



**ASSESSMENT BRIEF FOR  
TORAC / EIATRC**

| BAHAGIAN A                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|------------|--------|-----------------------------|--|---------------|--|---------------|--------------|---|---|---|-----------------------|---------------------|------------|------------|---|-----------------------|---------------------|------------|------------|---|-----------------------|---------------------|------------|------------|---|-----------------------|---------------------|------------|------------|---|-----------------------|--------------------|------------|------------|---|-----------------------|--------------------|------------|------------|---|-----------------------|---------------------|------------|------------|
| <b>Pegawai Proses</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Nama Projek</b>          | <b>THE PROPOSED 288.93 HECTARES (713.96 ACRES) OF FOREST PLANTATION DEVELOPMENT IN PART OF COMPARTMENT 129, 130, 131 AND 132 OF BUKIT IBAM FOREST RESERVE, MUKIM PENYOR, DISTRICT OF PEKAN, PAHANG DARUL MAKMUR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Aktiviti</b>             | Pembangunan Ladang Hutan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>No Fail Punca</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Lokasi Projek</b>        | Hutan Simpan Bukit Ibam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Keluasan</b>             | 288.93 Hectares (713.96 Acres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Kapasiti Pengeluaran</b> | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |               |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| <b>Lokasi Koordinat</b>     | <table border="1"> <thead> <tr> <th rowspan="2">Points</th> <th colspan="2">World Geodetic System (WGS)</th> <th colspan="2">Malaysian RSO</th> </tr> <tr> <th>Longitude (x)</th> <th>Latitude (y)</th> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>102° 58'<br/>33.493" E</td> <td>3° 19'<br/>29.224" N</td> <td>553376.014</td> <td>367659.839</td> </tr> <tr> <td>2</td> <td>102° 58'<br/>50.992" E</td> <td>3° 18'<br/>34.644" N</td> <td>553914.332</td> <td>365983.190</td> </tr> <tr> <td>3</td> <td>102° 58'<br/>45.865" E</td> <td>3° 18'<br/>17.924" N</td> <td>553755.581</td> <td>365469.898</td> </tr> <tr> <td>4</td> <td>102° 58'<br/>30.248" E</td> <td>3° 18'<br/>31.866" N</td> <td>553274.039</td> <td>365898.523</td> </tr> <tr> <td>5</td> <td>102° 58'<br/>26.500" E</td> <td>3° 18' 7.910"<br/>N</td> <td>553157.622</td> <td>365162.980</td> </tr> <tr> <td>6</td> <td>102° 57'<br/>47.604" E</td> <td>3° 19' 0.935"<br/>N</td> <td>551958.911</td> <td>366792.590</td> </tr> <tr> <td>7</td> <td>102° 58'<br/>25.447" E</td> <td>3° 19'<br/>14.006" N</td> <td>553127.244</td> <td>367192.779</td> </tr> </tbody> </table> |                     |               |            | Points | World Geodetic System (WGS) |  | Malaysian RSO |  | Longitude (x) | Latitude (y) | x | y | 1 | 102° 58'<br>33.493" E | 3° 19'<br>29.224" N | 553376.014 | 367659.839 | 2 | 102° 58'<br>50.992" E | 3° 18'<br>34.644" N | 553914.332 | 365983.190 | 3 | 102° 58'<br>45.865" E | 3° 18'<br>17.924" N | 553755.581 | 365469.898 | 4 | 102° 58'<br>30.248" E | 3° 18'<br>31.866" N | 553274.039 | 365898.523 | 5 | 102° 58'<br>26.500" E | 3° 18' 7.910"<br>N | 553157.622 | 365162.980 | 6 | 102° 57'<br>47.604" E | 3° 19' 0.935"<br>N | 551958.911 | 366792.590 | 7 | 102° 58'<br>25.447" E | 3° 19'<br>14.006" N | 553127.244 | 367192.779 |
| Points                      | World Geodetic System (WGS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Malaysian RSO |            |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
|                             | Longitude (x)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Latitude (y)        | x             | y          |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 1                           | 102° 58'<br>33.493" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 19'<br>29.224" N | 553376.014    | 367659.839 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 2                           | 102° 58'<br>50.992" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 18'<br>34.644" N | 553914.332    | 365983.190 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 3                           | 102° 58'<br>45.865" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 18'<br>17.924" N | 553755.581    | 365469.898 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 4                           | 102° 58'<br>30.248" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 18'<br>31.866" N | 553274.039    | 365898.523 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 5                           | 102° 58'<br>26.500" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 18' 7.910"<br>N  | 553157.622    | 365162.980 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 6                           | 102° 57'<br>47.604" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 19' 0.935"<br>N  | 551958.911    | 366792.590 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |
| 7                           | 102° 58'<br>25.447" E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3° 19'<br>14.006" N | 553127.244    | 367192.779 |        |                             |  |               |  |               |              |   |   |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                     |            |            |   |                       |                    |            |            |   |                       |                    |            |            |   |                       |                     |            |            |

