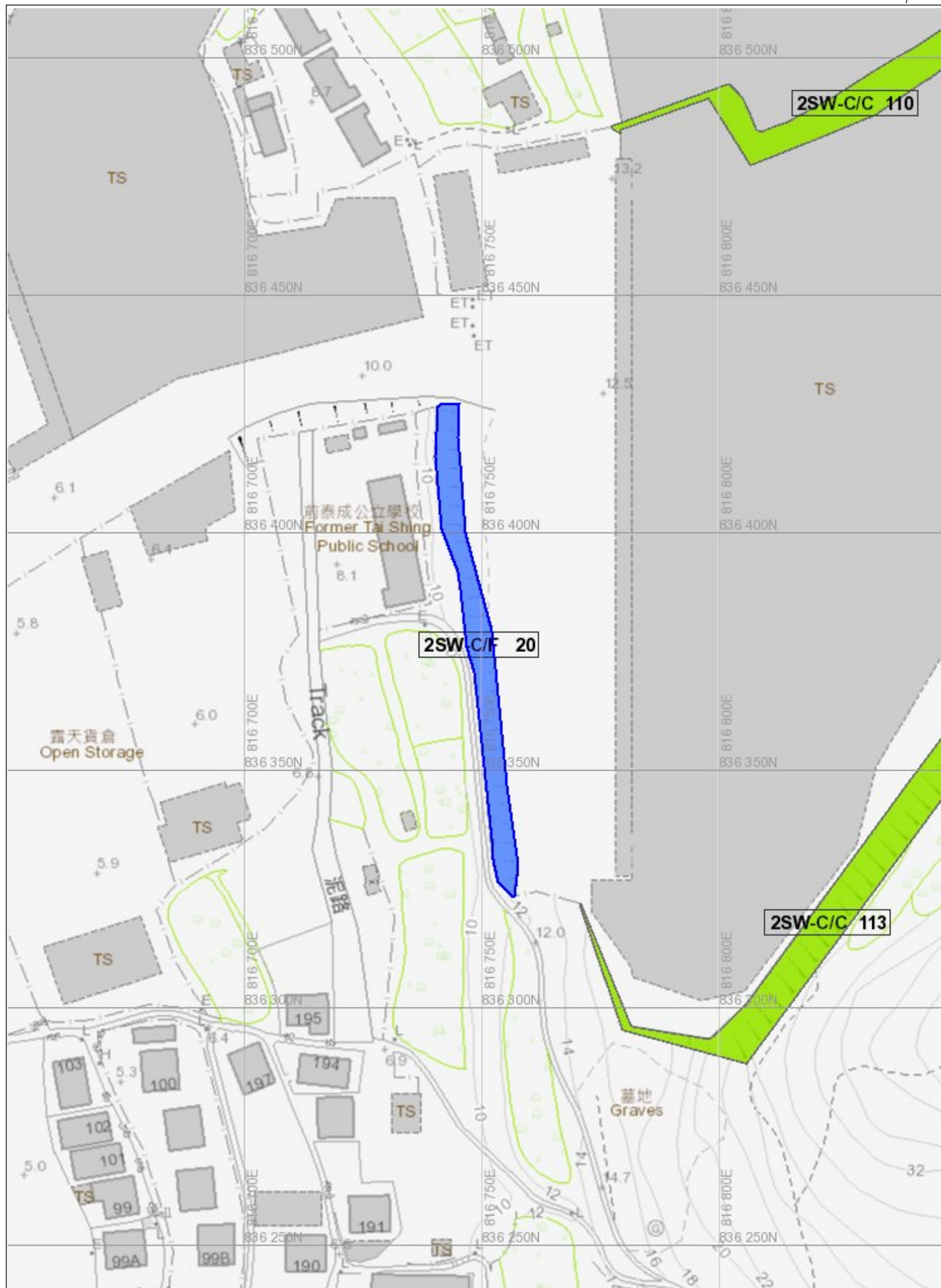
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO





Slope Maintenance Responsibility Report

(2SW-C/C110)


ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT
List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C110		Sub-Division	1
	Location	WITHIN DD129 LOTS2292, 2277A, 2278, 2279A & 2812D		
	Responsible Lot/Party	DD129 Lot2292	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/C110		Sub-Division	2
	Location	WITHIN DD129 LOTS2292, 2277A, 2278, 2279A & 2812D		
	Responsible Lot/Party	DD129 Lot2277A	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/C110		Sub-Division	3
	Location	WITHIN DD129 LOTS2292, 2277A, 2278, 2279A & 2812D		
	Responsible Lot/Party	DD129 Lot2278	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
4	2SW-C/C110		Sub-Division	4
	Location	WITHIN DD129 LOTS2292, 2277A, 2278, 2279A & 2812D		
	Responsible Lot/Party	DD129 Lot2279A	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
5	2SW-C/C110		Sub-Division	5
	Location	WITHIN DD129 LOTS2292, 2277A, 2278, 2279A & 2812D		
	Responsible Lot/Party	DD129 Lot2812DRP	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

