

**PT BUMI INDONESIA**

Survey Instruments - GPS - Topography & Drilling Explorations - Water well - Soil Test - Soil & Rock Lab - Piling & Borepile - Mining Consultants - Civil Engineering & Construction  
 Head Office : Jl. Tantina 1, RT 18, No 26 (Jl. AM. Sangaji ) Samarinda, Kalimantan Timur. Telp/Fax (0541) 745244, 0811590455 - 0811558977  
 Branch Office : Perumahan Delta Mas, Jl. Berua Raya - Daya, Makassar. - Surabaya (sidoarjo) - Bandung - Papua (Jayapura) - Balikpapan  
 Email : admin@ptbumiindonesia.co.id - coilbaru@gmail.com - soiltest@ptbumiindonesia.co.id - geotek@ptbumiindonesia.co.id  
 Website : www.ptbumiindonesia.co.id - www.tokosurvey.com Sales - Service - Rental - Kalibrasi - Training

NUMBER OF BORE HOLE : BHL.01 Teluk Waru, Balikpapan, Kalimantan Timur

STANDARD :

SNI 2436 - 2008, PROCEDURES OF RECORDING AND IDENTIFYING CORE DRILLING RESULT

PROJECT : Nickel Smelter Project

POINT NUMBER : BHL.01

DATE : 21 September 2021 - 22 September 2021

GROUND WATER ELEVATION : -

TOTAL DEPTH : 10.00 m

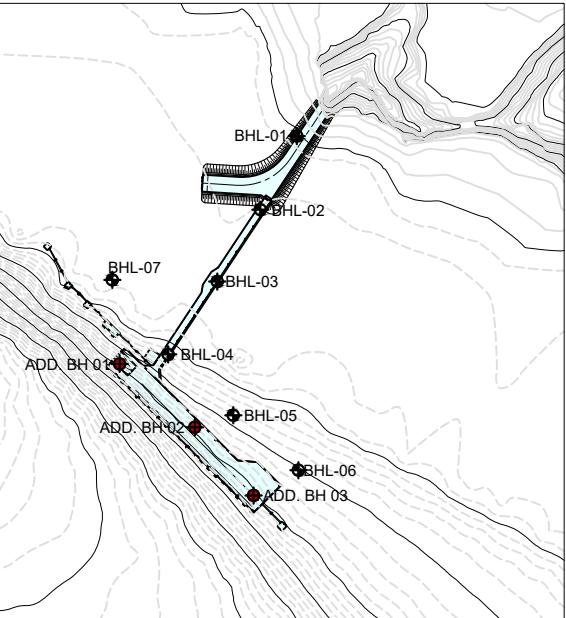
DRILL RIG : Rotary Core Drilling / Donfeng Power Rig

COORDINATE : X = 471696.000, Y = 9876800.000, Z = 5.00 m

LOGING : Team PT. BI

CHECKER : Reza Delizar, Amd

HIGH SCAFFOLDING : 3.00 m



NOTES :  
 1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.  
 2. WATER LEVEL ARE DETERMINED FROM CHART DATUM (CDL) (LWS) ±0.00  
 3. HIGHEST HIGH WATER LEVEL (HHWL) +3.490 m  
 4. MEAN SEA LEVEL (MSL) +1.70 m  
 5. LOWEST LOW WATER LEVEL (LLWL) -0.21 m

**ORIGINAL**

FOR APPROVAL  
 DATE 17 Apr 22

MMP  
 BASIC ENGINEERING DESIGN

MMP001 - MMP Nickel Smelter Project Document Review Code Stamp		
Code	Description	
C1	Approved	
C2	Approved with comments Work may proceed	
C3	Revise and resubmit Work may not proceed	
C4	Not Reviewed No review required / Information only	✓
Date	Reviewed By	Signature
	YO	

MMP-DWG-100-C-0001	GENERAL - BATHYMETRY & SOIL INVESTIGATION LAYOUT	
DWG. NO.	REFERENCE DRAWING	REV

1	05-APR-2022	RE-ISSUED FOR APPROVAL
0	25-FEB-2022	ISSUED FOR APPROVAL
REV	DATE	DESCRIPTION

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 MURNI PERKASA.

	<b>MMP</b> Mitra Murni Perkasa		<b>Wika</b> WIJAYA KARYA (PERSERO) Tbk
SUBCONSULTANT			
APPROVED BY	PT.WIKA	SIGN	PT.ATTRYA
CHECKED BY	HSFA	MR	KR
DESIGNED BY		DP	DO
DRAWN BY		SH	SH
SCALE as shown	SHEET 1 OF 2	NAME: MMP NICKEL SMOELTER PROJECT	REV. 1
		TITLE: - GENERAL -	
		SOIL BORLOG BHL-01 & BHL-02 (SHEET 1 OF 2)	
		DWG NO: MMP-DWG-100-C-0003	

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NUMBER OF BORE HOLE : BHL.02 Teluk Waru, Balikpapan, Kalimantan Timur

STANDARD :

SNI 2436 - 2008, PROCEDURES OF RECORDING AND IDENTIFYING CORE DRILLING RESULT

PROJECT : Nickel Smelter Project

POINT NUMBER : BHL.02

DATE : 23 September 2021 - 24 September 2021

GROUND WATER ELEVATION : -

TOTAL DEPTH

: 10.00 m DRILL RIG

COORDINATE : X = 471614.000, Y = 9876695.000, Z = 5.00 m

LOGING : Team PT. BI

CHECKER : Reza Delizar, Amd

HIGH SCAFFOLDING : 4.00 m

METHOD	MAT	DEPTH (m)	SAMPLE OR FIELD TEST				GRAPHICLOG	UNDISTURBED SAMPLE	MATERIAL DESCRIPTION	SOIL CONSISTENCY	GRAPH OF SPT						RECOVERY (%)	RQD (%)	DOCUMENTS SAMPELS			
			N1	N2	N3	N=					10	20	30	40	50	60						
CORE DRILLING		1					USD 1		Sandy SILT, Brown	Stiff												
		2							Clayey SAND, Brown													
		3	9	11	18	N= 29			Fine Sandy CLAY, Grey	Very Stiff												
		4							Fine Clayey SAND, Brown													
		5	55	60		N= 60			Fine SAND, Yellowish Brown													
		6							Fine SAND, Yellowish Brown													
		7	20	46	14	N= 60			Fine SAND, Brown													
		8							Fine SAND, Brown													
		9	32	50	10	N= 60			Fine SAND, Brown													
		10							Fine SAND, Brown													
		11	30	40	20	N= 60																
		12																				
		13																				
		14																				
		15																				
		16																				
		17																				
		18																				
		19																				
		20																				



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**ORIGINAL**

FOR APPROVAL  
DATE 17 Apr 22

MMP Mitra Murni Perkasa

BASIC ENGINEERING DESIGN

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	<b>MMP</b> Mitra Murni Perkasa		<b>PT. WIJAYA KARYA (PERSERO) Tbk</b>
SUBCONSULTANT		ATTRYA	Advanced Technology Resources
APPROVED BY	PT.WIKA	SIGN	PT.ATTRYA
CHECKED BY	HSFA	SIGN	PT.ATTRYA
DESIGNED BY		SIGN	DO
DRAWN BY		SIGN	KR
SCALE as shown	SHEET 2 OF 2	SHEET 2 OF 2	DWG NO: MMP-DWG-100-C-0003 REV 1