|                                               |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
|-----------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|-----------------------|--------|-----------------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-------------|--------|
| <b>Penggerak Projek</b>                       | <b>Kerajaan</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>BETTER TIMBER TRADING SDN BHD</b><br>No. 15, 1 <sup>ST</sup> Floor, Jalan Bidara 16,<br>Taman Bidara, 70100 Seremban,<br>Negeri Sembilan Darul Khusus |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
|                                               | <b>Swasta</b>                | √                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
|                                               | <b>Kerajaan &amp; Swasta</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Jururunding EIA</b>                        |                              | Eco Synergy Solutions Sdn Bhd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>PBT Yang Meluluskan</b>                    |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Tarikh Terima</b>                          |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Tarikh Diminitkan</b>                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Tarikh Tamat Piagam</b>                    |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Tarikh Pameran Awam</b>                    |                              | <b><u>Iklan di “nyatakan nama akhbar” online</u></b><br>- Tidak berkaitan<br><br><b><u>Pameran Awam</u></b><br>- Tidak berkaitan<br><b><u>Ulasan Awam</u></b><br>-Tidak berkaitan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Lokasi Pameran Awam</b>                    |                              | <b><u>Dalam Talian</u></b><br>1. – Tidak berkaitan<br><b><u>Fizikal</u></b><br>1. - Tidak berkaitan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Isu Kritikal</b>                           |                              | <b>1. 3 Bidang Utama</b> <table border="1" style="float: right; margin-left: 20px;"> <tr> <td>Air</td> <td style="text-align: center;">√</td> </tr> <tr> <td>Udara</td> <td style="text-align: center;">√</td> </tr> <tr> <td>Buangan</td> <td style="text-align: center;"> </td> </tr> </table><br><b>2. Lain-lain (Sila Nyatakan)</b><br><b>Contoh: HIA, FIA, SIA, Ekologi</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                          | Air                   | √      | Udara                 | √      | Buangan               |        |                 |        |                 |        |                 |        |             |        |
| Air                                           | √                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| Udara                                         | √                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| Buangan                                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>BAHAGIAN B</b>                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Pengenalan (Latar Belakang Projek)</b>     |                              | Pembangunan Ladang Hutan seluas 288.93 Hektar (713.96 ekar) di kompartmen 129, 130, 131 & 132 Hutan Simpan Bukit Ibam Daerah Pekan, Pahang Darul Makmur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| <b>Status Persekitaran Sediada (Existing)</b> |                              | (a) Penduduk <table border="1" style="margin-left: 20px;"> <tr> <td>• FELDA Chini Timur 1</td> <td style="text-align: center;">4.07km</td> </tr> <tr> <td>• FELDA Chini Timur 2</td> <td style="text-align: center;">4.47km</td> </tr> <tr> <td>• FELDA Chini Timur 3</td> <td style="text-align: center;">4.33km</td> </tr> <tr> <td>• FELDA Chini 3</td> <td style="text-align: center;">5.63km</td> </tr> <tr> <td>• FELDA Chini 4</td> <td style="text-align: center;">6.15km</td> </tr> <tr> <td>• FELDA Chini 5</td> <td style="text-align: center;">5.58km</td> </tr> <tr> <td>• KOA Dusun</td> <td style="text-align: center;">6.96km</td> </tr> </table><br>(b) Alur Air (Sg Cengkul, Sg Mentiga)<br><br>(c) Loji Rawatan Air – Loji Rawatan Chini (9.60km) dari tapak projek |                                                                                                                                                          | • FELDA Chini Timur 1 | 4.07km | • FELDA Chini Timur 2 | 4.47km | • FELDA Chini Timur 3 | 4.33km | • FELDA Chini 3 | 5.63km | • FELDA Chini 4 | 6.15km | • FELDA Chini 5 | 5.58km | • KOA Dusun | 6.96km |
| • FELDA Chini Timur 1                         | 4.07km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • FELDA Chini Timur 2                         | 4.47km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • FELDA Chini Timur 3                         | 4.33km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • FELDA Chini 3                               | 5.63km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • FELDA Chini 4                               | 6.15km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • FELDA Chini 5                               | 5.58km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |
| • KOA Dusun                                   | 6.96km                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                       |        |                       |        |                       |        |                 |        |                 |        |                 |        |             |        |

## Isu-Isu Kritisal

### NOTA: TOR

- (i) lokasi persampelan
- (ii) parameter yang akan diuji
- (iii) standard yang akan digunakan untuk perbandingan
- (iv) Permodelan yang akan dilaksanakan (jenis *software*, parameter yang akan dimodelkan, senario permodelan, *expected outcome*)
- (v) etc

### Laporan EIA

- (i) Lokasi persampelan serta keputusan persampelan
- (ii) Hasil perbandingan dengan standard
- (iii) Hasil permodelan, % keberkesanan BMPs yang diperlukan untuk mencapai standard
- (iv) etc

