PT. BUKIT RAYA SEKAWAN

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COMPANY PROFILE 2026

PT BUKIT RAYA SEKAWAN

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ABOUT COMPANY

PT. Bukit Raya Sekawan is a leading consulting company specializing in the mining and infrastructure industry, dedicated to providing innovative and sustainable solutions to clients.

Established in 2016, we have built a solid reputation as a trusted partner in geotechnical projects. Originally established, **PT Bukit Raya Sekawan** was a geotechnical consulting company. However, we have since evolved to become a full-service consultancy, from early-stage exploration to large-scale mining operations.

Our expertise spans across various minerals and coal, we are committed to delivering high-quality consulting services that enhance the productivity, efficiency, and be the best result solution for a client of the mining sector.

CEO STATEMENT

As a CEO of PT. Bukit Raya Sekawan and PT Minearth Geo Solution (sister company), I am proud to lead a team of dedicated professionals who are committed to providing innovative, sustainable, and best solutions to the mining industry. Since our founding, our goal is to support our clients in navigating the complexities of the mining sector by providing expert advice, cutting-edge technologies, and a deep understanding of the challenges.

Over the years, PT Bukit Raya Sekawan has grown from a small geotechnical consulting company to a trusted partner in all stages of mining projects.

We understand that the mining industry is evolving rapidly, with new technologies and regulations continuously shaping the way operations are managed. At our company, we stay ahead of the curve, embracing innovation and continuously improving our services to ensure that we meet the highest industry standards while minimizing environmental impact.

As we look to the future, I am confident that PT Bukit Raya Sekawan will continue to be a leader in the consulting. We will keep pushing boundaries, delivering excellence, and helping our clients achieve their goals in a sustainable, efficient, and the best result solution.

Thank you for your trust in PT. Bukit Raya Sekawan. We look forward to partnering with you on projects and achieving success together.

Sincerely,
Ir. Endang Iskandar, ST., IPM., ASEAN Eng., APEC Eng., MAusIMM.
CEO, PT Bukit Raya Sekawan

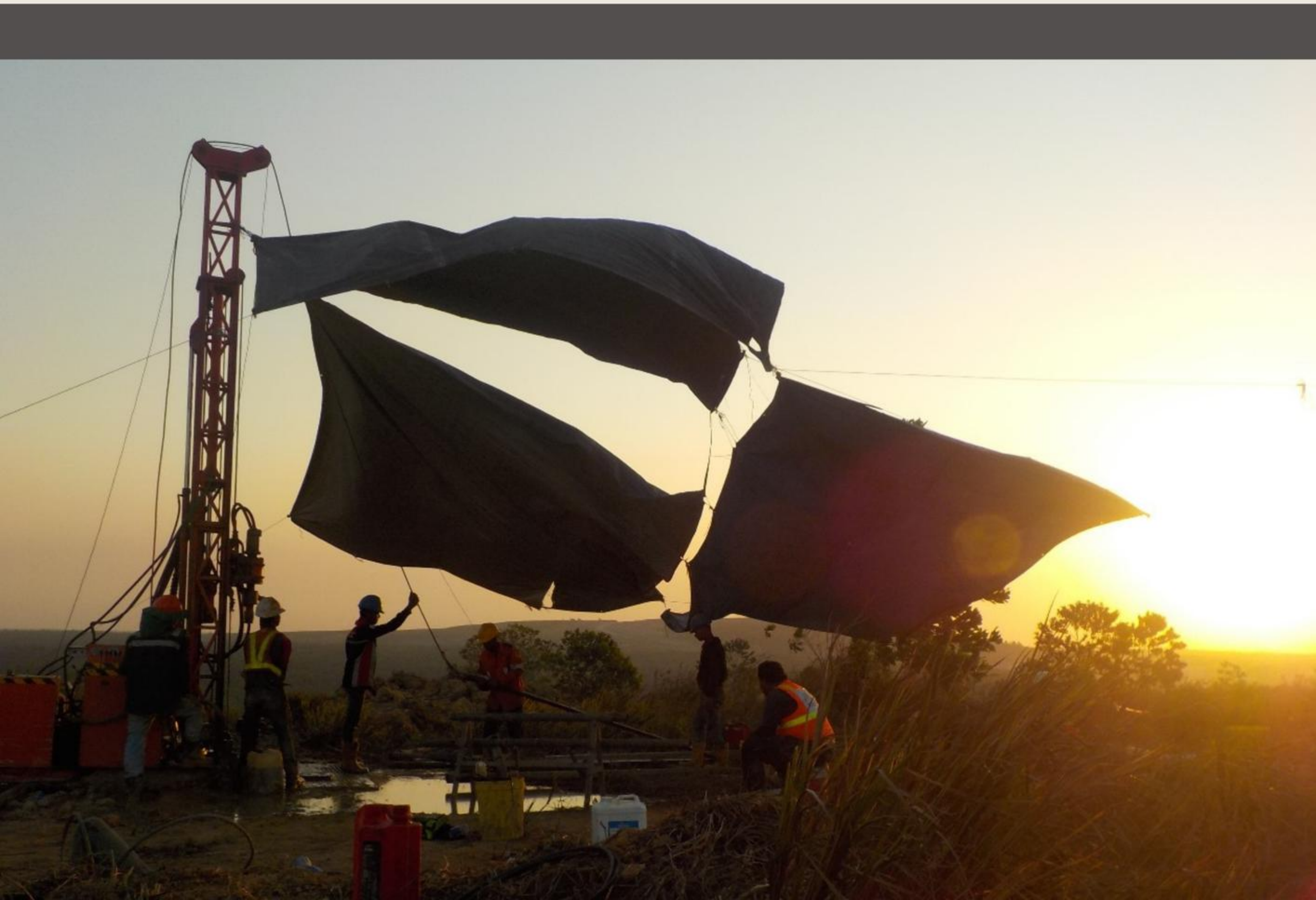
LEGALITY

GENERAL

- Company Name : **PT BUKIT RAYA SEKAWAN**
- Address : **The Golden Nest Blok B-10, Jl Perdana Raya, Kedung Badak, Kecamatan Tanah Sareal, Kota Bogor 16164**
- E-mail : **marketing@br-s.co.id**
- Website : **www.br-s.co.id**

