# EXECUTIVE SUMMARY

# EXECUTIVE SUMMARY

**Project Title:**

Environmental Impact Assessment for the Proposed Off-Site Scheduled Waste Storage Facility on Lot 3624, Permy Technology Park, 98100 Miri, Sarawak

| PROJECT PROPONENT | ENVIRONMENTAL CONSULTANT |
|---|---|
| TIMURAN KEMBANGAN SDN BHD | GLOBAL GREEN CONSULTANT SDN BHD |

## PROPOSED PROJECT SITE


**PROJECT LOCATION:**
**MIRI, SARAWAK**

## PROJECT SITE COORDINATES

| Points | Coordinates | |
|---|---|---|
| | Latitude | Longitude |
| NE | 4° 29' 8.85" N | 114° 2' 9.27" E |
| NW | 4° 29' 8.85" N | 114° 2' 8.78" E |
| SE | 4° 29' 7.66" N | 114° 2' 9.27" E |
| SW | 4° 29' 7.66" N | 114° 2' 8.78" E |

## SCHEDULED WASTES TO BE STORED

| SW102 | SW110 | SW311 | SW412 | SW422 |
|---|---|---|---|---|
| Empty lead acid batteries | E-wastes | Waste oil or oily sludge | Sludges containing cyanide | A mixture of scheduled and non-scheduled wastes - Transformers |

## LEGAL ASPECTS


**Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 2015;**
First Schedule; Activity 14; Waste Treatment and Disposal of (a) Scheduled Waste (iii) Construction of Storage Facility (Off-Site)

## STATEMENT OF NEED

Encouraging proper hazardous waste management

Adopting green technologies for safe and efficient operations

Support the demand for the increasing need scheduled waste storage

## PROJECT DESCRIPTION

### PRE-CONSTRUCTION

Submission of necessary documents to the relevant authorities by Project Proponent following the approval of the EIA report; baseline sampling and a social survey carried out by the appointed environmental consultant

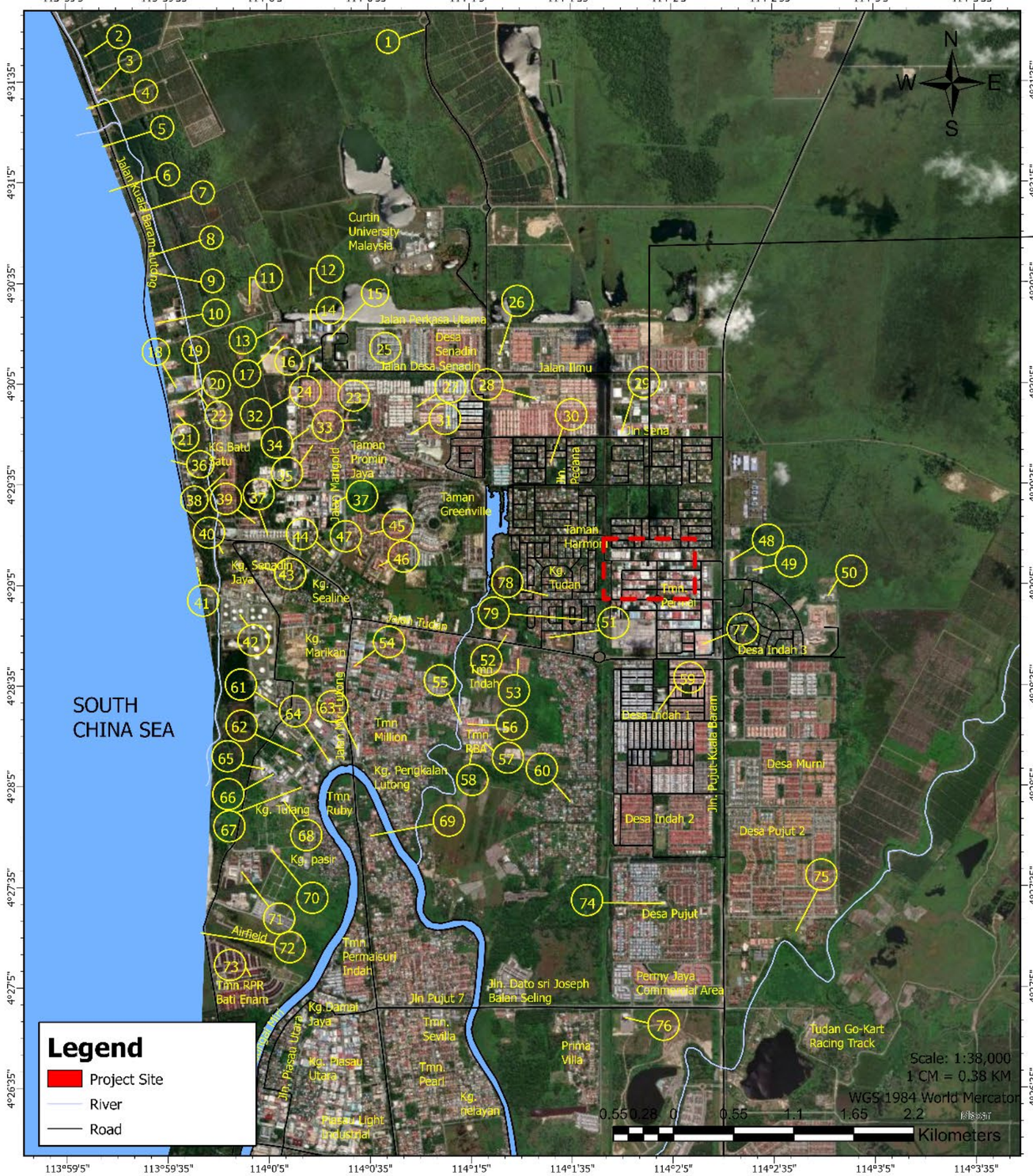
### CONSTRUCTION

Utilize the existing semi-detached industrial workshop on the ground floor for storing scheduled wastes, minor renovation and modification works may be undertaken.

### OPERATION

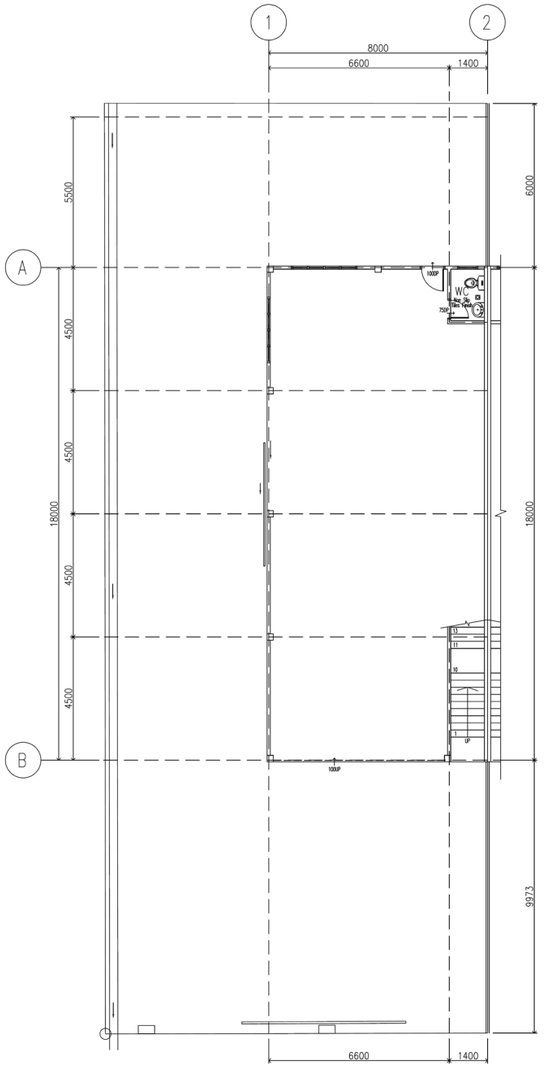
Collecting, manually sorting, packing, labelling, and storing scheduled wastes; Transporting scheduled wastes to the storage facility; and transferring scheduled wastes from the storage facility to designated recovery plants via Miri Port for shipment to Peninsular Malaysia and via Pan Borneo Highway to Trienekens (Sarawak) Sdn Bhd.

