#### **EMP-EMoP**

#### ENVIRONMENTAL MANAGEMENT PLAN AND ENVIRONMENTAL MONITORING PLAN DEVELOPMENT ACTIVITY PLAN OF MASS RAPID TRANSIT (MRT) EAST – WEST LINE

Tomang (DKI Jakarta) – Medan Satria (Bekasi, West Java) Route along ±24,527 Km and Rorotan Depot along ±5,90 Km

Directorate General of Railways Ministry of Transportation of the Republic of Indonesia November 2023

#### FOREWORD

Preparation of EIA documents plan activity development track Mass Rapid Transit (MRT) East - West Line Phase 1 Stage 1 (Tomang - Medan Satria) refers to Regulations Government Republic of Indonesia Number 22 of 2021 concerning Guidelines Preparation of Environmental Documents Alive, Appendix II. The preparation of this RKL-RPL document is a follow-up to the approval of the Development Activity Terms of Reference Form track the Mass Rapid Transit (MRT) East - West Line Phase 1 Stage 1 (Tomang - Medan Satria). This RKL-RPL document is submitted together with the Andal document to the Ministry of Environment and Forestry for evaluation.

The activity of preparing this RKL-RPL document is an embodiment of and a sense of responsibility, in order to prevent and reduce negative impacts on the environment and optimize the positive impacts of the planned activities to be carried out, as well as strive for environmental sustainability.

On this occasion we as party guarantor answer say accept love to all party that has help in preparation of this RKL-RPL document. Hopefully what is contained in this document can be used as guidelines and instructions for us in implementing environmental management and monitoring activities in development activities track the Mass Rapid Transit (MRT) East - West Line Phase 1 Stage 1 (Tomang -Medan Satria).

Jakarta, November 2023

Ir. Mohamad Risal Wasal, A.TD, MM, IPM Director General of Railway

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#### 1.1. Background

*Mass Rapid Transit* East-West Line Phase 1 Stage 1 (MRT-EWLP1S1) is a national strategic project based on Coordinating Minister for Economic Affairs Regulation No. 7 of 2021 concerning Changes to the List of National Strategic Projects, in order to overcome traffic congestion and improve transportation facilities in DKI Jakarta and its surroundings. This project was implemented by the Directorate General of Railways (DJKA), Ministry of Transportation of the Republic of Indonesia with funding from the Japan International Cooperation Agency (JICA).

Based on Minister of Transportation Decree No. KM 203 of 2022 concerning Determining the Route of the Jakarta Mass Rapid Transit Line, East – West Corridor (Cikarang – Balaraja), MRT-EWLP1S1 is planned to be  $\pm$  24,527 Km with the Tomang (DKI Jakarta) – Medan Satria (Bekasi, West Java) route and Rorotan Depot access along  $\pm$  5.90 Km. The activity plan is presented inKesalahan! Sumber r eferensi tidak ditemukan...

Criteria	Description
Route	Tomang – Grogol – Roxy – Petojo – Cideng – Thamrin – Kebon Sirih – Kwitang – Senen – Galur – Cempaka Baru – Sumur Batu – West Pakulonan – East Pakulonan – Perintis – Pulo Gadung – Milling – West Cakung – Pulo Gebang – Ujung Menteng – Medan Satria and access to the Rorotan Depot

Table	1.1.	MRT	-EWLP1	S1 Acti	vitv	Plan
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#### ENVIRONMENTAL MANAGEMENT PLAN-ENVIRONMENTAL MONITORING PLAN

MRT East – West Line Phase 1 Stage 1

Criteria	Description
Railroad construction	<ul> <li>a. Elevated(± 15,527 Km)</li> <li>ElevatedWest: Tomang – Grogol – Roxy</li> <li>ElevatedEast: Galur – Cempaka Baru – Sumur Batu – West Pakulonan – East Pakulonan – Perintis – Pulo Gadung – Milling – West Cakung – Pulo Gebang – Ujung Menteng – Medan Satria</li> <li>Elevated(± 5.9 Km)</li> <li>access to Rorotan Depot</li> <li>Underground(± 9 Km)</li> <li>Roxy – Petojo – Cideng – Thamrin – Kebon Sirih – Kwitang – Senen – Galur</li> </ul>
Station	<ul> <li>a. Elevated(13 stations) Tomang, Grogol, Cempaka Baru, Sumur Batu, West Pakulonan, East Pakulonan, Perintis, Pulo Gadung, Milling, West Cakung, Pulo Gebang, Ujung Menteng, Medan Satria</li> <li>b. Underground(8 stations) Roxy, Petojo, Cideng, Thamrin, Kebon Sirih, Kwitang, Senen, Galur</li> </ul>
Depot	Rorotan, Cilincing, North Jakarta (area ± 23 Ha)

Source : JMCA, 2022

Administratively, the MRT-EWLP1S1 Tomang – Medan Satria route and access to the Rorotan Depot crosses 2 provinces (DKI Jakarta and West Java), 5 cities (West Jakarta, Central Jakarta, North Jakarta, East Jakarta & Bekasi City), 13 sub-districts (Grogol Petamburan, Gambir, Tanah Abang, Menteng, Senen, Johar Baru, Kemayoran, Cempaka Putih, Kelapa Gading, Pulo Gadung, Cakung, Cilincing, Medan Satria) and 31 sub-districts (Tomang, Tanjung Duren Selatan, Grogol, Duri Pulo, Cideng, Petojo North, South Petojo, Gambir, Kampung Bali, Kebon Sirih, Senen, Kwitang, Kramat, Tanah Tinggi, Galur, Harapan Mulia, Cempaka Baru, Sumur Batu, West Cempaka Putih, East Cempaka Putih, West Kelapa Gading, East Kelapa Gading, Pengangsaaan Two, Kayu Putih, Pulo Gadung, Rawa Terate, West Cakung, East Cakung, Ujung Menteng, Medan Satria, and Rorotan).

#### 1.2. Aims and Objectives of RKL - RPL

The purpose of RKL-RPL MRT-EWLP1S1 is as follows:

- 1. Formulate environmental management and monitoring activities to prevent, overcome and control negative impacts as well as increase positive impacts that are expected to arise as a result of MRT-EWLP1S1 activities;
- 2. Formulate the parties or institutions involved in implementing and supervising environmental management activities in accordance with the scope of their respective authorities and duties.

The objectives of RKL-RPL MRT-EWLP1S1 are as follows:

- 1. Environmental Management Plan (RPL)
  - As technical guidelines for the Directorate General of Railways in carrying out environmental management activities for any significant impacts and/or other impacts that are expected to arise as a result of MRT-EWLP1S1 activities;

- b) As technical guidelines for authorized agencies in the guidance and supervision of environmental management activities carried out by the Directorate General of Railways;
- 2. Environmental Monitoring Plan (RKL)
  - a) As technical guidelines for the Directorate General of Railways in carrying out environmental monitoring activities and evaluating the implementation of environmental management for any significant impacts and/or other impacts that are expected to arise as a result of MRT-EWLP1S1 activities;
  - b) As technical guidelines for authorized agencies in the guidance, supervision and evaluation of compliance, trends and critical levels of the implementation of environmental management of MRT-EWLP1S1 activities carried out by the Directorate General of Railways;

#### **1.3.** Environmental Policy

The Directorate General of Railways is responsibleMRT-EWLP1S1 activities are committed to:

- 1. Comply and implementprovisions of relevant laws and regulations in the environmental field;
- Improving sustainable environmental management and monitoring in the form of preventing, overcoming and controlling environmental impacts caused by MRT-EWLP1S1 activities;
- Conduct environmental management training for personnel implementing MRT-EWLP1S1 activities;
- 4. Ensure thatpersonnel implementing MRT-EWLP1S1 activities understand applicable environmental policies and implement them in every activity in the field;
- 5. Implement operating standards that minimize environmental impacts, employee health and safety.



Figure 1.1. MRT-EWLP1S1 Construction Location Map



#### **Environmental Management Plan**

The Environmental Management Plan (RKL) contains forms of environmental management carried out for the impacts caused in order to avoid, prevent, minimize and/or control negative impacts and increase positive impacts. In this sense, it is a form of environmental management in MRT-EWLP1S1 activities includes:

- 1. Significant Impact Management Plan (result of management direction to Andal) as presented in Table 2.1.
- 2. Other Environmental Impact Management Plan, as presented in Table 2.2.

Success Indicators Managed Environmental Environmental No Impact Source Management of the **Forms of Environmental Management Management Location** Mai Impact environment 1 PRE CONSTRUCTION STAGE 1. Land Acquisition 1a. Changes in Land 100% of land owners who are 1. Land acquisition is limited to the space area belonging to the MRT road • Ex. Tomang Carr public acquired receive the results of through a land acquisition process with reference to applicable • Ex. Tanjung Duren Selatan the procurement perceptions and the land acquisition process regulations. • Ex. Grogol proc attitudes 2. Conduct public consultations with land owners to reach agreement on the • Ex. Duri Pulo land acquisition process. If an agreement has not been reached, a public • Ex. Cideng consultation will be held again. If an agreement is still not reached, the • Ex. North Petojo Governor will form a study team tasked with identifying the main issues of • Ex. South Petojo disagreement and providing recommendations for improvements to Ex. Gambir activity plans and/or fairer compensation. • Ex. Kampung Bali 3. Conduct deliberations with the rights holders to reach an agreement on • Ex. Kebon Sirih compensation and relinquishment of rights to the released objects. If an • Ex. Senen agreement has not been reached, mediation efforts will be made. If an Ex. Kwitang agreement is still not reached, then negotiations are carried out. If the • Ex. Kramat results of the negotiations do not reach an agreement, the rights holder • Ex. Tanah Tinggi can submit an objection to the District Court. If the objection is not • Ex. Galur granted, compensation will be deposited with the District Court, whereas • Ex. Harapan Mulia if the objection is granted, compensation will be made based on the • Ex. Cempaka Baru decision of the District Court. • Ex. Sumur Batu 4. Handling public complaints using the following mechanism: • Ex. Cempaka Putih Barat • Ex. Cempaka Putih Timur Registration Complaint Verification Complaint Follow up action by Grievance Sources • Ex. West Kelapa Gading • Ex. East Kelapa Gading Community Isue Category A Executor • Ex. Pegangsaan Dua • Ex. Kayu Putih • Ex. Pulo Gadung District / Sub District • Ex. Rawa Terate • Ex. West Cakung • Ex. East Cakung Coordination with • Ex. Ujung Menteng Other authorized Isue Category other authorized government • Ex. Medan Satria government • Ex. Rorotan Land acquisition is limited to the right of way (ROW) area of the MRT plan through the acquisition process with reference to Law no. 2 of 2012, Law no. 11 of 2020, PP No. 19 of 2021 and PerMenATR No. 19th year 2021 a. Carry out compensation and Livelihoods Restoration Program according to the scheme based on the results of the Land Acquisition and Resettlement Plan (LARAP) study Detail of entitlement is explained in the final Land Acquisition and Resettlement Action Plan(LARAP) CONSTRUCTION STAGE 11 1. Acceptance of Construction Workers Open job Acceptance of • Ex. Tomang • The 1a. Local workers involved as Posting job vacancy announcements at sub-district and sub-district opportunities • Ex. Tanjung Duren Selatan construction workers constitute a minimum of offices, including the number of workers required, qualifications, time is workers 20% of the 6,210 construction and place of registration, place and date of the selection process, date • Ex. Grogol ini of labor requirements and place of announcement of workers accepted • Ex. Duri Pulo Cor 2. Communicate and collaborate with the government (district and sub-• Ex. Cideng

following conditions:

#### Table 2.1. Significant Impact Management Plan (result of management direction to Andal)

district) and local community leaders in workforce recruitment activities

3. Prioritize hiring workers from residents of 31 local sub-districts of at least

20% of the 6,210 people needed for construction workers with the

• Ex. North Petojo

• Ex. South Petojo

• Ex. Kampung Bali

• Ex. Kebon Sirih

• Ex. Gambir

Environmental Management Period	Environmental Management Institution			
Carried out during he land acquisition process	Executor: Directorate General of Railways (DJKA) Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service <b>Report Recipient:</b> a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service			
The announcement is made once at the initial recruitment of workers Communication and collaboration	Executor: be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry			

b) DKI Jakarta Provincial Environmental Service

with residents,

government is

and local

community leaders

- c) West Java Province
- Environmental Service

r	Managed Io Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				<ul> <li>If the number of applicants who meet the qualifications exceeds the quota, it can be considered that the number of local workers recruited will be more than 20%.</li> <li>On the other hand, if the 31 local sub-districts have not met the quota, then the need for construction workers can be met from other sub-districts in the 13 sub-districts and/or from 5 cities within the MRT-EWLP1S1 development area.</li> </ul>	<ul> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Harapan Mulia</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih</li> <li>Ex. Vest Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Rayu Putih</li> <li>Ex. Pulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	carried out during the workforce recruitment process	<ul> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>pepartment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> </ul>
	b. Increase in family income	Acceptance of construction workers	Average family income ≥ Rp. 2,500,000/ month (RLA condition Rp. 2,300,000/month)	<ol> <li>Make a Specific Time Work Agreement (PKWT) for each worker</li> <li>Insuring all workers under BPJS Employment and BPJS Health</li> <li>Providing work wages in accordance with applicable regulations (referring to the Regional Minimum Wage) and agreed in the PKWT</li> </ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih</li> <li>Ex. East Cempaka Putih</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Bast Cakung</li> <li>Ex. Rawa Taria</li> <li>Ex. Raya Putin</li> <li>Ex. Raya Taria</li> <li>Ex. Raya Putin</li> <li>Ex. Raya Taria</li> <li>Ex. Raya Taria</li> <li>Ex. Raya Taria</li> <li>Ex. Raya Putin</li> <li>Ex. Raya Taria</li> </ul>	<ul> <li>PKWT is made once at the initial recruitment of workers</li> <li>Wages and labor insurance are provided during work</li> </ul>	Executor: be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department environment Department e) West Jakarta Environment Department

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
	Changen in	Accession	4000% of the second to second		F. T	Consideration	<ul> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
	changes in public perceptions and attitudes	Acceptance of construction workers	the results of the construction labor recruitment process	<ul> <li>Inclusive the reconstruction workers from residents of 31 local sub-districts, at least 20% of the 6,210 construction labor needs. If the number of applicants who meet the qualifications exceeds the quota, it can be considered that the number of local workers recruited will be more than 20%. On the other hand, if the 31 local sub-districts have not meet the quota, then the need for construction workers are be met from other sub-districts in the 13 local sub-districts and/or from 5 local cities.</li> <li>Communicate and collaborate with the government (district and sub-district) and local community leaders in workforce recruitment activities</li> <li>Open communication with residents regarding developments in labor recruitment by conveying the number of workers accepted and those not accepted by limiting the acceptance of workers from outside the area</li> <li>ProvideComplaint Service Post to accommodate public complaints</li> <li>Conducted of Public Complaints Handling with the following mechanism:</li> </ul>	<ul> <li>EX. Tanjung Duren Selatan</li> <li>EX. Grogol</li> <li>EX. Duri Pulo</li> <li>EX. Cideng</li> <li>EX. North Petojo</li> <li>EX. South Petojo</li> <li>EX. South Petojo</li> <li>EX. Gambir</li> <li>EX. Kampung Bali</li> <li>EX. Kebon Sirih</li> <li>EX. Kebon Sirih</li> <li>EX. Senen</li> <li>EX. Kramat</li> <li>EX. Tanah Tinggi</li> <li>EX. Galur</li> <li>EX. Galur</li> <li>EX. Cempaka Baru</li> <li>EX. Cempaka Baru</li> <li>EX. Cempaka Putih Barat</li> <li>EX. Cempaka Putih Barat</li> <li>EX. Cempaka Putih</li> <li>EX. West Kelapa Gading</li> <li>EX. Kayu Putih</li> <li>EX. Pegangsaan Dua</li> <li>EX. Kayu Putih</li> <li>EX. Pulo Gadung</li> <li>EX. East Cakung</li> <li>EX. Ujung Menteng</li> <li>EX. Medan Satria</li> <li>EX. Rorotan</li> </ul>	the workforce recruitment process	<ul> <li>be conducted "Contractor " under executor</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul></li></ul>
2.	Basecamp Opera	tions					

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
2a.	Open business opportunities	Basecamp operations	The number of local community businesses involved in providing basecamp operational needs is a minimum of 5 business units	<ol> <li>Providing opportunities for local communities to collaborate in providing basecamp operational needs</li> <li>Providing opportunities for local communities to become providers of goods and services for basecamp residents</li> </ol>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Doneduring basecamp operations	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> </ul> </li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environmental Service</li> <li>c) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul> </li> </ul>
2b.	Increase in family income	Basecamp operations	Average family income ≥ Rp. 2,500,000/ month (RLA condition Rp. 2,300,000/ month)	<ol> <li>Prioritize the provision of basecamp operational needs by the local community</li> <li>Prioritize the provision of goods and services for basecamp residents by the local community</li> </ol>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out during basecamp operations	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environmental Service</li> <li>c) Central Jakarta Environmental Service</li> <li>d) North Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>
2c.	Changes in public perceptions and attitudes	Basecamp operations	100% of the community accepts the existence of construction labor activities and basecamp operations	<ol> <li>Communicate and collaborate with the government (district and sub- district) and local community leaders regarding construction labor activities and basecamp operations</li> <li>Open communication with residents regarding construction labor activities and basecamp operations</li> <li>Providing a Complaint Service Post to accommodate public complaints</li> <li>Handling public complaints using the following mechanism:         <ul> <li>Grievance</li> <li>Grievance Post and Registered</li> <li>Sub-District</li> <li>Destrict</li> <li>Service Post</li> <li>Sub-District</li> <li>Besue Type B Math right convey the service post with other government authorities</li> </ul> </li> <li>Complainant service post with rembers with other government authorities</li> <li>Complainant service post with received Grievance status as 2 types depending on the relevant Greater at Mair position and supervised by Supervision</li> <li>Sub-District</li> <li>Some Parties that might grievances</li> <li>Complainant service post with rembers with other government authorities</li> <li>Complainant service post with received Grievance status as 2 types depending on the relevant great Affair position and supervised by Supervision</li> </ol>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out during basecamp operations	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> </ul>

consultant as Environmen Social position and DGR representative persons.

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				<ul> <li><u>Source of Complaints</u>         Parties who may submit complaints: individuals (community), sub- districts/districts and other government authorities         <u>Complaint Service Post</u>         Providing a Complaints Service Post at each stage of activity with the contractor as General Affairs and HSE supervised by the Supervisory Consultant as the representative in charge of the activity.         <u>Complaint Verification</u>         Complaint Service Post members verify the status of complaints received:         • Category A: Problems that can be repaired and resolved by contractors in the field         • Category B: Issues that must be coordinated with other government authorities         <u>Complaint Follow-up</u>         • Category A: Followed up by the contractor within a certain time based on agreement with the Community         • Category B: Followed up by the contractor in coordination with the relevant government agency         <u>Complaint Resolution</u>         The settlement process will involve the party submitting the complaint to obtain an official cattlement agreement     </li> </ul>			c) Central Jakarta Environment Department d) North Jakarta Environment Department
3.	Mobilization of C	onstruction Equipme	nt and Materials	obtain an official settlement agreement.			
3a.	Decreased air	Mobilization of	Parameters:	1. Carrying out construction equipment and materials using covered	Transport routes for	Over	Executor:
	quality	construction equipment and materials	TSP $\leq 230 \ \mu g/m^3$ PM10 $\leq 75 \ \mu g/m^3$ PM2.5 $\leq 55 \ \mu g/m^3$ SO2 $\leq 4900 \ \mu g/m^3$ CO $\leq 75 \ \mu g/m^3$ NO2 $\leq 65 \ \mu g/m^3$ HC $\leq 160 \ \mu g/m^3$ HC $\leq 160 \ \mu g/m^3$	<ul> <li>transport vehicles and using designated roads.</li> <li>Set a maximum vehicle speed of 40 km/hour by placing supervisory officers.</li> <li>Limiting transportation time to 22.00 – 04.00 WIB by placing supervisory officers.</li> </ul>	construction equipment and materials: • Jl. S. Parman • Jl. KH Hasyim Ashari • Jl. Kebon Sirih • Jl. Eastern Cendeng • Jl. Letjen Suprapto • Jl. Perintis Kemerdekaan • Jl. Raya Bekasi • Jl. Kali Abang Tengah • Jl. BKT inspection	timeconstruction	be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service <b>Report Recipient:</b> a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department f) North Jakarta Environment Department