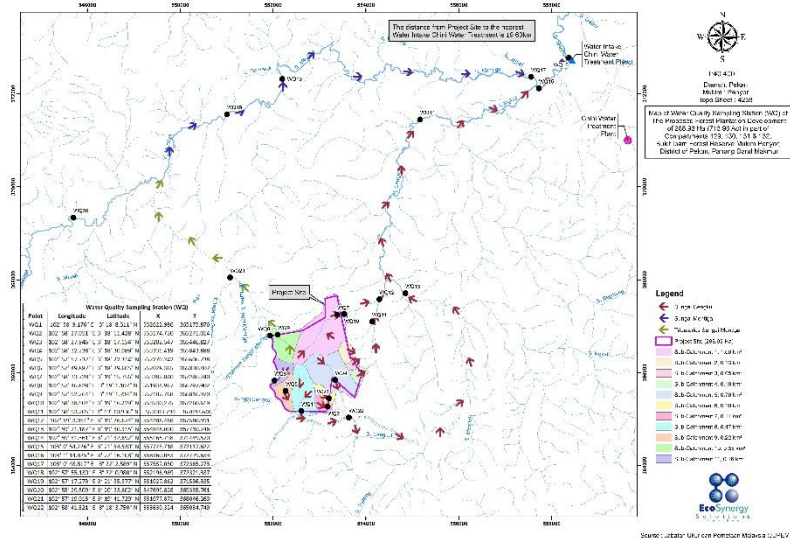
## Air

### A. Air Sungai

Lokasi pemantauan: 22 lokasi

Parameter: pH, suhu, *Dissolved Oxygen (DO)*, kekeruhan, *Ammoniacal Nitrogen*, *Biological Oxygen Demand (BOD)*, *Chemical Oxygen Demand (COD)*, *nitrate nitrogen*, minyak & gris, *orthophospate*, jumlah koliform, *Total Suspended Solid (TSS)*, kekonduksian, dan kemasinan.

Indeks kualiti air: 76.20 - 95.08



| Station | WQI   | Class | Status            |
|---------|-------|-------|-------------------|
| WQ1     | 87.04 | II    | Clean             |
| WQ2     | 90.24 | II    | Clean             |
| WQ3     | 88.27 | II    | Clean             |
| WQ4     | 90.84 | II    | Clean             |
| WQ5     | 91.99 | II    | Clean             |
| WQ6     | 92.44 | II    | Clean             |
| WQ7     | 88.69 | II    | Clean             |
| WQ8     | 95.08 | I     | Clean             |
| WQ9     | 92.88 | I     | Clean             |
| WQ10    | 94.09 | I     | Clean             |
| WQ11    | 88.30 | II    | Clean             |
| WQ12    | 87.68 | II    | Clean             |
| WQ13    | 89.48 | II    | Clean             |
| WQ14    | 78.30 | II    | Slightly Polluted |
| WQ15    | 76.20 | III   | Slightly Polluted |
| WQ16    | 93.53 | I     | Clean             |
| WQ17    | 88.92 | II    | Clean             |
| WQ18    | 77.08 | II    | Slightly Polluted |
| WQ19    | 80.47 | II    | Slightly Polluted |
| WQ20    | 89.65 | II    | Clean             |
| WQ21    | 93.96 | I     | Clean             |
| WQ22    | 89.85 | II    | Clean             |

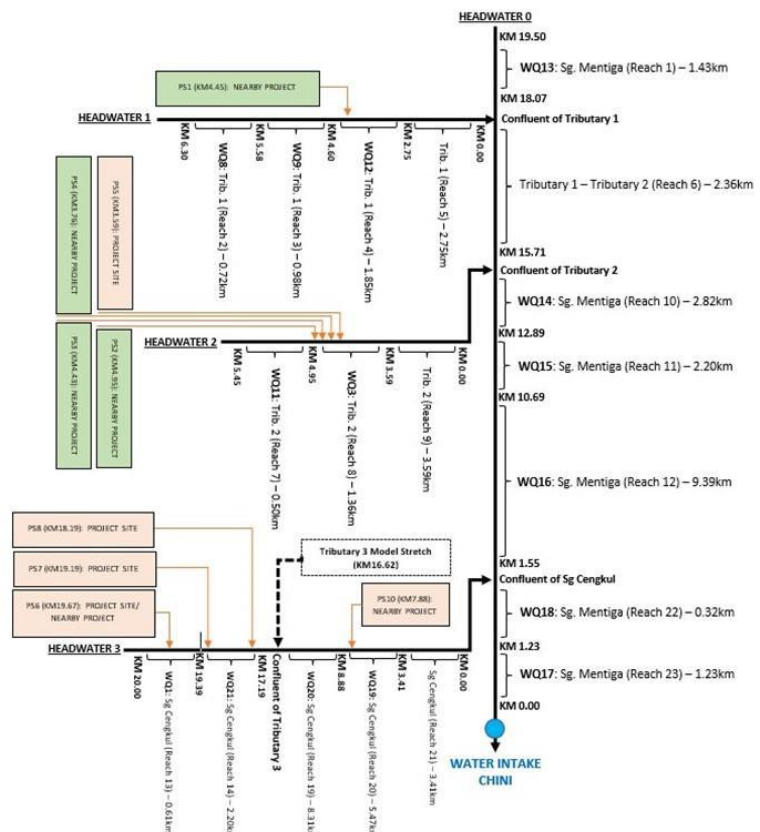
Source: Consultant's Calculation

## Permodelan

Pemodelan QUAL2K telah digunakan untuk menjalankan penilaian kualiti air pada peringkat pembinaan dan operasi. Pada peringkat aktiviti pembersihan tanah yang tidak terkawal, kerja tanah dan pembinaan, dan akan menyebabkan kemerosotan kualiti air bagi jumlah kandungan pepejal terampai (TSS) dalam *perimeter drain*, Sg Cengkul, Sg Mentiga dan loji rawatan air Chini dan anak sungai dihilir tapak projek.

