



LEGEND

- AREA FOR GROUP TREE SURVEY
- PROPOSED SITE AREA
- 500m LANDSCAPE STUDY AREA
- IMPACT ON TREES
- KEY LANDSCAPE AREA WITHIN 500m ASSESSMENT AREA EXPECTED TO BE RETAINED

Rev	Description	By	Date
A	FIRST ISSUE	KL	11/13

Consultant
ARUP

Contract No. and Title
Agreement No. CE 18/2012(CE)
Development of
Anderson Road Quarry -
Investigation

Drawing title
TREE SURVEY PLAN

Drawing no. APPENDIX 11.1		Rev. A	
Drawn MAN	Date 11/13	Checked CL	Approved SYC
Scale 1:10000 @A3		Status PRELIMINARY	

COPYRIGHT RESERVED

土木工程拓展署
Civil Engineering and
Development Department

APPROXIMATELY 350 NOS. OF ROADSIDE TREE PLANTING AT KEY THOROUGHFARE SUCH AS CLEAR WATER BAY ROAD, TSEUNG KWAN O AND KWUN TONG REGION. TREE SPECIES WITHIN THESE AREAS ARE MELALEUCA CAJUPUTI SUBSP., CUMINGIANA AND ACACIA CONFUSA, THEVETIA PERUVIANA AND SCHEFFLERA HEPTAPHYLLA WITH APPROXIMATELY 4-10m; CROWN SPREAD 8-15m; TRUNK DIAMETERS 110-280mm USUALLY NEED MINIMAL MAINTENANCE AND HIGHLY TOLERANT TO CHANGE. TREES ARE GENERALLY IN POOR TO FAIR FORM AND HEALTH CONDITION; AMENITY VALUE IS LOW, THEREFORE THEIR LANDSCAPE VALUE IS CONSIDERED TO BE LOW.

PROPOSED A POTENTIALLY REGISTRABLE OVTs TREE A AND B WILL BE SUBJECT TO ARRANGEMENT UNDER GEO CONTRACT NO. GE/96/10 'REHABILITATION OF ANDERSON ROAD QUARRY' AND FURTHER REVIEW IN DETAILED DESIGN STAGE OF ARO DEVELOPMENT; PRESERVATION OF POTENTIALLY REGISTRABLE OVTs SHOULD BE CONSIDERED IN EARLY STAGE; ENSURE SUFFICIENT REVIEW FOR PRESERVATION OF THE CONCERNED TREES IS CARRIED OUT AS EARLY AS POSSIBLE AND PRACTICABLE IN ACCORDANCE WITH ETWB TCW NO. 29/2004 AND DEVB TCW NO. 10/2013.

APPROXIMATELY 15,500 NOS OF TREES ARE LARGELY EXPOSED SOIL AND ROCK SURFACES AND DEVOID OF VEGETATION EXCEPT WHERE IT HAS BEEN LANDSCAPED ALONG ITS PERIPHERAL AREAS. PLANTATIONS WERE ESTABLISHED ON MAN-MADE SLOPE FOR SCREENING, SLOPE STABILIZATION AND AESTHETIC GREENING PURPOSES. EXOTIC SPECIES IS FOUND SUCH AS ACACIA AURICULIFORMIS, ACACIA CONFUSA, CASUARINA EQUisetifolia, EUCALYPTUS CITRIODORA, EUCALYPTUS TORELLIANA; SHRUBS AND CLIMBERS SPECIES SUCH AS MELASTOMA SANGUINEUM, RHAPHIOLEPIS INDICA AND PARTHENCISSUS DALZIELII. MOST TREES ARE ~5-12 METRE HIGH, CROWN SPREAD 4-12m; MOST TREES ARE GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION WITH MODERATE AMENITY VALUE AND AESTHETIC VALUE. MOST OF THEM ARE WELL-ESTABLISHED. GIVEN THAT THESE AREAS ARE INTENSIVELY DISTURBED AND ONLY LIMITED VEGETATION IS PRESENT, OVERALL THIS LR IS CONSIDERED TO BE REASONABLY TOLERANT TO CHANGE AND AMENITY VALUE IS CONSIDERED TO BE MEDIUM.