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
							<ul><li>g) East Jakarta Environment</li><li>Department</li><li>h) Bekasi City Environmental</li><li>Service</li></ul>
3b.	Increased noise	Mobilization of construction equipment and materials	Noise levels in residential areas do not exceed 65 dB(A) (according to RLA conditions)	<ol> <li>Set a maximum vehicle speed of 40 km/hour by placing supervisory officers.</li> <li>Limiting transportation time to 22.00 – 04.00 WIB by placing supervisory officers.</li> <li>Limit heavy equipment activity from 08.00 – 16.00 WIB by placing supervisory officers.</li> <li>Close work areas involving heavy equipment with work fences.</li> </ol>	Transport routes for construction equipment and materials: • Jl. S. Parman • Jl. KH Hasyim Ashari • Jl. Kebon Sirih • Jl. Eastern Cendeng • Jl. Letjen Suprapto • Jl. Perintis Kemerdekaan • Jl. Raya Bekasi • Jl. Kali Abang Tengah • Jl. BKT inspection	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contractor "</li> <li>under executor</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul> Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul></li></ul>
3с.	Increased prevalence of ARI	Mobilization of construction equipment and materials	AKI prevalence ≤ 15% (RLA condition 14.69%)	Collaborate with local health centers in improvement activitiesPowercommunity resilience in the form of assistance with healthy food, medication and vitamins	<ul> <li>Ex. Iomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Harapan Mulia</li> <li>Ex. Cempaka Baru</li> <li>Ex. Sumur Batu</li> </ul>	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> </ul> </li> </ul>

r	Managed Io Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
					<ul> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Pulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>		<ul> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental</li> </ul></li></ul>
3	d. Changes in public perceptions and attitudes	Mobilization of construction equipment and materials	100% of the community accepts the mobilization of construction equipment and materials	<ol> <li>Communicate and collaborate with the government (district and sub- district) and local community leaders regarding mobilization activities for construction equipment and materials</li> <li>Open communication with residents regarding mobilization of construction equipment and materials</li> <li>Providing a Complaint Service Post to accommodate public complaints</li> <li>Handling public complaints using the following mechanism:</li> </ol> Grievance Orievance Post and Orievance Verification Orievance Followed-up Action Registered Verification Community Service Post to accommodate public complaints using the followed up by contractor on the community of the service Post and Orievance Complaints (Service Persons Complaints Using the followed up by contractor or the service Post and Community Service Post at the service Post at the service Complaints Service Post and Community Service Post at each stage of activity with the contractor as General Affairs and HSE supervised by the Supervisory Consultant as the representative in charge of the activity. Complaint Service Post at each stage of activity with the contractor as General Affairs and HSE supervised by the Supervisory Consultant as the representative in charge of the activity. Complaint Service Post members verify the status of complaints received: <ul> <li>Category A: Problems that can be repaired and resolved by contractors in the field</li> <li>Category A: Problems that can be coordinated with other government authorities</li> </ul>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Kampung Bali</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Kebon Sirih</li> <li>Ex. Koitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Rayu Putih</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Bast Cakung</li> <li>Ex. Rawa Taria</li> <li>Ex. Rava Taria</li> <li>Ex. Raya Nulia</li> <li>Ex. Raya Satria</li> <li>Ex. Rorotan</li> </ul>	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				<ul> <li>Category A: Followed up by the contractor within a certain time based on agreement with the Community</li> <li>Category B: Followed up by the contractor in coordination with the relevant government agency</li> <li><u>Complaint Resolution</u> The settlement process will involve the party submitting the complaint to obtain an official settlement agreement.</li> </ul>			
4.	Earthworks and [	Dewatering					1
4a.	Decreased air quality	Earthworks and dewatering	Parameters: TSP ≤ 230 μg/m <sup>3</sup> PM10 ≤ 75 μg/m <sup>3</sup> PM2.5 ≤ 55 μg/m <sup>3</sup> SO2 ≤ 4900 μg/m <sup>3</sup> CO ≤ 75 μg/m <sup>3</sup> NO2 ≤ 65 μg/m <sup>3</sup> O3 ≤ 100 μg/m <sup>3</sup> HC ≤ 160 μg/m <sup>3</sup>	<ol> <li>Transporting excavated soil using covered transport vehicles and using designated roads.</li> <li>Set a maximum vehicle speed of 40 km/hour by placing supervisory officers.</li> <li>Limiting transportation time to 22.00 – 04.00 WIB by placing supervisory officers.</li> </ol>	Excavated soil transportation route: • Jl. S. Parman • Jl. KH Hasyim Ashari • Jl. Kebon Sirih • Jl. Eastern Cendeng • Jl. Letjen Suprapto • Jl. Perintis Kemerdekaan • Jl. Raya Bekasi • Jl. Kali Abang Tengah • Jl. BKT inspection	During the construction period	Executor: be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry b) DLH DKI Jakarta c) DLH Provincial West Java d) DLH Central Jakarta City e) DLH West Jakarta City f) DLH West Jakarta City g) DLH East Jakarta City h) DLH Bekasi City Report Recipient: a) Ministry of Environment and Forestry b) DLH DKI Jakarta c) DLH Provincial West Java d) DLH Central Jakarta City e) DLH West Jakarta City f) DLH West Jakarta City g) DLH North Jakarta City f) DLH North Jakarta City g) DLH East Jakarta City h) DLH Bekasi City
4b.	Increased noise	Earthworks and dewatering	Noise levels in residential areas do not exceed 65 dB(A) (according to RLA conditions)	<ol> <li>Set a maximum vehicle speed of 40 km/hour by placing supervisory officers.</li> <li>Limiting transportation time to 22.00 – 04.00 WIB by placing supervisory officers.</li> <li>Limit heavy equipment activity from 08.00 – 16.00 WIB by placing supervisory officers.</li> <li>Close work areas involving heavy equipment with work fences.</li> </ol>	Excavated soil transportation routes: JI. S. Parman JI. KH Hasyim Ashari JI. Kebon Sirih JI. Eastern Cendeng JI. Letjen Suprapto JI. Perintis Kemerdekaan JI. Raya Bekasi JI. Kali Abang Tengah JI. BKT inspection	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contractor " under executor</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Manageme
							<ul> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environment Service</li> </ul>
4c.	Increased prevalence of ARI	Earthworks and dewatering	ARI prevalence ≤ 15% (RLA condition 14.69%)	Collaborating with local health centers in activities to increase community immunity in the form of assistance with healthy food, medication and vitamins	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. Bast Kelapa Gading</li> <li>Ex. Kayu Putih</li> <li>Ex. Nawa Terate</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Bast Cakung</li> <li>Ex. Rava Tarate</li> <li>Ex. Medan Satria</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contracted under executor</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environment Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>f) North Jakarta Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>f) North Jakarta Environmental Service</li> <li>g) East Jakarta Environmental Service</li> <li>h) Betasi City Environment</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>f) North Jakarta Environment</li> <li>a) Betasi City Environment</li> <li>b) Betasi City Environment</li> </ul>
4d.	Changes in public perceptions and attitudes	Earthworks and dewatering	100% of the community accepts earthwork and dewatering activities	<ol> <li>Communicate and collaborate with the government (district and sub- district) and local community leaders regarding mobilization activities for construction equipment and materials</li> <li>Open communication with residents regarding mobilization of construction equipment and materials</li> <li>Providing a Complaint Service Post to accommodate public complaints</li> <li>Handling public complaints using the following mechanism:</li> <li>Grievance Grievance Post and Grievance Followed up Action</li> <li>Bue Type A Issue Type A I</li></ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> </ul>	During the construction period	<ul> <li>Executor:</li> <li>be conducted "Contractor under executor</li> <li>Supervisor:</li> <li>a) Ministry of Environmon and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Servic</li> <li>c) West Java Province Environmental Servic</li> <li>d) Central Jakarta</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				<ul> <li>Source of Complaints         Parties who may submit complaints: individuals (community), sub- districts/districts and other government authorities         Complaint Service Post         Providing a Complaints Service Post at each stage of activity with the contractor as General Affairs and HSE supervised by the Supervisory Consultant as the representative in charge of the activity.         Complaint Verification         Complaint Service Post members verify the status of complaints received:         Category A: Problems that can be repaired and resolved by contractors in the field         Category B: Issues that must be coordinated with other government authorities         Complaint Follow-up         Category A: Followed up by the contractor within a certain time based on agreement with the Community         Category B: Followed up by the contractor in coordination with the relevant government agency         Complaint Resolution         The settlement process will involve the party submitting the complaint to obtain an official settlement agreement.     </li> </ul>	<ul> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Harapan Mulia</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cumpaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cast Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Fast Kelapa Gading</li> <li>Ex. Rayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>		<ul> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> </ul>
5.	Underground Cor	struction Work	I		I	1	
5a.	Increased noise	Underground construction work	Noise levels in residential areas do not exceed 65 dB(A) (according to RLA conditions)	<ol> <li>Limit heavy equipment activity from 08.00 – 16.00 WIB by placing supervisory officers.</li> <li>Close work areas involving heavy equipment with work fences.</li> </ol>	Underground station construction site: • Roxy • Petojo • Cideng • Thamrin • Kebon Sirih • Kwitang • Senen • Galur	During the construction period	Executor: be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department

	Managad		Success Indicators				
No	Environmental Impact	Impact Source	Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
							<ul> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
6.	Ground Surface C	Construction Work					
6a.	Increased noise	Construction work at ground level	Noise levels in residential areas do not exceed 65 dB(A) (according to RLA conditions)	<ol> <li>Limit heavy equipment activity from 08.00 – 16.00 WIB by placing supervisory officers.</li> <li>Close work areas involving heavy equipment with work fences.</li> </ol>	Elevated station construction site: • Tomang • Grogol • Cempaka Baru • Sumur Batu • West Pakulonan • East Pakulonan • Perintis • Pulo Gadung • Milling • West Cakung • Pulo Gebang • Ujung Menteng • Medan Satria • and the Rorotan Depot construction site	During the construction period	Executor: be conducted "Contractor " under executor Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service <b>Report Recipient:</b> a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta
							Service
	OPERATIONAL ST	AGE					
<b>1.</b>	Acceptance of Op	Acceptance of	Local workers involved as	1 Posting ich vacancy announcements at sub-district and sub-district	• Fx Tomang	• The announcement	Executor:
	opportunities	operational workforce	workers are a minimum of 20% of the 1,120 operational workforce requirements	<ul> <li>offices, including the number of workers required, qualifications, time and place of registration, place and date of the selection process, date and place of announcement of workers accepted</li> <li>Communicate and collaborate with the government (district and sub-district) and local community leaders in workforce recruitment activities</li> </ul>	<ul> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> </ul>	<ul> <li>is made once at the initial recruitment of workers</li> <li>Communication and collaboration with residents</li> </ul>	Operation Agency Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				<ul> <li>3. Prioritize hiring workers from residents of 31 local sub-districts of at least 20% of the 1,120 operational workforce needs with the following conditions: <ul> <li>If the number of applicants who meet the qualifications exceeds the quota, it can be considered that the number of local workers recruited will be more than 20%.</li> <li>On the other hand, if the 31 local sub-districts have not met the quota, then the need for construction workers can be met from other sub-districts in the 13 sub-districts and/or from 5 cities within the MRT-EWLP1S1 development area.</li> </ul> </li> </ul>	<ul> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cast Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Kayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	community leaders and local government is carried out during the workforce recruitment process	<ul> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>pepartment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1b.	Increase in family income	Acceptance of operational workforce	Average family income ≥ Rp. 2,500,000/month (RLA condition Rp. 2,300,000/month)	<ol> <li>Make a Specific Time Work Agreement (PKWT) or Indefinite Time Work Agreement (PKWTT) for each worker</li> <li>Insuring all workers under BPJS Employment and BPJS Health</li> <li>Providing work wages in accordance with applicable regulations (referring to the Regional Minimum Wage) and agreed in the PKWT or PKWTT</li> </ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih</li> <li>Ex. East Cempaka Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Medan Satria</li> </ul>	<ul> <li>PKWT or PKWTT is made once at the initial recruitment of workers</li> <li>Wages and labor insurance are provided during work</li> </ul>	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
					• Ex. Rorotan		<ul> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental</li> <li>Service</li> </ul>
1c.	Changes in public perceptions and attitudes	Acceptance of operational workforce	100% of the community accepts the results of the operational workforce recruitment process	<ol> <li>Prioritize the recruitment of construction workers from residents of 31 local sub-districts of at least 20%1,120Construction labor requirements. If the number of applicants who meet the qualifications exceeds the quota, it can be considered that the number of local workers recruited will be more than 20%. On the other hand, if the 31 local sub-districts have not met the quota, then the need for construction workers can be met from other sub-districts in the 13 local sub-districts and/or from 5 local cities.</li> <li>Communicate and collaborate with the government (district and sub-district) and local community leaders in workforce recruitment activities</li> <li>Open communication with residents regarding developments in labor recruitment by conveying the number of workers accepted and those not accepted by limiting the acceptance of workers from outside the area</li> <li>Provide Complaint Service Post to accommodate public complaints</li> <li>Conducted Public Complaints Handling with the following mechanism:</li> </ol> Source or compraints Parties who may submit complaints: individuals (community), sub-districts and other government authorities Complaint Service Post at each stage of activity with the operator as General Affairs and HSE as the representative in charge of the activity. Complaint Verification Complaint Service Post members verify the status of complaints received: <ul> <li>Category B: Issues that must be coordinated with other government authorities</li> <li>Complaint Fervice Post members verify the status of complaints received:</li> <li>Category B: Followed up by the contractor within a certain time based on agreement with the Community</li> <li>Category B: Followed up by the contractor in coordination with the relevant government agency</li> <li>Complaint Resolution</li> </ul>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih</li> <li>Ex. Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Rayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Bat Cakung</li> <li>Ex. Rava Tarata</li> <li>Ex. Rava Terata</li> <li>Ex. Rorotan</li> </ul>	Done during the processlabor recruitment	Service Executor: Operation Agency Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service
2.	Passenger Transp	ortation and Station	Operations		1	1	
2a.	Open business opportunities	Transportation of passengers and station operations	The minimum number of local community businesses involved in providing station operational needs is 5 business units	<ol> <li>Providing opportunities for local communities to collaborate in providing station operational needs</li> <li>Providing opportunities for local communities to become providers of goods and services to support station operations</li> </ol>	MRT Station: • Tomang • Grogol • Roxy • Petoio	Carried out during station operations	Executor: Operation Agency Supervisor: a) Ministry of Environment and Forestry

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
				3. Providing local communities with the opportunity to become tenants in the MSME space at each station	<ul> <li>Cideng</li> <li>Thamrin</li> <li>Kebon Sirih</li> <li>Kwitang</li> <li>Senen</li> <li>Galur</li> <li>Cempaka Baru</li> <li>Sumur Batu</li> <li>West Pakulonan</li> <li>East Pakulonan</li> <li>Perintis</li> <li>Pulo Gadung</li> <li>Milling</li> <li>West Cakung</li> <li>Pulo Gebang</li> <li>Ujung Menteng</li> <li>Medan Satria</li> </ul>		<ul> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) Sast Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>f) Bekasi City Environmental Service</li> </ul>
2b.	Increase in family income	Transportation of passengers and station operations	Average family income ≥ Rp. 2,500,000/ month (RLA condition Rp. 2,300,000/ month)	<ol> <li>Prioritize the provision of station operational needs by the local community</li> <li>Prioritize the provision of goods and services to support station operations by local communities</li> </ol>	MRT Station: • Tomang • Grogol • Roxy • Petojo • Cideng • Thamrin • Kebon Sirih • Kwitang • Senen • Galur • Cempaka Baru • Sumur Batu • West Pakulonan • East Pakulonan • East Pakulonan • Perintis • Pulo Gadung • Milling • West Cakung • Pulo Gebang • Ujung Menteng • Medan Satria	Carried out during station operations	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Environmental Management Location	Environmental Management Period	Environmental Management Institution
							<ul> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
2c.	Changes in public perceptions and attitudes	Transportation of passengers and station operations	100% of the public accepts passenger transport activities and station operations	<ol> <li>Communicate and collaborate with the government (district and sub- district) and local community leaders regarding passenger transport activities and station operations</li> <li>Open communication with residents regarding passenger transport activities and station operations</li> <li>Providing a Complaint Service Post to accommodate public complaints</li> <li>Handling public complaints using the following mechanism:</li> <li> <b>Givense Sums</b> Rejetation Couplint Verification Couplint Following activity         <b>Bedref Source of Complaints</b> </li> <li>Parties who may submit complaints: individuals (community), sub- districts/districts and other government authorities     </li> <li> <b>Complaint Service Post</b> </li> <li>Providing a Complaint Service Post at each stage of activity with the operator as General Affairs and HSE as the representative in charge of the activity.     </li> <li> <b>Complaint Service Post</b> at each stage of activity with the operator as General Affairs and HSE as the representative in charge of the activity.     </li> <li> <b>Complaint Service Post</b> members verify the status of complaints received:         <ul> <li>Category A: Problems that can be repaired and resolved by operator in the field</li> <li>Category B: Issues that must be coordinated with other government authorities</li> </ul> </li> <li> <b>Complaint Follow-up</b> </li> <li>Category B: Followed up by the contractor within a certain time based on agreement with the Community     </li> <li>Category B: Followed up by the contractor in coordination with the relevant government agency     </li> <li>Complaint Resolution</li> <li>         The settlement process will involve the party submitting the complaint to obtain an official settlement agreement.     </li> </ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Kast Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Kayu Putih</li> <li>Ex. Nawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Bast Cakung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Rorotan</li> </ul>	Carried out during station operations	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> </ul> </li> <li>b) DKI Jakarta Provincial <ul> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta <ul> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta <ul> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta Provincial</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) Beast Jakarta Environment</li> <li>g) East Jakarta Environment</li> </ul> </li> </ul></li></ul>

				Table 2.2. Other Environmental Impact Management Plans			
	Managed		Success Indicators		Management	Environmental	Environmontal
No	Environmental	Impact Source	Management of the	Forms of Environmental Management	Location	Management Period	Management Institution
	Impact		environment		Environment	Wanagement renou	Wanagement institution
I	CONSTRUCTION	STAGE	•		·		
1.	Basecamp Opera	tions					
<b>1.</b> 1a.	Basecamp Opera Increased disease vectors	tions Waste water from basecamp operations	No waste water is discharged into the environment around each basecamp location	<ol> <li>Providing portable toilets equipped with septic tanks at each basecamp location:         <ul> <li>Basecamp Depot 10 toilets, 6 bathrooms, 2 15 m<sup>3</sup> septic tanks</li> <li>Underground Basecamp 40 toilets, 24 bathrooms, 4 25 m<sup>3</sup> septic tanks</li> <li>Basecamp Elevated 40 toilets, 24 bathrooms, 4 25 m<sup>3</sup> septic tanks</li> </ul> </li> <li>Carrying out regular waste water suction in collaboration with PD PAL Jaya.</li> </ol>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out during basecamp operations	<ul> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Provincial Environmental Service</li> </ul> </li> </ul></li></ul>
1b.	Increased disease vectors	Waste from basecamp operations	There is no litter in the environment around each basecamp location	<ol> <li>Providing segregated waste bins (organic waste and inorganic waste) and Temporary Storage Places (TPS) in the form of container boxes at each basecamp location         <ul> <li>Basecamp Depot</li> <li>1 TPS unit 2 m<sup>3</sup></li> <li>Underground Basecamp</li> <li>1 TPS unit 6 m<sup>3</sup></li> </ul> </li> <li>Basecamp Elevated</li> <li>1 TPS unit 6 m<sup>3</sup></li> <li>Transporting waste to the landfill no later than once every 2 days in collaboration with the DKI Jakarta Government</li> </ol>	Basecamp Depot Rorotan Village     Underground Basecamp Ex. Pegangsaan Dua     Basecamp Elevated Duri Pulo Village     vertilitation of the second of	Carried out during basecamp operations	<ul> <li>d) North Jakarta Environment Department</li> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environment Department</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul> </li> </ul>
10.	disease vectors	basecamp operations	accordance with Minister of Environment and Forestry Regulation No. 6 of 2021 concerning Procedures for Requirements and Management of B3 Waste	<ul> <li>L. Carry out packaging of B3 waste:</li> <li>Plastic containers (60 L) for B3 waste in the form of used batteries and used cloth</li> <li>Iron drum (200 L) for B3 waste in the form of used lubricating oil</li> <li>Jumbo bag (100 L) for B3 waste in the form of electronic waste and used filters from air pollution control facilities</li> <li>Install B3 waste labels and symbols on each B3 waste package in accordance with the characteristics of B3 waste</li> <li>Carrying out LB3 storage in accordance with the provisions:</li> <li>The maximum storage time for used batteries is 180 days</li> </ul>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	carried out during basecamp operations	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ul> <li>The maximum storage time for used rags is 365 days</li> <li>The maximum storage time for used lubricating oil is 365 days</li> <li>The maximum storage time for electronic waste is 365 days</li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> <li>Providing temporary storage for non-permanent B3 waste (TPS LB3) at each basecamp location with dimensions of 2 x 2.5 x 3m.</li> <li>Carrying out LB3 transportation every 180 days for further handling in collaboration with a third party who has an LB3 transportation permit from the MINISTRY OF ENVIRONMENT AND FORESTRY.</li> </ul>			<ul> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul> </li> </ul>
2.	Mobilization of Co	onstruction Equipme	ent and Materials	·		•	
2a.	Decreased traffic performance	Mobilization of construction equipment and materials	Traffic performance (Vc ratio value) does not exceed 1.37	<ul> <li>Carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including:</li> <li>1. Carrying out outreach to the community along the MRT-EWLP1S1 construction site route and the wider community</li> <li>2. Close the work area in the middle of the road with a work fence, so that traffic flow is not disturbed by the process of carrying out the MRT-EWLP1S1 construction work.</li> <li>3. Carry out station construction work in stages for each side of the building, so as not to block the entire road at the station construction site.</li> <li>4. Limiting heavy vehicle operating hours to 22.00 – 04.00 WIB.</li> <li>5. Providing lay-by for four-wheeled vehicles for passenger drop off/pick up locations with a minimum length of 100 meters in each MRT-EWLP1S1 construction area.</li> <li>6. Providing adequate pedestrian paths and road crossing facilities along the MRT-EWLP1S1 construction site.</li> <li>7. Operational adjustments and affected Transjakarta Bus stops during the construction period. One way is to redesign bus stops or shift existing bus stops.</li> <li>8. Resetting signals at intersections to reduce queues and improve intersection performance.</li> <li>9. Clarify road markings, ensure street lighting functions properly and add nostop signs at traffic jam points along the MRT-EWLP1S1 construction site route.</li> <li>10. Implementing a right turn ban at every intersection on the MRT-EWLP1S1 construction site during the construction period in order to reduce vehicle volume density that occurs during peak hours (morning and evening).</li> <li>12. Additional Transjakarta Bus frequency specifically for the MRT-EWLP1S1 construction area to divert the movement of people who will use this route using public transportation.</li> <li>13. Provide warning signs or notifications to avoid road sections affected by MRT-EWLP1S1 construction work.</li> <li>14. Divert traffic flow via alternative route routes on diverted road sections.</li> <li>15. Sterilization and</li></ul>	<ul> <li>JI. Letjen S. Parman,</li> <li>JI. Kyai Tapa,</li> <li>JI. Dr Susilo Raya</li> <li>JI. Dr Susilo Raya</li> <li>JI. KH. Hashim, Ash'ari,</li> <li>JI. East Cideng,</li> <li>JI. West Cideng</li> <li>JI. East Cideng</li> <li>JI. Jati Baru Raya</li> <li>JI. Kebon Sirih</li> <li>JI. Kramat Kwitang</li> <li>JI. Letjen Suprapto</li> <li>JI. Perintis Kemerdekaan</li> <li>JI. Central Kaliabang</li> <li>JI. Sultan Agung</li> <li>JI. BKT inspection</li> </ul>	Carried out every day during the mobilization of construction equipment and materials	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) Ministry of Transportation c) DKI Jakarta Provincial Environmental Service d) West Java Province Environmental Service e) Central Jakarta Environment Department f) West Jakarta Environment Department g) North Jakarta Environment Department h) East Jakarta Environment Department i) West Jakarta Environment h) East Jakarta Environment Department i) Bekasi City Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
2b.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment)	Mobilization of construction equipment and materials	100% of public complaints regarding environmental disturbances (dust, noise and sediment piles) are handled according to established mechanisms	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notifications to the surrounding community prior to the implementation of each stage/work of the MRT-EWLP1S1 construction.</li> <li>Providing a Complaint Service Post to accommodate public complaints regarding the implementation of each stage/construction work of the MRT-EWLP1S1.</li> <li>Informing the existence of the Complaints Service Post (with telephone number, email and contact person information) to the local community.</li> <li>Handling public complaints using the following mechanism:         <ul> <li>Grievance</li> <li>Grievance Post and Registered</li> <li>Service Post and Registered vision and the redressed vision a</li></ul></li></ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Kampung Bali</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Kelapa Gading</li> <li>Ex. Rast Cempaka Putih</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Pulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	Carried out every day during the mobilization of construction equipment and materials	<ul> <li>Executor:</li> <li>Construction Contractor</li> <li>under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul></li></ul>
2c.	There are traffic jams	Mobilization of construction equipment and materials	There are no traffic jams	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notification to the surrounding community regarding the implementation of each stage/work of the MRT-EWLP1S1 construction which will disrupt the smooth flow of traffic.</li> <li>Submitting notification of diverting traffic flow via alternative roads on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Deploy officers to regulate traffic, especially during peak hours (06.30 - 08.30 WIB and 16.00 - 18.30 WIB).</li> </ol>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Jati Baru Raya</li> </ul>	Carried out every day during the mobilization of construction equipment and materials	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
					<ul> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>		<ul> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
3.	Land Clearing and	d Relocation of Publi	c Facilities/Utilities	· · · · · · · · · · · · · · · · · · ·		1	1
За.	Decreased traffic performance	Land clearing and relocation of public facilities/utilities	Traffic performance (Vc ratio value) does not exceed 1.37	<ul> <li>Carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including:</li> <li>1. Carrying out outreach to the community along the MRT-EWLP1S1 construction site route and the wider community</li> <li>2. Close the work area in the middle of the road with a work fence, so that traffic flow is not disturbed by the process of carrying out the MRT-EWLP1S1 construction work.</li> <li>3. Carry out station construction work in stages for each side of the building, so as not to block the entire road at the station construction site.</li> <li>4. Limiting heavy vehicle operating hours to 22.00 – 04.00 WIB.</li> <li>5. Providing lay-by for four-wheeled vehicles for passenger drop off/pick up locations with a minimum length of 100 meters in each MRT-EWLP1S1 construction area.</li> <li>6. Providing adequate pedestrian paths and road crossing facilities along the MRT-EWLP1S1 construction site.</li> <li>7. Operational adjustments and affected Transjakarta Bus stops during the construction period. One way is to reduce queues and improve intersection performance.</li> <li>9. Clarify road markings, ensure street lighting functions properly and add nostop signs at traffic jam points along the MRT-EWLP1S1 construction site route.</li> <li>10. Implementing a right turn ban at every intersection on the MRT-EWLP1S1 construction route, to avoid crossings that occur at that intersection.</li> </ul>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Cr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. Bast Cideng</li> <li>Jl. Letigen Suprapto</li> <li>Jl. Verintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>	Carried out every day during land clearing activities and relocation of public facilities/utilities	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) Ministry of Transportation