- End of Report -

Notes:

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Search Criteria: 2SW-C/C110

Location Plan



Legend

- Slope Area(s)
- - - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



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Search Criteria: 2SW-C/C110

BASIC INFORMATION

Location: PERIMETER OF OPEN STORAGE AREA(CONTAINER), NEAR LAU FAU SHAN, YUEN LONG

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816824 Northing : 836488

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Lightly-used open area/facilities

Distance of Facility from Crest (m): 0

Facility at Toe: Non-dangerous goods storage site

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 5 Length (m): 95 Average Angle (deg): 50

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Private Feature	Party: DD129 Lot2292	Agent: N/A
Private Feature	Party: DD129 Lot2277A	Agent: N/A
Private Feature	Party: DD129 Lot2278	Agent: N/A
Private Feature	Party: DD129 Lot2279A	Agent: N/A
Private Feature	Party: DD129 Lot2812DRP	Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	26-02-1998
Data Source:	SIRST
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
---------------------	-----

SLOPE PART

Slope Part (1)

Surface Protection (%):	Bare: 0	Vegetated: 100	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil Geology: Decomposed granite				
Berm:	No. of Berms: N/A Min. Berm Width (m): N/A				
Weepholes:	Size (mm): N/A Spacing (m): N/A				



WALL PART

N/A

SERVICES

N/A

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Non-dangerous goods storage site

Distance from Toe(m): 0

Type of Crest Facility: Lightly-used open area/facilities

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO





Slope Maintenance Responsibility Report

(2SW-C/C112)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C112		Sub-Division	1
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot1710	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/C112		Sub-Division	2
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot1711	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/C112		Sub-Division	3
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot1712	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
4	2SW-C/C112		Sub-Division	4
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot2812DRP	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
5	2SW-C/C112		Sub-Division	5
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot2279B	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
6	2SW-C/C112		Sub-Division	6
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot2280	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
7	2SW-C/C112		Sub-Division	7
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot2285	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
8	2SW-C/C112		Sub-Division	8
	Location	PARTLY WITHIN LOT1710, 1711, 1712, 2812D, 2279B, 2280, 2285, 2296 IN DD129		
	Responsible Lot/Party	DD129 Lot2296	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

- End of Report -

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Search Criteria: 2SW-C/C112

Notes:

- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Location Plan



Legend

- Slope Area(s)
- - - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

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Search Criteria: 2SW-C/C112



BASIC INFORMATION

Location: PERIMETER OF OPEN STORAGE AREA(CONTAINER), NEAR SAN HING TSUEN, LAU FAU SHAN, YUEN LONG

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816882 Northing : 836453

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt

Distance of Facility from Crest (m): 0

Facility at Toe: Other thinly populated buildings

Distance of Facility from Toe (m): 1

Consequence-to-life Category: 1

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 9 Length (m): 155 Average Angle (deg): 54

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

Private Feature	Party: DD129 Lot1710	Agent: N/A
Private Feature	Party: DD129 Lot1711	Agent: N/A
Private Feature	Party: DD129 Lot1712	Agent: N/A
Private Feature	Party: DD129 Lot2812DRP	Agent: N/A
Private Feature	Party: DD129 Lot2279B	Agent: N/A
Private Feature	Party: DD129 Lot2280	Agent: N/A
Private Feature	Party: DD129 Lot2285	Agent: N/A
Private Feature	Party: DD129 Lot2296	Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	26-02-1998
Data Source:	SIRST
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
---------------------	-----

SLOPE PART

Slope Part (1)					
Surface Protection (%):	Bare: 70	Vegetated: 30	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil Geology: Decomposed granite				
Berm:	No. of Berms: N/A Min. Berm Width (m): N/A				
Weepholes:	Size (mm): N/A Spacing (m): N/A				



WALL PART

N/A

SERVICES

N/A



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Other thinly populated buildings