APPROXIMATELY 5,000 MORE INDIVIDUAL TREES GROW DENSELY IN THIS WOODLAND AREA AT TAI SHEUNG TOK WITHIN THE LANDSCAPE STUDY AREA. MOST OF THE TREES ARE MATURE WITH HEIGHTS RANGING FROM APPROXIMATELY 6-10m; CROWN SPREAD 5-10m; TRUNK DIAMETERS 120-250mm. DUE TO ITS HIGH MATURITY AND LANDSCAPE VALUE AND THE LOCATION ON A VANTAGE POINT OF ~410mPD, DOMINANT TREES SPECIES INCLUDE ALANGIUM CHINENSE, CELTIS SINENSIS, CINNAMOMUM CAMPHORA, CINNAMOMUM PARTHENOXYLON, LITSEA GLUTINOSA, REEVESIA THYRSOIDEA, SCHEFFLERA HEPTAPHYLLA, SCHIMA SUPERBA AND MACHILUS SPP. MOST TREES ARE GENERALLY IN GOOD FORM AND HEALTH CONDITION. THIS LR IS INTOLERANT TO CHANGE AND AMENITY VALUE IS CONSIDERED TO BE HIGH. LANDSCAPE VALUE IS CONSIDERED TO BE HIGH.

APPROXIMATELY 20.6 HA. OF HILLSIDE SHRUBLAND AND APPROXIMATELY 5 HA. OF GRASSLAND AT THE SUMMITS OF FEI NGO SHAN (KWLOON PEAK) IN THE NORTHWEST, THE SOUTHERN EDGE OF THE TAI SHEUNG TOK RANGE AND THE RIDGELINE FORMED BY MAU WU SHAN NG KWAI SHAN (BLACK HILL) IN THE SOUTHEAST. 10 HA GRASSES SUCH AS BIDENS ALBA, MISCANTHUS SPP. AND PENNISETUM SPP. ARE THE COMMON SPECIES FOUND AMONG HILLSIDE GRASSLAND AND SHRUBS DOMINATED BY GLOCHIDIUM HIRSUTUM, RHODOMYRTUS TOMENTOSA, MELASTOMA MALABATHRICUM AND EURYA SPP. ARE SCATTERED AMONG THE GRASSES AND BECOME MORE ABUNDANT AT LOWER LEVELS. APPROXIMATELY 10 INDIVIDUALS OF THE PROTECTED HERB CHINESE LILY LILIUM BROWNII WERE IDENTIFIED IN THE SHRUBBY GRASSLAND AREA. IT IS PROTECTED UNDER THE FORESTRY AND COUNTRYSIDE ORDINANCE (CAP. 96). VEGETATION IS GENERALLY IN GOOD FORM AND HEALTH CONDITION. THIS LR IS INTOLERANT TO CHANGE AND AMENITY VALUE IS CONSIDERED TO BE HIGH. LANDSCAPE VALUE IS CONSIDERED TO BE HIGH.

APPROXIMATELY 220 NOS OF TREES AT SHUN LEE TSUEN ROAD AND OPPOSITE TO SHUN LEE ESTATE AND SHUN ON ESTATE, KWUN TONG, SHUN LEE TSUEN SPORTS CENTRE AND PARK.. MAJOR TREE SPECIES FOUND INCLUDE ARCHONTOPHOENIX ALEXANDRAE, DYPsis LUTESCENS, FICUS MICROCARPA, LAGERSTROEMIA SPECIOSA AND SCHEFFLERA ACTINOPHYLLA IN AVERAGE HEIGHT OF 4-10m; CROWN SPREAD 2-12m. MOST TREES ARE GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION WITH HORTICULTURAL MAINTENANCE. THE LANDSCAPE QUALITY OF THIS RESOURCE IS CONSIDERED AS MODERATE WITH FAIRLY ACCOMMODATE CHANGE. THE OVERALL LANDSCAPE VALUE IS CONSIDERED AS MEDIUM.

APPROXIMATELY 19.3 HA IN TWO PLOTS OF THIS LR IN NORTHWEST OF THE ASSESSMENT AREA. SCHOOLS AND PARKS ARE PROPOSED TO BE BUILT IN SOME PART OF THIS LR WHILE IN THE OTHER PART FENCES ARE SET UP AS PREPARATION FOR THE SUBSEQUENT CONSTRUCTION ACTIVITIES. YOUNG TREES (APPROXIMATELY 100-200 INDIVIDUALS) HAVE BEEN PLANTED ALONG THE ROADS WITHIN THESE AREAS AND THE COMMON SPECIES INCLUDE ACACIA CONFUSA, BOMBAX CEIBA, DELONIX REGIA AND SPATHODEA CAMPANULATA. THESE TREES ARE USUALLY OF SMALL TO MEDIUM SIZE, RANGING BETWEEN 3 - 6m IN HEIGHT. MOST TREES ARE GENERALLY IN POOR FORM AND POOR HEALTH CONDITION. THIS LR HAS LARGE EXPOSED AREAS AND DOES NOT HAVE HIGH LANDSCAPE VALUE. IT IS HIGHLY CAPABLE OF ACCOMMODATING CHANGE AND AMENITY VALUE IS CONSIDERED TO BE LOW.