## LOCALITY PLAN: LOT 3624, PERMY TECHNOLOGY PARK

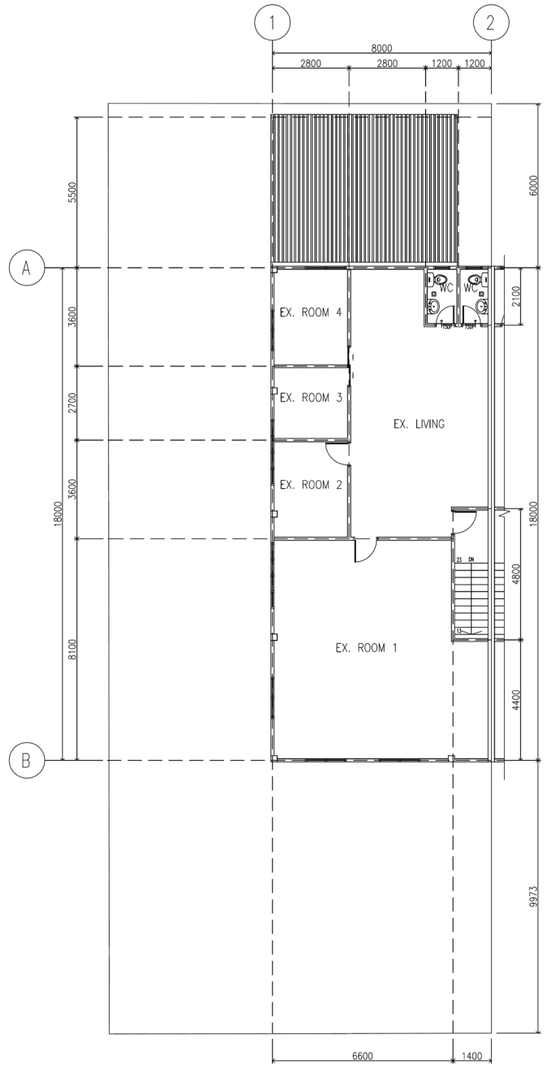



| NOS. | DESCRIPTIONS | NOS. | DESCRIPTIONS |
|---|---|---|---|
| 1. | RELA Pos No.3 | 40. | Tanah Perkuburan Islam Batu 1, Kuala Baram |
| 2. | Tudan Cold storage | 41. | Sribima Maritime Training Centre |
| 3. | Toh Brother Pottery (Miri) Co. & Toh Brother Trading Co. | 42. | Miri Crude Oil Terminal (MCOT) |
| 4. | Anggun Tyres Management Services. | 43. | Surau Darul Ikhlas Miri |
| 5. | Chung Jing enterprise Sdn. Bhd. | 44. | Everwin Supermarket |
| 6. | Remayo Sdn. Bhd. | 45. | Royal Golden Villa |
| 7. | Yong And Son Fiberglass Builder | 46. | SMK Pujut |
| 8. | Petralink Timber Sdn. Bhd. | 47. | Sk Senadin |
| 9. | Serba Dinamik Sdn. Bhd. | 48. | Tudan Bas Terminal |
| 10. | MDS Centre Kuala Baram | 49. | Tudan Chua National (C) |
| 11. | Lutong BTS | 50. | Kompleks Kebajikan-Hamidah Yakup |
| 12. | Dumpsite | 51. | Tudan National Primary School |
| 13. | Institut Memandu Miri-Subis Sdn. Bhd. | 52. | Klinik Kesihatan Tudan |
| 14. | Hua Chan Sauce Factory (Miri) Sdn. Bhd. | 53. | Tadika Cahaya Bintang |
| 15. | Satva Sdn. Bhd. | 54. | Sarawak Electrical Company |
| 16. | Modern Pyramid Sdn. Bhd. | 55. | Sing Ho Lee Service & Trading |
| 17. | Wey Sing Furniture Sdn. Bhd. | 56. | Hiap Hing Construction Sdn. Bhd. |
| 18. | Best Quality Batching Sdn. Bhd. | 57. | KV Distributors (Miri) Sdn. Bhd. |
| 19. | Keng Soon Foam (Miri) Sdn. Bhd. | 58. | MSTS Firefighting Training Ground |
| 20. | Standard Quartz Concrete Plant | 59. | Masjid Ar-Rayyan Permyjaya Miri |
| 21. | Soonlinmas Sdn. Bhd. | 60. | Surau Al Ummah |
| 22. | Stoink Betta Farm | 61. | Sarawak Shell Bhd. |
| 23. | EKDA Industries (M) Sdn. Bhd. | 62. | Kelab Rekreasi Petroliam |
| 24. | Multi Sihast Industries | 63. | Paragon Lutong Hotel |
| 25. | Curtin Water 2 Accommodation | 64. | An-Naim Lutong Mosque Miri |
| 26. | Knewton Global School | 65. | Lutong National Primary School |
| 27. | Surau Abu Bakar As-Siddiq, Desa Senadin | 66. | Lutong Chung Hua National (C) |
| 28. | IG Training Centre Sdn. Bhd. | 67. | Pejabat Pos Lutong |
| 29. | Kingsport Centre Miri | 68. | Petronas Carigali Sdn. Bhd. (Sarawak Oil) |
| 30. | Tudan Methodist Church | 69. | Kilang Wang Xiang 1887 |
| 31. | BSTS | 70. | Persatuan Ibu Bapa Kanak-Kanak Istimewa |
| 32. | Chung Huat Industries Sdn. Bhd. | 71. | Lutong National Secondary School |
| 33. | Kolam MGP Miri | 72. | Lutong Beach |
| 34. | Golden Villa | 73. | Taman Bayshore |
| 35. | Tadika Junior Bestari Senadin | 74. | Dewan Dato Permaisuri |
| 36. | Pasar Nelayan Batu 1 | 75. | Merbau National Secondary School |
| 37. | Senadin Gateway | 76. | KPJ Miri Specialist Hospital |
| 38. | Taman Riverview | 77. | Emart Tudan |
| 39. | SBN Industries Sdn. Bhd. | 78. | St. Anthony Chapel |
| | | 79. | Surau Darul Taqwa Miri |

# OVERALL SITE PLAN




GROUND FLOOR PLAN
SCALE : 1 : 100




FIRST FLOOR PLAN
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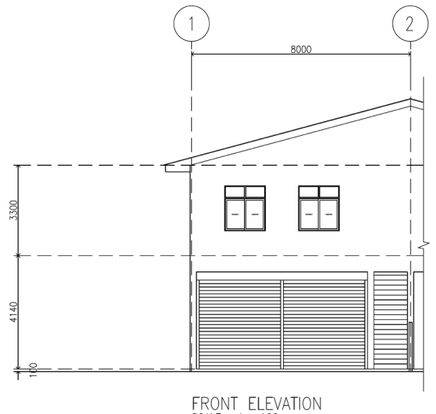
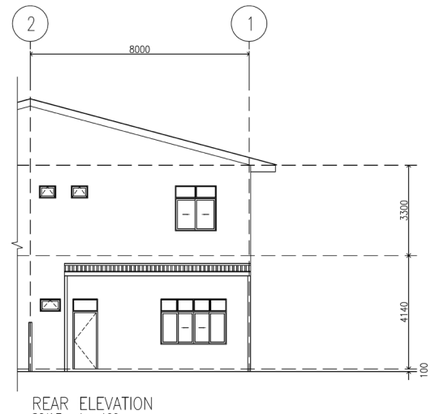



FRONT ELEVATION
SCALE : 1 : 100



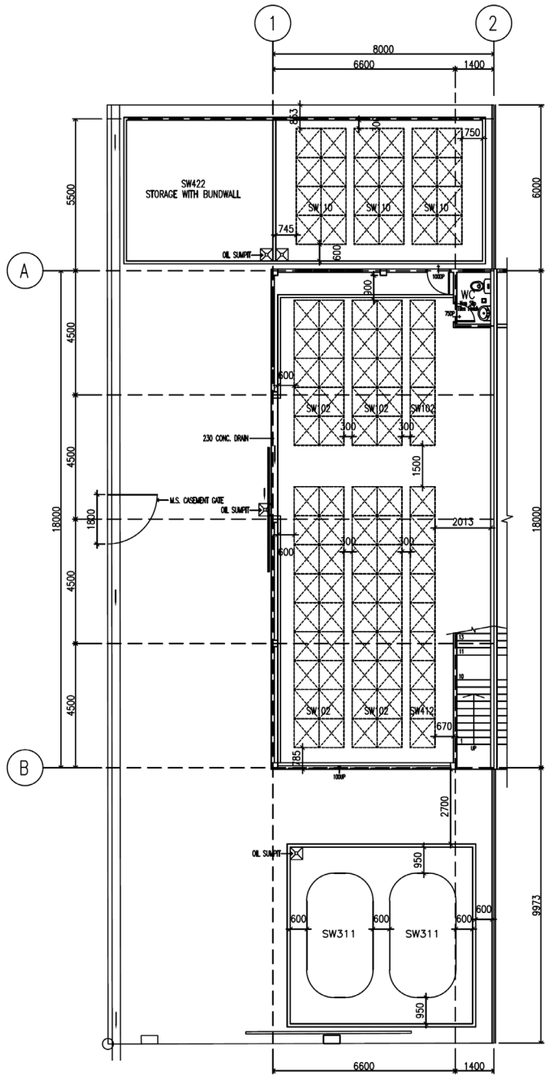

REAR ELEVATION
SCALE : 1 : 100



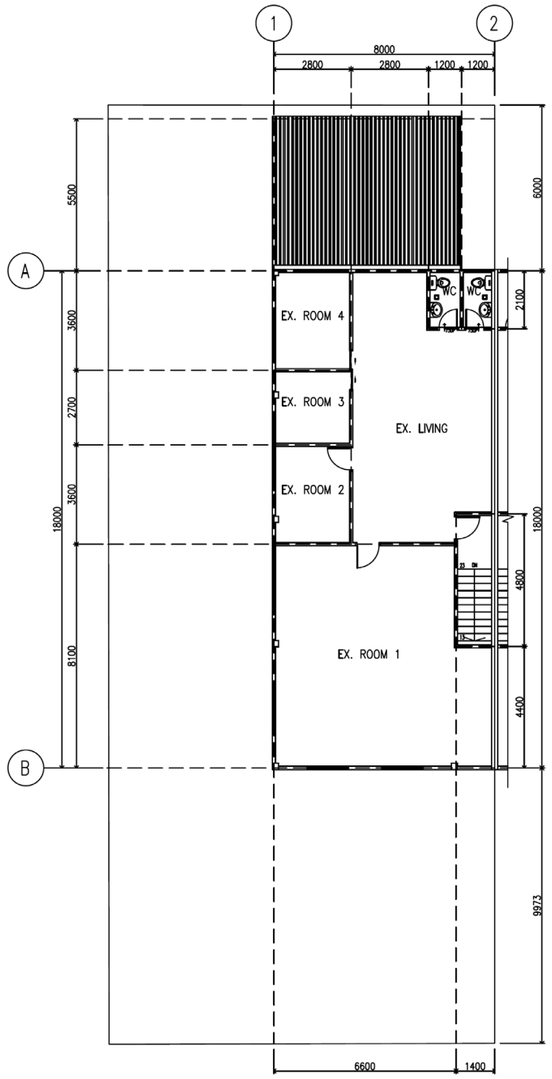

LEFT SIDE ELEVATION
SCALE : 1 : 100

| | | |
|---|---|---|
| PROJECT TITLE :<br>CADANGAN MEMBINA FASILITI STOR BUANGAN TERJADUAL DAN LESEN MENGANGKUT BUANGAN TERJADUAL DI LOT 3624, PERMY TECHNOLOGY PARK, 98100 MIRI, SARAWAK<br>OLEH PIHAK TIMURAN KEMBANGAN SDN. BHD. | CLIENT :<br><br>TIMURAN KEMBANGAN SDN. BHD.<br>Lot 3623, Lorong 5,<br>Jalan Tatau, Bandar Baru Permyjaya,<br>Permy Technology Park Mk5,<br>98000 Miri, Sarawak. | ARCHITECT :<br><br>AR. GRACE LAU PING PING<br>Lot 7649, No. 31, Lorong Selodah 1G,<br>93500 Kuching, Sarawak, Malaysia.<br>H/P: 016-8377999<br>E-Mail: ping9997@gmail.com |