Objektif kajian pemodelan ini adalah:

- 1) Untuk meramalkan jumlah impak muatan pepejal terampai (TSS) terhadap saluran air dan WIP Chini.
- 2) Untuk mensimulasikan impak kumulatif pemuatan TSS bagi tapak projek yang dicadangkan dan projek yang dicadangkan bersebelahan.
- 3) Untuk mengenal pasti impak yang berpotensi terhadap semua penerima yang sensitif melalui pelbagai senario dan untuk mencadangkan langkah-langkah mitigasi untuk meminimumkan kesan yang mungkin berlaku.



**HEADWATER 4**

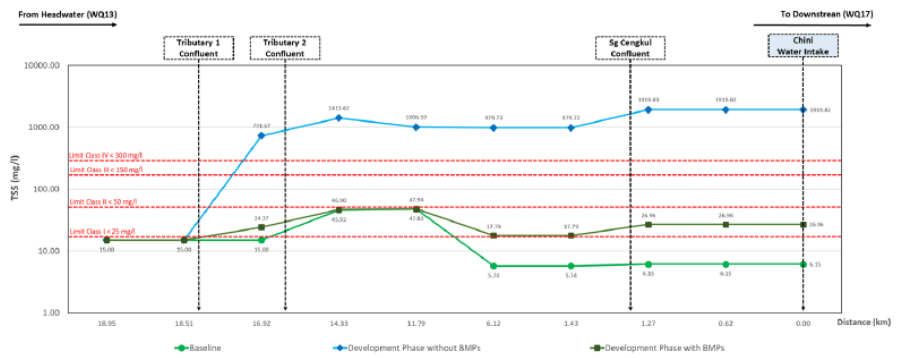
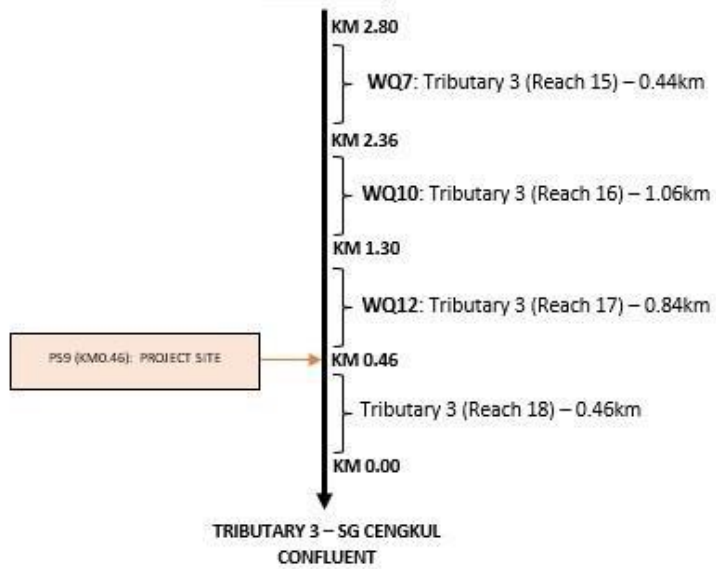