APPROXIMATELY 4,600 NOS OF TREES OF PLANNED DAR IS CHARACTERIZED BY ITS EXTENSIVE DISTURBANCE CAUSED BY THE CONSTRUCTION AND ASSOCIATED ACTIVITIES. TREE SPECIES SUCH AS ACACIA CONFUSA, MACHILUS PALMUDI, CELTIS SINENSIS, MACARANGA TANARIUS VAR. TOMENTOSA, FICUS VARIEGATA. IN AVERAGE HEIGHT OF 4-8m; CROWN SPREAD 2-5m; MOST TREES ARE GENERALLY IN POOR FORM AND POOR HEALTH CONDITION. AMENITY VALUE OF THE MAN-MADE SLOPE IS CONSIDERED MEDIUM. IT IS HIGHLY CAPABLE OF ACCOMMODATING CHANGE AND AMENITY VALUE IS CONSIDERED TO BE LOW.

~ 200 NOS. OF TREES TO BE AFFECTED BY SITE FORMATION WORKS

APPROXIMATELY 80 NOS OF TREES REFER TO FOOTBALL PITCH AND PLAYGROUND INTERSECT AT HIP WO STREET AND SAU NGA ROAD. MAJOR TREE SPECIES FOUND INCLUDE ARCHONTOPHOENIX ALEXANDRAE, PLUMERIA RUBRA AND PHOENIX ROEBELENI; IN AVERAGE HEIGHT OF 3-8m; CROWN SPREAD 5-10m. MOST TREES ARE GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION. THE LANDSCAPE QUALITY AND VALUE OF THIS AREA IS CONSIDERED AS LOW WITH HIGH ACCOMMODATE CHANGE.

~ 200 NOS. OF TREES TO BE AFFECTED BY SITE FORMATION WORKS

APPROXIMATELY 1,974 NOS. OF TREE FOUND ALONG ANDERSON ROAD; COMMON TREES SPECIES SUCH AS ACACIA AURICULIFORMIS, ACACIA CONFUSA, BOMBAX CEIBA, FICUS BENJAMINA VAR. VARIEGATA, FICUS HISPIDA, FICUS MICROCARPA, FICUS VARIEGATA, JUNIPERUS CHINENSIS 'KAIZUCA', MACHILUS CHEKIANGENSIS, PLATYCLADUS ORIENTALIS, POLYSPORA AXILLARIS. MOST TREES ARE ~ 4-12 METRE HIGH, 110-250mm DBH. MOST TREES ARE GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION. AESTHETIC VALUE IS MODERATE. THE LANDSCAPE QUALITY IS MODERATE OF ACCOMMODATING CHANGE. AMENITY VALUE IS CONSIDERED AS MEDIUM AND THE SENSITIVITY OF THIS LANDSCAPE RESOURCE IS MEDIUM.

APPROXIMATELY 240 NOS OF TREES WITHIN REST GARDEN AT SAU MING ROAD PARK IS A LOCAL OPEN SPACE (~ 3.5HA) WITH LUSH TREES AND SHRUB PLANTING. MOST OF TREES ARE MATURE TREES WITH HEIGHT AROUND 4-8m, SPREAD 2-10m, TRUNK DIAMETER 300-750mm. MAJOR SPECIES FOUND INCLUDE TREES SPECIES SUCH AS BISCHOFIA JAVANICA, SENNA SURATTENSIS, LAGERSTROEMIA SPECIOSA, WASHINGTONIA ROBUSTA, ALLAMANDA CATHARTICA AND SHRUBS SPECIES SUCH AS CATHARANTHUS ROSEUS, LANTANA MONTEVIDENSIS, RHODODENDRON PULCHRUM; IN AVERAGE HEIGHT OF 5-12m; CROWN SPREAD 4-15m. VEGETATION IS GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION WITH HORTICULTURAL MAINTENANCE. THIS LANDSCAPE HAS A MEDIUM AESTHETIC VALUE. IT IS RELATIVELY TOLERANT TO CHANGE AND SO AMENITY VALUE IS CONSIDERED TO BE MEDIUM.