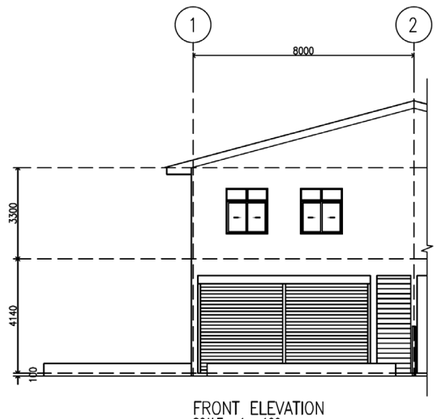
# PROPOSED OFF-SITE SCHEDULED WASTE STORAGE LAYOUT PLAN



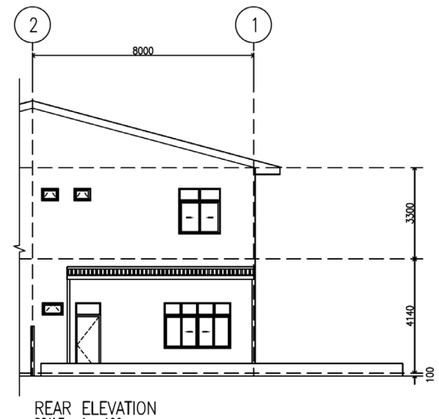

GROUND FLOOR PLAN
SCALE : 1 : 100



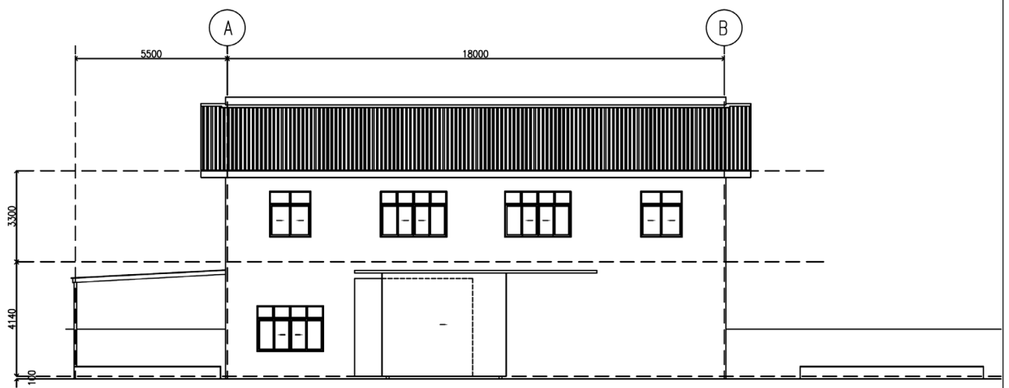

FIRST FLOOR PLAN
SCALE : 1 : 100




FRONT ELEVATION
SCALE : 1 : 100




REAR ELEVATION
SCALE : 1 : 100




LEFT SIDE ELEVATION
SCALE : 1 : 100

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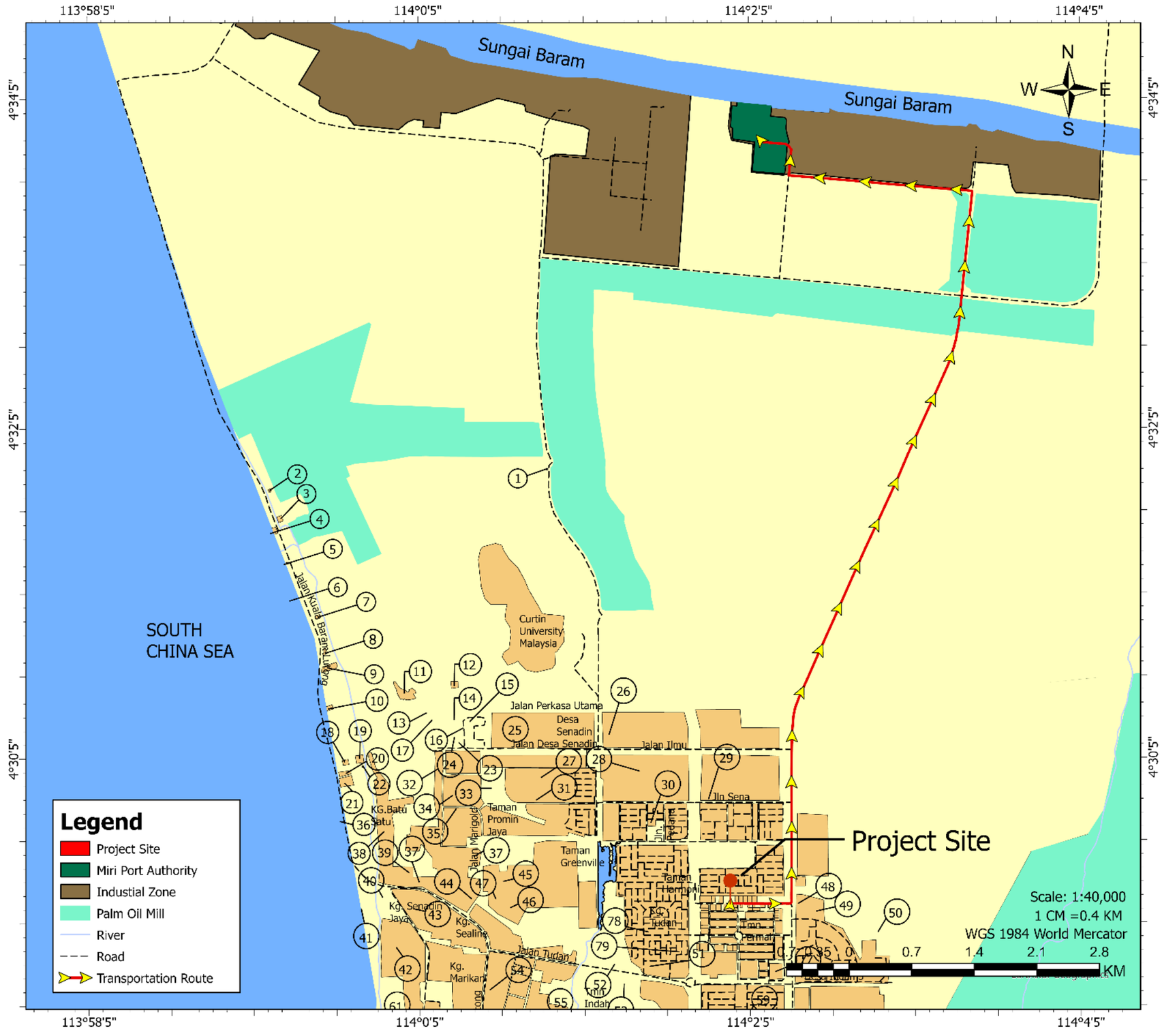
## TRANSPORTATION ROUTE FROM PROPOSED PROJECT TO MIRI PORT

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| 9. | Serba Dinamik Sdn. Bhd. |
| 10. | MDS Centre Kuala Baram |
| 11. | Lutong BTS |
| 12. | Dumpsite |
| 13. | Institut Memandu Miri-Subis Sdn. Bhd. |
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| 42. | Miri Crude Oil Terminal (MCOT) |
| 43. | Surau Darul Ikhlas Miri |
| 44. | Everwin Supermarket |
| 45. | Royal Golden Villa |
| 46. | SMK Pujut |
| 47. | Sk Senadin |
| 48. | Tudan Bas Terminal |
| 49. | Tudan Chua National (C) |
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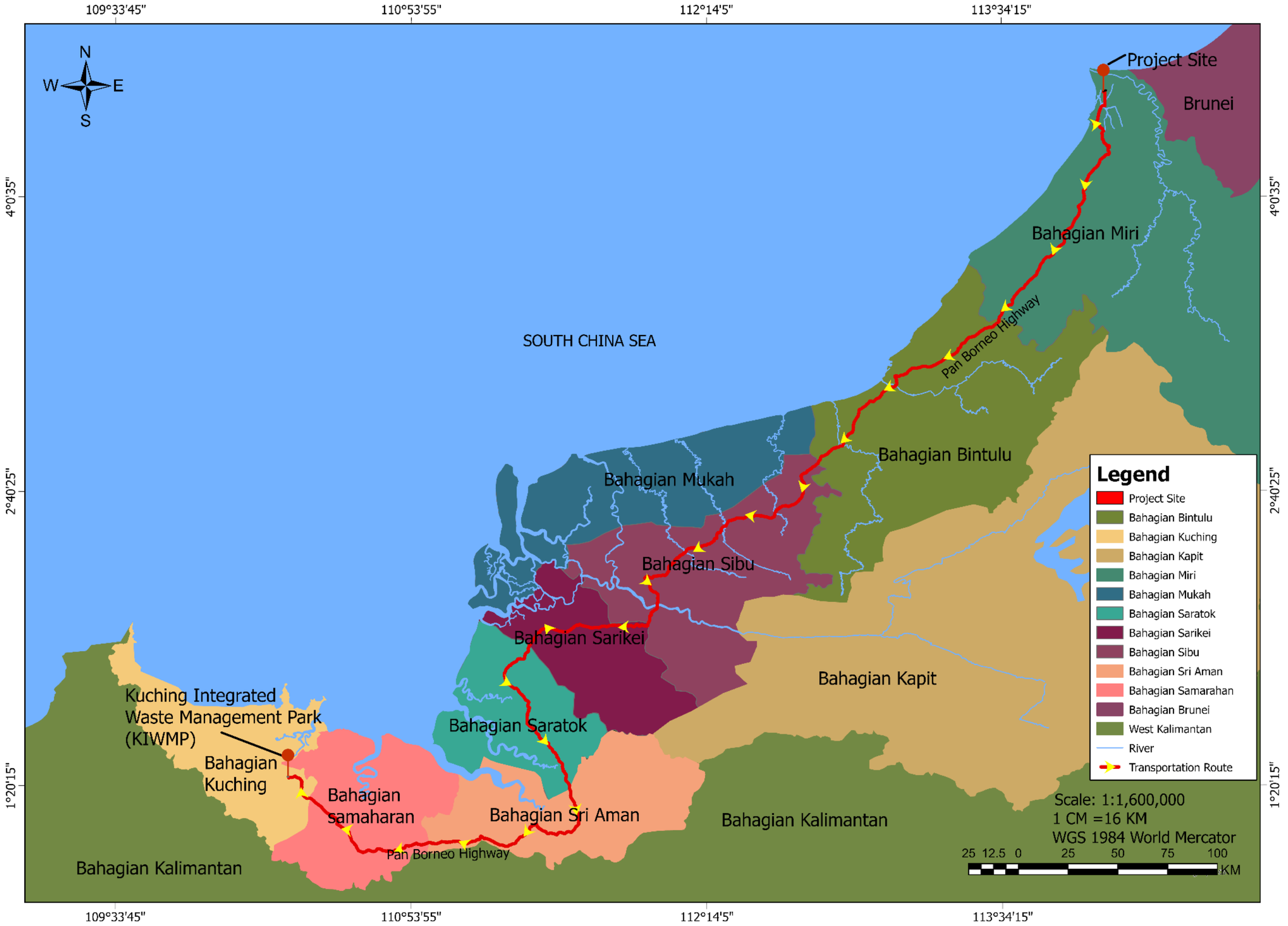
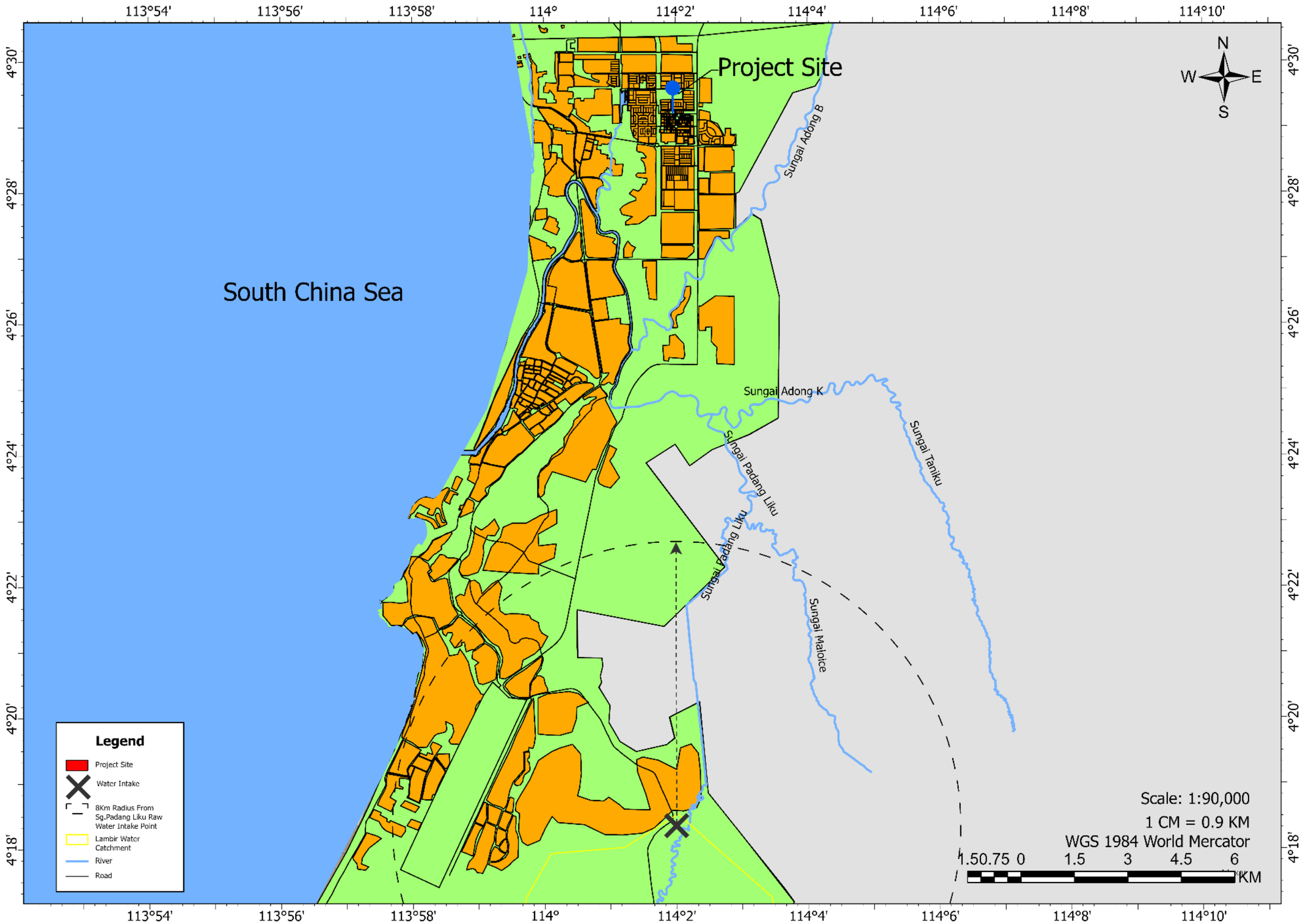
| 51. | Tudan National Primary School |
| 52. | Klinik Kesihatan Tudan |
| 53. | Tadika Cahaya Bintang |
| 54. | Sarawak Electrical Company |
| 55. | Sing Ho Lee Service & Trading |
| 61. | Sarawak Shell Bhd. |
| 77. | Emart Tudan |
| 78. | St. Anthony Chapel |
| 79. | Surau Darul Taqwa Miri |