Distance from Toe(m): 1

Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

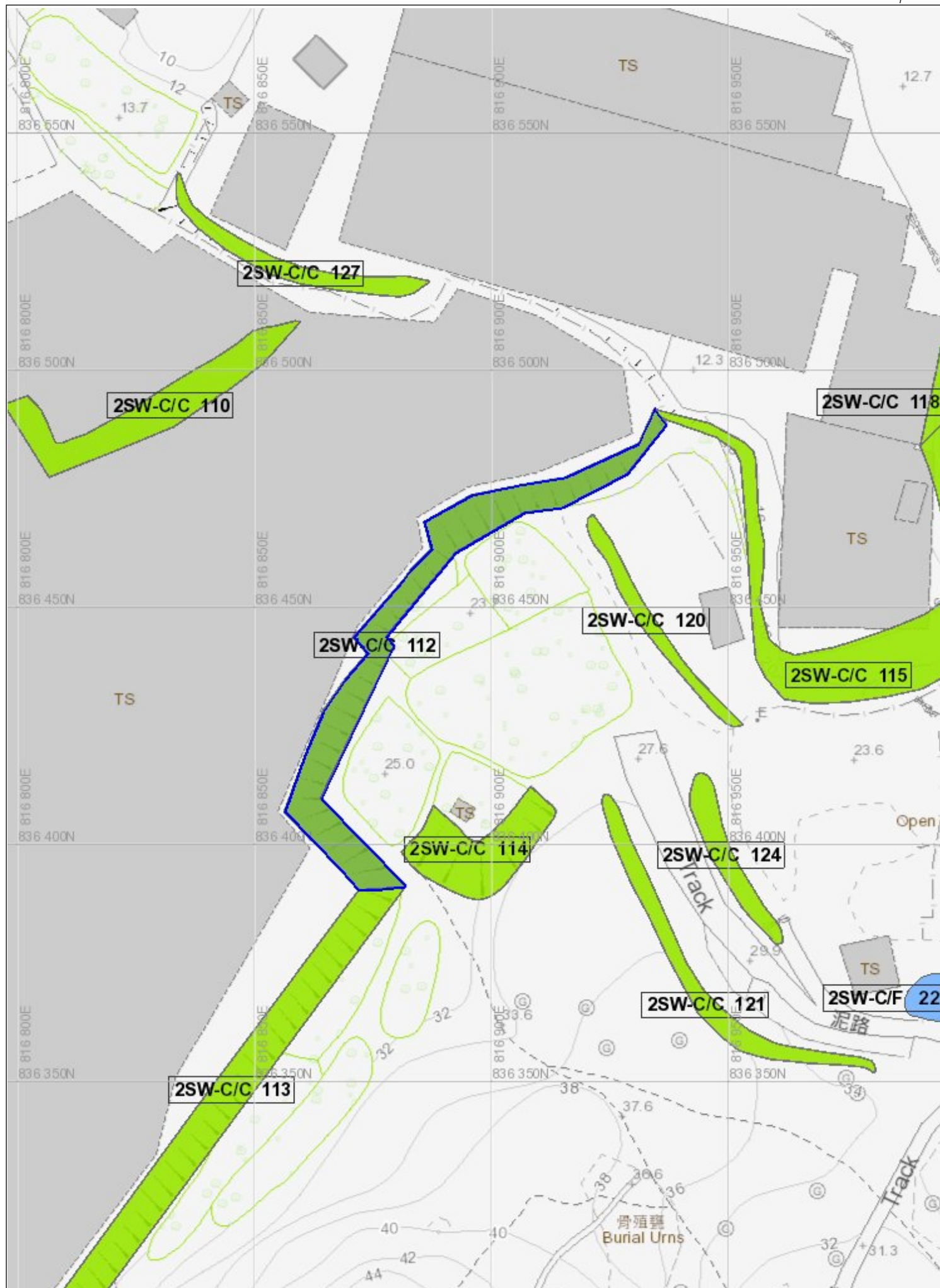
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO





Slope Maintenance Responsibility Report

(2SW-C/C113)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C113		Sub-Division	1
	Location	PARTLY WITHIN LOT2314A, LOT2812D, LOT2302 IN DD129		
	Responsible Lot/Party	DD129 Lot2314A	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/C113		Sub-Division	2
	Location	PARTLY WITHIN LOT2314A, LOT2812D, LOT2302 IN DD129		
	Responsible Lot/Party	DD129 Lot2812DRP	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/C113		Sub-Division	3
	Location	PARTLY WITHIN LOT2314A, LOT2812D, LOT2302 IN DD129		
	Responsible Lot/Party	DD129 Lot2302	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