Figure 7.2.10: TSS modelling results for Sg. Mentiga

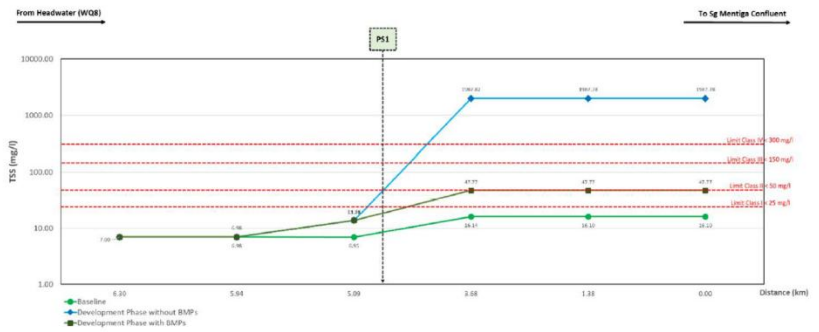


Figure 7.2.11: TSS modelling results for Tributary 1

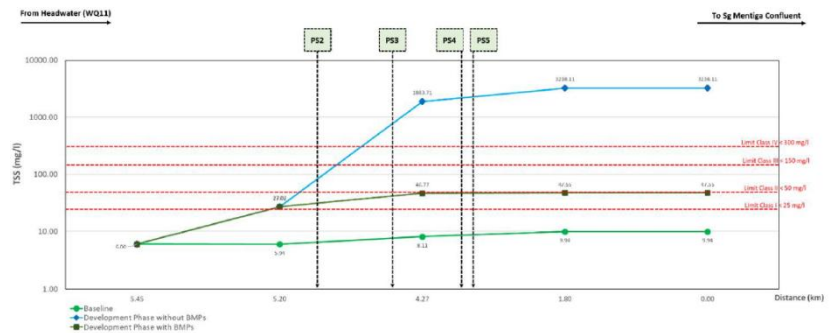


Figure 7.2.12: TSS modelling results for Tributary 2

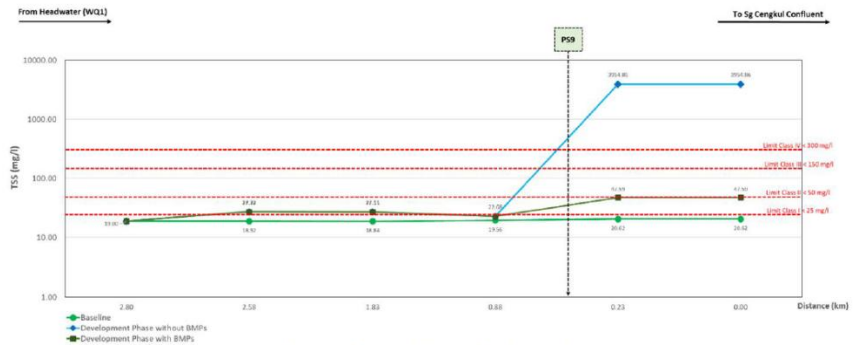


Figure 7.2.13: TSS modelling results for Tributary 3

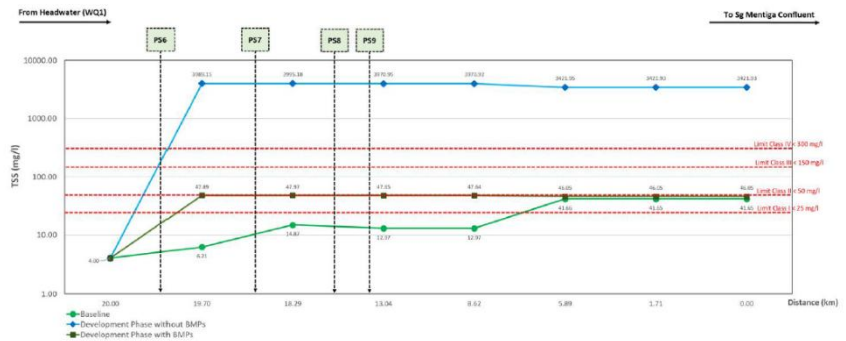



Figure 7.2.14: TSS modelling results for Sg. Cengkul

- A. Air Tanah-N/A
- B. Air Laut / Marin- N/A
- C. Hakisan dan Kelodakan-  
Pengiraan USLE telah dijalankan bagi peringkat keadaan sedia ada, pembinaan dan operasi.

### Udara

- A. Kualiti Udara Ambien :  
Lokasi pemantauan: 3 lokasi  
Parameter: PM<sub>10</sub>, PM<sub>2.5</sub>,  
Keputusan analisa: mematuhi had *New Malaysia Ambient Air Quality Standard 2020*

| A1                                                                                                                                                                                                         |                      |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|
|                                                                                                                          | Location             | Project Site Boundary                                                                   |
|                                                                                                                                                                                                            | Coordinate           | N 3° 18' 47.375"<br>E 102° 57' 50.955"                                                  |
|                                                                                                                                                                                                            | Sampling Date        | 26th-27th October 2023 (PM <sub>10</sub> )<br>20th-21st March 2024 (PM <sub>2.5</sub> ) |
|                                                                                                                                                                                                            | <b>ANALYSIS DATA</b> |                                                                                         |
| Test Parameter                                                                                                                                                                                             | Result               | *Recommended limit                                                                      |
| PM <sub>10</sub> (µg/m <sup>3</sup> )                                                                                                                                                                      | 21.0                 | 100 PM <sub>10</sub> (µg/m <sup>3</sup> )                                               |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                                                                                                                                                     | 7.0                  | 35 PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                               |
| A2                                                                                                                                                                                                         |                      |                                                                                         |
|                                                                                                                          | Location             | Access Road (FELDA Chini)                                                               |
|                                                                                                                                                                                                            | Coordinate           | N 3° 21' 58.157"<br>E 102° 57' 17.598"                                                  |
|                                                                                                                                                                                                            | Sampling Date        | 26th-27th October 2023 (PM <sub>10</sub> )<br>20th-21st March 2024 (PM <sub>2.5</sub> ) |
|                                                                                                                                                                                                            | <b>ANALYSIS DATA</b> |                                                                                         |
| Test Parameter                                                                                                                                                                                             | Result               | *Recommended limit                                                                      |
| PM <sub>10</sub> (µg/m <sup>3</sup> )                                                                                                                                                                      | 32.0                 | 100 PM <sub>10</sub> (µg/m <sup>3</sup> )                                               |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                                                                                                                                                     | 15.0                 | 35 PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                               |
| A3                                                                                                                                                                                                         |                      |                                                                                         |
|                                                                                                                         | Location             | FELDA Chini Timur                                                                       |
|                                                                                                                                                                                                            | Coordinate           | N 3° 19' 30.946"<br>E 103° 0' 30.146"                                                   |
|                                                                                                                                                                                                            | Sampling Date        | 26th-27th October 2023 (PM <sub>10</sub> )<br>20th-21st March 2024 (PM <sub>2.5</sub> ) |
|                                                                                                                                                                                                            | <b>ANALYSIS DATA</b> |                                                                                         |
| Test Parameter                                                                                                                                                                                             | Result               | *Recommended limit                                                                      |
| PM <sub>10</sub> (µg/m <sup>3</sup> )                                                                                                                                                                      | 36.0                 | 100 PM <sub>10</sub> (µg/m <sup>3</sup> )                                               |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                                                                                                                                                     | 17.0                 | 35 PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                               |
| <p>*New Malaysia Ambient Air Quality Standard (NMAAQSI) (2020)<br/>Source: SEMC Environmental Sampling (26<sup>th</sup>-27<sup>th</sup> October 2023 and 20<sup>th</sup> - 21<sup>st</sup> March 2024)</p> |                      |                                                                                         |
| <p>B. Bunyi Bising:<br/>Lokasi pemantauan: 3 lokasi<br/>Parameter: tahap bunyi bising<br/>Keputusan analisa: mematuhi had garis panduan</p>                                                                |                      |                                                                                         |