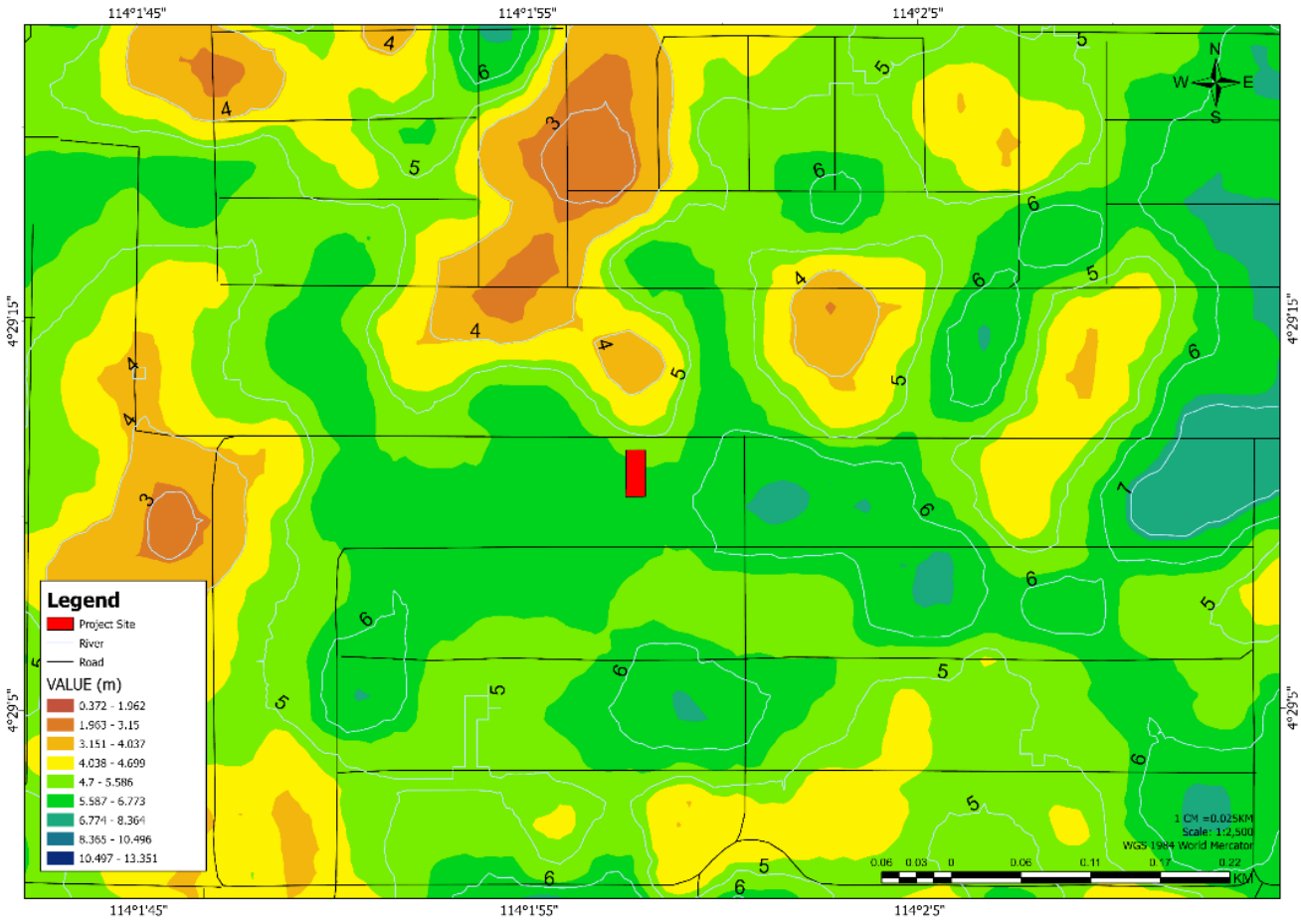
## TRANSPORTATION ROUTE FROM PROPOSED PROJECT TO TRIENEKENS (SARAWAK) SDN BHD



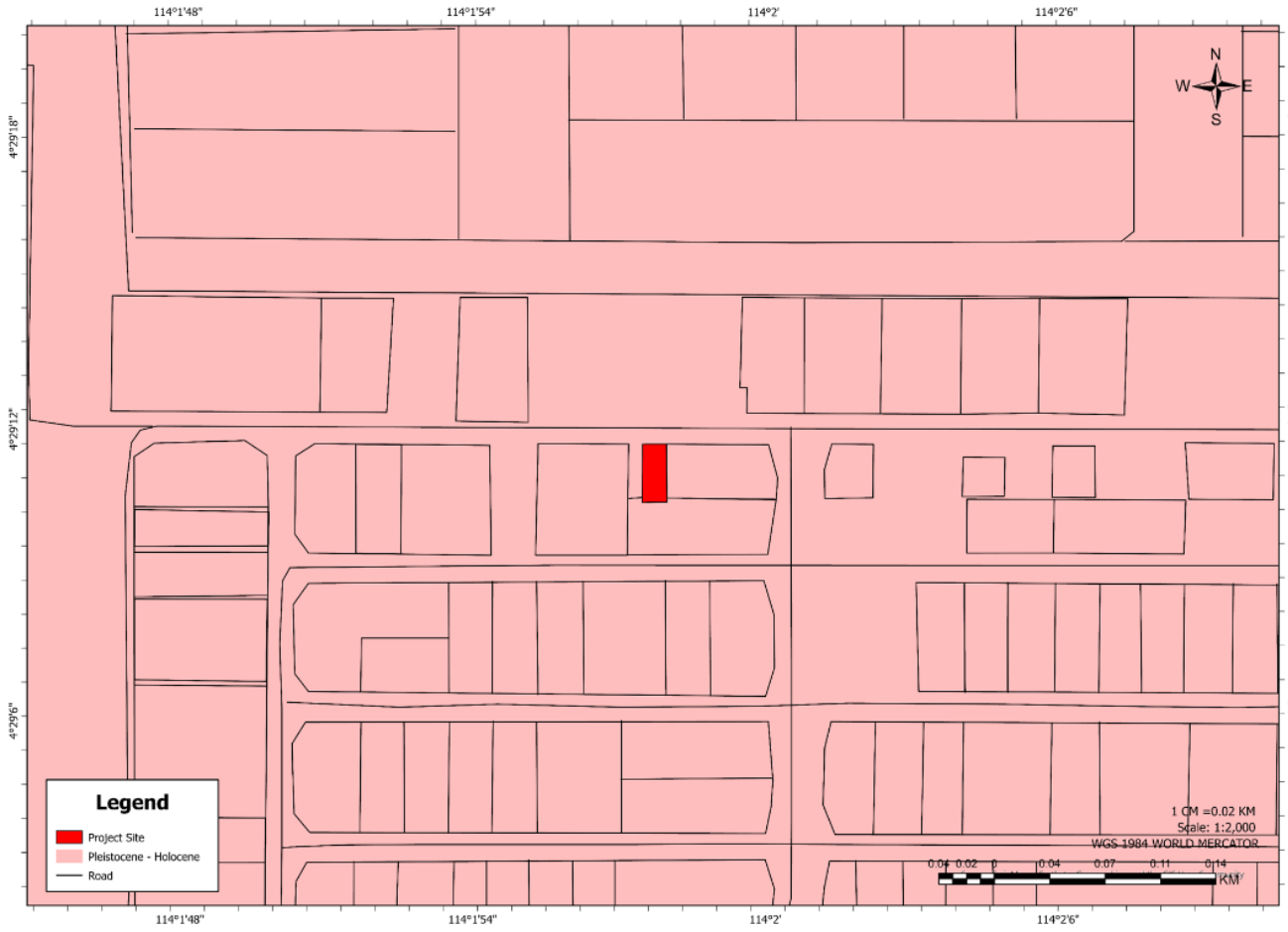
## RAW WATER INTAKE POINT



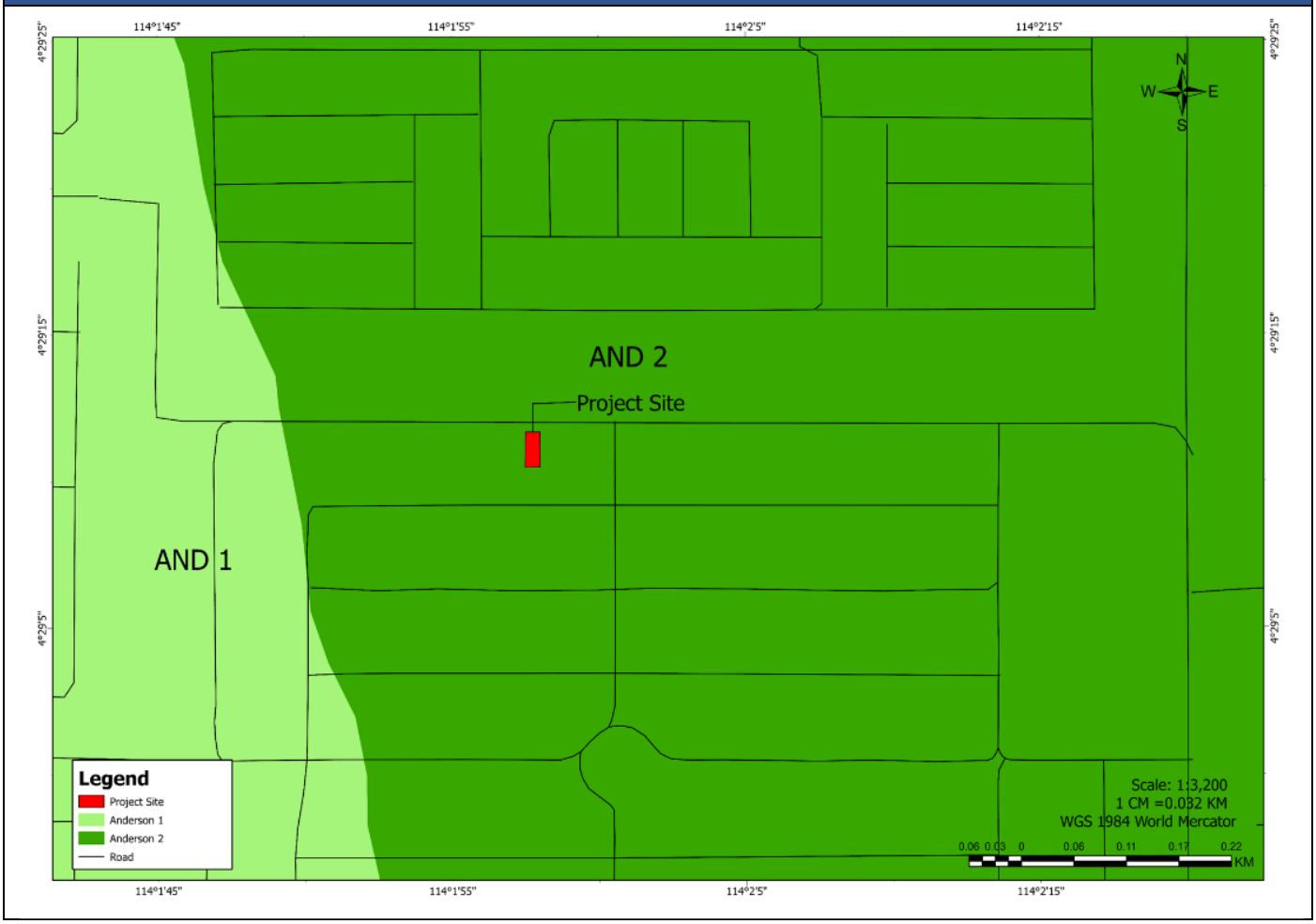
## TOPOGRAPHY




## GEOLOGICAL



## SOIL


114°1'45"
114°1'55"
114°2'5"
114°2'15"
4°29'25"
4°29'15"
4°29'5"
N
W
E
S
AND 2
Project Site
AND 1
Legend
Project Site
Anderson 1
Anderson 2
Road
Scale: 1:3,200
1 CM =0.032 KM
WGS 1984 World Mercator
0.06 0.03 0 0.06 0.11 0.17 0.22
KM

## BASELINE MONITORING

### SURFACE WATER QUALITY

Three (3) sampling stations were selected, whereby most parameters tested complied with the Class IIB NWQS Limit, except for DO, $BOD_5$, COD, TCC, Manganese and Iron


### AMBIENT AIR QUALITY

All sampling stations complied with the New Malaysian Ambient Air Quality Standards (MAAQS), 2020

### NOISE LEVEL

All sampling stations were complied with 2nd Schedule for of the Recomended Permissible Sound Level ($L_{Aeq}$) by Receiving Land Use for Existing Built Up Areas, for Industrial Zones and Suburban and Urban Residential, Mixed Development

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## BASELINE MONITORING MAP





Legend

- Project Site
- BASELINE WATER SAMPLING LOCATION - (W1-W3)
- BASELINE AIR AND NOISE SAMPLING LOCATION - (A1/N1-A3/N3)
- Road