- End of Report -

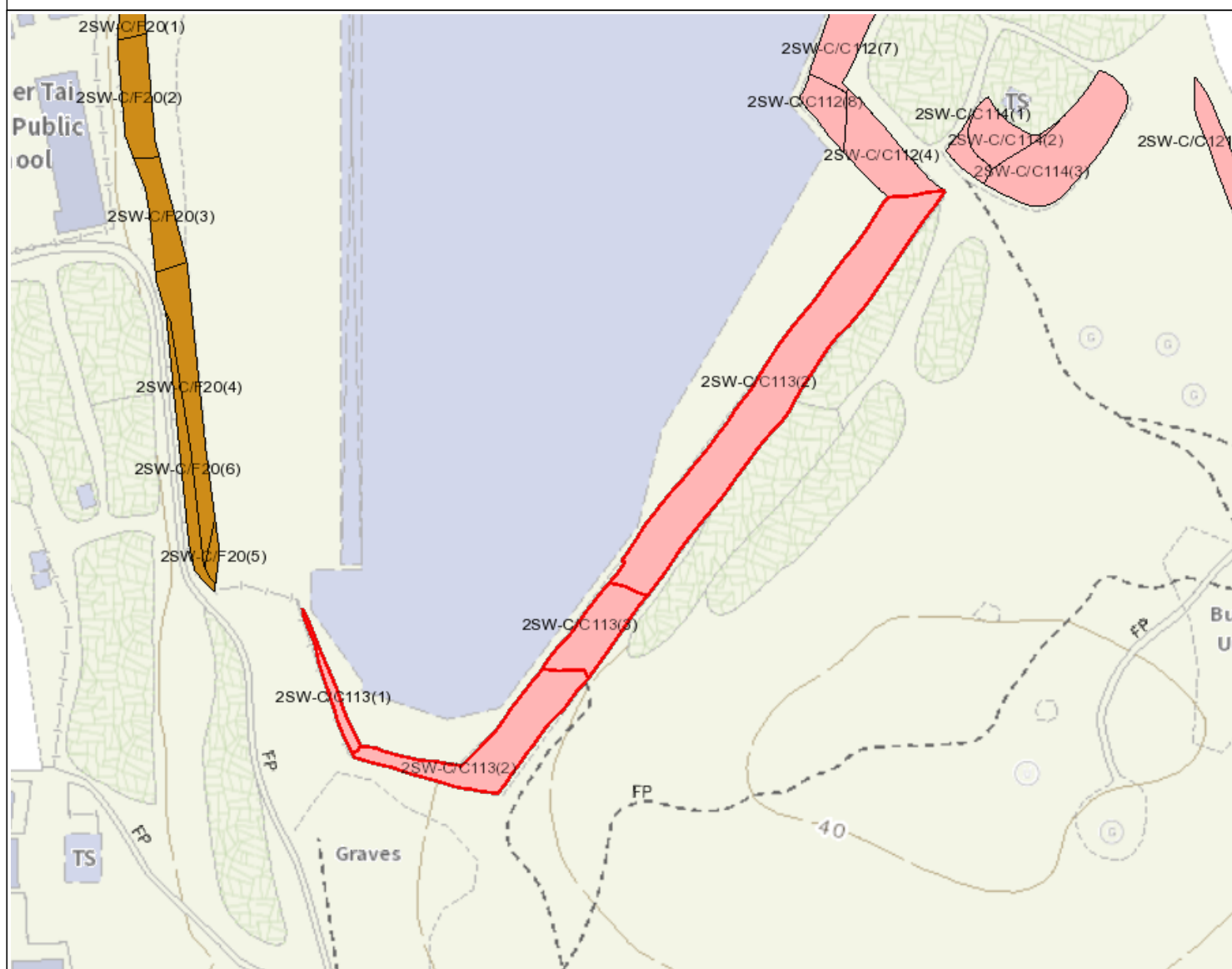
Notes:

- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 2SW-C/C113

Location Plan



Legend

- Slope Area(s)
- - - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

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Search Criteria: 2SW-C/C113

BASIC INFORMATION

Location: PERIMETER OF OPEN STORAGE AREA(CONTAINER), NEAR SAN HING TSUEN, LAU FAU SHAN, YUEN LONG

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816831 Northing : 836329

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt

Distance of Facility from Crest (m): 0

Facility at Toe: Non-dangerous goods storage site

Distance of Facility from Toe (m): 1

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 10 Length (m): 175 Average Angle (deg): 54

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

Private Feature	Party: DD129 Lot2314A	Agent: N/A
Private Feature	Party: DD129 Lot2812DRP	Agent: N/A
Private Feature	Party: DD129 Lot2302	Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	26-02-1998
Data Source:	SIRST
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
---------------------	-----

SLOPE PART

Slope Part (1)					
Surface Protection (%):	Bare: 70	Vegetated: 30	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil Geology: Decomposed granite				
Berm:	No. of Berms: N/A Min. Berm Width (m): N/A				
Weepholes:	Size (mm): N/A Spacing (m): N/A				



WALL PART

N/A

SERVICES

N/A

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Non-dangerous goods storage site