| N1                                                                                 |                        |                                        |            |                                       |
|------------------------------------------------------------------------------------|------------------------|----------------------------------------|------------|---------------------------------------|
|   | Location               | Project Site Boundary                  |            |                                       |
|                                                                                    | Coordinate             | N 3° 18' 47.375"<br>E 102° 57' 50.955" |            |                                       |
|                                                                                    | Sampling Date          | 26th-27th October 2023                 |            |                                       |
|                                                                                    | Result                 | Day Time                               | Night Time | *Recommended Limit                    |
|                                                                                    | L <sub>Aeq</sub> (dBA) | 49.5                                   | 40.0       | Day Time: 55 dBA<br>Nighttime: 50 dBA |
| N2                                                                                 |                        |                                        |            |                                       |
|   | Location               | Entry To Access Road (FELDA Chini)     |            |                                       |
|                                                                                    | Coordinate             | N 3° 21' 58.157"<br>E 102° 57' 17.598" |            |                                       |
|                                                                                    | Sampling Date          | 26th-27th October 2023                 |            |                                       |
|                                                                                    | Result                 | Day Time                               | Night Time | *Recommended Limit                    |
|                                                                                    | L <sub>Aeq</sub> (dBA) | 52.0                                   | 43.6       | Day Time: 55 dBA<br>Nighttime: 50 dBA |
| N3                                                                                 |                        |                                        |            |                                       |
|  | Location               | FELDA Chini Timur                      |            |                                       |
|                                                                                    | Coordinate             | N 3° 19' 30.946"<br>E 103° 0' 30.146"  |            |                                       |
|                                                                                    | Sampling Date          | 26th-27th October 2023                 |            |                                       |
|                                                                                    | Result                 | Day Time                               | Night Time | *Recommended Limit                    |
|                                                                                    | L <sub>Aeq</sub> (dBA) | 53.9                                   | 45.8       | Day Time: 55 dBA<br>Nighttime: 50 dBA |

Source: SEMC Environmental Sampling (26th-27th October 2023)

C. Getaran- N/A

D. Bau- N/A

### Pengurusan Sisa

A. Buangan Terjadual- Environmental Quality (Scheduled Wastes) Regulations, 2005

B. Sisa Biomas-Tiada

### Lain-lain Isu Kritikal (Jika ada)

- Traffic- N/A
- Sosio-ekonomi:

Kajian sosio-ekonomi telah dijalankan dan terdapat 250 responden menyertai kajian sosio-ekonomi tersebut. Melalui kajian tersebut, terdapat 30% responden tidak menyokong cadangan pembangunan ini dan 56.4% menyokong cadangan pembangunan ini dan 13.6% orang tiada pendapat.



Table 6.5.6: Existing Environment Condition

| Existing Environment Condition              | Responses Yes (%) |
|---------------------------------------------|-------------------|
| Peaceful and quiet environment              | 19.0              |
| No heavy vehicles passing by at the village | 13.6              |
| Wildlife conflict                           | 15.2              |
| Flash Flood                                 | 13.0              |
| River pollution                             | 8.8               |
| Air Pollution (dust)                        | 2.9               |
| Noise Pollution                             | 2.5               |
| Many foreign workers                        | 6.1               |
| Fewer job opportunities                     | 5.5               |
| No sufficient amenities and infrastructure  | 2.4               |
| Disruption of utilities                     | 10.9              |

Source: Social Survey, August 2023

Table 6.5.7: Respondent's perception of potential positive and negative arising from the project (percentage of survey respondents)