1 CM = 0.044 KM

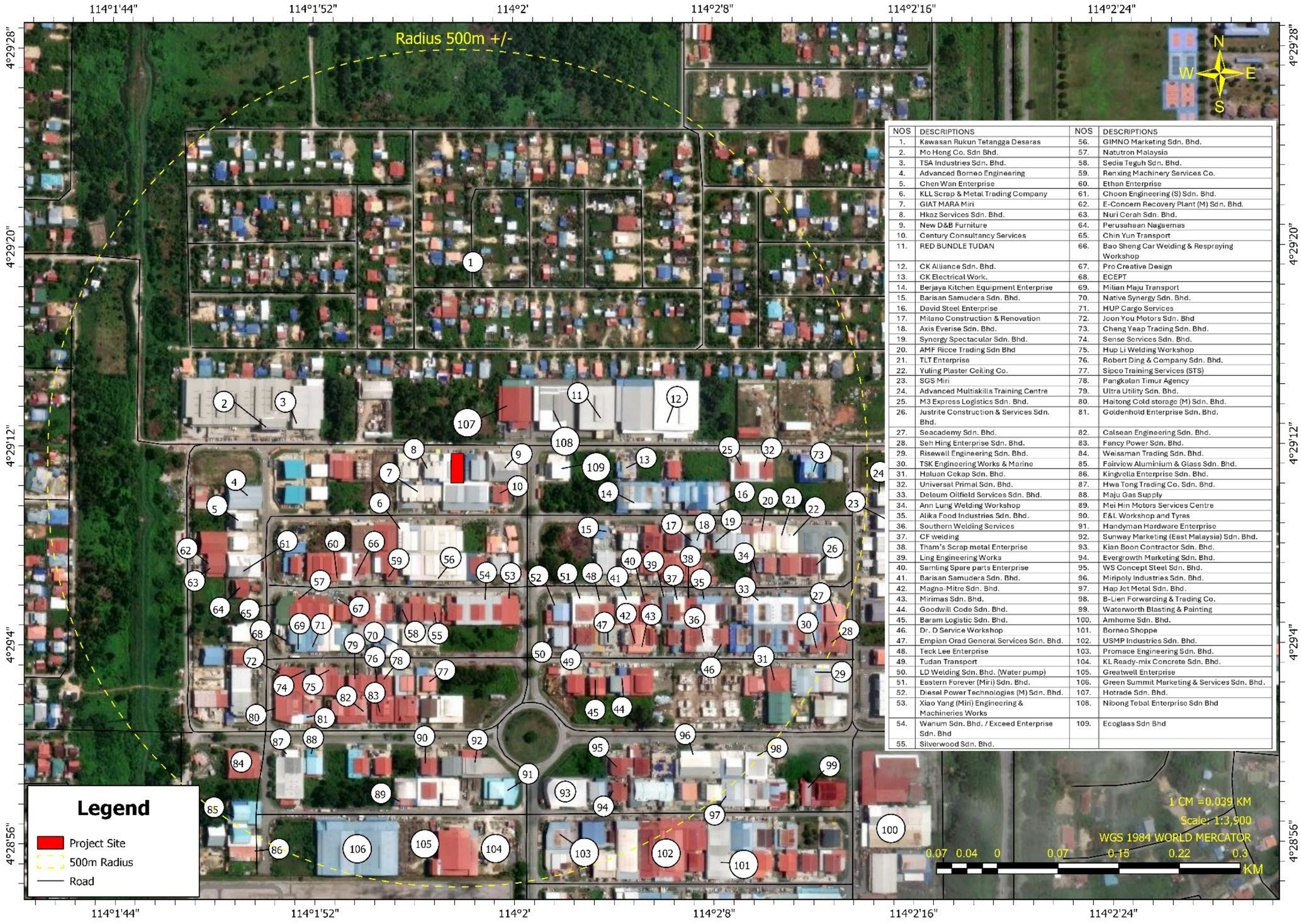
Scale: 1:4,400

WGS 1984 WORLD MERCATOR

0.09 0.04 0 0.09 0.17 0.26 0.34 KM

| NOS | DESCRIPTIONS | NOS | DESCRIPTIONS |
|---|---|---|---|
| 1. | Kawasan Rukun Tetangga Desaras | 56. | GIMNO Marketing Sdn. Bhd. |
| 2. | Mo Heng Co. Sdn Bhd. | 57. | Natutron Malaysia |
| 3. | TSA Industries Sdn. Bhd. | 58. | Sedia Teguh Sdn. Bhd. |
| 4. | Advanced Borneo Engineering | 59. | Renxing Machinery Services Co. |
| 5. | Chen Wan Enterprise | 60. | Ethan Enterprise |
| 6. | KLL Scrap & Metal Trading Company | 61. | Choon Engineering (S) Sdn. Bhd. |
| 7. | GIAT MARA Miri | 62. | E-Concern Recovery Plant (M) Sdn. Bhd. |
| 8. | Hkaz Services Sdn. Bhd. | 63. | Nuri Cerah Sdn. Bhd. |
| 9. | New D&B Furniture | 64. | Perusahaan Nagaemas |
| 10. | Century Consultancy Services | 65. | Chin Yun Transport |
| 11. | RED BUNDLE TUDAN | 66. | Bao Sheng Car Welding & Respraying Workshop |
| 12. | CK Alliance Sdn. Bhd. | 67. | Pro Creative Design |
| 13. | CK Electrical Work. | 68. | ECEPT |
| 14. | Berjaya Kitchen Equipment Enterprise | 69. | Milian Maju Transport |
| 15. | Barisan Samudera Sdn. Bhd. | 70. | Native Synergy Sdn. Bhd. |
| 16. | David Steel Enterprise | 71. | HUP Cargo Services |
| 17. | Milano Construction & Renovation | 72. | Jcon You Motors Sdn. Bhd |
| 18. | Axis Everise Sdn. Bhd. | 73. | Cheng Yeap Trading Sdn. Bhd. |
| 19. | Synergy Spectacular Sdn. Bhd. | 74. | Sense Services Sdn. Bhd. |
| 20. | AMF Ricce Trading Sdn Bhd | 75. | Hup Li Welding Workshop |
| 21. | TLT Enterprise | 76. | Robert Ding & Company Sdn. Bhd. |
| 22. | Yuling Plaster Ceiling Co. | 77. | Sipco Training Services (STS) |
| 23. | SGS Miri | 78. | Pangkalan Timur Agency |
| 24. | Advanced Multiskills Training Centre | 79. | Ultra Utility Sdn. Bhd. |
| 25. | M3 Express Logistics Sdn. Bhd. | 80. | Haitong Cold storage (M) Sdn. Bhd. |
| 26. | Justrite Construction & Services Sdn. Bhd. | 81. | Goldenhold Enterprise Sdn. Bhd. |
| 27. | Seacademy Sdn. Bhd. | 82. | Calsean Engineering Sdn. Bhd. |
| 28. | Seh Hing Enterprise Sdn. Bhd. | 83. | Fancy Power Sdn. Bhd. |
| 29. | Risewell Engineering Sdn. Bhd. | 84. | Weissman Trading Sdn. Bhd. |
| 30. | TSK Engineering Works & Marine | 85. | Fairview Aluminium & Glass Sdn. Bhd. |
| 31. | Haluan Cekap Sdn. Bhd. | 86. | Kingvella Enterprise Sdn. Bhd. |
| 32. | Universal Primal Sdn. Bhd. | 87. | Hwa Tong Trading Co. Sdn. Bhd. |
| 33. | Deleum Oilfield Services Sdn. Bhd. | 88. | Maju Gas Supply |
| 34. | Ann Lung Welding Workshop | 89. | Mei Hin Motors Services Centre |
| 35. | Alika Food Industries Sdn. Bhd. | 90. | E&L Workshop and Tyres |
| 36. | Southern Welding Services | 91. | Handyman Hardware Enterprise |
| 37. | CF welding | 92. | Sunway Marketing (East Malaysia) Sdn. Bhd. |
| 38. | Tham's Scrap metal Enterprise | 93. | Kian Boon Contractor Sdn. Bhd. |
| 39. | Ling Engineering Works | 94. | Evergrowth Marketing Sdn. Bhd. |
| 40. | Samling Spare parts Enterprise | 95. | WS Concept Steel Sdn. Bhd. |
| 41. | Barisan Samudera Sdn. Bhd. | 96. | Miripoly Industries Sdn. Bhd. |
| 42. | Magna-Mitre Sdn. Bhd. | 97. | Hap Jet Metal Sdn. Bhd. |
| 43. | Mirimas Sdn. Bhd. | 98. | B-Lien Forwarding & Trading Co. |
| 44. | Goodwill Code Sdn. Bhd. | 99. | Waterworth Blasting & Painting |
| 45. | Baram Logistic Sdn. Bhd. | 100. | Amhome Sdn. Bhd. |
| 46. | Dr. D Service Workshop | 101. | Borneo Shoppe |
| 47. | Empian Orad General Services Sdn. Bhd. | 102. | USMP Industries Sdn. Bhd. |
| 48. | Teck Lee Enterprise | 103. | Promace Engineering Sdn. Bhd. |
| 49. | Tudan Transport | 104. | KL Ready-mix Concrete Sdn. Bhd. |
| 50. | LD Welding Sdn. Bhd. (Water pump) | 105. | Greatwell Enterprise |
| 51. | Eastern Forever (Miri) Sdn. Bhd. | 106. | Green Summit Marketing & Services Sdn. Bhd. |
| 52. | Diesel Power Technologies (M) Sdn. Bhd. | 107. | Hotrade Sdn. Bhd. |
| 53. | Xiao Yang (Miri) Engineering & Machineries Works | 108. | Nibong Tebal Enterprise Sdn Bhd |
| 54. | Wanum Sdn. Bhd. / Exceed Enterprise Sdn. Bhd | 109. | Ecoglass Sdn Bhd |
| 55. | Silverwood Sdn. Bhd. | | |

## LAND USE WITHIN 0.5 KM RADIUS FROM THE PROJECT SITE




| NOS | DESCRIPTIONS | NOS | DESCRIPTIONS |
|---|---|---|---|
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| 17. | Milano Construction & Renovation | 72. | Joon You Motors Sdn. Bhd |
| 18. | Axis Everise Sdn. Bhd. | 73. | Cheng Yeap Trading Sdn. Bhd. |
| 19. | Synergy Spectacular Sdn. Bhd. | 74. | Sense Services Sdn. Bhd. |
| 20. | AMF Ricce Trading Sdn Bhd | 75. | Hup Li Welding Workshop |
| 21. | TLT Enterprise | 76. | Robert Ding & Company Sdn. Bhd. |
| 22. | Yuling Plaster Ceiling Co. | 77. | Sipco Training Services (STS) |
| 23. | SGS Miri | 78. | Pangkalan Timur Agency |
| 24. | Advanced Multiskills Training Centre | 79. | Ultra Utility Sdn. Bhd. |
| 25. | M3 Express Logistics Sdn. Bhd. | 80. | Haitong Cold storage (M) Sdn. Bhd. |
| 26. | Justrite Construction & Services Sdn. Bhd. | 81. | Goldenhold Enterprise Sdn. Bhd. |