N	Managed o Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ol> <li>Implementing an odd-even system on roads at the MRT-EWLP1S1 construction site during the construction period in order to reduce vehicle volume density that occurs during peak hours (morning and evening).</li> <li>Additional Transjakarta Bus frequency specifically for the MRT-EWLP1S1 construction area to divert the movement of people who will use this route using public transportation.</li> <li>Provide warning signs or notifications to avoid road sections affected by MRT-EWLP1S1 construction work.</li> <li>Divert traffic flow via alternative roads (Table 2.34.) on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Provide signs indicating alternative route routes on diverted road sections.</li> <li>Sterilization and improvement of alternative routes, in the form of resurfacing, marking repairs, and other potential improvements.</li> <li>Parking management on construction routes and alternative routes, to ensure parking availability and support community activities around the project. Provide several on street parking points in each construction area.</li> <li>Controlling sidewalks and side obstacles by officers, so that road capacity and supporting facilities can be used optimally.</li> </ol>			<ul> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment Department</li> <li>i) Bekasi City Environmental Service</li> </ul>
31	<ul> <li>Decreased density of land vegetation</li> </ul>	Land clearing and relocation of public facilities/utilities	The removal and/or felling and replacement of protective trees is carried out in accordance with the felling permit from the authorized agency.	<ol> <li>Carry out the removal and/or felling and replacement of protective trees after obtaining a felling permit from the authorized agency.</li> <li>Replanting shade trees that are removed and/or planting replacements for trees that are cut down as part of landscaping work in locations that have been determined according to permission from the competent authority</li> </ol>	Construction location: • MRT Station: Tomang; Grogol; Roxy; Petojo; Cideng; Thamrin; Kebon Sirih; Kwitang; Senen; Galur; Cempaka Baru; Sumur Batu; West Pakulonan; East Pakulonan; East Pakulonan; Perintis; Pulo Gadung; Milling; West Cakung; Pulo Gebang; Ujung Menteng; Medan Satria • Rorotan Depot • Elevated path • Underground route	Planting is done once with maintenance carried out every day	<ul> <li>Executor:</li> <li>Construction Contractor</li> <li>under DJKA</li> <li>Supervisor:</li> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
3c.	Increased runoff water discharge	Land clearing and relocation of public facilities/utilities	No flooding occurred	<ol> <li>Regulate MRT-EWLP1S1 construction activities so as not to disturb drainage channels by placing supervisory officers.</li> <li>Create drainage channels in work areas that have the potential to cause puddles.</li> <li>Coordinate with the Public Works Department to repair drainage channels affected by MRT-EWLP1S1 construction activities.</li> </ol>	Construction location: • MRT Station: Tomang; Grogol; Roxy; Petojo; Cideng; Thamrin; Kebon Sirih; Kwitang; Senen; Galur; Cempaka Baru; Sumur Batu; West Pakulonan; East Pakulonan; Perintis; Pulo Gadung; Milling; West Cakung; Pulo Gebang; Ujung Menteng; Medan Satria • Rorotan Depot • Elevated path • Underground route	Carried out during land clearing activities and relocation of public facilities/utilities	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service
3d.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Land clearing and relocation of public facilities/utilities	100% of public complaints regarding environmental disturbances (dust, noise and sediment piles) are handled according to established mechanisms	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notifications to the surrounding community prior to the implementation of each stage/work of the MRT-EWLP1S1 construction.</li> <li>Providing a Complaint Service Post to accommodate public complaints regarding the implementation of each stage/construction work of the MRT- EWLP1S1.</li> <li>Informing the existence of the Complaints Service Post (with telephone number, email and contact person information) to the local community.</li> <li>Handling public complaints using the following mechanism:</li> </ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. Cideng</li> <li>Ex. Couth Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Sumur Batu</li> </ul>	Carried out every day during land clearing and relocation of public facilities/utilities	<ul> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> </ul> </li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				Grievance Source       Grievance Registered       Grievance Verification       Grievance Followed.up Action       Resolved         Persons       Grievance Sub-District       Followed.up by contractor in field       Followed.up by contractor with community       Followed up by contractor with community         Other Covernment Authorities       Complaint service post Post       Followed up by contractor with community       Followed up by contractor with community         Some Parties convey the grievance       Complaint service post Followed up by contractor with community       Followed up by contractor with community       Followed up by contractor with community         Some Parties convey the grievance       Complaint service post Followed up by contractor with community       Followed up by contractor with community         Source of Complaints       Complaint service post Goneal Attrip contion and supervised by Supervised the involvement he authorities       Resolve process with be involved the provised parties in our presentative post.         Source of Complaints       Source of Complaints       Followed up by contractor with community         Parties who may submit complaints:: individuals (community), sub- districts/districts and other government authorities       Resolve process with be involved the providue gries of the growing a Complaints Service Post Providing a Complaints Service Post at each stage of activities.         Providing a Complaints Service Post Environmental damage monitoring team as representatives of the government and society Complaint Verification <td><ul> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Negangsaan Dua</li> <li>Ex. Nulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul></td> <td></td> <td><ul> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul></li></ul></td>	<ul> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Negangsaan Dua</li> <li>Ex. Nulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>		<ul> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul></li></ul>
Зе.	There are traffic jams	Land clearing and relocation of public facilities/utilities	There are no traffic jams	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notification to the surrounding community regarding the implementation of each stage/work of the MRT-EWLP1S1 construction which will disrupt the smooth flow of traffic.</li> <li>Submitting notification of diverting traffic flow via alternative roads on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Deploy officers to regulate traffic, especially during peak hours (06.30 - 08.30 WIB and 16.00 - 18.30 WIB).</li> </ol>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Jati Baru Raya</li> <li>Jl. Jati Baru Raya</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>	Carried out every day during land clearing and relocation of public facilities/utilities	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
							<ul> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental</li> </ul></li></ul>
4.	Earthworks and D	Dewatering					Service
4a.	Decreased traffic performance	Earthworks and dewatering	Traffic performance (Vc ratio value) does not exceed 1.37	<ul> <li>Carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including:</li> <li>1. Carrying out outreach to the community along the MRT-EWLP1S1 construction site route and the wider community</li> <li>2. Close the work area in the middle of the road with a work fence, so that traffic flow is not disturbed by the process of carrying out the MRT-EWLP1S1 construction work.</li> <li>3. Carry out station construction work in stages for each side of the building, so as not to block the entire road at the station construction site.</li> <li>4. Limiting heavy vehicle operating hours to 22.00 – 04.00 WIB.</li> <li>5. Providing lay-by for four-wheeled vehicles for passenger drop off/pick up locations with a minimum length of 100 meters in each MRT-EWLP1S1 construction area.</li> <li>6. Providing adequate pedestrian paths and road crossing facilities along the MRT-EWLP1S1 construction site.</li> <li>7. Operational adjustments and affected Transjakarta Bus stops during the construction period. One way is to redesign bus stops or shift existing bus stops.</li> <li>8. Resetting signals at intersections to reduce queues and improve intersection performance.</li> <li>9. Clarify road markings, ensure street lighting functions properly and add nostop signs at traffic jam points along the MRT-EWLP1S1 construction site route.</li> <li>10. Implementing a right turn ban at every intersection on the MRT-EWLP1S1 construction site during the construction period in order to reduce vehicle volume density that occurs during peak hours (morning and evening).</li> <li>12. Additional Transjakarta Bus frequency specifically for the MRT-EWLP1S1 construction work.</li> <li>13. Provide warning signs or notifications to avoid road sections affected by MRT-EWLP1S1 construction work.</li> <li>14. Divert traffic flow via alternative roads (Table 2.34.) on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>15. Provide signs indicating alternative routes on diverted</li></ul>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Jati Baru Raya</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>	Done every day during pEarthworks and dewatering	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) Ministry of Transportation c) DKI Jakarta Provincial Environmental Service d) West Java Province Environmental Service e) Central Jakarta Environment Department f) West Jakarta Environment Department g) North Jakarta Environment Department h) West Jakarta Environment Department g) North Jakarta Environment Department h) East Jakarta Environment Department h) East Jakarta Environment Department h) East Jakarta Environment

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ol> <li>Parking management on construction routes and alternative routes, to ensure parking availability and support community activities around the project. Provide several on street parking points in each construction area.</li> <li>Controlling sidewalks and side obstacles by officers, so that road capacity and supporting facilities can be used optimally.</li> </ol>			i) Bekasi City Environmental Service
4b	. Increased vibration	Earthworks and dewatering	<ul> <li>Vibration levels do not exceed:</li> <li>2 mm/sec at a frequency of 4 Hz</li> <li>7.5 mm/second at a frequency of 5 Hz</li> <li>7 mm/sec at a frequency of 6.3 Hz</li> <li>6 mm/sec at a frequency of 8 Hz</li> <li>5.2 mm/second at a frequency of 10 Hz</li> <li>4.8 mm/second at a frequency of 12.5 Hz</li> <li>4 mm/sec at a frequency of 16 Hz</li> <li>3.8 mm/second at a frequency of 20 Hz</li> <li>3.2 mm/second at a frequency of 31.5 Hz</li> <li>2 mm/sec at a frequency of 40 Hz</li> <li>1 mm/second at a frequency of 50 Hz</li> </ul>	<ol> <li>Carrying out earthworks for construction on the ground surface using the drill pile method using a drilling auger machine which directly installs a protective casing at the same time as a structural retaining wall and reduces vibrations.</li> <li>Carrying out earthworks for underground station construction begins with installing a guide wall (G-wall) &amp; diaphragm wall (D-wall) as a retaining wall for the station structure and reducing vibrations.</li> <li>Carrying out underground tunnel excavations with an earth pressure balance (TBM-EPB) type tunnel boring machine which directly lines the tunnel walls with concrete at the same time as a retaining wall for the tunnel structure and reduces vibrations.</li> <li>Regulate the speed of TBM-EPB movement by placing supervisory officers (geologists).</li> </ol>	<ul> <li>Location of earthworks for elevated (pier) construction</li> <li>Earthworks location for underground construction</li> </ul>	Done every day during pEarthworks and dewatering	<ul> <li>Executor:</li> <li>Construction Contractor</li> <li>under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> </ul>
4c.	Decrease in ground water level	Earthworks and dewatering	There was no decrease in the ground water level (TMAT) of more than 3 m from the TMAT in the initial environmental baseline conditions in residents' wells around the underground segment earthworks location	<ol> <li>Carrying out earthworks for underground station construction begins with the installation of a guide wall (G-wall) &amp; diaphragm wall (D-wall) which functions as a retaining wall for the station structure and groundwater seepage (design criteria for water leakage ratio ≤ 0.12 L/m2. day and every 10 m ≤ 0.20 L/m2.day)</li> <li>Carry out underground tunnel excavations with an EPB type Tunnel Boring Machine (TBM) which immediately lines the tunnel walls with concrete at the same time to prevent leaks and groundwater seepage (design criteria for water leakage ratio ≤ 0.12 L/m2.day and every 10 m ≤ 0.20 L/m2.day), and has features to control soil flow and water pressure around the tunnel.</li> </ol>	Earthworks location for underground construction	Performed daily during earthworks and dewatering	<ul> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> </ul> </li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
							<ul> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>b) Ekasi City Environmental Service</li> </ul> </li> </ul>
4d.	Decreased groundwater quality	Earthworks and dewatering	Groundwater quality parameters: • Temperature $\pm$ 3°C 1) • pH 6.5 – 8.5 1) • No smell 1) • Color $\leq$ 10 TCU 1)) • TDS $\leq$ 988 mg/L 2) • Turbidity $\leq$ 3 mg/L1) • Fe $\leq$ 0.2 mg/L 1) • Mn $\leq$ 3 mg/L 2) • Cr VI $\leq$ 0.01 mg/L 1) • NO2 $\leq$ 3 mg/L 1) • NO3 $\leq$ 20 mg/L 1) • E.Coli $\leq$ 0 CFU/100 mL1) • Total Coliform $\leq$ 50 CFU/100 mL2) ML2) Information : <sup>1</sup> Republic of Indonesia Minister of Health Regulation No. 2 of 2023 <sup>2</sup> Initial environmental baseline conditions	<ol> <li>Providing a dewatering water storage pond</li> <li>Carrying out dewatering water periodically in collaboration with the PAL Jaya Regional Company.</li> </ol>	Earthworks location for underground construction	Performed daily during earthworks and dewatering	Executor:         Construction Contractor         under DJKA         Supervisor:         a) Ministry of Environment         and Forestry         b) DKI Jakarta Provincial         Environmental Service         c) West Java Province         Environmental Service         d) Central Jakarta         Environment Department         e) West Jakarta Environment         Department         f) North Jakarta         Environment Department         g) East Jakarta Environment         Department         h) Bekasi City Environmental         Service         Report Recipient:         a) Ministry of Environment         and Forestry         b) DKI Jakarta Provincial         Environmental Service         c) West Java Province         Environmental Service         d) Central Jakarta         Environmental Service         d) Central Jakarta         Environmental Service         d) Central Jakarta         Environment Department         e) West Jakarta Environment         Department         f) North Jakarta         Environment Department         e) West Jakarta En

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
							<ul><li>g) East Jakarta Environment</li><li>Department</li><li>h) Bekasi City Environmental</li><li>Service</li></ul>
4e.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Earthworks and dewatering	100% of public complaints regarding environmental disturbances (dust, noise, piles of sediment and puddles) are handled according to the established mechanism	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notifications to the surrounding community prior to the implementation of each stage/work of the MRT-EWLPIS1 construction.</li> <li>Providing a Complaint Service Post to accommodate public complaints regarding the implementation of each stage/construction work of the MRT-EWLPIS1.</li> <li>Informing the existence of the Complaints Service Post (with telephone number, email and contact person information) to the local community.</li> <li>Handling public complaints using the following mechanism:         Greater of Registered         Fersons         Fortier of Greatence Post and Contractor Postone and the process of the complaints using the following mechanism:          Greater of Greatence Post and Contractor Postone and the process of the process of</li></ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Kampung Bali</li> <li>Ex. Kabon Sirih</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kamat</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Galur</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Rawa Terate</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	Carried out every day during earthworks and dewatering	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department environment Department f) North Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service
4f.	There are traffic jams	Earthworks and dewatering	There are no traffic jams	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notification to the surrounding community regarding the implementation of each stage/work of the MRT-EWLP1S1 construction which will disrupt the smooth flow of traffic.</li> <li>Submitting notification of diverting traffic flow via alternative roads on the North and South sides of the MRT-EWLP1S1 construction route.</li> </ol>	<ul> <li>JI. Letjen S. Parman,</li> <li>JI. Kyai Tapa,</li> <li>JI. Dr Susilo Raya</li> <li>JI. KH. Hashim, Ash'ari,</li> </ul>	Carried out every day during earthworks and dewatering	Executor: Construction Contractor under DJKA Supervisor:
1	Managed Io Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
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				3. Deploy officers to regulate traffic, especially during peak hours (06.30 - 08.30 WIB and 16.00 - 18.30 WIB).	<ul> <li>JI. East Cideng,</li> <li>JI. West Cideng</li> <li>JI. East Cideng</li> <li>JI. Jati Baru Raya</li> <li>JI. Kebon Sirih</li> <li>JI. Kramat Kwitang</li> <li>JI. Letjen Suprapto</li> <li>JI. Perintis Kemerdekaan</li> <li>JI. Raya Bekasi</li> <li>JI. Central Kaliabang</li> <li>JI. Sultan Agung</li> <li>JI. BKT inspection</li> </ul>		<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) Sast Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) Beast Jakarta Environment</li> <li>g) Beast Jakarta Environment</li> <li>g) East Jakarta Environment</li> </ul>
	5. Underground Co	nstruction Work	1	1	1	1	1
	a. Decreased traffic performance	Underground construction work	Traffic performance (Vc ratio value) does not exceed 1.37	<ul> <li>Carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including: <ol> <li>Carrying out outreach to the community along the MRT-EWLP1S1 construction site route and the wider community</li> <li>Close the work area in the middle of the road with a work fence, so that traffic flow is not disturbed by the process of carrying out the MRT-EWLP1S1 construction work.</li> <li>Carry out station construction work in stages for each side of the building, so as not to block the entire road at the station construction site.</li> <li>Limiting heavy vehicle operating hours to 22.00 – 04.00 WIB.</li> <li>Providing lay-by for four-wheeled vehicles for passenger drop off/pick up locations with a minimum length of 100 meters in each MRT-EWLP1S1 construction area.</li> <li>Providing adequate pedestrian paths and road crossing facilities along the MRT-EWLP1S1 construction site.</li> <li>Operational adjustments and affected Transjakarta Bus stops during the construction period. One way is to redesign bus stops or shift existing bus stops.</li> <li>Resetting signals at intersections to reduce queues and improve intersection performance.</li> <li>Clarify road markings, ensure street lighting functions properly and add no-stop signs at traffic jam points along the MRT-EWLP1S1 construction site route.</li> </ol></li></ul> <li>Implementing a right turn ban at every intersection on the MRT-EWLP1S1 construction stee route.</li>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. Cr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. East Cideng</li> <li>Jl. East Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>	Done every day during punderground construction work	<ul> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> </ul> </li> </ul>

N	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ol> <li>Implementing an odd-even system on roads at the MRT-EWLP1S1 construction site during the construction period in order to reduce vehicle volume density that occurs during peak hours (morning and evening).</li> <li>Additional Transjakarta Bus frequency specifically for the MRT-EWLP1S1 construction area to divert the movement of people who will use this route using public transportation.</li> <li>Provide warning signs or notifications to avoid road sections affected by MRT-EWLP1S1 construction work.</li> <li>Divert traffic flow via alternative roads (Table 2.34.) on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Provide signs indicating alternative route routes on diverted road sections.</li> <li>Sterilization and improvement of alternative routes, in the form of resurfacing, marking repairs, and other potential improvements.</li> <li>Parking management on construction routes and alternative routes, to ensure parking availability and support community activities around the project. Provide several on street parking points in each construction area.</li> <li>Controlling sidewalks and side obstacles by officers, so that road capacity and supporting facilities can be used ontimally.</li> </ol>			<ul> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment Department</li> <li>i) Bekasi City Environmental Service</li> </ul>
55	. Increased vibration	Underground construction work	<ul> <li>Vibration levels do not exceed:</li> <li>2 mm/sec at a frequency of 4 Hz</li> <li>7.5 mm/second at a frequency of 5 Hz</li> <li>7 mm/sec at a frequency of 6.3 Hz</li> <li>6 mm/sec at a frequency of 8 Hz</li> <li>5.2 mm/second at a frequency of 10 Hz</li> <li>4.8 mm/second at a frequency of 12.5 Hz</li> <li>4 mm/sec at a frequency of 16 Hz</li> <li>3.8 mm/second at a frequency of 20 Hz</li> <li>3.2 mm/second at a frequency of 25 Hz</li> <li>3 mm/sec at a frequency of 31.5 Hz</li> <li>2 mm/sec at a frequency of 40 Hz</li> <li>1 mm/second at a frequency of 50 Hz</li> </ul>	<ol> <li>Carrying out earthworks for underground station construction begins with installing a guide wall (G-wall) &amp; diaphragm wall (D-wall) as a retaining wall for the station structure and reducing vibrations.</li> <li>Carrying out underground tunnel excavations with an earth pressure balance (TBM-EPB) type tunnel boring machine which directly lines the tunnel walls with concrete at the same time as a retaining wall for the tunnel structure and reduces vibrations.</li> <li>Regulate the speed of TBM-EPB movement by placing supervisory officers (geologists).</li> </ol>	Earthworks location for underground construction	Done every day during punderground construction work	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service