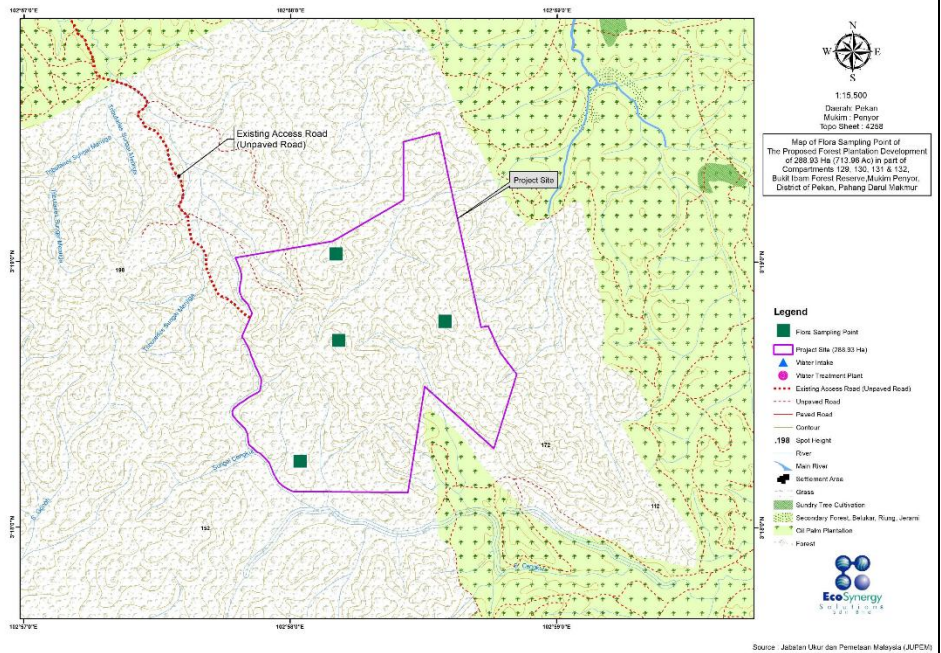
| No | Potential Positive and Negative Impacts | Response (%)    |
|----|-----------------------------------------|-----------------|
| 1  | Open job opportunities                  | 21.6% agreed    |
| 2  | Open business opportunities             | 15.2% agreed    |
| 3  | Economic benefits                       | 23.6% agreed    |
| 4  | Encourage development                   | 27.2% agreed    |
| 5  | Increase facilities and infrastructure  | 12.4% agreed    |
| 8  | Affect aesthetic value                  | 93.3% disagreed |
| 9  | Disruption of daily activities          | 87.7% disagreed |
| 10 | Addition of foreign workers             | 91.2% disagreed |
| 13 | Increase cost living                    | 96.5% disagreed |
| 14 | Disruption to utility                   | 93.3% disagreed |
| 15 | Property damage                         | 92.7% disagreed |
| 16 | Traffic congestion                      | 84.2% disagreed |
| 17 | Road damage                             | 82.3% disagreed |
| 18 | Road accident risk                      | 87.6% disagreed |
| 19 | Affect health                           | 91.1% disagreed |
| 1  | Open job opportunities                  | 21.6% agreed    |
| 2  | Open business opportunities             | 15.2% agreed    |
| 3  | Economic benefits                       | 23.6% agreed    |

Source: Social Survey, March 2024

- **Kajian Flora**

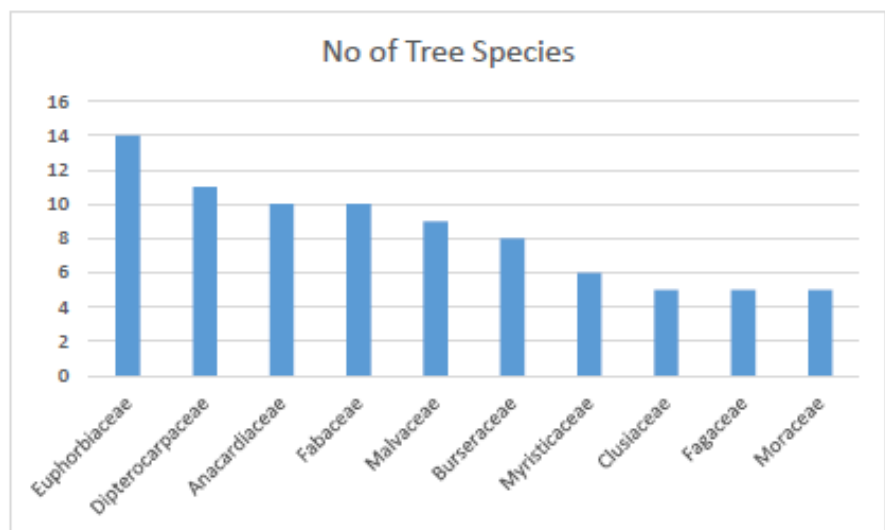
Bahagian ini menerangkan komponen biologi sedia ada di kawasan kajian yang terdiri daripada komposisi flora am. Kajian telah dijalankan pada 21 hingga 22 Oktober 2023. Tujuan utama adalah untuk menganalisis kepelbagaian dan komposisi spesies serta anggaran biojisim di atas tanah di tapak projek yang dicadangkan.

Kawasan kajian dikategorikan sebagai hutan hujan tanah pamah.



**Table 6.4.4: Ten most dominant family at the project site**

| Family           | No of Genus | No of Species |
|------------------|-------------|---------------|
| Rubiaceae        | 14          | 17            |
| Fabaceae         | 11          | 16            |
| Euphorbiaceae    | 11          | 14            |
| Malvaceae        | 9           | 12            |
| Annonaceae       | 8           | 11            |
| Dipterocarpaceae | 3           | 11            |
| Anacardiaceae    | 9           | 10            |
| Burseraceae      | 3           | 8             |
| Moraceae         | 3           | 7             |
| Myristicaceae    | 4           | 6             |