| 27. | Seacademy Sdn. Bhd. | 82. | Calsean Engineering Sdn. Bhd. |
| 28. | Seh Hing Enterprise Sdn. Bhd. | 83. | Fancy Power Sdn. Bhd. |
| 29. | Riswell Engineering Sdn. Bhd. | 84. | Weissman Trading Sdn. Bhd. |
| 30. | TSK Engineering Works & Marine | 85. | Fairview Aluminium & Glass Sdn. Bhd. |
| 31. | Haluan Cekap Sdn. Bhd. | 86. | Kingvella Enterprise Sdn. Bhd. |
| 32. | Universal Primal Sdn. Bhd. | 87. | Hwa Tong Trading Co. Sdn. Bhd. |
| 33. | Deleum Oilfield Services Sdn. Bhd. | 88. | Maju Gas Supply |
| 34. | Ann Lung Welding Workshop | 89. | Mei Hin Motors Services Centre |
| 35. | Alika Food Industries Sdn. Bhd. | 90. | E&L Workshop and Tyres |
| 36. | Southern Welding Services | 91. | Handyman Hardware Enterprise |
| 37. | CF welding | 92. | Sunway Marketing (East Malaysia) Sdn. Bhd. |
| 38. | Tham's Scrap metal Enterprise | 93. | Kian Boon Contractor Sdn. Bhd. |
| 39. | Ling Engineering Works | 94. | Evergrowth Marketing Sdn. Bhd. |
| 40. | Samling Spare parts Enterprise | 95. | WS Concept Steel Sdn. Bhd. |
| 41. | Barisan Samudera Sdn. Bhd. | 96. | Miripoly Industries Sdn. Bhd. |
| 42. | Magna-Mitre Sdn. Bhd. | 97. | Hap Jet Metal Sdn. Bhd. |
| 43. | Mirimas Sdn. Bhd. | 98. | B-Lien Forwarding & Trading Co. |
| 44. | Goodwill Code Sdn. Bhd. | 99. | Waterworth Blasting & Painting |
| 45. | Baram Logistic Sdn. Bhd. | 100. | Amhome Sdn. Bhd. |
| 46. | Dr. D Service Workshop | 101. | Borneo Shoppe |
| 47. | Empian Orad General Services Sdn. Bhd. | 102. | USMP Industries Sdn. Bhd. |
| 48. | Teck Lee Enterprise | 103. | Promace Engineering Sdn. Bhd. |
| 49. | Tudan Transport | 104. | KL Ready-mix Concrete Sdn. Bhd. |
| 50. | LD Welding Sdn. Bhd. (Water pump) | 105. | Greatwell Enterprise |
| 51. | Eastern Forever (Miri) Sdn. Bhd. | 106. | Green Summit Marketing & Services Sdn. Bhd. |
| 52. | Diesel Power Technologies (M) Sdn. Bhd. | 107. | Hotrade Sdn. Bhd. |
| 53. | Xiao Yang (Miri) Engineering & Machineries Works | 108. | Nibong Tebal Enterprise Sdn Bhd |
| 54. | Wanum Sdn. Bhd. / Exceed Enterprise Sdn. Bhd | 109. | Ecoglass Sdn Bhd |
| 55. | Silverwood Sdn. Bhd. | | |

## LAND USE WITHIN 0.5 KM TO 5.0 KM RADIUS FROM THE PROJECT SITE


| NOS. | DESCRIPTIONS | NOS. | DESCRIPTIONS |
|---|---|---|---|
| 1. | RELA Pos No.3 | 40. | Tanah Perkuburan Islam Batu 1, Kuala Baram |
| 2. | Tudan Cold storage | 41. | Sribima Maritime Training Centre |
| 3. | Toh Brother Pottery (Miri) Co. & Toh Brother Trading Co. | 42. | Miri Crude Oil Terminal (MCOT) |
| 4. | Anggun Tyres Management Services. | 43. | Surau Darul Ikhlas Miri |
| 5. | Chung Jing enterprise Sdn. Bhd. | 44. | Everwin Supermarket |
| 6. | Remayo Sdn. Bhd. | 45. | Royal Golden Villa |
| 7. | Yong And Son Fiberglass Builder | 46. | SMK Pujut |
| 8. | Petralink Timber Sdn. Bhd. | 47. | Sk Senadin |
| 9. | Serba Dinamik Sdn. Bhd. | 48. | Tudan Bas Terminal |
| 10. | MDS Centre Kuala Baram | 49. | Tudan Chua National (C) |
| 11. | Lutong BTS | 50. | Kompleks Kebajikan-Hamidah Yakup |
| 12. | Dumpsite | 51. | Tudan National Primary School |
| 13. | Institut Memandu Miri-Subis Sdn. Bhd. | 52. | Klinik Kesihatan Tudan |
| 14. | Hua Chan Sauce Factory (Miri) Sdn. Bhd. | 53. | Tadika Cahaya Bintang |
| 15. | Satva Sdn. Bhd. | 54. | Sarawak Electrical Company |
| 16. | Modern Pyramid Sdn. Bhd. | 55. | Sing Ho Lee Service & Trading |
| 17. | Wey Sing Furniture Sdn. Bhd. | 56. | Hiap Hing Construction Sdn. Bhd. |
| 18. | Best Quality Batching Sdn. Bhd. | 57. | KV Distributors (Miri) Sdn. Bhd. |
| 19. | Keng Soon Foam (Miri) Sdn. Bhd. | 58. | MSTS Firefighting Training Ground |
| 20. | Standard Quartz Concrete Plant | 59. | Masjid Ar-Rayyan Permyjaya Miri |
| 21. | Soonlinmas Sdn. Bhd. | 60. | Surau Al Ummah |
| 22. | Stoink Betta Farm | 61. | Sarawak Shell Bhd. |
| 23. | EKDA Industries (M) Sdn. Bhd. | 62. | Kelab Rekreasi Petroliam |
| 24. | Multi Sihast Industries | 63. | Paragon Lutong Hotel |
| 25. | Curtin Water 2 Accommodation | 64. | An-Naim Lutong Mosque Miri |
| 26. | Knewton Global School | 65. | Lutong National Primary School |
| 27. | Surau Abu Bakar As-Siddiq, Desa Senadin | 66. | Lutong Chung Hua National (C) |
| 28. | IG Training Centre Sdn. Bhd. | 67. | Pejabat Pos Lutong |
| 29. | Kingsport Centre Miri | 68. | Petronas Carigali Sdn. Bhd. (Sarawak Oil) |
| 30. | Tudan Methodist Church | 69. | Kilang Wang Xiang 1887 |
| 31. | BSTS | 70. | Persatuan Ibu Bapa Kanak-Kanak Istimewa |
| 32. | Chung Huat Industries Sdn. Bhd. | 71. | Lutong National Secondary School |
| 33. | Kolam MGP Miri | 72. | Lutong Beach |
| 34. | Golden Villa | 73. | Taman Bayshore |
| 35. | Tadika Junior Bestari Senadin | 74. | Dewan Dato Permaisuri |
| 36. | Pasar Nelayan Batu 1 | 75. | Merbau National Secondary School |
| 37. | Senadin Gateway | 76. | KPJ Miri Specialist Hospital |
| 38. | Taman Riverview | 77. | Emart Tudan |
| 39. | SBN Industries Sdn. Bhd. | 78. | St. Anthony Chapel |
| | | 79. | Surau Darul Taqwa Miri |