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5c.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Underground construction work	100% of public complaints regarding environmental disturbances (dust, noise, piles of sediment and puddles) are handled according to the established mechanism	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notifications to the surrounding community prior to the implementation of each stage/work of the MRT-EWLP1S1 construction.</li> <li>Providing a Complaint Service Post to accommodate public complaints regarding the implementation of each stage/construction work of the MRT- EWLP1S1.</li> <li>Informing the existence of the Complaints Service Post (with telephone number, email and contact person information) to the local community.</li> <li>Handling public complaints using the following mechanism:</li> </ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> </ul>	Carried out every day during underground construction work	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department
				Grievance Source       Grievance Post and Registered       Grievance Verification       Grievance Followed-up Action       Resolved         Persons       Issue Type A       Issue Type A       Followed up by contractor within some certain times bade on its agreement with community       Followed up by contractor within some certain times bade on its agreement with community         Other Government Authorities       Complainant service post will be Established at each construction package with membered contractor as General Affair position and Social position and DGR representative persons.       Complaint Service Post moment authorities       Followed up by contractor with coordinated with ber government authorities       Followed up by contractor with coordination to some relevant government authorities such as repairing road, drianage damaged, pipeline etc.         Some Parties that might convey the grievances       Complaints service Post membered contractor as General Affair position and HSE with staff and supervised by Supervision consultant as Environmental Social position and DGR representative persons.       Complaints: individuals (community), sub- dictricts (dictricts, and other government authorities	<ul> <li>Ex. Galur</li> <li>Ex. Harapan Mulia</li> <li>Ex. Cempaka Baru</li> <li>Ex. Sumur Batu</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Pulo Gadung</li> </ul>		<ul> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> </ul></li></ul>
				<ul> <li>Districts/districts and other government authorities</li> <li><u>Complaint Service Post</u></li> <li>Providing a Complaints Service Post at each stage of activities with contractors as General Affairs and HSE supervised by:</li> <li>Supervisory Consultant as the representative in charge of activities.</li> <li>Environmental damage monitoring team as representatives of the government and society</li> <li><u>Complaint Verification</u></li> <li>Complaint Service Post members verify the status of complaints received:</li> <li>Category A: Problems that can be repaired and resolved by contractors in the field</li> <li>Category B: Issues that must be coordinated with other government authorities</li> <li><u>Complaint Follow-up</u></li> <li>Category A: Followed up by the contractor within a certain time based on agreement with the Community.</li> </ul>	<ul> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>		Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service
				<ul> <li>Category B: Followed up by the contractor in coordination with the relevant government agency</li> <li><u>Complaint Resolution</u>         The settlement process will involve the party submitting the complaint to obtain an official settlement agreement.     </li> <li>Givecompensation communities directly affected.</li> </ul>			
d.	There are traffic jams	Underground construction work	There are no traffic jams	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notification to the surrounding community regarding the implementation of each stage/work of the MRT-EWLP1S1 construction which will disrupt the smooth flow of traffic.</li> <li>Submitting notification of diverting traffic flow via alternative roads on the North and South sides of the MRT-EWLP1S1 construction route.</li> </ol>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> </ul>	Carried out every day during underground construction work	Executor: Construction Contractor under DJKA Supervisor:

N	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				3. Deploy officers to regulate traffic, especially during peak hours (06.30 - 08.30 WIB and 16.00 - 18.30 WIB).	<ul> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Jati Baru Raya</li> <li>Jl. Jati Baru Raya</li> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>		<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) Beast Jakarta Environment</li> <li>g) East Jakarta Environment</li> </ul>
6.	Ground Surface C	Construction Work					
6а.	Decreased traffic performance	Construction work on the ground surface	value) does not exceed 1.37	<ul> <li>Carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including: <ol> <li>Carrying out outreach to the community along the MRT-EWLP1S1 construction site route and the wider community</li> <li>Close the work area in the middle of the road with a work fence, so that traffic flow is not disturbed by the process of carrying out the MRT-EWLP1S1 construction work.</li> <li>Carry out station construction work in stages for each side of the building, so as not to block the entire road at the station construction site.</li> <li>Limiting heavy vehicle operating hours to 22.00 – 04.00 WIB.</li> <li>Providing lay-by for four-wheeled vehicles for passenger drop off/pick up locations with a minimum length of 100 meters in each MRT-EWLP1S1 construction site.</li> <li>Providing adequate pedestrian paths and road crossing facilities along the MRT-EWLP1S1 construction site.</li> <li>Operational adjustments and affected Transjakarta Bus stops during the construction period. One way is to reduce queues and improve intersection performance.</li> <li>Clarify road markings, ensure street lighting functions properly and add nostop signs at traffic jam points along the MRT-EWLP1S1 construction site</li> </ol></li></ul>	<ul> <li>JI. Letjen S. Parman,</li> <li>JI. Kyai Tapa,</li> <li>JI. Dr Susilo Raya</li> <li>JI. Dr Susilo Raya</li> <li>JI. KH. Hashim, Ash'ari,</li> <li>JI. East Cideng,</li> <li>JI. West Cideng</li> <li>JI. Jati Baru Raya</li> <li>JI. Jati Baru Raya</li> <li>JI. Kebon Sirih</li> <li>JI. Kramat Kwitang</li> <li>JI. Letjen Suprapto</li> <li>JI. Perintis Kemerdekaan</li> <li>JI. Raya Bekasi</li> <li>JI. Central Kaliabang</li> <li>JI. Sultan Agung</li> <li>JI. BKT inspection</li> </ul>	Done every day during pconstruction work at ground level	<ul> <li>Executor:</li> <li>Construction Contractor under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> </ul> </li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ol> <li>Implementing an odd-even system on roads at the MRT-EWLP1S1 construction site during the construction period in order to reduce vehicle volume density that occurs during peak hours (morning and evening).</li> <li>Additional Transjakarta Bus frequency specifically for the MRT-EWLP1S1 construction area to divert the movement of people who will use this route using public transportation.</li> <li>Provide warning signs or notifications to avoid road sections affected by MRT-EWLP1S1 construction work.</li> <li>Divert traffic flow via alternative roads (Table 2.34.) on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Provide signs indicating alternative route routes on diverted road sections.</li> <li>Sterilization and improvement of alternative routes, in the form of resurfacing, marking repairs, and other potential improvements.</li> <li>Parking management on construction routes and alternative routes, to ensure parking availability and support community activities around the project. Provide several on street parking points in each construction area.</li> <li>Controlling sidewalks and side obstacles by officers, so that road capacity and supporting facilities can be used optimally.</li> </ol>			<ul> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment Department</li> <li>i) Bekasi City Environmental Service</li> </ul>
6b.	Increased vibration	Construction work on the ground surface	<ul> <li>Vibration levels do not exceed:</li> <li>2 mm/sec at a frequency of 4 Hz</li> <li>7.5 mm/second at a frequency of 5 Hz</li> <li>7 mm/sec at a frequency of 6.3 Hz</li> <li>6 mm/sec at a frequency of 8 Hz</li> <li>5.2 mm/second at a frequency of 10 Hz</li> <li>4.8 mm/second at a frequency of 12.5 Hz</li> <li>4 mm/sec at a frequency of 16 Hz</li> <li>3.8 mm/second at a frequency of 20 Hz</li> <li>3.2 mm/second at a frequency of 31.5 Hz</li> <li>2 mm/sec at a frequency of 40 Hz</li> <li>1 mm/second at a frequency of 50 Hz</li> </ul>	Carrying out earthworks for construction on the ground surface using the drill pile method using a drilling auger machine which directly installs a protective casing at the same time as a structural retaining wall and reduces vibrations.	Location of earthworks for elevated (pier) construction	Done every day during pconstruction work on the ground surface	<ul> <li>Executor:</li> <li>Construction Contractor</li> <li>under DJKA</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>f) North Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environmental Service</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> </ul></li></ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
ōc.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Construction work at ground level	100% of public complaints regarding environmental disturbances (dust, noise, piles of sediment and puddles) are handled according to the established mechanism	<ol> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notifications to the surrounding community prior to the implementation of each stage/work of the MRT-EWLP1S1 construction.</li> <li>Providing a Complaint Service Post to accommodate public complaints regarding the implementation of each stage/construction work of the MRT-EWLP1S1.</li> <li>Informing the existence of the Complaints Service Post (with telephone number, email and contact person information) to the local community.</li> <li>Handling public complaints using the following mechanism:</li> <li>Generating the existence of the four of the surrounding community.</li> <li>Handling public complaints using the following mechanism:</li> <li>Generating the existence of the four of the surrounding community.</li> <li>Handling public complaints using the following mechanism:</li> <li>Generating the existence of the four of the surrounding community.</li> <li>Handling public complaints using the following mechanism:</li> <li>Generating the existence of the surrounding community.</li> <li>Handling public complaints using the following mechanism:</li> <li>Generating the existence of the surrounding community.</li> <li>Handling public complaints the surrounding community.</li> <li>Handling public complaints the surrounding community.</li> <li>Handling public complaints the surrounding community.</li> <li>Bud Detrict</li> <li>Generating the surrounding community.</li> <li>Handling the surrounding the surrounding community.</li> <li>Bud Detrict</li> <li>Generating the surrounding community.</li> <li>Bud Detrict Public traves of the generating the surrounding community.</li> <li>Surrounding traves of the surrounding community.</li> <li>Surrounding traves of the generating the surrounding complaints received:</li> <li>Complaint Service Post members verify the status of complaints received:</li> <li>Catego</li></ol>	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Kast Cempaka Putih</li> <li>Ex. Kast Kelapa Gading</li> <li>Ex. Rast Kelapa Gading</li> <li>Ex. Rawa Terate</li> <li>Ex. Negangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Rawa Terate</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	Carried out every day during construction work at ground level	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service Report Recipient: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department environment Department environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service
ōd.	There are traffic jams	Construction work at ground level	There are no traffic jams	<ol> <li>Provide compensation to communities directly affected.</li> <li>Coordinate and collaborate with village heads, sub-district heads and related agencies to provide outreach/notification to the surrounding community regarding the implementation of each stage/work of the MRT-EWLP1S1 construction which will disrupt the smooth flow of traffic.</li> <li>Submitting notification of diverting traffic flow via alternative roads on the North and South sides of the MRT-EWLP1S1 construction route.</li> <li>Deploy officers to regulate traffic, especially during peak hours (06.30 - 08.30 WIB and 16.00 - 18.30 WIB).</li> </ol>	<ul> <li>Jl. Letjen S. Parman,</li> <li>Jl. Kyai Tapa,</li> <li>Jl. Dr Susilo Raya</li> <li>Jl. KH. Hashim, Ash'ari,</li> <li>Jl. East Cideng,</li> <li>Jl. West Cideng</li> <li>Jl. East Cideng</li> <li>Jl. East Cideng</li> <li>Jl. Lati Baru Baya</li> </ul>	Carried out every day during construction work at ground level	Executor: Construction Contractor under DJKA Supervisor: a) Ministry of Environment and Forestry b) DKI Jakarta Provincial Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
					<ul> <li>Jl. Kebon Sirih</li> <li>Jl. Kramat Kwitang</li> <li>Jl. Letjen Suprapto</li> <li>Jl. Perintis Kemerdekaan</li> <li>Jl. Raya Bekasi</li> <li>Jl. Central Kaliabang</li> <li>Jl. Sultan Agung</li> <li>Jl. BKT inspection</li> </ul>		<ul> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b></li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) Sast Jakarta Environment</li> <li>g) Beast Jakarta Environment</li> <li>g) East Jakarta Environment</li> </ul>
111	OPERATIONAL ST	AGE					
1.	Passenger Transp	ortation and Station	Operations		I	I	
1a.	Improved traffic performance	iransportation of passengers and station operations	value) does not exceed 1.27	<ul> <li>carry out traffic management and engineering by referring to the recommendations from the Andalalin study results, including:</li> <li>Immediately dismantle notification signs and route instructions for alternative routes when construction work has been completed, so that motorists do not have to detour to look for alternative routes.</li> <li>Providing crossing facilities for pedestrians and vehicles wishing to turn from the South or North.</li> <li>Implementing an odd-even system along the road section where the MRT-EWLP1S1 station is located to reduce vehicle volume on that road section.</li> <li>Creation of zebra crossings at every intersection for pedestrians.</li> <li>Controlling sidewalks and side obstacles (especially in the area around the MRT-EWLP1S1 station) by officers so that road capacity and supporting facilities can be used optimally.</li> </ul>	<ul> <li>JI. Letjen S. Parman,</li> <li>JI. Kyai Tapa,</li> <li>JI. Dr Susilo Raya</li> <li>JI. Dr Susilo Raya</li> <li>JI. KH. Hashim, Ash'ari,</li> <li>JI. East Cideng,</li> <li>JI. West Cideng</li> <li>JI. Bast Cideng</li> <li>JI. Jati Baru Raya</li> <li>JI. Jati Baru Raya</li> <li>JI. Kebon Sirih</li> <li>JI. Kebon Sirih</li> <li>JI. Kramat Kwitang</li> <li>JI. Letjen Suprapto</li> <li>JI. Perintis Kemerdekaan</li> <li>JI. Raya Bekasi</li> <li>JI. Central Kaliabang</li> <li>JI. Sultan Agung</li> <li>JI. BKT inspection</li> </ul>	carried out during the operational period	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> </ul> </li> <li>b) DKI Jakarta Provincial <ul> <li>Environmental Service</li> </ul> </li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta <ul> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta <ul> <li>Environment Department</li> </ul> </li> <li>g) East Jakarta Environment <ul> <li>Department</li> <li>h) Bekasi City Environmental <ul> <li>Service</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment <ul> <li>and Forestry</li> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial <ul> <li>Environmental Service</li> </ul> </li> </ul></li></ul></li></ul></li></ul></li></ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
1	Decreased air	Deconger	The concentration of air pollutants	1 Droviding toll gates at the access route to enter the parking area and	Darking area for	Dorformed even day	<ul> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment Department</li> <li>i) Bekasi City Environmental Service</li> </ul>
1b.	Decreased air quality	Passenger transportation and station operations	<ul> <li>The concentration of air pollutants that arise does not exceed the ambient air quality standards:</li> <li>TSP ≤ 230 µg/m³ (24 hour measurement)</li> <li>PM10 ≤ 75 µg/m³ (24 hour measurement)</li> <li>PM2.5 ≤ 55 µg/m³ (24 hour measurement)</li> <li>SO2 ≤ 75 µg/m³ (24 hour measurement)</li> <li>CO ≤ 4000 µg/m³ (8 hour measurement)</li> <li>NO2 ≤ 65 µg/m³ (24 hour measurement)</li> </ul>	<ol> <li>Providing toll gates at the access route to enter the parking area and separate parking areas for bicycles, 2-wheeled and 4-wheeled motorized vehicles</li> <li>Provide adequate air ventilation, exhaust fans and blowers in the parking basement location</li> </ol>	Parking area for each MRT station: • Tomang Station; • Grogol Station; • Roxy Station; • Petojo Station; • Cideng Station; • Thamrin Station; • Kebon Sirih Station; • Kwitang Station; • Galur Station; • Galur Station; • Cempaka Baru Station; • Sumur Batu Station; • West Pakulonan Station; • West Pakulonan Station; • Perintis Station; • Pulo Gadung Station; • West Cakung Station; • West Cakung Station; • Pulo Gebang Station; • Pulo Gebang Station; • Ujung Menteng Station; • Medan Satria Station	Performed every day during the operation period	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li>Report Recipient:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>f) North Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1c.	Increased disease vectors	Waste water from passenger transportation activities and station operations	No waste water is discharged into the environment around the location of each station	<ol> <li>Providing a Sewage Treatment Plan (STP) at each station         <ul> <li>Tomang Station 60 m³/day;</li> <li>Grogol Station 25 m³/day;</li> <li>Kwitang Station 20 m³/day;</li> <li>Senen Station 45 m³/day;</li> <li>Galur Station 20 m³/day;</li> <li>Galur Station 20 m³/day;</li> <li>Cempaka Baru Station 20 m³/day;</li> <li>Sumur Batu Station 70 m³/day;</li> <li>West Pakulonan Station 30 m³/day;</li> <li>East Pakulonan Station 55 m³/day;</li> <li>Perintis Station 25 m³/day;</li> <li>Pulo Gadung Station 20 m³/day;</li> <li>Milling Station 10 m³/day;</li> </ul> </li> </ol>	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> </ul>	Performed every day during the operation period	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
				<ul> <li>West Cakung Station 45 m<sup>3</sup>/day;</li> <li>Pulo Gebang Station 10 m<sup>3</sup>/day;</li> <li>Ujung Menteng Station 20 m<sup>3</sup>/day;</li> <li>Medan Satria Station 10 m<sup>3</sup>/day.</li> <li>Regularly suctioning STP processed wastewater in collaboration with PD PAL Jaya.</li> <li>For St. Roxy, Petojo, Cideng, Thamrin and Kebon Sirih will be connected to the city IPAL channel</li> </ul>	<ul> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>Milling Station;</li> <li>West Cakung Station;</li> <li>Pulo Gebang Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station</li> </ul>		<ul> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> <li><b>Report Recipient:</b> <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta</li> <li>Environment Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment Department</li> <li>g) East Jakarta Environment</li> </ul> </li> </ul>
1d.	Increased disease vectors	Waste from passenger transportation activities and station operations	There is no litter in the environment around the location of each station	<ol> <li>Providing segregated waste bins (organic waste and inorganic waste) and Temporary Storage Places (TPS) in the form of container boxes at each MRT station</li> <li>Tomang Station 8 m<sup>3</sup>;</li> <li>Grogol Station 4 m<sup>3</sup>;</li> <li>Petojo Station 4 m<sup>3</sup>;</li> <li>Cideng Station 4 m<sup>3</sup>;</li> <li>Cideng Station 2 m<sup>3</sup>;</li> <li>Kebon Sirih Station 2 m<sup>3</sup>;</li> <li>Keutang Station 4 m<sup>3</sup>;</li> <li>Galur Station 2 m<sup>3</sup>;</li> <li>Gempaka Baru Station 2 m<sup>3</sup>;</li> <li>Sumur Batu Station 2 m<sup>3</sup>;</li> <li>Sumur Batu Station 4 m<sup>3</sup>;</li> <li>Petojo Station 4 m<sup>3</sup>;</li> <li>Galur Station 2 m<sup>3</sup>;</li> <li>Gury Station 4 m<sup>3</sup>;</li> <li>Pulo Gadung Station 4 m<sup>3</sup>;</li> <li>Pulo Gadung Station 2 m<sup>3</sup>;</li> <li>Milling Station 2 m<sup>3</sup>;</li> <li>Ujung Menteng Station 2 m<sup>3</sup>;</li> <li>Medan Satria Station 2 m<sup>3</sup>;</li> <li>Transporting waste to the landfill no later than once every 2 days in collaboration with the DKI Jakarta and Bekasi City Governments</li> </ol>	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>West Cakung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station</li> </ul>	Performed every day during the operation period	Service         Executor:         Operation Agency         Supervisor:         a) Ministry of Environment and Forestry         b) DKI Jakarta Provincial Environmental Service         c) West Java Province Environmental Service         d) Central Jakarta Environment Department         e) West Jakarta Environment Department         f) North Jakarta Environment Department         g) East Jakarta Environment Department         h) Bekasi City Environmental Service         Report Recipient:         a) Ministry of Environment and Forestry         b) DKI Jakarta Provincial Environmental Service         c) West Java Province Environmental Service         d) Central Jakarta Environment Department         e) West Java Province         Environment Department         f) North Jakarta Environment Department         g) East Jakarta Environment Department         f) North Jakarta Environment Department         g) East Jakarta Environment Department         h) Bekasi City Environmental Service