**Figure 6.4.2: Top ten tree species recorded in the project site.**

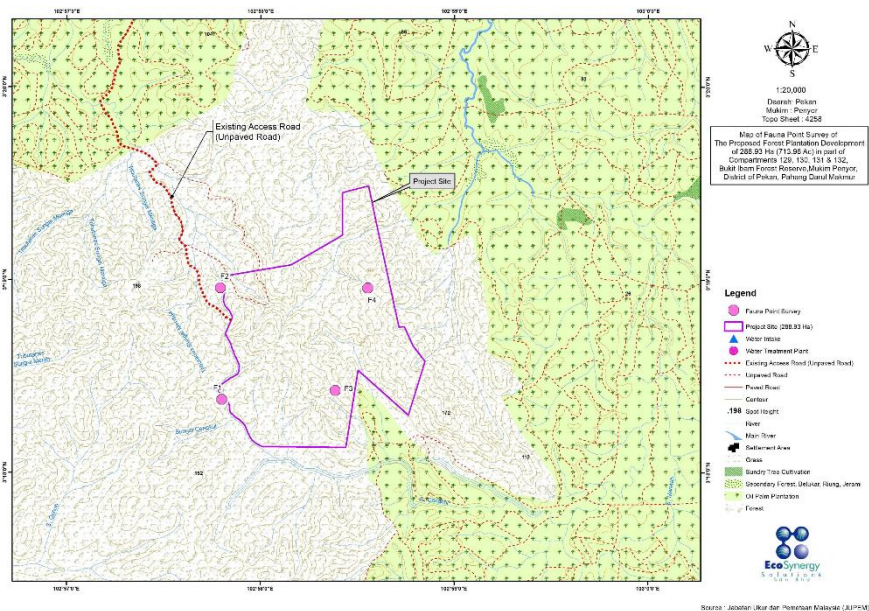
- **Kajian Fauna**

Jumlah kiraan 8 poin telah diwujudkan dalam tempoh tinjauan lapangan bermula dari 3 hingga 5 November 2023 dan 8-10 Desember 2023 di tapak projek yang dicadangkan untuk sampel wakil burung, mamalia, amfibia dan reptiliannya. Selain itu, program memerangkap kamera turut dijalankan dalam tempoh sebulan iaitu pada 4 November hingga 9 Desember 2025. Sebanyak 10 perangkap kamera telah dipasang masing-masing dan ditinggalkan di kawasan sekitar bagi mengesan kehadiran vertebrata daratan yang sukar difahami dan samar (Titik koordinat perangkap kamera akan disediakan dalam Laporan Pelan Pengurusan Hidupan Liar dan diserahkan kepada PERHILITAN Pahang).

Tapak projek yang dicadangkan kebanyakannya dilitupi dengan tumbuh-tumbuhan hutan primer yang tebal dan merupakan sebahagian daripada kompleks hutan yang lebih besar di utara.

Walau bagaimanapun, ladang kelapa sawit yang ditubuhkan bersempadan dengan tapak di selatan. Topografi terutamanya adalah tanah pamah hingga hutan dipterokarpa bukit.

Ciri-ciri habitat adalah pelbagai, termasuk pinggir antara hutan dan tanah pertanian kelapa sawit, hutan primer, dan sungai yang mengalir melalui tapak projek yang dicadangkan.



Hasil kajian menunjukkan:  
 Mamalia- 11 spesies  
 Herpetofauna – 5 spesies  
 Avian- 20 spesies

- Geotechnical-N/A
- Quantitative Risk Assessment- N/A

|                                                                                                                                |                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                                                                                           |
| <b>Isu – isu tidak kritikal yang dinyatakan dalam TOR / Laporan EIA</b>                                                        |                                                                                                                                           |
| <b>BAHAGIAN C (SYOR DAN ULASAN)</b>                                                                                            |                                                                                                                                           |
| <b>AI / Agensi</b>                                                                                                             | <b>Agensi – Agensi:</b><br>-<br><br><b>Als:</b><br>-                                                                                      |
| <b>Ulasan &amp; Syor Pegawai Proses</b>                                                                                        | <input type="checkbox"/> Tidak Sah / Tidak Lulus<br><input checked="" type="checkbox"/> Kemaskini<br><input type="checkbox"/> Sah / Lulus |
| <b>TANDATANGAN PEGAWAI PENILAI</b>                                                                                             |                                                                                                                                           |
| <b>NAMA</b>                                                                                                                    |                                                                                                                                           |
| <b>JAWATAN</b>                                                                                                                 |                                                                                                                                           |
| <b>TARIKH</b>                                                                                                                  |                                                                                                                                           |
| <b>ULASAN PENYELIA</b>                                                                                                         |                                                                                                                                           |
| <b>ULASAN</b>                                                                                                                  |                                                                                                                                           |
| <b>TANDATANGAN PENYELIA</b>                                                                                                    |                                                                                                                                           |
| <b>NAMA</b>                                                                                                                    |                                                                                                                                           |
| <b>JAWATAN</b>                                                                                                                 |                                                                                                                                           |
| <b>TARIKH</b>                                                                                                                  |                                                                                                                                           |
| <b>KETETAPAN MESYUARAT JAWATANKUASA TORAC / EIATRC</b>                                                                         |                                                                                                                                           |
| <input type="checkbox"/> Tidak Sah / Tidak Lulus<br><input type="checkbox"/> Kemaskini<br><input type="checkbox"/> Sah / Lulus |                                                                                                                                           |

**ULASAN:**

**TANDATANGAN  
PENGKERUSI**

**NAMA**

**JAWATAN**

**TARIKH**

**KETETAPAN PENGARAH (Sekiranya Pengerusi Mesyuarat adalah selain Pengarah)**

**ULASAN**

**TANDATANGAN  
PENGARAH**

**NAMA**

**JAWATAN**

**TARIKH**

**LAMPIRAN**

**Ulasan Agensi yang  
diterima**

Senaraikan agensi yang telah mengemukakan ulasan & lampirkan ulasan yang dikemukakan

**Ulasan Pameran Awam  
(Sekiranya Berkaitan)**

senarai ulasan yang dikemukakan & lampirkan ulasan yang diterima melalui JAS/Pusat Pameran/PP/Jururunding EIA dan sebagainya