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## SOCIO-ECONOMIC SURVEY

Twenty (20) respondents from the nearby community of Kawasan Rukun Tetangga Desaras

Diverse ethnic composition, Iban, Kayan, Kenyah, and Malay communities, ages ranged from the late 20s to late 50s

Expressed no concern that the project would cause significant environmental harm

No objection to the proposed project, as they had not experienced any adverse effects from previous projects undertaken by the same project proponent

## HEALTH IMPACT ASSESSMENT

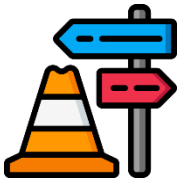
- ✓ Sensitive area located downwind from the Project site
- ✓ No significant concerns from the community regarding potential health impacts
- ✓ Does not fall under the category of first-of-its-kind developments in Malaysia
- ✓ Public display of the project is not required
- ✓ Will not result in an influx of foreign workers
- ✓ Any potential health impacts can be effectively managed through existing healthcare services

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| **LD-P2M2**  | Minor Adverse Impacts | As the project is located in an existing warehouse within an industrial area, and no major construction will be involved. Therefore, LD-P2M2 does not apply to this project. However, Best Management Practices (BMPs) should be adopted during the operational phase to ensure proper environmental protection and waste management. The BMPs include the following:<br>• Ensure proper management of rainwater runoff from the site by maintaining or enhancing existing drainage systems to direct water away from the storage areas. Use oil-water interceptors to manage potential contamination from wastewater discharge and avoid contamination of surface water.<br>• Ensure that any bunding, barriers, or other containment systems around the scheduled waste storage area are regularly inspected and maintained to prevent soil or water contamination. |
| **Air Quality**  | Minor Adverse Impacts | During the operation of the facility, it will primarily serve as a temporary collection centre before the waste is transported to other treatment, recovery, or disposal facilities within Sarawak and to Peninsular Malaysia. The vehicle movements involved in the loading and unloading of waste are expected to affect air quality. To minimize these impacts, the following mitigation measures are proposed:<br>• The Proponent/Contractor must adhere to all applicable requirements under the Environmental Quality (Control of Emission from Diesel Engines) Regulations, 1996.<br>• Transportation vehicles should undergo regular maintenance to ensure efficient fuel combustion and controlled soot emissions. |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| | | • Ensure that all drum lids are securely closed, and the storage facility is well-ventilated at all times.<br>• Workers must wear appropriate PPE to safeguard against air quality impacts.<br>• Impose a speed limit on vehicles using access roads to prevent dust dispersion.<br>• Waste should be stored in sturdy containers to prevent spillage or leakage into the environment.<br>• Develop and implement effective contingency plans and emergency response strategies.<br>• The storage area must meet the following criteria:<br>✓ Be located away from ignition sources.<br>✓ Be constructed using non-combustible materials, such as concrete.<br>✓ Avoid the use of electrical fittings; if electrical fittings are necessary, they must be designed to prevent sparks or fires. |
| **Noise**  | Minor Adverse Impacts | The noise generated during the operational phase is expected to be minimal, as it will primarily result from the ingress and egress of vehicles, such as lorries and forklifts, used for transporting scheduled waste into and out of the storage area. The operation of the project is anticipated to have minimal contribution to noise pollution. The following mitigation measures shall be implemented to reduce noise impact and ensure proper management during operation:<br>• Proper Hearing Protection Devices (HPD), such as earmuffs and earplugs, shall be provided to workers exposed to noisy equipment, including forklifts.<br>• Vehicles and forklifts must adhere to appropriate speed limits while entering and exiting the proposed project site.<br>• Vehicles shall undergo regular maintenance to minimize noise emissions.<br>• Regular noise monitoring shall be conducted to ensure compliance with permissible noise levels. |
| **Water Quality**  | Moderate Adverse Impacts | Water quality impacts from the proposed off-site scheduled waste storage facility are expected to be minimal during both the construction and operational phases, particularly under normal operational conditions. However, the following mitigation measures are recommended to further minimize potential impacts:<br>• Implement an emergency response plan (ERP) that includes procedures for handling chemical or oil spills on-site. The ERP is provided in **Appendix 8.2.1**.<br>• Ensure spill kits are readily available on-site as part of emergency response tools.<br>• Keep storage drums and containers upright with their lids securely closed when not in use to prevent spills.<br>• Use durable, leak-proof storage containers and conduct routine inspections of storage areas to identify potential issues.<br>• Install a sump pit or oil-water interceptor within the storage area and at the final discharge point to contain spillages and facilitate clean-up operations.<br>• Use toilets equipped with pre-installed septic tanks for operational workers, and desludge them as recommended by the local council (at least once every two years).<br>• Periodic water monitoring should be conducted quarterly at the final discharge point and to be compared with NWQS Class IIB<br>These measures will effectively minimize potential water quality impacts during the project's construction and operational phases. |
| **Quantitative Risk Assessment** | Minor Adverse Impacts | Events that likely leads to accidents were found usually associated with human error, either due to ignorance or mishandling. It is important that the on-site workers adhere strictly to all safety rules and regulations to ensure |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
|  | | the storage facility is hazard-free or accident-free. More importantly, the management of off-site scheduled waste storage facility has to ensure that design considers strict adaptation of safety features and standard operation procedures shall comply with design and recommendations.<br><br>The following recommendations of proposed mitigation measure that are to specifically address the threat of the major hazards identified in this study and further minimise their inherent risk.<br><br>• Segregation of wastes based on compatibility to be established in order to avoid fires due to contact between incompatible waste<br>• Storage tank design must be in full compliance with appropriate design standards applicable especially for vessel containing flammable and toxic substances;<br>• All the fuel tanks and related piping (including connections, flanges, etc.) in the facility should be regularly inspected and maintained;<br>• Bunds to be provided at all storage tanks i.e. skid tanks to contain potential spills. Bund size must meet the minimum 110% of the biggest tank in its containment;<br>• Sump and containment pits to be provided to minimise containment of spill and diverted to separate drainage system for treatment prior release;<br>• No drums shall be allowed to be stored outside of its designated storage area or be placed along roadsides or access, even for temporary storage;<br>• Appropriate firefighting protection system must be designed and installed at tank locations and processing area;<br>• All personnel involved in the loading and unloading of raw materials and products should be properly trained and required to abide by strict operational procedures;<br>• Heat generating machines and equipment (heat sources) should be placed away from the storage areas;<br>• "No smoking" should be strictly enforced at all times within the Project Site to avoid any untoward fire or explosion incidence to occur;<br>• All personnel involved should be properly trained and required to abide strict operational procedures; and<br>• Routine emergency drill to be carried out time to time to maintain and improve safety awareness among workers.<br><br>In addition, the following recommendations are proposed in line with good engineering practice to ensure that there are sufficient safety measures in place for any eventuality:<br><br>• A strict speed limit of 10 km/hr for heavy vehicles should be enforced on-site;<br>• Sufficient safety equipment (e.g. fire extinguishers, first aid kits, etc.) should be incorporated and always maintained in good working condition;<br>• All personnel, especially the truck drivers, are to be well-trained and suitably qualified for the tasks required of them;<br>• The Emergency Response Plan (ERP) should be in collaboration with local authorities such as Bomba, Police, etc upon implementation of the Project. The ERP shall also include the neighbouring facilities, for communication and collaboration. Refer to **Appendix 8.2.1** for Project's ERP;<br>• Emergency response kits shall be readily available near the storage and transfer areas to address potential spills or accidents promptly |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| | | • Firefighting and first aid training should be provided to key members of the work force;<br>• Sufficient, well-placed signboards should be placed at strategic locations around the Project Site to warn personnel of hazards at the site; and<br>• Effective fire alarm and firefighting system should be inspected and maintained regularly. |
| **Waste Management**<br>  | Minor Positive Impacts | **<u>Scheduled Waste</u>**<br>• Assign a Certified Environmental Professional in Scheduled Waste Management (CePSWaM) personnel to handle the scheduled waste on-site to fulfil the requirement that scheduled waste must be managed by a Competent Person as per Section 49A of the Environmental Quality Act 1974.<br>• Ensure all scheduled wastes listed under the First Schedule (Regulation 2) of the Environmental Quality (Scheduled Wastes) Regulations 2005 are managed in compliance with the stipulated regulations.<br>• Properly package, store, and label scheduled wastes, including used empty lead-acid batteries in crushed form, e-waste, waste oil or oily sludge, sludges containing cyanide, a mixture of scheduled wastes, and a mixture of scheduled and non-scheduled wastes, following the Guidelines for Packaging, Labelling, and Storage of Scheduled Wastes in Malaysia.<br>• Written approval for the off-site storage facility and the operating license shall be obtained from the Department of Environment (DOE) following the approval of this Environmental Impact Assessment (EIA) Report.<br>• Store scheduled waste away from any watercourse.<br>• Maintain a scheduled waste inventory, consignment notes, and update records via online reporting through eSWIS.<br>• Ensure proper record-keeping by maintaining an inventory record for each type of scheduled waste, indicating the date, type, and quantity of waste brought into or removed from the storage site. Keep a copy of the inventory in the storage area.<br>• Construct and maintain an oil sump to manage any accidental spillage of liquid scheduled wastes.<br>• Store incompatible wastes in separate containers and ensure secondary containment areas are in place. Use durable containers that are compatible with the waste type to prevent spillage or leakage.<br>• Store all scheduled waste, including waste oil, oily sludge, and other hazardous materials, in designated covered areas and away from watercourses to prevent contamination of drains and river water.<br>• Label storage containers in compliance with the Third Schedule (Regulation 10) of the Environmental Quality (Scheduled Waste) Regulations 2005.<br>• Keep storage containers closed except when adding or removing waste.<br>• Design, construct, and maintain the storage area with adequate facilities to prevent spillage or leakage. Grade the storage area to a sump for efficient spill management.<br>• Surround the storage area with a concrete dyke or equivalent structure to contain any spills.<br>• Place skid tanks in shaded, bunded storage areas located away from watercourses. The bund capacity must equal or exceed to 110% of the largest container stored.<br>• Establish an Emergency Response Plan (ERP) framework outlining detailed actions to be taken in the event of spillage emergencies. The |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| | | ERP shall be strictly adhered to at all times to ensure effective management and mitigation of such incidents.<br>• Spill response equipment must be available at all times at the waste reception area to ensure prompt and effective action in the event of a spill.<br>**Solid Waste**<br>• Segregate waste by source into recyclable and non-recyclable categories, and recover recyclable materials such as scrap iron and plastic containers.<br>• Provide designated collection bins or areas for segregated recyclable and reusable wastes. Ensure regular garbage collection by an appointed waste disposal contractor to an approved dumping site.<br>• Maintain good housekeeping practices by implementing the 5S principles at all times.<br>• Send recyclable waste to an approved recycling facility or the proposed recycling facility.<br>• Open Burning of solid waste within the Project site is strictly prohibited under the Environmental Quality (Declared Activities) (Open Burning) Order 2003.<br>**Sewage**<br>• Install a septic tank on-site to prevent raw sewage from being discharged into receiving water bodies.<br>• Properly cover the septic tank to prevent seepage of surface runoff during heavy downpours.<br>• Desludge the septic tank regularly in compliance with the Local Authority (Compulsory Desludging of Septic Tanks) By-Laws 1998, with a minimum frequency of once every two years for commercial complexes.<br>• Prepare a contingency plan to address emergency situations involving the septic tank, such as accidental spillages, system failures, or odorous emissions, to mitigate risks to public health and the environment. |
| **Traffic and Transport**<br>  | Minor Adverse Impacts | • Only Department of Environment (DOE) registered transporters shall have permission to transport scheduled wastes, ensuring that vehicles are operated in accordance with environmental and safety regulations.<br>• An inventory of scheduled wastes shall be maintained, detailing updated information such as the category and quantity of scheduled waste received. The consignment note shall have been filled out properly and distributed among waste generators, DOE Sarawak, and waste receivers (Project Proponent).<br>• Movement and transfer of scheduled wastes shall be communicated to DOE by the waste generator, contractor, and receiver for each transportation activity, using the consignment note in accordance with the Sixth Schedule of the Environmental Quality (Scheduled Wastes) Regulations 2005 or through the Electronic Scheduled Waste Information System (eSWIS).<br>• Dry scheduled wastes shall have been securely packed and shall not have been moved during transport unless they are properly stretch-wrapped and stacked to prevent any issues during transit.<br>• Drums containing scheduled waste shall be secured with plastic or steel tape, banding, and/or stretch-wrapped pallets to minimize the risk of tipping over during transportation.<br>• Transport vehicles shall be clearly labelled to indicate the corrosive and hazardous nature of the products being transported, ensuring the safety of the environment and personnel during transit.<br>• A minimum set of equipment to address potential spillages or leakage shall have been provided in transport vehicles, with the transport team trained on how to use this equipment to handle minor emergencies effectively. |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| | | • Transporters shall have a spill response plan in place to manage any spillage or leakage during transportation, ensuring swift and controlled containment of hazardous materials.<br>• Transportation activities shall have been scheduled during periods of minimal traffic to reduce congestion and enhance safety for all road users.<br>• Personal protective equipment (PPE) shall have been provided for the transport team, and they shall have been trained in its proper use to ensure safety in the event of an accident or spill.<br>• An Emergency Response Plan (ERP) framework shall have been established, detailing required actions in case of spillage emergencies ensuring preparedness for all potential incidents.<br>• Hazardous waste transport shall follow predefined routes that minimize the risk of accidents or environmental hazards, ensuring that transportation activities take place along safer, well-known pathways, within scheduled timeframes. |
| **Occupational Safety and Health**<br>  | Minor Adverse Impacts | • To mitigate risks related to occupational safety and health, the following comprehensive measures shall be implemented:<br>• The Emergency Response Plan (ERP) shall be strictly followed, covering both operational and external hazards, ensuring an effective response in case of an incident or accident.<br>• All safety rules and regulations stipulated by the Occupational Safety and Health Department shall be adhered to, ensuring compliance with local safety standards.<br>• Comprehensive training programs shall be enforced for all personnel, focusing on safety procedures, hazard identification, and risk management.<br>• Safety Data Sheets (SDS) or waste cards shall be used for all chemicals and hazardous materials handled on-site, ensuring workers are informed of associated risks.<br>• Specialized training will be provided for transport drivers and emergency response personnel, equipping them to handle transportation safety and emergency situations effectively.<br>• Ongoing health and safety training shall be incorporated into daily operations, emphasizing safe work practices, environmental housekeeping, and proper operational procedures.<br>• Workers shall be provided with suitable Personal Protective Equipment (PPE), including gloves, hard hats, safety boots, earmuffs, face masks, or respirators based on job tasks.<br>• A sufficient supply of medicines and medical equipment for first aid purposes shall be maintained on-site to provide prompt medical attention in case of injuries or hazardous exposure.<br>• "Strictly No Smoking" or "No Naked Fire" signage shall be clearly displayed at the facility's main entrance and near the storage area to prevent fire hazards.<br>• The storage area shall be clearly signposted to indicate the nature of the stored substances, ensuring safe handling by all personnel.<br>• Fire extinguishers shall be positioned throughout the storage area to quickly address fire emergencies.<br>• General safety equipment, including first aid supplies (such as eyewash stations), drum trolleys, spill kits, plastic trays/bins for containing corrosives, adhesive labels, and waterproof marker pens, shall be readily available.<br>• Personal hygiene practices shall be strictly enforced when handling scheduled wastes:<br>✓ Workers shall NEVER touch their faces after handling scheduled waste.<br>✓ Hands shall always be washed with soap and water before eating, smoking, touching the face, or using the toilet.<br>✓ Smoking in or near the storage area shall be strictly prohibited.<br>✓ Spills on the skin shall be washed off immediately. |