Distance from Toe(m): 1

Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

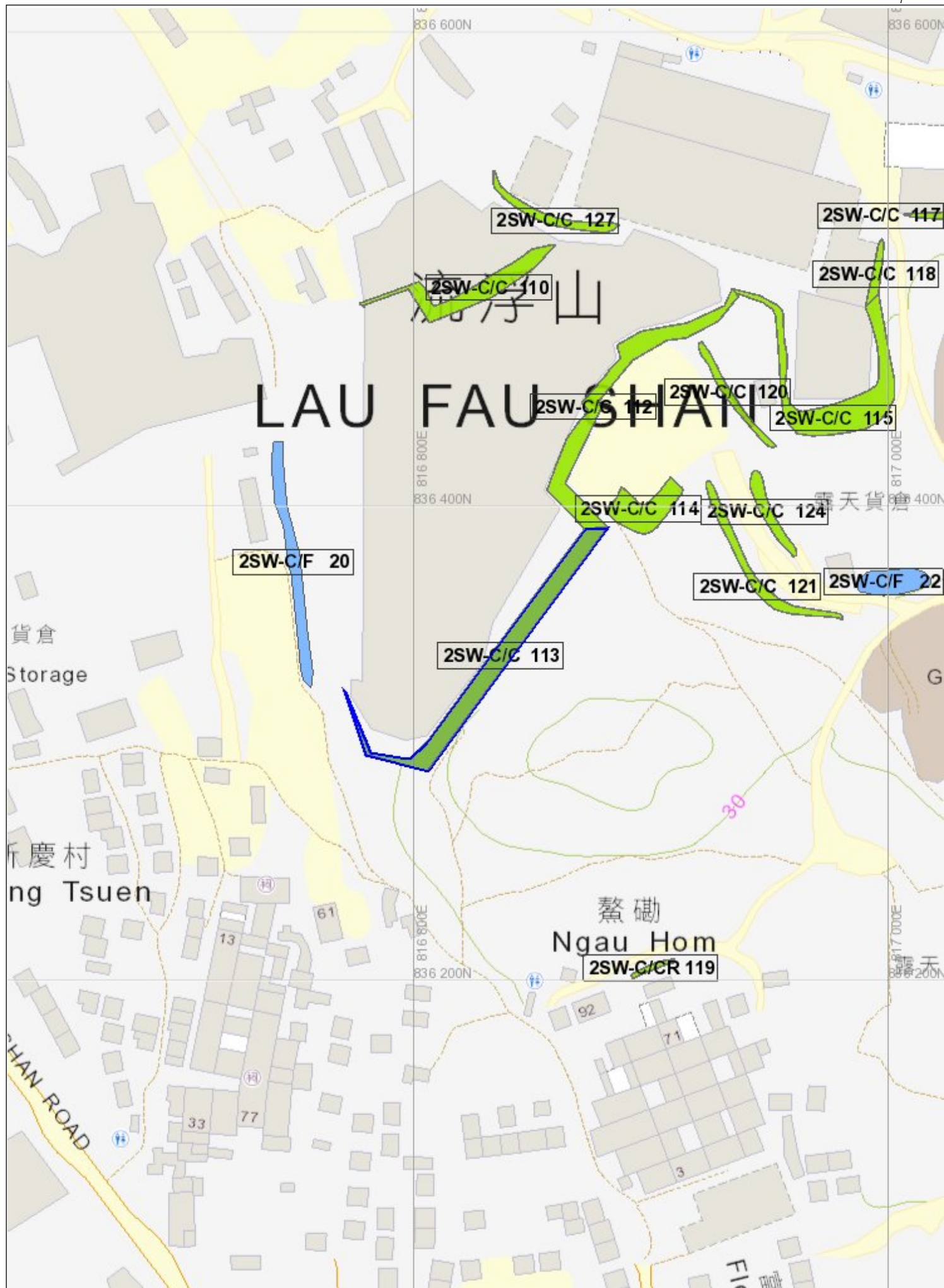
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO





Slope Maintenance Responsibility Report

(2SW-C/C127)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C127		Sub-Division	1
	Location	WITHIN DD129 LOTS1714, 1715 AND 1719		
	Responsible Lot/Party	DD129 LOT1714	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/C127		Sub-Division	2
	Location	WITHIN DD129 LOTS1714, 1715 AND 1719		
	Responsible Lot/Party	DD129 LOT1715	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/C127		Sub-Division	3
	Location	WITHIN DD129 LOTS1714, 1715 AND 1719		
	Responsible Lot/Party	DD129 LOT1719	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

- End of Report -

Notes:

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Search Criteria: 2SW-C/C127

Location Plan



Legend

- Slope Area(s)
- - - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

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Search Criteria: 2SW-C/C127

BASIC INFORMATION

Location: NGAU HOM, LAU FAU SHAN

Date of Formation: post-1977

Date of Construction/
Modification:

Approximate Coordinates: Easting : 816856 Northing : 836521

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt

Distance of Facility from Crest (m): 0

Facility at Toe: Non-dangerous goods storage site

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 4.8 Length (m): 65 Average Angle (deg): 40

WALL PART

N/A



MAINTENANCE RESPONSIBILITY

Private Feature	Party: DD129 LOT1714	Agent: N/A
Private Feature	Party: DD129 LOT1715	Agent: N/A
Private Feature	Party: DD129 LOT1719	Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection:	11-11-2002
Data Source:	Agreement CE 59/2002 (GE)
Slope Part Drainage:	N/A

Wall Part Drainage:	N/A
---------------------	-----

SLOPE PART

Slope Part (1)					
Surface Protection (%):	Bare: 0	Vegetated: 100	Chunam: 0	Shotcrete: 0	Other Cover: 0
Material Description:	Material type: Soil Geology: Decomposed granite				
Berm:	No. of Berms: N/A Min. Berm Width (m): N/A				
Weepholes:	Size (mm): N/A Spacing (m): N/A				



WALL PART

N/A

SERVICES

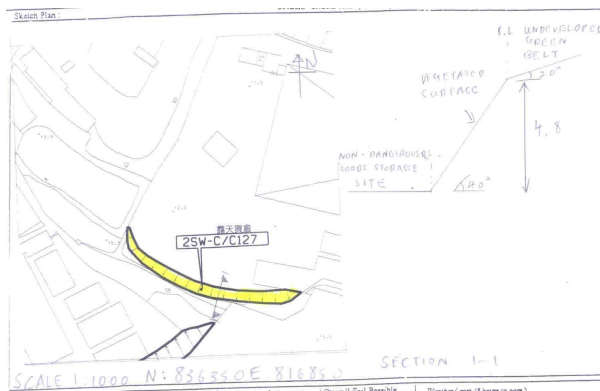
N/A

STAGE 1 STUDY REPORT

Inspected On: 11-11-2002

Weather: Mainly Fine

District: MW



Section No: 1-1

Height(m): H1 : 5 , H2 : 0

Type of Toe Facility: Non-dangerous goods storage site

Distance from Toe(m): 0

Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0

Consequence Category: 3

Engineering Judgement: P

Section No: 2-2

Type of Toe Facility: N/A

Distance from Toe(m): 0

Type of Crest Facility: N/A

Distance from Crest(m): 0

Consequence Category: 3

Engineering Judgement: P

Sign of Seepage:	Slope : No sign of seepage Wall : N/A
Criterion A satisfied:	N
Sign of Distress:	Slope : N/A Wall : N/A
Criterion D satisfied:	N
Non-routine maintenance required:	N
Note:	N/A
Masonry wall/Masonry facing:	N
Note:	N/A
Consequence category (for critical section):	3
Observations:	N/A
Emergency Action Required:	N
Action By:	N/A