APPROXIMATELY 130 NOS OF TREES COMPRISE OF SEVERAL FRESH AND SALT WATER SERVICE RESERVOIRS WITHIN THE RURAL DEVELOPMENT. TREES COMMONLY FOUND IN THIS LR ARE LARGELY MATURE AND INCLUDE BOTH NATIVE (E.G. CELTIS SINENSIS, CINNAMOMUM CAMPHORA, STERCULIA LANCEOLATA AND MACHILUS SPP.) AND EXOTIC (E.G. ARAUCARIA HETEROPHYLLA, DIMOCARPUS LONGAN, ERIOTRIYIA JAPONICA AND MICHELIA X ALBA) SPECIES. MOST TREES ARE GENERALLY IN FAIR FORM AND FAIR HEALTH CONDITION. HOWEVER GIVEN ITS MAN-MADE NATURE AND MEDIUM ABILITY TO ACCOMMODATE CHANGE. AMENITY VALUE IS CONSIDERED MEDIUM.

~ 40 NOS. OF TREES TO BE AFFECTED BY TUNNEL WORKS

APPROXIMATELY 2,300 NOS OF TREES COVERS RESIDENTIAL DEVELOPMENTS SOUTHWEST OF THE QUARRY. VEGETATION IN THIS LR IS LARGELY LANDSCAPE PLANTING WITH SCATTERED AMENITY SHRUBS (E.G. DURANTA ERECTA, SCHEFFLERA ARBORICOLA AND AGLAJA ODRATA) AND MEDIUM-SIZED TREES (E.G. ALEURITES MOLUCCANA, DELONIX REGIA AND LAGERSTROEMIA SPECIOSA, ARCHONTOPHOENIX ALEXANDRAE, BAUHINIA X BLAKEANA, LIVISTONA CHINENSIS, PLUMERIA RUBRA, WITH HEIGHTS BETWEEN 6m AND 10m AND TRUNK DIAMETERS RANGING FROM 0.20m TO 0.60m) IN SMALL PUBLIC GREEN SPACES, ROADSIDE PLANTING AND PRIVATE GARDENS. NEVERTHELESS, THERE IS ONE OLD AND VALUABLE TREE (OVT) (REF. NO. LCSD HD/KTY/1, AN ALBIZIA JULIBRISSIN WITH DBH 1160mm AND CROWN SPREAD 29000mm) LOCATED AT THE GARDEN NEAR THE SAU MING ROAD, SAU HO HOUSE AND SAU YAT HOUSE) IDENTIFIED OUTSIDE THE 500M LANDSCAPE STUDY BOUNDARY. IT IS CONSIDERED THERE IS NO IMPACT ON THE OVT. MOST TREES ARE GENERALLY IN GOOD FORM AND HEALTH CONDITION WITH HORTICULTURAL MAINTENANCE. OVERALL THIS LR HAS LIMITED LANDSCAPE VALUE AND A HIGH CAPACITY TO ACCOMMODATE CHANGE. ITS LANDSCAPE VALUE IS THEREFORE CONSIDERED TO BE LOW

APPROXIMATELY 4,000 NOS OF TREES OF RURAL DEVELOPMENT AREAS WITHIN THE LANDSCAPE STUDY AREA ARE LOCATED AT THE FOOTHILL OF FEI NGO SHAN ROAD. THE NORTHERN FOOTHILL OF TAN SHAN AND MA YAU TONG. TREES COMMONLY FOUND INCLUDE CELTIS SINENSIS, FICUS ELASTIC, FICUS SUBPISOCARPA, MALLOTUS PANICULATUS, RAVENALA MADAGASCARIENSIS, SAPLUM DISCOLOR AND TERMINALIA CATAPPA, WITH A HEIGHT RANGING FROM 6-15m, INDICATING THE VARIETY OF THE TREES AGE AND MATURITY. MOST TREES ARE GENERALLY IN POOR TO FAIR FORM AND FAIR HEALTH CONDITION. THIS LR IS MODERATE TOLERANT TO CHANGE. THE OVERALL LANDSCAPE VALUE IS CONSIDERED AS MEDIUM.