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
1e.	Increased disease vectors	B3 waste from passenger transportation activities and station operations	B3 waste is managed in accordance with Minister of Environment and Forestry Regulation No. 6 of 2021 concerning Procedures for Requirements and Management of B3 Waste	<ol> <li>Carry out packaging of B3 waste:         <ul> <li>Plastic containers (60 L) for B3 waste in the form of used batteries and used cloth</li> <li>Iron drum (200 L) for B3 waste in the form of electronic waste and used filters from air pollution control facilities</li> <li>Install B3 waste labels and symbols on each B3 waste package in accordance with the characteristics of B3 waste</li> <li>Storage of LB3 in the transit room for a maximum of 30 days</li> <li>Providing LB3 transit space at each station with a minimum capacity of 5 m<sup>3</sup></li> <li>Carrying LB3 every 30 days to TPS LB3 at the Rorotan Depot location in collaboration with a third party who has an LB3 transportation permit from the MINISTRY OF ENVIRONMENT AND FORESTRY.</li> </ul> </li> </ol>	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>West Cakung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station</li> </ul>	<ul> <li>Packaging, placing labels and symbols, and storing LB3 is carried out every day during the operation period</li> <li>Transport LB3 every 30 days to TPS LB3 at the Rorotan Depot location</li> </ul>	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor:</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul> Report Recipient: <ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>c) West Java Province</li> <li>Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment</li> <li>geart agental Service</li> <li>f) North Jakarta Environment Department</li> <li>g) Kest Jakarta Environment</li> <li>g) Gentral Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>g) East Jakarta Environment</li> <li>h) Bekasi City Environmental Service</li> </ul>
2.		Le and Depot Operat		1. Descriptions of Courses Transforment Plan (CTD) with a same site of 20 and (down ith	Deveter Devet	Dout our dout of the second of	E
20.	disease vectors	train maintenance activities and depot operations	the environment around the Rorotan Depot	<ol> <li>an anaerobic-aerobic biofilter system for domestic wastewater treatment</li> <li>Providing an industrial waste water treatment plant (IWTP) with a capacity of 93 m3/day with a sand and activated carbon coagulation-filtration system for processing MRT train washing waste water and workshop activities</li> <li>Recirculate or reuse 35% of IWTP processed water for washing MRT trains and workshop activities</li> <li>Regularly sucking up wastewater from IWTP and STP processing in collaboration with PD PAL Jaya</li> </ol>		during the operation period	<ul> <li>Operation Agency</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> </ul> </li> <li>b) DKI Jakarta Provincial <ul> <li>Environmental Service</li> </ul> </li> <li>c) North Jakarta <ul> <li>Environment Department</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> </ul> </li> <li>b) DKI Jakarta Provincial <ul> <li>Environmental Service</li> </ul> </li> <li>c) North Jakarta <ul> <li>Environmental Service</li> </ul> </li> </ul>

No	Managed Environmental Impact	Impact Source	Success Indicators Management of the environment	Forms of Environmental Management	Management Location Environment	Environmental Management Period	Environmental Management Institution
2b.	Increased disease vectors	Waste from train maintenance activities and depot operations	There is no waste spilled in the environment around the Rorotan Depot	<ol> <li>Providing segregated waste bins (organic waste and inorganic waste) and Temporary Storage Places (TPS) in the form of container boxes with a capacity of 2 m3.</li> <li>Transporting waste to the landfill a maximum of once every 2 days in collaboration with the DKI Jakarta Government</li> </ol>	Rorotan Depot	Performed every day during the operation period	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta</li> <li>Environment Department</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) North Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta</li> </ul>
2c.	Increased disease vectors	B3 waste from train maintenance activities and depot operations	B3 waste is managed in accordance with Minister of Environment and Forestry Regulation No. 6 of 2021 concerning Procedures for Requirements and Management of B3 Waste	<ol> <li>Carry out packaging of B3 waste:         <ul> <li>Plastic containers (60 L) for B3 waste in the form of used batteries and used cloth</li> <li>Iron drum (200 L) for B3 waste in the form of used lubricating oil</li> <li>Jumbo bag (100 L) for B3 waste in the form of electronic waste and used filters from air pollution control facilities</li> </ul> </li> <li>Install B3 waste labels and symbols on each B3 waste package in accordance with the characteristics of B3 waste</li> <li>Carrying out LB3 storage in accordance with the provisions:         <ul> <li>The maximum storage time for used lubricating oil is 365 days</li> <li>The maximum storage time for used lubricating oil is 365 days</li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> </ul> </li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> <li>The maximum storage time for used filters from air pollution control facilities is 365 days</li> <li>Carrying out LB3 transportation every 180 days for further handling in collaboration with a third party who has an LB3 transportation permit from the MINISTRY OF ENVIRONMENT AND FORESTRY.</li> </ol>	Rorotan Depot	<ul> <li>Packaging, placing labels and symbols, and storing LB3 is carried out every day during the operation period</li> <li>LB3 transportation every 180 days</li> </ul>	<ul> <li>Executor:</li> <li>Operation Agency</li> <li>Supervisor: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta</li> <li>Environment Department</li> </ul> </li> <li>Report Recipient: <ul> <li>a) Ministry of Environment</li> <li>and Forestry</li> <li>b) DKI Jakarta Provincial</li> <li>Environmental Service</li> </ul> </li> <li>c) North Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta Provincial</li> <li>Environmental Service</li> <li>c) North Jakarta</li> </ul>

#### ENVIRONMENTAL MANAGEMENT PLAN-ENVIRONMENTAL MONITORING PLAN

MRT East – West Line Phase 1 Stage 1



Figure 2.1. Environmental Management Plan Map



#### **Environmental Monitoring Plan**

Monitoring is an activity that takes place continuously, systematically and planned. Monitoring is carried out on relevant environmental components and is used as an indicator to evaluate compliance, trends and critical levels of environmental management. In this sense, it is a form of environmental monitoring in MRT-EWLP1S1 activities includes:

- 1. Important Impact Monitoring Plan (result of management direction to Andal) as presented in Table 3.1.
- 2. Other Environmental Impact Monitoring Plans, as presented in Table 3.2.

					Table 3.1. Significant Impact	Monitoring Plan (result of m	anagement direction to	o Andal)	
	No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	
Γ	Ι	PRECONSTRUCTION ST	AGE	1			1		
	1	The land acquisition							

Supervisor	Report Recipient

No Types of Impacts That Arise	: Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1a. Changes in public perceptions and attitudes	Perceptions and attitudes of land owners towards the land acquisition process	Land procurement	Method of collecting data: Data collection on land owners' perceptions and attitudes towards the land acquisition process was carried out by direct interviews, observations and/or questionnaires with owners of the land being acquired. Data analysis method: Data analysis was carried out by comparing the results of data collection on land owners' perceptions and attitudes towards the land acquisition process with indicators of environmental management success.	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kabon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kenn,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Ujung Menteng,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>	Carried out every 3 months during land acquisition activities	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environmental Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
Ш	CONSTRUCTION STAG	Ē							
1	Acceptance of Constru	uction Workers							
1a.	Open job opportunities	Number of local workers involved as workers	Acceptance of construction workers	Method of collecting data: Record the number of local workers involved as workers and the total number of workers in the labor logbook Data analysis method: Data analysis was carried out by calculating the percentage of local workers to the total number of workers and comparing it with indicators of environmental management success	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kenanat,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ujung Menteng,</li> <li>Ex. Nerotan.</li> </ul>	Carried out every 3 months during construction labor recruitment activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1b.	Increase in family income	Family income level	Acceptance of construction workers	Method of collecting data: Data collection on family income from recruitment of construction workers is carried out by direct interviews, observations and/or questionnaires with local workers involved as workers. Data analysis method: Data analysis was carried out by comparing the results of data collection on the income of local workers involved as workers with indicators of environmental management success.	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kast Kelapa Gading,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. West Cakung,</li> <li>Ex. Medan Satria,</li> <li>Ex. Norotan.</li> </ul>	Carried out every 6 months during construction labor recruitment activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1c.	Changes in public perceptions and attitudes	Community perceptions and attitudes towards the results of the construction workforce recruitment process	Acceptance of construction workers	Method of collecting data: Data collection on community perceptions and attitudes towards the process of recruiting construction workers was carried out by direct interviews, observations and/or questionnaires with the community in 31 sub-districts at the MRT-EWLP1S1 construction site. Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes towards the process of recruiting construction workers with indicators of environmental management success.	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kwitang,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Harapan Mulia,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Sumur Batu,</li> </ul>	Carried out every 6 months during construction labor recruitment activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
					<ul> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. East Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rayu Putih,</li> <li>Ex. Pulo Gadung,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ujung Menteng,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>				
2	Basecamp Operations		1-						
2a.	Open business opportunities	Number of local community businesses involved in providing basecamp operational needs	Basecamp operations	<ul> <li>Method of collecting data:</li> <li>Carrying out data collection on local community businesses involved in providing basecamp operational needs</li> <li>Carrying out data collection on local community businesses that provide goods and services to basecamp residents</li> <li>Data analysis method: Data analysis was carried out by comparing the results of data collection with indicators of environmental management success.</li> </ul>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out every 3 months during basecamp operational activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>
2b.	Increase in family income	Family income level	Basecamp operations	Method of collecting data: Data collection on family income from business opportunities was carried out by direct interviews, observations and/or questionnaires with the business community around the basecamp location. Data analysis method: Data analysis was carried out by comparing the results of data collection on family income from business opportunities with indicators of environmental management success	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out every 6 months during basecamp operational activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
2c.	Changes in public perceptions and attitudes	Community perceptions and attitudes towards construction labor activities and basecamp operations	Basecamp operations	Method of collecting data: Data collection on community perceptions and attitudes towards construction labor activities and basecamp operations was carried out by direct interviews, observations and/or questionnaires with the community at each basecamp location. Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes towards the activities of construction workers and basecamp operations with indicators of environmental management success	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	Carried out every 6 months during basecamp operational activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>
3	Mobilization of Constr	uction Equipment and	Materials	management success.					
3a.	Decreased air quality	TSP, PM10, PM2.5, SO2, CO, NO2, O3, HC	Mobilization of construction equipment and materials	<ul> <li>Method of collecting data:</li> <li>TSP is monitored using the SNI 7119.3:2017 method</li> <li>PM10 is monitored using the SNI 7119.15:2016 method</li> <li>PM2.5 is monitored using the SNI 7119.14:2016 method</li> <li>SO2 is monitored using the SNI 7119.7:2017 method</li> <li>CO was monitored using the SNI 7119.10:2011 method</li> <li>NO2 is monitored using the SNI 7119.2:2017 method</li> <li>O3 is monitored using the SNI 7119.8:2017 method</li> <li>HC is monitored using the SNI 7119.13:2009 method</li> <li>Data analysis method: Data analysis is carried out by comparing the results of measurements and/or testing with indicators of environmental management success</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen Suprapto (S 06°10'27.62": E 106°51'19.45")</li> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection</li> </ul>	Carried out every 3 months for ambient air Once every 6 months emissions (from generators and vehicles) during construction activities	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
3b.	Increased noise	Noise level	Mobilization of construction equipment and materials	<ul> <li>Method of collecting data:</li> <li>Measurements are carried out using a simple sound level meter, usually measuring the dB(A) sound pressure level for 10 (ten) minutes for each measurement. Readings are taken every 5 (five) seconds.</li> <li>The measurement time was carried out during 24 hours of activity (LSM) by means that during the day the activity level was highest for 16 hours (LS) in the interval 06.00 - 22.00 and activity during the day for 8 hours (LM) in the interval 22.00 - 06.00.</li> <li>Each measurement must be able to represent a certain time interval by setting at least 4 measurement times during the day and at least 3 measurement times during the day and at least 3 measurement times at night.</li> <li>Calculations using the formula: LS = 10 log 1/16 {T1,100.1 L1 + + T4,100.1 L4} dB(A) LM = 10 log 1/24 {16,100.1 L5 + + T7,100.1 L7} dB(A). LSM = 10 log 1/24 {16,100.1 LS + 8,100.1 (LM+5)} dB(A).</li> <li>Data analysis method: Data analysis was carried out by comparing the calculated LSM values with indicators of environmental management success with a tolerance of + 3 db(A).</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen Suprapto (S 06°10'27.62": E 106°51'19.45")</li> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection (S 06°08'38.72": E 106°57'59.62")</li> </ul>	Carried out every 3 months during mobilization of construction equipment and materials	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
Зс.	Increased prevalence of ARI	ARI prevalence	Mobilization of construction equipment and materials	Method of collecting data: Collect data on the prevalence of ISPA at community health centers in the region MRT construction area Data analysis method: Data analysis was carried out by comparing data on the prevalence of ISPA with indicators of environmental management success	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo <ul> <li>Ex. Gambir</li> </ul> </li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galurs</li> </ul>	Carried out every 6 months during mobilization of construction equipment and materials	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
					• Ex. Harapan Mulia				
					• Ex. Cempaka Baru				
					• Ex. Sumur Batu				
					• Ex. Cempaka Putih Barat				
					• Ex. East Cempaka Putih				
					• Ex. West Kelapa Gading				
					• Ex. East Kelapa Gading				
					• Ex. Pegangsaan Dua				
					• Ex. Kayu Putih				
					• Ex. Pulo Gadung				
					• Ex. Rawa Terate				
					• Ex. West Cakung				
					• Ex. East Cakung				
					• Ex. Ujung Menteng				
					• Ex. Medan Satria				
					• Ex. Rorotan				

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
3d.	Changes in public perceptions and attitudes	Community perceptions and attitudes	Mobilization of construction equipment and materials	Method of collecting data: Data collection on community perceptions and attitudes was carried out using direct interviews, observations and questionnaires. Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes with indicators of environmental management success	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo <ul> <li>Ex. South Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Kampung Bali</li> </ul> </li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galurs</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Medan Satria</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>	Carried out every 6 months during mobilization of construction equipment and materials	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
4a.	Decreased air quality	TSP, PM10, PM2.5, SO2, CO, NO2, O3, HC	Earthworks and dewatering	<ul> <li>Method of collecting data:</li> <li>TSP is monitored using the SNI 7119.3:2017 method</li> <li>PM10 is monitored using the SNI 7119.15:2016 method</li> <li>PM2.5 is monitored using the SNI 7119.14:2016 method</li> <li>SO2 is monitored using the SNI 7119.7:2017 method</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen. Suprapto (S 06°10'27.62": E 106°51'19.45")</li> </ul>	Carried out every 3 months for ambient air Once every 6 months emissions (from generators and vehicles) during construction activities in earthworks and dewatering	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> </ul>
				<ul> <li>CO was monitored using the SNI 7119.10:2011 method</li> <li>NO2 is monitored using the SNI 7119.2:2017 method</li> <li>O3 is monitored using the SNI 7119.8:2017 method</li> <li>HC is monitored using the SNI 7119.13:2009 method</li> <li>Data analysis method: Data analysis is carried out by comparing the results of measurements and/or testing with indicators of environmental management success</li> </ul>	<ul> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection (S 06°08'38.72": E 106°57'59.62")</li> </ul>			g) East Jakarta Environment Department h) Bekasi City Environmental Service	g) East Jakarta Environment Department h) Bekasi City Environmental Service

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
4b.	Increased noise	Noise level	Earthworks and dewatering	<ul> <li>Method of collecting data:</li> <li>Measurements are carried out using a simple sound level meter, usually measuring the dB(A) sound pressure level for 10 (ten) minutes for each measurement. Readings are taken every 5 (five) seconds.</li> <li>The measurement time was carried out during 24 hours of activity (LSM) by means that during the day the activity level was highest for 16 hours (LS) in the interval 06.00 - 22.00 and activity during the day for 8 hours (LM) in the interval 22.00 - 06.00.</li> <li>Each measurement must be able to represent a certain time interval by setting at least 4 measurement times during the day and at least 3 measurement times at night.</li> <li>Calculation using the formula: LS = 10 log 1/16 {T1,100.1 L1 + + T4,100.1 L4} dB(A) LM = 10 log 1/24 {16,100.1 L5 + + T7,100.1 L7} dB(A).</li> <li>LSM = 10 log 1/24 {16,100.1 L5 + + T7,100.1 L7} dB(A).</li> <li>LSM = 10 log 1/24 {16,100.1 LS + 8,100.1 (LM+5)} dB(A).</li> <li>Data analysis method:</li> <li>Data analysis was carried out by comparing the calculated LSM values with indicators of environmental management success with a tolerance of + 3 db(A).</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen Suprapto (S 06°10'27.62": E 106°51'19.45")</li> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection (S 06°08'38.72": E 106°57'59.62")</li> </ul>	Carried out every 3 months during earthworks and dewatering	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
4c.	Increased prevalence of ARI	ARI prevalence	Earthworks and dewatering	Method of collecting data: Collect data on the prevalence of ISPA at community health centers in the region MRT construction area Data analysis method: Data analysis was carried out by comparing data on the prevalence of ISPA with indicators of environmental management success	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kwitang</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galurs</li> <li>Ex. Harapan Mulia</li> <li>Ex. Cempaka Baru</li> </ul>	Carried out every 6 months during earthworks and dewatering	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

4.1         Compatibility of functionant and articles was provided and analysis method.         Initial depreciation and articles was and artin articles was and artin articles was and articles was	No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
4.4.       Changes in public       Community perceptions and attitudes       Carried out cvery 6 attitudes       Condition on community perceptions and attitudes       Data collection on community perceptions and attitudes       Carried out cvery 6 b. Compatibility perceptions and attitudes       Corried out cvery 6 b. Corried out						<ul> <li>Ex. Sumur Batu</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. West Kelapa Gading</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Kayu Putih</li> <li>Ex. Pulo Gadung</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria</li> <li>Ex. Rorotan</li> </ul>				
5 Underground Construction Work	4d.	Changes in public perceptions and attitudes	Community perceptions and attitudes	Earthworks and dewatering	Method of collecting data: Data collection on community perceptions and attitudes was carried out using direct interviews, observations and questionnaires. Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes with indicators of environmental management success	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. East Cempaka Putih</li> <li>Ex. East Kelapa Gading</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kayu Putih</li> <li>Ex. Kawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. East Cakung</li> <li>Ex. East Cakung</li> <li>Ex. Rawa Taria</li> <li>Ex. Kayu Putia</li> </ul>	Carried out every 6 months during earthworks and dewatering	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
5a.	Increased noise	Noise level	Underground construction work	<ul> <li>Method of collecting data:</li> <li>Measurements are carried out using a simple sound level meter which usually measures the dB(A) sound pressure level for 10 (ten) minutes for each measurement. Readings are taken every 5 (five) seconds.</li> <li>The measurement time was carried out during 24 hours of activity (LSM) by means that during the day the activity level was highest for 16 hours (LS) in the interval 06.00 - 22.00 and activity during the day for 8 hours (LM) in the interval 22.00 - 06.00.</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen Suprapto (S 06°10'27.62": E 106°51'19.45")</li> </ul>	Carried out every 3 months during underground construction work	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> </ul>

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No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
				<ul> <li>Each measurement must be able to represent a certain time interval by setting at least 4 measurement times during the day and at least 3 measurement times at night.</li> <li>Calculation using the formula: LS = 10 log 1/16 {T1,100.1 L1 + + T4,100.1 L4} dB(A) LM = 10 log 1/8 {T5,100.1 L5 + + T7,100.1 L7} dB(A). LSM = 10 log 1/24 {16,100.1 LS + 8,100.1 (LM+5)} dB(A).</li> <li>Data analysis method: Data analysis was carried out by comparing the calculated LSM values with indicators of environmental management success with a tolerance of + 3 db(A).</li> </ul>	<ul> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection</li> <li>(S 06°08'38.72": E 106°57'59.62")</li> </ul>			g) East Jakarta Environment Department h) Bekasi City Environmental Service	g) East Jakarta Environment Department h) Bekasi City Environmental Service
6	Ground Surface Constru	uction Work							

Se.         Increased noise         Noise feed         Construction work align a simple count level and a simple count level many a simple count level	No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
	ба.	Increased noise	Noise level	Construction work at ground level	<ul> <li>Method of collecting data:</li> <li>Measurements are carried out using a simple sound level meter, usually measuring the dB(A) sound pressure level for 10 (ten) minutes for each measurement. Readings are taken every 5 (five) seconds.</li> <li>The measurement time was carried out during 24 hours of activity (LSM) by means that during the day the activity level was highest for 16 hours (LS) in the interval 06.00 - 22.00 and activity during the day for 8 hours (LM) in the interval 22.00 - 06.00.</li> <li>Each measurement must be able to represent a certain time interval by setting at least 4 measurement times during the day and at least 3 measurement times at night.</li> <li>Calculation using the formula: LS = 10 log 1/16 {T1,100.1 L1 + + T4,100.1 L4} dB(A) LM = 10 log 1/24 {16,100.1 L5 + + T7,100.1 L7} dB(A). LSM = 10 log 1/24 {16,100.1 LS + 8,100.1 (LM+5)} dB(A).</li> <li>Data analysis method: Data analysis was carried out by comparing the calculated LSM values with indicators of environmental management success with a tolerance of + 3 db(A).</li> </ul>	<ul> <li>Jl. S. Parman (S 06°10'30.59": E 106°47'33.35")</li> <li>Jl. KH Hasyim Ashari (S 06°09'56.71": E 106°48'09.07")</li> <li>Jl. Kebon Sirih (S 06°10'59.50": E 106°49'23.74")</li> <li>Jl. Eastern Cendeng (S 06°10'13.40": E 106°48'39.79")</li> <li>Jl. Letjen Suprapto (S 06°10'27.62": E 106°51'19.45")</li> <li>Jl. Letjen Suprapto (S 06°10'00.59": E 106°52'29.49")</li> <li>Jl. Perintis (S 06°10'31.25": E 106°53'36.19")</li> <li>Jl. Raya Bekasi (S 06°10'57.48": E 106°54'58.80")</li> <li>Jl. Raya Bekasi (S 06°11'03.85": E 106°56'32.89")</li> <li>Jl. Raya Bekasi (S 06°11'25.46": E 106°58'05.75")</li> <li>Jl. Kali Abang Tengah (S 06°11'46.05": E 106°58'33.59")</li> <li>Jl. BKT inspection (S 06°08'38.72": E 106°57'59.62")</li> </ul>	Carried out every 3 months during ground level construction work	be conducted "Contractor " under executor	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1 Acceptance of Operational Workers	1	Acceptance of Operati	onal Workers							

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1a.	Open job opportunities	Number of local workers involved as workers	Acceptance of operational workforce	Method of collecting data: Record the number of local workers involved as workers and the total number of workers in the labor logbook Data analysis method: Data analysis was carried out by calculating the percentage of local workers to the total number of workers and comparing it with indicators of environmental management success	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kwitang,</li> </ul>	Carried out once every 3 months during operational workforce recruitment activities	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>i) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>i) North Jakarta Environment Department</li> </ul>
					<ul> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Harapan Mulia,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Sumur Batu,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Ujung Menteng,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>			<ul> <li>f) East Jakarta Environment Department</li> <li>g) Bekasi City Environmental Service</li> </ul>	<ul><li>f) East Jakarta Environment Department</li><li>g) Bekasi City Environmental Service</li></ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1b.	Increase in family income	Family income level	Acceptance of operational workforce	Method of collecting data: Data collection on family income from operational workforce recruitment is carried out by direct interviews, observations and/or questionnaires with local workers who are involved as workers. Data analysis method: Data analysis was carried out by comparing the results of data collection on the income of local workers involved as workers with indicators of environmental management success.	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Bast Cakung,</li> <li>Ex. Rava Tara,</li> <li>Ex. Rava Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Bast Cakung,</li> <li>Ex. Ravatran</li> </ul>	Carried out once every 6 months during operational workforce recruitment activities	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1c.	Changes in public perceptions and attitudes	Community perceptions and attitudes towards the results of the operational workforce recruitment process	Acceptance of operational workforce	Method of collecting data: Data collection on community perceptions and attitudes towards the operational workforce recruitment process was carried out by direct interviews, observations and/or questionnaires with the community in 31 sub-districts at the MRT-EWLP1S1 construction site.	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> </ul>	Carried out once every 6 months during operational workforce recruitment activities	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>h) West Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>h) West Jakarta Environment Department</li> </ul>