| EVALUATION OF IMPACT | MAGNITUDE OF SIGNIFICANT IMPACT | POLLUTION PREVENTIONS AND MITIGATION MEASURES (P2M2) |
|---|---|---|
| | | ✓ If feeling unwell, workers must stop work and seek fresh air, informing their supervisor.<br>• Liquid scheduled wastes shall be securely closed during storage and transportation, and containers shall be kept away from heat, flames, sparks, or other sources of ignition.<br>• An oil-water interceptor shall be installed for controlled discharge, allowing for the containment and clean-up of minor spillage. |
| **Socioeconomic Impact**  | Minor Positive Impacts | • No mitigation is required for positive impacts. However, the project proponent is encouraged to prioritize local residents for any job vacancies created during the operational phase, ensuring that the surrounding community benefits from employment opportunities.<br>• The Contractor shall establish a "grievance mechanism" to address any complaints. All lodged complaints should be promptly reviewed and acted upon, ensuring timely resolution and maintaining positive relations with the community |
| **Abandonment Phase**  | Minor Adverse Impacts | By addressing potential abandonment scenarios, the project ensures readiness and minimizes any potential negative effects on the environment and surrounding community. These measures may include:<br>• An abandonment plan shall be submitted to the Department of Environment (DOE) at least 3 months prior to project abandonment, outlining the steps for safely closing the project and minimizing environmental impacts.<br>• All scheduled wastes shall be collected and disposed of in accordance with the Environmental Quality (Scheduled Wastes) Regulations 2005 to ensure proper management and prevent contamination during the abandonment process.<br>• All waste material shall be properly disposed of by the existing Project Proponent after abandonment, ensuring that all waste is managed in accordance with relevant regulations and does not pose environmental or public health risks.<br>• Any structures that are unsafe or cannot be reasonably assured to remain safe over time shall be dismantled or demolished, with all materials removed from the site to prevent potential hazards or contamination. |

## PERFORMANCE MONITORING

- ✓ Proper documentation should be kept, and a system for inspecting the storage area to check for spills, leaks, and container conditions should be implemented.
- ✓ Make sure the spill response kits and portable fire extinguishers are up to date.
- ✓ Competent individuals should be hired to manage scheduled waste during the operational phase.

## COMPLIANCE MONITORING

### AMBIENT AIR QUALITY MONITORING

- ✓ Sampling stations: A1
- ✓ Monthly monitoring, quarterly reporting
- ✓ Parameters: $PM_{10}$, $PM_{2.5}$, $SO_2$, $NO_2$, $O_3$, CO
- ✓ Compliance Standard: MAAQS, 2020

### SURFACE WATER QUALITY MONITORING

- ✓ Sampling stations: W1 & W2
- ✓ Monthly monitoring, quarterly reporting
- ✓ Parameters: Temperature, pH value, DO, $BOD_5$, COD, TSS, O&G, TCC, FCC, Pb, Cu, Mn, Zn, B, Fe, Ba, F, Phenol, AN
- ✓ Compliance Standard: NWQS Class IIB

### NOISE LEVEL MEASUREMENT

- ✓ Sampling stations: N1
- ✓ Monthly monitoring, quarterly reporting
- ✓ Parameters: $L_{eq}$, $L_{max}$, $L_{min}$, $L_{90}$, $L_{10}$
- ✓ Compliance Standard: Guidelines for Environment Noise Limits and Control, Third Edition, 2019 (N1 – Industrial Zones))

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## PROPOSED MONITORING LOCATIONS


| NOS | DESCRIPTIONS |
|---|---|
| 1. | Kawasan Rukun Tetangga Desaras |
| 2. | Mo Heng Co. Sdn Bhd. |
| 3. | TSA Industries Sdn. Bhd. |
| 4. | Advanced Borneo Engineering |
| 5. | Chen Wan Enterprise |
| 6. | KLL Scrap & Metal Trading Company |
| 7. | GIAT MARA Miri |
| 8. | Hkaz Services Sdn. Bhd. |
| 9. | New D&B Furniture |
| 10. | Century Consultancy Services |
| 11. | RED BUNDLE TUDAN |
| 12. | CK Alliance Sdn. Bhd. |
| 13. | CK Electrical Work. |
| 14. | Berjaya Kitchen Equipment Enterprise |
| 15. | Hotrade Sdn. Bhd. |
| 16. | Nibong Tebal Enterprise Sdn Bhd |
| 17. | Ecoglass Sdn Bhd |

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