ACTION TO INITIATE PREVENTIVE WORKS

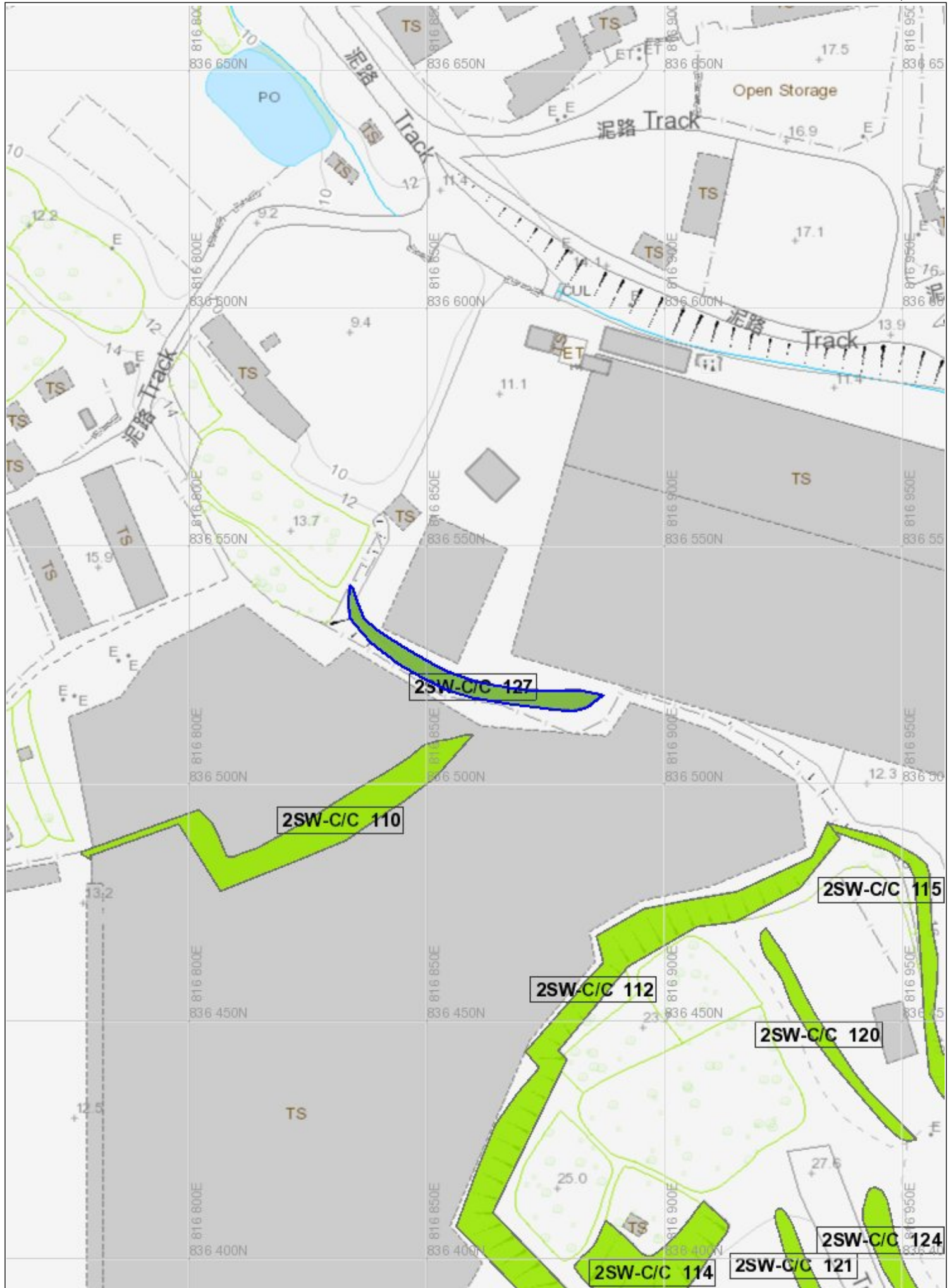
Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	Y
Action By:	Mixed

OTHER EXTERNAL ACTION

Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

PHOTO





Appendix B

Existing BD Records

(No related building record found.)

[illegible]

Appendix C

Existing Ground Investigation Records

(GIU: 62062)



CONTRACT NO. GE/2014/07
GROUND INVESTIGATION - NEW TERRITORIES WEST
(TERM CONTRACT)

Works Order No. GE/2014/07.16B
Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area
Planning and Engineering Study - Investigation (Batch 3)

FINAL FIELD WORK REPORT

Checked in accordance with
Contract No. GE/2014/07
requirements and accepted.

Signed _____ Date _____

Certified as Checked by

Raymond Chu
Geotechnical Engineer

Certified as Completed by

Alex Chu
Contractor's Representative

CONTRACTOR

DRiLTECH Ground Engineering Limited
Blk A & B, 9/F.,
Hong Kong Spinners Industrial Bldg., Phase VI,
481 - 483 Castle Peak Road,
Kowloon

May 2015

DRILTECH**DRILLHOLE RECORD**

CONTRACT NO. GE/2014/07

HOLE NO. **HSK-ABH 0201**

SHEET 1 of 1

PROJECT Ground Investigation - New Territories West (Term Contract), Agreement No. CE 2/2011 (CE), Hung Shui Kiu New Development Area, Planning and Engineering Study - Investigation (Batch 3)