N	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
				Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes towards the process of recruiting construction workers with indicators of environmental management success.	<ul> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kwitang,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ling Menteng,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>			e) North Jakarta Environment Department f) East Jakarta Environment Department g) Bekasi City Environmental Service	e) North Jakarta Environment Department f) East Jakarta Environment Department g) Bekasi City Environmental Service
	Passenger Transporta	ion and Station Opera	tions		• EX. Norotan.				
2:	Den business opportunities	Number of local community businesses involved in providing station operational needs	Transportation of passengers and station operations	<ul> <li>Method of collecting data:</li> <li>Carrying out data collection on local community businesses involved in providing the station's operational needs</li> <li>Collect data on local community businesses that provide goods and services to support station operations</li> <li>Collecting data on local community businesses who are tenants in the MSME space at each station</li> <li>Data analysis method: Data analysis was carried out by comparing the results of data collection with indicators of environmental management success.</li> </ul>	MRT Station: • Tomang • Grogol • Roxy • Petojo • Cideng • Thamrin • Kebon Sirih • Kwitang • Senen • Galurs • Cempaka Baru • Sumur Batu • West Pakulonan • East Pakulonan • East Pakulonan • Perintis • Pulo Gadung • Penggilingan • West Cakung • Pulo Gebang • Ujung Menteng • Medan Satria	Carried out once every 3 months during passenger transport activities and station operations	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/ Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
2b.	Increase in family income	Family income level	Transportation of passengers and station operations	Method of collecting data: Data collection on family income from business opportunities is carried out by direct interviews, observations and/or questionnaires with the business community around the station location. Data analysis method: Data analysis was carried out by comparing the results of data collection on family income from business opportunities with indicators of environmental management success	MRT Station: • Tomang • Grogol • Roxy • Petojo • Cideng • Thamrin • Kebon Sirih • Kwitang • Senen • Galurs Cempaka Baru	Carried out once every 6 months during passenger transport activities and station operations	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
					<ul> <li>Sumur Batu</li> <li>West Pakulonan</li> <li>East Pakulonan</li> <li>Perintis</li> <li>Pulo Gadung <ul> <li>Penggilingan</li> </ul> </li> <li>West Cakung</li> <li>Pulo Gebang</li> <li>Ujung Menteng Medan Satria</li> </ul>				
2c.	Changes in public perceptions and attitudes	Public perceptions and attitudes towards passenger transport activities and station operations	Transportation of passengers and station operations	Method of collecting data: Data collection on community perceptions and attitudes towards passenger transportation activities and station operations was carried out by direct interviews, observations and/or questionnaires with the community at each basecamp location. Data analysis method: Data analysis was carried out by comparing the results of data collection on community perceptions and attitudes towards the activities of construction workers and basecamp operations with indicators of environmental management success.	<ul> <li>Ex. Tomang</li> <li>Ex. Tanjung Duren Selatan</li> <li>Ex. Grogol</li> <li>Ex. Duri Pulo</li> <li>Ex. Cideng</li> <li>Ex. North Petojo</li> <li>Ex. South Petojo</li> <li>Ex. South Petojo</li> <li>Ex. Gambir</li> <li>Ex. Kampung Bali</li> <li>Ex. Kebon Sirih</li> <li>Ex. Senen</li> <li>Ex. Kramat</li> <li>Ex. Tanah Tinggi</li> <li>Ex. Galurs</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Baru</li> <li>Ex. Cempaka Putih Barat</li> <li>Ex. Cempaka Putih</li> <li>Ex. East Cempaka Putih</li> <li>Ex. Pegangsaan Dua</li> <li>Ex. Rawa Terate</li> <li>Ex. West Cakung</li> <li>Ex. Rawa Taria</li> <li>Ex. Cakung</li> <li>Ex. Cakung</li> <li>Ex. Rawa Taria</li> <li>Ex. Nedan Satria</li> <li>Ex. Rorotan</li> </ul>	Carried out once every 6 months during passenger transport activities and station operations	Operation Agency	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

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No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1	CONSTRUCTION STAG	E	I	1	1	1	1		
1	Basecamp Operations								
1a.	Increased disease vectors	<ul> <li>There are portable toilets equipped with septic tanks at each basecamp location</li> <li>Carrying out regular waste water suction</li> </ul>	Waste water from basecamp operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the existence of the MCK at each basecamp</li> <li>Recording the frequency and volume of waste water sucked up by the PAL Jaya Regional Company in the waste water suction logbook</li> <li>Data analysis method: Data analysis was carried out by comparing the results of observations (existence of MCK) and recording (irritation and volume of wastewater sucked) with indicators of environmental management success.</li> </ul>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	<ul> <li>Observations on the presence of MCK are carried out every 3 months</li> <li>Recording of the flow and volume of waste water sucked is carried out every time the waste water is sucked out</li> </ul>	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>
1b.	Increased disease vectors	<ul> <li>There are segregated waste bins and TPS available at each basecamp location</li> <li>Carrying out regular waste transportation</li> </ul>	Waste from basecamp operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the existence of segregated waste bins (organic waste and inorganic waste) and Temporary Shelters (TPS) in the form of container boxes at each basecamp location</li> <li>Recording the frequency and volume of waste transported periodically by the DKI Jakarta Government in a waste transportation logbook</li> <li>Data analysis method: Data analysis was carried out by comparing the results of observations (trash bins and TPS) and recording (trash bins and TPS) and recording (trash bins and volume of transported waste) with indicators of environmental management success.</li> </ul>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated Duri Pulo Village</li> </ul>	<ul> <li>Observations of the existence of segregated waste bins and TPS are carried out every 3 months</li> <li>Recording of the frequency and volume of waste transported is carried out every time the waste is transported</li> </ul>	Directorate General of Railways (DJKA)	<ul> <li>a) MINISTRY OF ENVIRONMENT AND FORESTRY</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>	<ul> <li>a) MINISTRY OF ENVIRONMENT AND FORESTRY</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> <li>d) North Jakarta Environment Department</li> </ul>

#### Table 3.2. Other Environmental Impact Monitoring Plans

	No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
	1c.	Increased disease vectors	<ul> <li>B3 waste packaging</li> <li>The presence of B3 waste labels and symbols on LB3 packaging</li> <li>LB3 storage time</li> <li>The existence of TPS LB3</li> <li>LB3 Freight</li> </ul>	Basecamp operations	<ul> <li>Method of collecting data :</li> <li>Conduct field observations on the suitability of B3 waste packaging to the type and characteristics of B3 waste</li> <li>Conduct field observations on the existence and suitability of B3 waste labels and symbols on LB3 packaging</li> <li>Record the entry and exit of B3 waste at TPS LB3 in the B3 waste storage logbook</li> <li>Conduct field observations of the existence of TPS LB3</li> <li>Create a B3 waste balance sheet complete with an LB3 transportation manifest</li> <li>Data analysis method :</li> <li>Data analysis was carried out by comparing the results of recording and observing the implementation of B3 waste management with indicators of environmental management success</li> </ul>	<ul> <li>Basecamp Depot Rorotan Village</li> <li>Underground Basecamp Ex. Pegangsaan Dua</li> <li>Basecamp Elevated</li> <li>Duri Pulo Village</li> </ul>	<ul> <li>Observations on the implementation of B3 waste management at non-permament TPS LB3 are carried out every 3 months</li> <li>Recording of the volume of LB3 transported is carried out every time the LB3 is transported by a third party who has an LB3 transportation permit from the MINISTRY OF ENVIRONMENT AND FORESTRY</li> </ul>	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment</li> <li>d) North Jakarta Environment</li> <li>Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment</li> <li>Department</li> <li>d) North Jakarta Environment</li> <li>Department</li> </ul>
_	2	iviobilization of Constru	uction Equipment and Ma							
	2a.	performance	(Vc ratio value)	Construction Equipment and Materials	<ul> <li>Vietnod of collecting data :</li> <li>Capacity data for each road section was obtained based on the results of the Andalalin MRT- EWLP1S1 study (2023)</li> </ul>	<ul> <li>JI. Letjens Parman (S 06°10'21.64": E 106°47'20.14")</li> <li>JI. Kyai Tapa (S 06°10'1.092": E 106°47'21.73")</li> </ul>	Unce every 3 months	of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> </ul>

• • •							
			- Calculato vohislo traffis volumo	- II Kuai Tana		1) Control Jakarta	a) Control lakarta
			Calculate vehicle trainc volume		L.	f) Celli al Jakarta	
			directly in the field using the 24-			Environment	Environment
			nour traffic counting method	106 47 18.56 )		Department	Department f) West Islants
				• JI. Dr Susilo Raya	e	e) West Jakarta	T) West Jakarta
			Data analysis method :	(\$ 06°9'57.99″: E		Environment	Environment
			Data from traffic volume	106°47'38.07")		Department	Department
			calculations is analyzed to	• Jl. Kyai Tapa	f	) North Jakarta	g) North Jakarta
			determine the road traffic	(S 06°9'59.11": E		Environment	Environment
			performance (level of service). The	106°47'36.06")		Department	Department
			level of service (LOS) value is	<ul> <li>Jl. KH. Hasyim Ashari</li> </ul>	g	;) East Jakarta	h) East Jakarta
			determined based on the VCratio	(S 06°9'57.49": E		Environment	Environment
			value with the equation:	106°48'16.77")		Department	Department
			V Keterangan :	• Jl. West Cideng and Jl.	h	) Bekasi City	i) Bekasi City
			$VC_{ratio} = \frac{V}{C}$ V = Vol. arus lalu lintas (	East Cideng		Environmental Service	Environmental Service
				(S 06°10'6.312": E			
			Determination of road traffic	106°48'38.12″)			
			performance based on the VCratio	• II. Fast Cideng			
			value refers to the following criteria	(\$ 06°10'53 54" · F			
			(MKJI, 1997):	106°48'50 39″)			
			<ul> <li>LOS category A with a VCratio</li> </ul>	• Il lati Baru Baya			
			value ≤ 0.60	(\$ 06°10'53 83"· F			
			<ul> <li>LOS category B with a VCratio</li> </ul>	106°48'52 56")			
			value ≤ 0.70	100 48 55.50 )			
			<ul> <li>LOS category C with a VCratio</li> </ul>				
			value ≤ 0.80	(3 00 10 39.08 . E			
			<ul> <li>LOS category D with a VCratio</li> </ul>	106 49 35.11 )			
			value $\leq 0.90$	• U Turn at Tugu Tani			
			• LOS category F with a VCratio	(SU6'10'57.07 : E			
			value < 1	106*50*6.68**)			
			• LOS category E with a VCratio	• JI. Kramat Kwitang			
			value > 1	(\$ 06°10'53.68": E			
			Value 2 1	106°50'12.2″)			
				<ul> <li>Jl. Letjen Suprapto</li> </ul>			
				(S 06°10'39.57": E			
				106°50'35.0")			
				<ul> <li>Jl. Letjen Suprapto</li> </ul>			
				(S 06°10'29.20": E			
				106°50'55.8")			
				<ul> <li>Jl. Letjen Suprapto</li> </ul>			
				(S 06°10'20.10": E			
				106°51'44.6")			
				<ul> <li>Jl. Perintis Kemerdekaan</li> </ul>			
				(S 06°10'0.336": E			
				106°52'44.9")			
				• Jl. Perintis Kemerdekaan			
				(S 06°9'58.17": E			
				106°52'49.83")			
				• Jl. Perintis Kemerdekaan			
				(S 06°10'19.12": E			
				106°53'19.6")			
				• Jl. Perintis Kemerdekaan			
				(S 06°10'51.74": E			
				106°54'28.6″)			
				• Jl. Raya Bekasi			
				(S 06°10'57.35″: E			
				106°54'57.6")			
				• II. Rava Bekasi			
				(\$ 06°11'0 024" · F			
				106°55'41 7″)			
				• Il Rava Rekasi			
				(\$ 06°10'56 20" · F			
				106°56'11 3″)			
	1	I I	1	I ■ JI. NAVA DEKASI			

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No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
2b.	Occurrence of Environmental	Public complaints regarding	Mobilization of Construction	Method of collecting data : • Public complaint data was	(S 06°11'9.203": E 106°57'7.81") • Jl. Raya Bekasi (S 06°11'23.89": E 106°58'0.87") • Jl. East Canal Inspection (S 06°10'21.97": E 106°58'17.4") • Jl. Raya Bekasi (S 06°11'33.21": E 106°58'17.2") • Jl. Kali Abang Tengah (S 06°11'45.34": E 106°58'30.4") • Jl. Sultan Agung (S 06°11'46.71": E 06°58'26.43") • Ex. Tomang, • Ex. Tomang,	Every months	Directorate General of Railways (DJKA)	a) Ministry of Environment and	a) Ministry of Environment and Forestry
	Disturbances (dust, noise, piles of sediment)	environmental disturbances (dust, noise, puddles/floods and piles of sediment) due to MRT-EWLP1S1 activities	Equipment and Materials	obtained from the Complaint Service Post Conduct observation/field surveys regarding community complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) resulting from MRT-EWLP1S1 activities Data analysis method : Compare the number and types of public complaints submitted to the person in charge of the activity with the number and types of complaints that have been resolved/agreed officially in accordance with the established community complaint handling mechanism	Selatan, Ex. Grogol, Ex. Duri Pulo, Ex. Cideng, Ex. North Petojo, Ex. South Petojo, Ex. South Petojo, Ex. Gambir, Ex. Gambir, Ex. Kampung Bali, Ex. Kampung Bali, Ex. Kampung Bali, Ex. Kabon Sirih, Ex. Kabon Sirih, Ex. Kebon Sirih, Ex. Senen, Ex. Kvitang, Ex. Kramat, Ex. Tanah Tinggi, Ex. Galur, Ex. Galur, Ex. Galur, Ex. Galur, Ex. Cempaka Baru, Ex. Cempaka Baru, Ex. Cempaka Baru, Ex. Cempaka Baru, Ex. Cempaka Putih Barat, Ex. Cempaka Putih Barat, Ex. Cempaka Putih Timur, Ex. West Kelapa Gading, Ex. East Kelapa Gading, Ex. Pegangsaan Dua, Ex. Kayu Putih, Ex. Nedan Gadung, Ex. Rawa Terate, Ex. West Cakung, Ex. East Cakung, Ex. East Cakung, Ex. Medan Satria, Ex. Rorotan.			Forestry b) DKI Jakarta Provincial Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service	<ul> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
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2c.	There are traffic jams	Public complaints regarding traffic congestion due to MRT-EWLP1S1 activities	Mobilization of Construction Equipment and Materials	Method of collecting data : • Public complaint data was obtained from the Complaint Service Post • Conduct observation/field survey of public complaints regarding traffic congestion due to MRT- EWLP1S1 activities Data analysis method : Compare the number and types of community complaints submitted to the person in charge of the activity with the number and types of complaints that have been officially resolved/agreed upon in accordance with the established community complaint handling mechanism	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kamat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rava Terate,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Rava Satria,</li> <li>Ex. Nedan Satria,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>	Every months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
3	Land Clearing and Relo	ocation of Public Facilities/	Utilities						

#### ENVIRONMENTAL MANAGEMENT PLAN-ENVIRONMENTAL MONITORING PLAN MF

/RT	East -	West	Line	Phase	1	Stage 1	
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За.	Decreased traffic performance	Traffic performance (Vc ratio value)	Mobilization of Construction	Method of collecting data : • Capacity data for each road	<ul> <li>Jl. Letjen S Parman</li> <li>(S 06°10'21.64": E</li> </ul>	Once every 3 months	Directorate General of Railwavs (DJKA)	a) Ministry of Environment and	<ul> <li>a) Ministry of Environmen and Forestry</li> </ul>
		()	Equipment and	section was obtained based on	106°47'20.14")			Forestry	b) Ministry of
			Materials	the results of the Andalalin MRT-	• Jl. Kyai Tapa			b) DKI Jakarta Provincial	Transportation
				EWLP1S1 study (2023)	(S 06°10'1.092": E			, Environmental Service	c) DKI Jakarta Provincial
				Calculate vehicle traffic volume	, 106°47'21.73″)			c) West Java Province	Environmental Service
				directly in the field using the 24-	• Jl. Kvai Tapa			Environmental Service	d) West Java Province
				hour traffic counting method	(S 06°10'6.384": E			d) Central Jakarta	Environmental Service
					, 106°47'18.56″)			Environment	e) Central Jakarta
				Data analysis method :	• Jl. Dr Susilo Raya			Department	Environment
				Data from traffic volume	(S 06°9'57.99": E			e) West Jakarta	Department
				calculations is analyzed to	106°47'38.07″)			Environment	f) West Jakarta
				determine the road traffic	• Jl. Kyai Tapa			Department	Environment
				performance (level of service). The	(S 06°9'59.11": E			f) North Jakarta	Department
				level of service (LOS) value is	106°47'36.06")			Environment	g) North Jakarta
				determined based on the VCratio	• Jl. KH. Hasyim Ashari			Department	Environment
				value with the equation:	(S 06°9'57.49": E			g) East Jakarta	Department
				V Keterangan : V - Vol. arus lalu lintas (	106°48'16.77")			Environment	h) East Jakarta
				$\mathbf{VC}_{ratio} = \frac{1}{C}$ $\mathbf{C} = \text{Kapasitas}\left(\frac{\text{smp}}{\text{jam}}\right)$	• Jl. West Cideng and Jl.			Department	Environment
				Determination of road traffic	East Cideng			h) Bekasi City	Department
				performance based on the VCratio	(S 06°10'6.312": E			Environmental Service	i) Bekasi City
				value refers to the following criteria	106°48'38.12")				Environmental Service
				(MKJI, 1997):	• Jl. East Cideng				
				<ul> <li>LOS category A with a VCratio</li> </ul>	(S 06°10'53.54": E				
				value ≤ 0.60	106°48'50.39″)				
				<ul> <li>LOS category B with a VCratio</li> </ul>	• JI. Jati Baru Raya				
				value ≤ 0.70	(SUB 10 53.83 : E				
				<ul> <li>LOS category C with a VCratio</li> </ul>	106 48 53.56 )				
				value ≤ 0.80	• JI. KEDOIT SITTI (\$ 06°10'50 08". E				
				<ul> <li>LOS category D with a VCratio</li> </ul>	(300 10 35.08 . L 106°40'35 11″)				
				value ≤ 0.90	• II Turn at Tugu Tani				
				<ul> <li>LOS category E with a VCratio</li> </ul>	(\$ 06°10'57 07" · F				
				value ≤ 1	106°50'6.68″)				
				<ul> <li>LOS category F with a VCratio</li> </ul>	• Jl. Kramat Kwitang				
				value ≥ 1	(S 06°10'53.68": E				
					106°50'12.2″)				
					<ul> <li>Jl. Letjen Suprapto</li> </ul>				
					(S 06°10'39.57": E				
					106°50'35.0")				
					<ul> <li>Jl. Letjen Suprapto</li> </ul>				
					(S 06°10'29.20": E				
					106°50'55.8″)				
					<ul> <li>Jl. Letjen Suprapto</li> </ul>				
					(S 06°10'20.10": E				
					106°51'44.6″)				
					• JI. Perintis Kemerdekaan				
					(SUB 10 0.336 : E				
					106 52 44.9 )				
					• JI. Perintis Kenierdekaan (\$ 06°0'58 17". F				
					106°52'49 83"				
					<ul> <li>II. Perintis Kemerdekaan</li> </ul>				
					(S 06°10'19.12" · F				
					106°53'19.6")				
					<ul> <li>Jl. Perintis Kemerdekaan</li> </ul>				
					(S 06°10'51.74": E				
					106°54'28.6")				
					• Jl. Raya Bekasi				
					(S 06°10'57.35": E				
					106°54'57.6")				
					<ul> <li>Jl. Raya Bekasi</li> </ul>				

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	
					(S 06°11'0.024": E 106°55'41.7") • Jl. Raya Bekasi (S 06°10'56.20": E 106°56'11.3") • Jl. Raya Bekasi (S 06°11'9.203": E 106°57'7.81") • Jl. Raya Bekasi (S 06°11'23.89": E 106°58'0.87") • Jl. East Canal Inspection (S 06°10'21.97": E 106°58'17.4")			
					<ul> <li>Jl. Raya Bekasi (S 06°11'33.21": E 106°58'17.2")</li> <li>Jl. Kali Abang Tengah (S 06°11'45.34": E 106°58'30.4")</li> <li>Jl. Sultan Agung (S 06°11'46.71": E 06°58'26.43")</li> </ul>			
3b.	Decreased density of land vegetation	Number of shade trees removed and/or felled with replacement	Land Cleaning and Relocation of Public Facilities/Utilities	<ul> <li>Method of collecting data:</li> <li>Data on the number of protective trees removed and/or felled with replacement was obtained based on felling permits from the authorized agency.</li> <li>Carrying out field observations and calculating the number of trees replanted and/or planted as replacements in each location that has been determined according to permission from the competent authority.</li> <li>Data analysis method: Data from field observations and calculations of the number of trees replanted and/or planted.</li> </ul>	<ul> <li>Tomang Station.</li> <li>Grogol Station.</li> <li>Roxy Station.</li> <li>Petojo Station.</li> <li>Cideng Station.</li> <li>Cideng Station.</li> <li>Thamrin Station.</li> <li>Kebon Sirih Station.</li> <li>Kebon Station.</li> <li>Senen Station.</li> <li>Galur Station.</li> <li>Galur Station.</li> <li>Cempaka Baru Station.</li> <li>Sumur Batu Station.</li> <li>West Pakulonan Station.</li> <li>East Pakulonan Station.</li> <li>Penggilingan Station.</li> <li>Penggilingan Station.</li> <li>West Cakung Station.</li> <li>Ujung Menteng Station.</li> <li>Medan Satria Station</li> <li>Rorotan Depot</li> </ul>	<ul> <li>Data collectionthe number of trees replanted and/or planted as replacements is done once</li> <li>Observation Maintenance conditions are carried out every 6 months</li> </ul>	Directorate General of Railways (DJKA)	a) M Er Fo b) Dk Er c) W Er d) Ce En de) W Er be f) No Er be g) Ea Er De h) E

Supervisor	Report Recipient
Ministry of Environment and Forestry DKI Jakarta Provincial Environmental Service West Java Province Environmental Service Central Jakarta Environment Department West Jakarta Environment Department North Jakarta Environment Department East Jakarta Environment Department Bekasi City Environmental Service	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
Зс.	Increased runoff water discharge	Flooding occurs	Land Cleaning and Relocation of Public Facilities/Utilities	Method of collecting data: Data collection on the occurrence of inundation is carried out by observation, direct interviews, and/or questionnaires to the community at each activity location. Data analysis method: Data analysis was carried out by comparing the results of data collection with indicators of environmental management success	Construction location: MRT Station: Tomang; Grogol; Roxy; Petojo; Cideng; Thamrin; Kebon Sirih; Kwitang; Senen; Galur; Cempaka Baru; Stone Well; West Pakulonan; East Pakulonan; Perintis; Pulo Gadung; Penggilingan; West Cakung; Pulo Gebang; Ujung Menteng; Medan Satria Rorotan Depot Elevated path Underground route	Once every 3 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
3d.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Public complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) due to MRT-EWLP1S1 activities	Land Cleaning and Relocation of Public Facilities/Utilities	Method of collecting data : • Public complaint data was obtained from the Complaint Service Post • Conduct observation/field surveys regarding community complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) resulting from MRT-EWLP1S1 activities Data analysis method : Compare the number and types of public complaints submitted to the person in charge of the activity with the number and types of complaints that have been resolved/agreed officially in accordance with the established community complaint handling mechanism	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kwitang,</li> <li>Ex. Karamat,</li> <li>Ex. Galur,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Rava Taria,</li> <li>Ex. Korotan.</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

N	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
3	e. There are traffic jams	Public complaints regarding traffic congestion due to MRT-EWLP1S1 activities	Land Cleaning and Relocation of Public Facilities/Utilities	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/field survey of public complaints regarding traffic congestion due to MRT-EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of community complaints submitted to the person in charge of the activity with the number and types of complaints that have been officially resolved/agreed upon in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kamat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Raya Terate,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Bast Cakung,</li> <li>Ex. Bast Cakung,</li> <li>Ex. Rava Taria,</li> <li>Ex. Rava Taria,</li> <li>Ex. Rava Taria,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
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#### ENVIRONMENTAL MANAGEMENT PLAN-ENVIRONMENTAL MONITORING PLAN M

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Γ	4a.	Decreased traffic	Traffic performance	Earthworks and	Method of collecting data :	<ul> <li>Jl. Letjen S Parman</li> </ul>	Once every 3 months	Directorate General	a) Ministry of	a) Ministry of Environment
		performance	(Vc ratio value)	dewatering	<ul> <li>Capacity data for each road</li> </ul>	(S 06°10′21.64″:		of Railways (DJKA)	Environment and	and Forestry
					section was obtained based on	E 106°47'20.14")			Forestry	b) Ministry of
					the results of the Andalalin MRT-	• Jl. Kyai Tapa			b) DKI Jakarta Provincial	Transportation
					EWLP1S1 study (2023)	(S 06°10′1.092″:			Environmental Service	c) DKI Jakarta Provincial
					Calculate vehicle traffic volume	E 106°47'21.73")			c) West Java Province	Environmental Service
					directly in the field using the 24-	• Jl. Kyai Tapa			Environmental Service	d) West Java Province
					hour traffic counting method	(S 06°10′6.384″:			d) Central Jakarta	Environmental Service
						E 106°47'18.56")			Environment	e) Central Jakarta
					Data analysis method :	• Jl. Dr Susilo Rava			Department	Environment
					Data from traffic volume	(S 06°9'57.99":			e) West Jakarta	Department
					calculations is analyzed to	E 106°47'38.07")			, Environment	f) West Jakarta
					determine the road traffic	• Jl. Kvai Tapa			Department	, Environment
					performance (level of service). The	(S 06°9'59.11":			f) North Jakarta	Department
					level of service (LOS) value is	F 106°47'36.06")			, Environment	g) North Jakarta
					determined based on the VCratio	• Jl. KH. Hasvim Ashari			Department	Environment
					value with the equation:	(\$ 06°9'57 49"·			g) Fast Jakarta	Department
					V Keterangan :	F 106°48'16 77")			Environment	h) Fast Jakarta
					$VC_{ratio} = \frac{r}{C}$ V = Vol. arus lalu lintas (	• Il West Cideng and Il			Department	Environment
					C c - Rapasitas ( /jam)	Fast Cideng			h) Bekasi City	Department
					Determination of road traffic	(\$ 06°10'6 312".			Environmental	i) Bekasi City
					performance based on the VCratio	$F 106^{\circ}/8'38 12''$			Service	Environmental Service
					value refers to the following criteria	• Il East Cideng			Service	
					(MKJI, 1997):	(\$ 06°10′53 54″·				
					<ul> <li>LOS category A with a VCratio</li> </ul>	F 106°48'50 39")				
					value ≤ 0.60	• Il lati Baru Baya				
					<ul> <li>LOS category B with a VCratio</li> </ul>	(\$ 06°10′53 83″·				
					value ≤ 0.70	E 106°48'53 56")				
					<ul> <li>LOS category C with a VCratio</li> </ul>	• Il Kebon Sirih				
					value ≤ 0.80	(\$ 06°10′59 08″.				
					<ul> <li>LOS category D with a VCratio</li> </ul>	$F 106^{\circ}/9^{\circ}35 11''$				
					value ≤ 0.90	• II Turn at Tugu Tani				
					• LOS category E with a VCratio	(\$ 06°10′57 07″·				
					value ≤ 1	E 106°50'6 683")				
					• LOS category F with a VCratio	• Il Kramat Kwitang				
					value ≥ 1	(\$ 06°10′53 68″·				
						F 106°50'12 22")				
						• Il Letien Supranto				
						(\$ 06°10'39 57".				
						E 106°50'35.05″)				
						• Il Letien Supranto				
						(\$ 06°10'29 20".				
						F 106°50'55 82")				
						• Il LetienSupranto				
						(\$ 06°10′20 10″·				
						F 106°51'44.60")				
						• II. Perintis Kemerdekaan				
						(\$ 06°10'0.336":				
						E 106°52'44.90")				
						• Jl. Perintis Kemerdekaan				
						(\$ 06°9′58.17″:				
						E 106°52'49.83")				
						• Jl. Perintis Kemerdekaan				
						(S 06°10′19.12″:				
						E 106°53'19.60")				
						• Jl. Perintis of				
						Independence				
						(S 06°10′51.74″:				
						E 106°54'28.58")				
						• Jl. Raya Bekasi				
						(S 06°10′57.35″:				
						E 106°54'57.63")				

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	
					• Jl. Raya Bekasi			
					(S 06°11′0.024″:			
					E 106°55'41.70")			
					• Jl. Raya Bekasi			
					(S 06°10′56.20″:			
					E 106°56'11.29")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°11'9.203":			
					E 106°57'7.811")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°11′23.89″:			
					E 106°58'0.875")			
					Jl. East Canal Inspection			
					(S 06°10'21.97":			
					E 106°58'17.43")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°11′33.21″:			
					E 106°58'17.25")			
					<ul> <li>Jl. Kali Abang Tengah</li> </ul>			
					(S 06°11'45.34":			
					E 106°58'30.46")			
					<ul> <li>Jl. Sultan Agung</li> </ul>			
					(S 06°11′46.71″:			
					• E 106°58'26.43")			

Supervisor	Report Recipient

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
4b.	Increased vibration	Vibration level	Earthworks and dewatering	<ul> <li>Method of collecting data :</li> <li>Measure vibration levels at frequency 4; 5; 6.3; 8; 10; 12.5; 16; 20; 25; 31.5; 40 and 50 Hz</li> <li>Measuring equipment: <ul> <li>Vibration capture device (accelerometer or seismometer)</li> <li>Vibration measuring equipment or analysis tools (vibration meter or vibration analyzer)</li> <li>1/3 octave or narrow band filter (1/3 octave or narrow band filter)</li> <li>Vibration level recorder (level or X - Y recorder)</li> <li>Vibration level measuring analysis tool (FFT analyzer)</li> </ul> </li> <li>Measurement method: <ul> <li>The vibration capture device is placed on the floor or vibrating surface, and connected to a vibration measuring instrument equipped with a filter</li> <li>The measuring instrument is installed on the deviation quantity (in the event that the instrument is not equipped with this facility, quantity conversion can be used)</li> <li>Reading and recording are carried out for each frequency 4 - 50 Hz or by sweeping with a vibration recording device.</li> </ul> </li> <li>The results of 12 measurements of data are depicted in the Standard Graph of Mechanical Vibration Levels Based on Damage Impact (Attachment II to Minister of Environment Decree No. 49 of 1996)</li> <li>Data analysis method : Comparing the vibration level measurement results with the Vibration Level Standards in the Decree of the Minister of Environment No. 49/MENLH/ 11/1996 (Appendix II – Table 1. Standard Mechanical Vibration Levels Based on Damage Impact)</li> </ul>	<ul> <li>UKG-1 (\$ 06°10'30.59": E 106°47'33.35")</li> <li>UKG-7 (\$ 06°10'31.25": E 106°53'36.19")</li> <li>UKG-8 (\$ 06°10'57.48": E 106°54'58.80")</li> <li>UKG-9 (\$ 06°11'03.85": E 106°56'32.89")</li> <li>UKG-10 (\$ 06°11'25.46": E 106°58'05.75")</li> <li>UKG-11 (\$ 06°11'46.05": E 106°58'33.59")</li> </ul>	Once every 3 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment</li> <li>Department</li> <li>e) West Jakarta Environment</li> <li>Department</li> <li>f) North Jakarta Environment</li> <li>Department</li> <li>g) East Jakarta Environment</li> <li>Department</li> <li>H) Bekasi City</li> <li>Environmental Service</li> </ul>
40.	water level	level	dewatering	Carrying out measurements of ground water levels using piezometers or bailer. Data analysis method : Compare the results of groundwater level measurements with conditions before earthworks and dewatering took place	<ul> <li>UBH-25 (\$ 700,913,597 : E 9,316,383,057)</li> <li>UBH-56 (\$ 705.252.510 : E 9.317.166.400)</li> </ul>		of Railways (DJKA)	<ul> <li>b) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> </ul>	<ul> <li>and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> </ul>

No Types of Impacts That Arise	Types of Impacts That Arise Indicators/Parameters Impact Source		Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
id. Decreased groundwater quality	Groundwater quality	dewateringTake groundwater samples by referring to SNI 6989.58:2008, then test groundwater samples in an accredited laboratory by referring to:a)SNI 06-6989.23-2005 for temperature parametersb)SNI 6989.11:2019 for pH parametersc)SNI 6989.80:2011 for color parametersd)SNI 6989.27:2019 for TDS parameterse)SNI 06-6989.25-2005 for turbidity parametersf)SNI 6989.4:2009 for iron (Fe) parametersg)SNI 6989.1:2009 for Manganese (Mn) parametersh)SNI 6989.17:2009 for Manganese (Mn) parametersj)SNI 6989.74:2009 for Nitrite (NO2) Parametersj)SNI 6989.74:2009 for Nitrite (NO3) parametersk)SNI ISO 9308-1:2010 for E. Coli and Total Coliform parametersData analysis method : Comparelaboratory test results with indicators of environmental management success		<ul> <li>AT2 (S 06°09'03.45" : E 106°48'05.69")</li> <li>AT-2D (S 06°09'57.28" : E 106°48'17.35")</li> <li>AT3 (S 06°11'03.01" : E 106°49'36.01")</li> <li>AT-3D (S 06°10'49.72" : E 106°50'22.48")</li> <li>AT4 (S 06°10'24.99" : E 106°51'20.01")</li> <li>AT-4D (S 06°10'27.84" : E 106°51'21.92")</li> </ul>	Once every 6 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) Central Jakarta Environment Department</li> </ul>
e. Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Public complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) due to MRT-EWLP1S1 activities	Earthworks and dewatering	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/field surveys regarding community complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) resulting from MRT-EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of public complaints submitted to the person in charge of the activity with the number and types of complaints that have been resolved/agreed officially in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Sumur Batu,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Pulo Gadung,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ujung Menteng</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
4f.	There are traffic jams	Public complaints regarding traffic congestion due to MRT-EWLP1S1 activities	Earthworks and dewatering	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/ field survey of public complaints regarding traffic congestion due to MRT-EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of community complaints submitted to the person in charge of the activity with the number and types of complaints that have been officially resolved/agreed upon in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kamat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
4g	Soil Quality degradation	Meet the characteristic standard values of TCLP and/or TK (total concentration)	Earth working and underground segment dewatering	<ul> <li><u>Method of collecting data:</u></li> <li>Soil sampling at the excavation site</li> <li><u>Data Analysis Method:</u> Laboratory analysis of soil quality (heavy metal, pH, hydrocarbon etc.)</li> </ul>	<ul> <li>MRT East – West Line Phase</li> <li>1 Stage 1 construction area</li> <li>as 22 point locations at underground stations</li> <li>construction area</li> <li>Note: Objectively as 22 point locations within 6 months</li> </ul>	Periodically within 6 months during the MRT East - West Line MRT construction activities	Contractor under DGR	<ul> <li>a) Enviromental services of West Jakarta, Central Jakarta, North Jakarta, East Jakarta &amp; Bekasi</li> <li>b) Enviromental services of DKI Jakarta Province dan West Jawa</li> <li>c) Director General of Railways, Ministry of Transportation</li> <li>d) Ministry of Environment &amp; Forestry</li> </ul>	<ul> <li>a) Enviromental services of West Jakarta, Central Jakarta, North Jakarta, East Jakarta &amp; Bekasi</li> <li>b) Enviromental services of DKI Jakarta Province dan West Jawa</li> <li>c) Director General of Railways, Ministry of Transportation</li> <li>d) Ministry of Environment &amp; Forestry</li> </ul>

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	5a.	Decreased traffic	Performancetraffic (Vc	Underground	Method of collecting data :	• Jl. Letjen S Parman	Once every 3 months	Directorate General	a) Ministry of	a) Ministry of Environment	
		performance	ratio value)	construction work	<ul> <li>Capacity data for each road</li> </ul>	(S 06°10′21.64″:		of Railways (DJKA)	Environment and	and Forestry	
					section was obtained based on	E 106°47'20.14")			Forestry	b) Ministry of	
					the results of the Andalalin MRT-	• Jl. Kyai Tapa			b) DKI Jakarta Provincial	Transportation	
					EWLP1S1 study (2023)	(\$ 06°10'1.092":			Environmental Service	c) DKI Jakarta Provincial	
					Calculate vehicle traffic volume	E 106°47'21.73")			c) West Java Province	Environmental Service	
					directly in the field using the 24-	• Jl. Kyai Tapa			Environmental Service	d) West Java Province	
					hour traffic counting method	(S 06°10′6.384″:			d) Central Jakarta	Environmental Service	
						E 106°47'18.56")			Environment	e) Central Jakarta	
					Data analysis method :	• Jl. Dr Susilo Raya			Department	Environment	
					Data from traffic volume	(S 06°9'57.99":			e) West Jakarta	Department	
					calculations is analyzed to	E 106°47'38.07")			Environment	f) West Jakarta	
					determine the road traffic	• Jl. Kvai Tapa			Department	Environment	
					performance (level of service). The	(S 06°9'59.11":			f) North Jakarta	Department	
					level of service (LOS) value is	E 106°47'36.06")			Environment	g) North Jakarta	
					determined based on the VCratio	• Jl. KH. Hasyim Ashari			Department	Environment	
					value with the equation:	(S 06°9'57.49":			g) East Jakarta	Department	
					V Keterangan :	E 106°48'16.77")			Environment	h) East Jakarta	
					$VC_{ratio} = \frac{1}{C}$ V = Vol. arus lalu lintas	• Jl. West Cideng and Jl.			Department	, Environment	
						East Cideng			h) Bekasi City	Department	
					Determination of road traffic	(S 06°10'6.312":			Environmental	i) Bekasi City	
					performance based on the VCratio	E 106°48'38.12")			Service	, Environmental Service	
					value refers to the following criteria	• Jl. East Cideng					
					(MKJI, 1997):	(\$ 06°10'53.54":					
					• LOS category A with a VCratio	È 106°48'50.39")					
					value ≤ 0.60	• Jl. Jati Baru Rava					
					• LOS category B with a VCratio	(\$ 06°10′53.83″:					
					value ≤ 0.70	F 106°48'53.56")					
					<ul> <li>LOS category C with a VCratio</li> </ul>	• Jl. Kebon Sirih					
					value ≤ 0.80	(\$ 06°10′59.08″:					
					<ul> <li>LOS category D with a VCratio</li> </ul>	F 106°49'35.11″)					
					value ≤ 0.90	• U Turn at Tugu Tani					
					<ul> <li>LOS category E with a VCratio</li> </ul>	(\$ 06°10′57.07″:					
					value ≤ 1	F 106°50'6.683″)					
					<ul> <li>LOS category F with a VCratio</li> </ul>	• II. Kramat Kwitang					
					value ≥ 1	(\$ 06°10′53.68″:					
						F 106°50'12.22")					
						• II. Letien Suprapto					
						(S 06°10′39.57″:					
						F 106°50'35.05")					
						• Jl. Letien Suprapto					
						(\$ 06°10'29.20":					
						E 106°50'55.82")					
						• Jl. Letjen Suprapto					
						(\$ 06°10'20.10":					
						E 106°51'44.60")					
						• Jl. Perintis Kemerdekaan					
						(\$ 06°10'0.336":					
						E 106°52'44.90")					
						• Jl. Perintis Kemerdekaan					
						(S 06°9′58.17″:					
						E 106°52'49.83")					
						• Jl. Perintis Kemerdekaan					
						(S 06°10′19.12″:					
						E 106°53'19.60")					
						• Jl. Perintis Kemerdekaan					
						(\$ 06°10′51.74″:					
						E 106°54'28.58")					
						• Jl. Raya Bekasi					
						(\$ 06°10′57.35″:					
						E 106°54'57.63")					
						• Il Bava Bekasi					

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	
					(S 06°11′0.024″:			
					E 106°55'41.70")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°10′56.20″:			
					E 106°56'11.29")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°11'9.203":			
					E 106°57'7.811")			
					• Jl. Raya Bekasi			
					(S 06°11′23.89″:			
					E 106°58'0.875")			
					Jl. East Canal Inspection			
					(S 06°10′21.97″:			
					E 106°58'17.43")			
					• Jl. Raya Bekasi			
					(S 06°11'33.21":			
					E 106°58'17.25")			
					<ul> <li>Jl. Kali Abang Tengah</li> </ul>			
					(S 06°11′45.34″:			
					E 106°58'30.46")			
					<ul> <li>Jl. Sultan Agung</li> </ul>			
					(S 06°11′46.71″:			
					• E 106°58'26.43")			

Supervisor	Report Recipient

No	Types of Impacts That Arise Indicators/Parameters Impact Source		Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient	
5b.	Increased vibration	Vibration level	Underground construction work	<ul> <li>Method of collecting data :</li> <li>Measure vibration levels at frequency 4; 5; 6.3; 8; 10; 12.5; 16; 20; 25; 31.5; 40 and 50 Hz</li> <li>Measuring equipment: <ul> <li>Vibration capture device (accelerometer or seismometer)</li> <li>Vibration measuring equipment or analysis tools (vibration meter or vibration analyzer)</li> <li>1/3 octave or narrow band filter (1/3 octave or narrow band filter)</li> <li>Vibration level recorder (level or X - Y recorder)</li> <li>Vibration level measuring analysis tool (FFT analyzer)</li> </ul> </li> <li>Measurement method: <ul> <li>The vibration capture device is placed on the floor or vibrating surface, and connected to a vibration measuring instrument equipped with a filter</li> <li>The measuring instrument is installed on the deviation quantity (in the event that the instrument is not equipped with this facility, quantity conversion can be used)</li> <li>Reading and recording are carried out for each frequency 4 - 50 Hz or by sweeping with a vibration recording device.</li> </ul> </li> <li>The results of 12 measurements of data are depicted in the Standard Graph of Mechanical Vibration Levels Based on Damage Impact (Attachment II to Minister of Environment Decree No. 49 of 1996)</li> <li>Data analysis method : Comparing the vibration level measurement results with the Vibration Level Standards in the Decree of the Minister of Environment No. 49/MENLH/ 11/1996 (Appendix II – Table 1. Standard Mechanical Vibration Levels Based on Damage Impact)</li> </ul>	<ul> <li>UKG-1 (S 06°10'30.59": E 106°47'33.35")</li> <li>UKG-7 (S 06°10'31.25": E 106°53'36.19")</li> <li>UKG-8 (S 06°10'57.48": E 106°54'58.80")</li> <li>UKG-9 (S 06°11'03.85": E 106°56'32.89")</li> <li>UKG-10 (S 06°11'25.46": E 106°58'05.75")</li> <li>UKG-11 (S 06°11'46.05": E 106°58'33.59")</li> </ul>	Once every 3 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Types of Impacts That AriseIndicators/ParametersImpact SourceData Collection and Analysis Methods		Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
5c.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Public complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) due to MRT-EWLP1S1 activities	Underground construction work	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/field surveys regarding community complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) resulting from MRT-EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of public complaints submitted to the person in charge of the activity with the number and types of complaints that have been resolved/agreed officially in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Sumur Batu,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. East Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ujung Menteng</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
5d.	There are traffic jams	Public complaints regarding traffic congestion due to MRT-EWLP1S1 activities	Underground construction work	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/field survey of public complaints regarding traffic congestion due to MRT- EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of community complaints submitted to the person in charge of the activity with the number and types of complaints that have been officially resolved/agreed upon in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kramat,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kelapa Gading,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Rorotan.</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