METHOD		ROTARY		CO-ORDINATES		WORKS ORDER NO.								
MACHINE		SD04		E 816510.20 N 836333.15		GE/2014/07.16B								
FLUSHING MEDIUM		DRY DRILLING		ORIENTATION		VERTICAL								
GROUND LEVEL						+4.78 mPD								
Drilling Progress	Casing Size	Water Level (m) Shift Start/End	Water Return%	TCR%	SCR%	RQD%	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
25.04.2015	PW													
1									1	0.45	+4.28	0.50		Very dark grey (2.5Y 3/1), slightly silty fine to coarse SAND with some angular to subangular fine to coarse gravel of rock fragments. (FILL)
									2	0.95	+3.78	1.00		Brown (10YR 5/3), angular to subangular, slightly clayey silty sandy fine to coarse GRAVEL of rock fragments. (FILL)
									3	1.45	+3.28	1.50		Grey (7.5YR 5/1), slightly silty clayey fine to coarse SAND with some angular to subangular fine to medium gravel of rock fragments. (FILL)
2									4	1.95				Light yellowish brown (10YR 6/4), slightly clayey silty fine to coarse SAND with occasional angular to subangular fine gravel of quartz fragments. (FILL)
									5	2.45				
3								B=23	6	2.95	+1.78	3.00		Soft, yellowish brown (10YR 5/4) mottled light grey, silty sandy CLAY. (FILL)
									7	3.00				
									8	3.45				
4									9	4.45	+0.28	4.50		Pale brown (10YR 6/3), slightly clayey silty fine to coarse SAND with much angular to subangular fine gravel of quartz fragments. (ALLUVIUM)
5									10	5.45	-0.72	5.50		Light yellowish brown (10YR 6/4), slightly silty fine to coarse SAND. (ALLUVIUM)
25.04.2015 27.04.2015		2.50 at 1600 1.35 at 0800						B=18	11	6.00				
27.04.2015	PW 6.50m	1.35 at 1300							12	6.45	-1.72	6.50		End of hole at 6.50 m.
7														
8														
9														
10														
<div><div><div>SMALL DISTURBED SAMPLE</div><div>LARGE DISTURBED SAMPLE</div><div>U76 SAMPLE</div><div>PISTON SAMPLE (76mm)</div><div>MAZIER SAMPLE</div><div>SPT LINER SAMPLE</div><div>WATER SAMPLE</div><div>U100 SAMPLE</div></div><div><div>STANDARD PENETRATION TEST</div><div>IN-SITU VANE SHEAR TEST</div><div>PACKER TEST</div><div>PERMEABILITY TEST</div><div>PRESSUREMETER TEST</div><div>BOREHOLE TELEVIEWER</div><div>PIEZOMETER TIP</div><div>STANDPIPE TIP</div></div></div>									LOGGED		S.L. Chiu		REMARKS	
DATE		29.04.2015		1. An inspection pit was excavated to 3.00m deep by hand tools.										
CHECKED		R. Chu		2. A standpipe with 50mm in diameter was installed at 6.00m.										
DATE		07.05.2015		3. A groundwater sample was taken at 6.00m.										

Appendix D

Extract of the Site Plan for PlanD Application

Project 項目名稱:

Proposed Temporary Logistics Centre with Ancillary Office & Parking of Vehicle for a Period of 3 Years at Lots 1709(Part), 1710(Part), 1711(Part), 1712(Part), 1713, 1714(Part), 1715(Part), 1719(Part), 2276S.A, 2276S.A ss.2 (Part), 2276 S.A RP (Part), 2277S.A, 2277S.B (Part), 2278, 2279S.A, 2279S.B (Part), 2280(Part), 2285(Part), 2286, 2287, 2288, 2289, 2291, 2292, 2294, 2295, 2296(Part), 2302(Part), 2305(Part), 2306, 2310, 2311, 2312, 2313, 2314S.A, 2314RP(Part), 2317(Part), 2318(Part), 2320(Part), 2321, 2322, 2323, 2324, 2325S.A, 2325S.B, 2325RP, 2326(Part), 2327(Part), 2328, 2329, 2344S.A(Part), 2344S.B (Part), 2348, 2349(Part), 2351(Part), 2352(Part), 2353(Part) in D.D.129 & Adjoining Government Land, Lau Fau Shan, Yuen Long, N.T.

Drawing No. 圖號:

Figure 1

Drawing Title 圖目:

Site Plan

Remarks 備註:

Scale 比例:

1:1000



Project 項目名稱:

Proposed Temporary Logistics centre and ancillary Office & Parking of Vehicle for a Period of 3 Years at Lots 1709(Part), 1710(Part), 1711(Part), 1712(Part), 1713, 1714(Part), 1715(Part), 1719(Part), 2276S.A ss.2 (Part), 2276 S.A RP (Part), 2277S.A, 2277S.B (Part), 2278, 2279S.A, 2279S.B (Part), 2280(Part), 2285(Part), 2286, 2287, 2288, 2289, 2291, 2292, 2294, 2295, 2296(Part), 2302(Part), 2305(Part), 2306, 2310, 2311, 2312, 2313, 2314S.A, 2314RP(Part), 2317(Part), 2318(Part), 2320(Part), 2321, 2322, 2323, 2324, 2325S.A, 2325S.B, 2325RP, 2326(Part), 2327(Part), 2328, 2329, 2344S.A(Part), 2344S.B (Part), 2348, 2349(Part), 2351(Part), 2352(Part), 2353(Part) in D.D.129 & Adjoining Government Land, Lau Fau Shan, Yuen Long, N.T.

Drawing No. 圖號:

Figure 3

Drawing Title 圖目:

Proposed Layout Plan

Remarks 備註:

Scale 比例:

1:1000