6a.	Decreased traffic	Traffic performance	Ground Surface	Method of collecting data :	• Jl. Letjen S Parman	Once every 3 months	Directorate General	a) I
	performance	(Vc ratio value)	Construction Work	<ul> <li>Capacity data for each road</li> </ul>	(S 06°10′21.64″:		of Railways (DJKA)	6
				section was obtained based on	E 106°47'20.14")			
				the results of the Andalalin MRT-	• Jl. Kyai Tapa			b) [
				EWLP1S1 study (2023)	(S 06°10′1.092″:			1
				Calculate vehicle traffic volume	E 106°47'21.73")			c) 1
				directly in the field using the 24-	• II. Kvai Tapa			ľ
				hour traffic counting method	(\$ 06°10′6 384″·			d) (
				nour traine counting method	$F 106^{\circ}47'18 56''$			
				Data analysis mothod				
				Data analysis metriou :				
				Data from traffic volume	(\$06'9'57.99':			e)
				calculations is analyzed to	E 106°4/'38.0/")			
				determine the road traffic	• Jl. Kyai Tapa			[
				performance (level of service). The	(\$ 06°9'59.11":			f) [
				level of service (LOS) value is	E 106°47'36.06")			6
				determined based on the VCratio	• Jl. KH. Hasyim Ashari			[
				value with the equation:	(S 06°9'57.49":			g)
				V Keterangan :	E 106°48'16.77")			1
				$VC_{ratio} = - V = Vol. arus lalu lintas ($	• Jl. West Cideng and Jl.			
				C C Repuires ( /jam/	East Cideng			h)
				Determination of road traffic	(\$ 06°10'6 312".			<i>,</i>
				performance based on the VCratio	F 106°/8'28 12"\			
				value refers to the following criteria	E 100 40 50.12 )			
				(MKJI, 1997):				
					(5 06 10 53.54":			
				LOS category A with a VCratio	E 106°48'50.39″)			
				value < 0.60	• Jl. Jati Baru Raya			1
				• LOS category B with a VCratio	(\$ 06°10′53.83″:			
					E 106°48'53.56")			
					• Jl. Kebon Sirih			
				• LOS category C with a VCratio	(S 06°10′59.08″:			
				value ≤ 0.80	E 106°49'35.11")			
				<ul> <li>LOS category D with a VCratio</li> </ul>	• U Turn at Tugu Tani			
				value ≤ 0.90	(\$ 06°10′57 07″·			
				LOS category E with a VCratio	E 106°50'6 602"			
				value ≤ 1				
				• LOS category E with a VCratio	• JI. Kramat Kwitang			
					(\$ 06~10′53.68″:			
				value ≥ 1	E 106°50'12.22")			
					<ul> <li>Jl. Letjen Suprapto</li> </ul>			
					(S 06°10′39.57":			
					E 106°50'35.05")			
					• Jl. Letjen Suprapto			
					(S 06°10′29 20″·			
					F 106°50'55 82"			
					• JI. Letjen Suprapto			
					(S 06°10′20.10″:			
					E 106°51'44.60")			
					• Jl. Perintis Kemerdekaan			
					(\$ 06°10'0.336":			
					E 106°52'44.90")			
					• Jl. Perintis Kemerdekaan			
					(S 06°9′58 17″∙			
					E 106°52'/0 83"\			
					L IUU J2 43.03 /			
					• JI. Permus Kemerdekaan			1
					(5.06°10°19.12″:			
					E 106°53'19.60")			
					• Jl. Perintis Kemerdekaan			
					(S 06°10′51.74″:			
					E 106°54'28.58")			
					• Jl. Raya Bekasi			
					(S 06°10′57.35″:			
					F 106°54'57 63″)			
	1		1	1	<ul> <li>II. Kaya Bekasi</li> </ul>	1	1	1

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	
					(S 06°11′0.024″:			
					E 106°55'41.70")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°10′56.20″:			
					E 106°56'11.29")			
					<ul> <li>Jl. Raya Bekasi</li> </ul>			
					(S 06°11'9.203":			
					E 106°57'7.811")			
					• Jl. Raya Bekasi			
					(S 06°11′23.89″:			
					E 106°58'0.875")			
					Jl. East Canal Inspection			
					(S 06°10′21.97″:			
					E 106°58'17.43")			
					• Jl. Raya Bekasi			
					(S 06°11'33.21":			
					E 106°58'17.25")			
					<ul> <li>Jl. Kali Abang Tengah</li> </ul>			
					(S 06°11′45.34″:			
					E 106°58'30.46")			
					<ul> <li>Jl. Sultan Agung</li> </ul>			
					(S 06°11′46.71″:			
					• E 106°58'26.43")			

Supervisor	Report Recipient

No	Types of Impacts That Arise Indicators/Parameters Impact Source		Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient	
6b.	Increased vibration	Vibration level	Ground Surface Construction Work	<ul> <li>Method of collecting data :</li> <li>Measure vibration levels at frequency 4; 5; 6.3; 8; 10; 12.5; 16; 20; 25; 31.5; 40 and 50 Hz</li> <li>Measuring equipment: <ul> <li>Vibration capture device (accelerometer or seismometer)</li> <li>Vibration measuring equipment or analysis tools (vibration meter or vibration analyzer)</li> <li>1/3 octave or narrow band filter (1/3 octave or narrow band filter)</li> <li>Vibration level recorder (level or X - Y recorder)</li> <li>Vibration level measuring analysis tool (FFT analyzer)</li> </ul> </li> <li>Measurement method: <ul> <li>The vibration capture device is placed on the floor or vibrating surface, and connected to a vibration measuring instrument equipped with a filter</li> <li>The measuring instrument is installed on the deviation quantity (in the event that the instrument is not equipped with this facility, quantity conversion can be used)</li> <li>Reading and recording are carried out for each frequency 4 - 50 Hz or by sweeping with a vibration recording device.</li> <li>The results of 12 measurements of data are depicted in the Standard Graph of Mechanical Vibration Levels Based on Damage Impact (Attachment II to Minister of Environment Decree No. 49 of 1996)</li> </ul> </li> <li>Data analysis method :</li> <li>Comparing the vibration level measurement results with the Vibration Level Standards in the Decree of the Minister of Environment No. 49/MENLH/ 11/1996 (Appendix II – Table 1. Standard Mechanical Vibration Levels Based on Damage Impact)</li> </ul>	<ul> <li>UKG-1 (S 06°10'30.59": E 106°47'33.35")</li> <li>UKG-7 (S 06°10'31.25": E 106°53'36.19")</li> <li>UKG-8 (S 06°10'57.48": E 106°54'58.80")</li> <li>UKG-9 (S 06°11'03.85": E 106°56'32.89")</li> <li>UKG-10 (S 06°11'25.46": E 106°58'05.75")</li> <li>UKG-11 (S 06°11'46.05": E 106°58'33.59")</li> </ul>	Once every 3 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment Department</li> <li>i) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
6c.	Occurrence of Environmental Disturbances (dust, noise, piles of sediment, and puddles)	Public complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) due to MRT-EWLP1S1 activities	Ground Surface Construction Work	<ul> <li>Method of collecting data :</li> <li>Public complaint data was obtained from the Complaint Service Post</li> <li>Conduct observation/field surveys regarding community complaints regarding environmental disturbances (dust, noise, puddles/floods and piles of sediment) resulting from MRT-EWLP1S1 activities</li> <li>Data analysis method :</li> <li>Compare the number and types of public complaints submitted to the person in charge of the activity with the number and types of complaints that have been resolved/agreed officially in accordance with the established community complaint handling mechanism</li> </ul>	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Sumur Batu,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. West Kelapa Gading,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Rayu Putih,</li> <li>Ex. Pulo Gadung,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. East Cakung,</li> <li>Ex. Ujung Menteng</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
6d.	There are traffic jams	Public complaints regarding traffic congestion due to MRT-EWLP1S1 activities	Underground construction work	Method of collecting data : • Public complaint data was obtained from the Complaint Service Post • Conduct observation/field survey of public complaints regarding traffic congestion due to MRT- EWLP1S1 activities Data analysis method : Compare the number and types of community complaints submitted to the person in charge of the activity with the number and types of complaints that have been officially resolved/agreed upon in accordance with the established community complaint handling mechanism	<ul> <li>Ex. Tomang,</li> <li>Ex. Tanjung Duren Selatan,</li> <li>Ex. Grogol,</li> <li>Ex. Duri Pulo,</li> <li>Ex. Cideng,</li> <li>Ex. North Petojo,</li> <li>Ex. South Petojo,</li> <li>Ex. Gambir,</li> <li>Ex. Kampung Bali,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Kebon Sirih,</li> <li>Ex. Senen,</li> <li>Ex. Kramat,</li> <li>Ex. Tanah Tinggi,</li> <li>Ex. Galur,</li> <li>Ex. Galur,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Baru,</li> <li>Ex. Cempaka Putih Barat,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Cempaka Putih Timur,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Pegangsaan Dua,</li> <li>Ex. Kayu Putih,</li> <li>Ex. Rawa Terate,</li> <li>Ex. West Cakung,</li> <li>Ex. Bast Cakung,</li> <li>Ex. Medan Satria,</li> <li>Ex. Rorotan.</li> </ul>	Every month	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
 1.									
1a.	Improved traffic performance	Traffic performance (Vc ratio value)	Transportation of passengers and station operations	Method of collecting data : • Capacity data for each road section was obtained based on the results of the Andalalin MRT- EWLP1S1 study (2023) • Calculate vehicle traffic volume directly in the field using the 24- hour traffic counting method Data analysis method : Data from traffic volume calculations is analyzed to determine the road traffic performance (level of service). The level of service (LOS) value is determined based on the VCratio value with the equation: $VC_{ratio} = \frac{V}{C} \sum_{c = Kapasitas} (mp/_{jam})$ Determination of road traffic performance based on the VCratio value refers to the following criteria (MKJI, 1997): • LOS category A with a VCratio value ≤ 0.60 • LOS category C with a VCratio value ≤ 0.70 • LOS category D with a VCratio value ≤ 0.90 • LOS category F with a VCratio value ≥ 1	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kebon Station;</li> <li>Galur Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station;</li> </ul>	Once every 3 months	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) Ministry of Transportation</li> <li>c) DKI Jakarta Provincial Environmental Service</li> <li>d) West Java Province Environmental Service</li> <li>e) Central Jakarta Environment Department</li> <li>f) West Jakarta Environment Department</li> <li>g) North Jakarta Environment Department</li> <li>h) East Jakarta Environment</li> <li>Department</li> <li>i) Bekasi City Environmental Service</li> </ul>

Supervisor
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No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1b.	Decreased air quality	Air quality with parameters: TSP, PM10, PM2.5, CO, SO2, NO2	Transportation of passengers and station operations	Method of collecting data : Take samples of air quality parameters and analyze these samples in the laboratory, in collaboration with a KAN accredited laboratory Data analysis method : Comparing the results of the analysis of air quality parameters with the Ambient Air Quality Standards in PP No. 22 of 2021 – attachment VII.	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kebon Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> </ul>	Carried out every 3 months for ambient air Once every 6 months emissions (from generators and vehicles) during operation activities	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment</li> </ul>
1c.	Increased disease vectors	<ul> <li>Availability of Sewage Treatment Plan (STP) at each station</li> </ul>	Waste water from station operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the existence of MCK at each station</li> </ul>	<ul> <li>Pengginingan Station;</li> <li>West Cakung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station;</li> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> </ul>	Observations on the presence of MCK are carried out every 6	Directorate General of Railways (DJKA)	Environment Department h) Bekasi City Environmental Service a) Ministry of Environment and Forestry	<ul> <li>Department</li> <li>h) Bekasi City Environmental Service</li> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial</li> </ul>
		Carrying out regular waste water suction		<ul> <li>Recording the frequency and volume of waste water sucked up by the PAL Jaya Regional Company in the waste water suction logbook</li> <li>Data analysis method: Data analysis was carried out by</li> </ul>	<ul> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> </ul>	months Recording of the flow and volume of waste water sucked is carried out every time the waste water is sucked out		<ul> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta</li> </ul>	Environmental Service c) West Java Province Environmental Service d) Central Jakarta Environment Department e) West Jakarta Environment
				comparing the results of observations (the existence of MCK) and recording (the flow and volume of waste water sucked) with indicators of environmental management success.	<ul> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>Penggilingan Station;</li> <li>West Cakung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station;</li> </ul>			<ul> <li>c) west sukarta</li> <li>Environment</li> <li>Department</li> <li>f) North Jakarta</li> <li>Environment</li> <li>Department</li> <li>g) East Jakarta</li> <li>Environment</li> <li>Department</li> <li>h) Bekasi City</li> <li>Environmental</li> <li>Service</li> </ul>	Department f) North Jakarta Environment Department g) East Jakarta Environment Department h) Bekasi City Environmental Service

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
1d.	Increased disease vectors	<ul> <li>Availability of segregated waste bins and TPS at each station Carrying out regular waste transportation</li> </ul>	Waste from station operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the existence of segregated waste bins (organic waste and inorganic waste) and Temporary Storage Places (TPS) in the form of container boxes at each station</li> <li>Recording the frequency and volume of waste transported periodically by the DKI Jakarta and Bekasi City Governments in the waste transportation logbook</li> <li>Data analysis method: Data analysis was carried out by comparing the results of observations (trash bins and TPS) and recording (trash bins and TPS) and recording (trash bins and with indicators of environmental management success.</li> </ul>	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>West Pakulonan Station;</li> <li>Perintis Station;</li> <li>Penggilingan Station;</li> <li>West Cakung Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station;</li> </ul>	<ul> <li>Observations of the existence of segregated waste bins and TPS are carried out every 6 months</li> <li>Recording of the frequency and volume of waste transported is carried out every time the waste is transported</li> </ul>	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
1e.	Increased disease vectors	<ul> <li>B3 waste packaging</li> <li>The presence of B3 waste labels and symbols on LB3 packaging</li> <li>LB3 storage time</li> <li>The existence of TPS LB3</li> <li>LB3 Freight</li> </ul>	LB3 from station operations	<ul> <li>Method of collecting data :</li> <li>Conduct field observations on the suitability of B3 waste packaging to the type and characteristics of B3 waste</li> <li>Conduct field observations on the existence and suitability of B3 waste labels and symbols on LB3 packaging</li> <li>Record the entry and exit of B3 waste in the LB3 transit room in the B3 waste storage logbook</li> <li>Conduct field observations of the existence of LB3 transit noise</li> <li>Create a B3 waste balance sheet complete with an LB3 transportation manifest</li> <li>Data analysis method :</li> <li>Data analysis was carried out by comparing the results of recording and observing the implementation of B3 waste management with indicators of environmental management success</li> </ul>	<ul> <li>Tomang Station;</li> <li>Grogol Station;</li> <li>Roxy Station;</li> <li>Petojo Station;</li> <li>Cideng Station;</li> <li>Thamrin Station;</li> <li>Kebon Sirih Station;</li> <li>Kwitang Station;</li> <li>Senen Station;</li> <li>Galur Station;</li> <li>Cempaka Baru Station;</li> <li>Sumur Batu Station;</li> <li>East Pakulonan Station;</li> <li>Perintis Station;</li> <li>Pulo Gadung Station;</li> <li>Pulo Gebang Station;</li> <li>Ujung Menteng Station;</li> <li>Medan Satria Station;</li> </ul>	Observations on the implementation of B3 waste management in the LB3 transit room are carried out every 6 months Recording of the volume of LB3 transported is carried out every time the LB3 is transported by a third party who has an LB3 transportation permit from the MINISTRY OF ENVIRONMENT AND FORESTRY	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) West Java Province Environmental Service</li> <li>d) Central Jakarta Environment Department</li> <li>e) West Jakarta Environment Department</li> <li>f) North Jakarta Environment Department</li> <li>g) East Jakarta Environment Department</li> <li>h) Bekasi City Environmental Service</li> </ul>
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No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
2a.	Increased disease vectors	• Availability of Sewage Treatment Plan (STP) and industrial waste water treatment plant (IWTP) Carrying out regular waste water suction	Waste water from depot operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the presence of MCK in the depot</li> <li>Recording the frequency and volume of waste water sucked up by the PAL Jaya Regional Company in the waste water suction logbook</li> <li>Data analysis method:</li> <li>Data analysis was carried out by comparing the results of observations (the existence of MCK) and recording (the flow and volume of waste water sucked) with indicators of environmental management success.</li> </ul>	• Rorotan Depot	Observations on the presence of MCK are carried out every 6 months Recording of the flow and volume of waste water sucked is carried out every time the waste water is sucked out	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) North Jakarta Environment Department</li> </ul>
2b.	Increased disease vectors	<ul> <li>Availability of segregated waste bins and TPS Carrying out regular waste transportation</li> </ul>	Waste from depot operations	<ul> <li>Method of collecting data:</li> <li>Conduct field observations of the existence of segregated waste bins (organic waste and inorganic waste) and Temporary Storage Places (TPS) in the form of container boxes</li> <li>Recording the frequency and volume of waste transported periodically by the DKI Jakarta Government in a waste transportation logbook</li> <li>Data analysis method: Data analysis was carried out by comparing the results of observations (trash bins and TPS) and recording (trash bins and volume of transported waste) with indicators of environmental management success.</li> </ul>	• Rorotan Depot	Observations of the existence of segregated waste bins and TPS are carried out every 6 months Recording of the frequency and volume of waste transported is carried out every time the waste is transported	Directorate General of Railways (DJKA)	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) North Jakarta Environment Department</li> </ul>	<ul> <li>a) Ministry of Environment and Forestry</li> <li>b) DKI Jakarta Provincial Environmental Service</li> <li>c) North Jakarta Environment Department</li> </ul>

No	Types of Impacts That Arise	Indicators/Parameters	Impact Source	Data Collection and Analysis Methods	Environmental Monitoring Locations	Monitoring Time and Frequency	Executor	Supervisor	Report Recipient
2c.	Increased disease	<ul> <li>B3 waste packaging</li> </ul>	LB3 from depot	Method of collecting data :	<ul> <li>Rorotan Depot</li> </ul>	<ul> <li>Observations on the</li> </ul>	Directorate General	a) Ministry of	a) Ministry of Environment
	vectors	<ul> <li>The presence of B3</li> </ul>	operations	• Conduct field observations on the		implementation of B3	of Railways (DJKA)	Environment and	and Forestry
		waste labels and		suitability of B3 waste packaging		waste management at		Forestry	b) DKI Jakarta Provincial
		symbols on LB3		to the type and characteristics of		TPS LB3 are carried out		b) DKI Jakarta Provincial	Environmental Service
		packaging		B3 waste		every 6 months		Environmental Service	c) North Jakarta
		<ul> <li>LB3 storage time</li> </ul>		• Conduct field observations on the		Recording of the volume		c) North Jakarta	Environment
		• The existence of TPS		existence and suitability of B3		of LB3 transported is		Environment	Department
		LB3		waste labels and symbols on LB3		carried out every time the		Department	
		LB3 Freight		packaging		LB3 is transported by a			
				Record the entry and exit of B3		third party who has an			
				waste at TPS LB3 in the B3 waste		LB3 transportation permit			
				storage logbook		from the MINISTRY OF			
				Conduct field observations of the					
				existence of TPS LB3		FORESTRY			
				Create a B3 waste balance sheet					
				complete with an LB3					
				transportation manifest					
				Data analysis method :					
				Data analysis method : Data analysis was carried out by					
				comparing the results of recording					
				and observing the implementation					
				of B3 waste management with					
				indicators of environmental					
				management success					

#### ENVIRONMENTAL MANAGEMENT PLAN-ENVIRONMENTAL MONITORING PLAN

MRT East – West Line Phase 1 Stage 1



Figure 3.1. Enviromental Monitoring Plan Map



### KEMENTERIAN PERHUBUNGAN DIREKTORAT JENDERAL PERKERETAAPIAN

JL. MEDAN MERDEKA BARAT NO. 8 JAKARTA 10110 TELP : (021) 3506204, 3856836 3505557, 3505558 3505559, 3506526

FAX : (021) 3860758 3813972

### PERNYATAAN KOMITMEN PELAKSANAAN RKL-RPL

Yang bertanda tangan di bawah ini :

Nama : Mohamad Risal Wasal

Jabatan : Direktur Jenderal Perkeretaapian, Kementerian Perhubungan

Alamat : Jl. Medan Merdeka Barat No. 8, Jakarta Pusat, DKI Jakarta

Dengan ini menyatakan komitmen untuk :

- 1. Melaksanakan program pengelolaan dan pemantauan lingkungan hidup sebagaimana tertuang dalam dokumen Rencana Pengelolaan Lingkungan Hidup (RKL) Rencana Pemantauan Lingkungan Hidup (RPL) MRT *East-West Line Phase I Stage I.*
- Menyampaikan laporan hasil pelaksanaan program pengelolaan dan pemantauan lingkungan hidup kepada Kementerian Lingkungan Hidup dan Kehutanan secara berkala sebagaimana tertuang dalam dokumen Rencana Pengelolaan Lingkungan Hidup (RKL) – Rencana Pemantauan Lingkungan Hidup (RPL) MRT *East-West Phase I Stage I.*
- 3. Bertanggung jawab menanggulangi dampak negatif yang terjadi akibat aktivitas Jakarta MRT *East-West Line* yang belum terkaji atau tercakup dalam dokumen AMDAL ini.
- 4. Mengajukan perubahan Persetujuan Lingkungan sesuai dengan ketentuan yang berlaku, apabila terjadi perubahan usaha dan/atau kegiatan MRT *East-West Line Phase I Stage I.*

Jakarta, 24 Mei 2023 Penanggung Jawab Kegiatan, Direktur Jenderal Perkeretaapian, JENDE METERAL RERETAAPIAN OBAKX307616009 Ir. Mohamad Risal Wasal, A.TD., M.M., IPM NIP. 19670608 199003 1 005