BUSSINESS LICENSE

- NIB : **8120218212761**
- Permit : **Aktivitas Penunjang Pertambangan dan Penggalian Lainnya**
- IUJP : **1/1/IUJP/PMDN/2023**



VISION

Being the client's company of choice by providing the best consulting services

MISSION

"To be the client's trusted partner by delivering exceptional consulting services that drive innovation, foster growth, and create sustainable value. We are committed to understanding our clients' unique challenges and opportunities, offering tailored solutions with the highest standards of expertise, integrity, and professionalism. Our goal is to consistently exceed expectations and be the consulting firm of choice for those seeking impactful, results-driven guidance."

This statement emphasizes :

- ***Client-Centric Approach:*** *The focus is on the client's needs and building a relationship of trust*
- ***Excellence and Expertise:*** *Commitment to high-quality, professional service*
- ***Sustainable Value:*** *Solutions that lead to long-term success*
- ***Tailored Solutions:*** *A personalized approach to each client's unique situation*

QUALITY POLICY

PT. Bukit Raya Sekawan, committed to delivering consulting services of the highest quality that meet and exceed our clients' expectations. Our core principle is to provide innovative, sustainable, and tailored solutions that address the unique challenges of each client.

To achieve this, we commit to:

1. ***Client Satisfaction**: prioritize understanding our clients' needs and strive to deliver solutions that result in measurable success and long-term value.*
2. ***Excellence in Service Delivery**: We are dedicated to maintaining the highest standards of expertise, professionalism, and integrity in every project and client interaction.*
3. ***Continuous Improvement**: foster a culture of continuous learning and improvement within our team to enhance the effectiveness, efficiency, and quality of our services.*
4. ***Collaboration and Communication**: maintain open, transparent communication with clients and partners, ensuring that we are aligned with their goals and providing timely, accurate information.*
5. ***Compliance and Best Practices**: adhere to industry standards, legal requirements, and best practices to ensure that our solutions are both innovative and compliant.*
6. ***Sustainable Value Creation**: focus on creating lasting, impactful solutions that foster long-term growth and success for our clients, while continuously adapting to changing market dynamics.*

Through these commitments, we aim to consistently deliver high-quality consulting services that position us as the preferred choice for our clients.



COMPANY SAFETY POLICY

At PT. Bukit Raya Sekawan , we are dedicated to providing a safe and healthy work environment for all our employees, contractors, clients, and visitors. We believe that safety is paramount in all aspects of our operations and are committed to ensuring the well-being of everyone involved in our projects.

We recognize that safety is essential not only for our employees but for the success of our business and the trust of our clients.

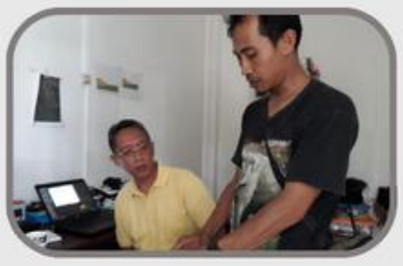
Our safety commitments include:

1. ***Health and Safety Standards:*** *comply with all applicable health and safety laws, regulations, and industry standards to ensure a safe workplace and work environment.*
2. ***Risk Management:*** *proactively identify, assess, and mitigate potential safety, health and environmnental risks associated with our consulting services, including any on-site activities or client interactions which aim to minimize exposure to hazards through proper planning, training, and communication.*
3. ***Employee Training:*** *All employees will receive regular training on health and safety practices, emergency procedures, and how to recognize and report potential hazards. We empower our team to take an active role in ensuring their own safety and that of their colleagues.*
4. ***Emergency Preparedness:*** *established and regularly review emergency procedures, including evacuation plans and first aid protocols, to ensure a swift and coordinated response in case of an emergency.*
5. ***Safety Culture:*** *foster a culture where safety is a shared responsibility. Our leader lead by example, promoting safe practices at all times. We encourage employees to actively report hazards, accidents, or unsafe conditions, and we respond swiftly to any concerns raised.*
6. ***Continuous Improvement:*** *committed to the continuous improvement of our safety practices. Through regular inspections and safety audits, feedback from employees and clients, and ongoing risk assessments, we ensure that our safety policies evolve to meet changing needs and challenges.*

COMPANY HISTORY

2016

PT. Bukit Raya Sekawan was founded in Bogor on October 25 2016 by three friends who have been close since college and are professionals in the mining sector. Initially, the company focused on being a geotechnical consulting company.



2020

- PT Bukit Raya Sekawan started its geotechnical project in 2017, located in Tapin, South Kalimantan.
- Between 2017 and 2020, PT Bukit Raya Sekawan successfully completed 9 geotechnical projects in East Kalimantan, South Sumatra, South Kalimantan, Central Kalimantan and North Maluku.
- Project performed include geotechnical drilling, hydro data acquisition, geotechnical and hydro analysis, recommendations, and reporting

2022

- In 2021, PT Bukit Raya Sekawan began on a coal exploration drilling project in East Kalimantan.
- In 2022, the company handled a project that included topographic surveys, exploration and geotechnical drilling, geotechnical studies, SPT, CBR, soil investigation for constructing a hauling road, as well as comprehensive hydrology and hydrogeology studies, all in one a project in the Murung Raya area, Central Kalimantan.

2023

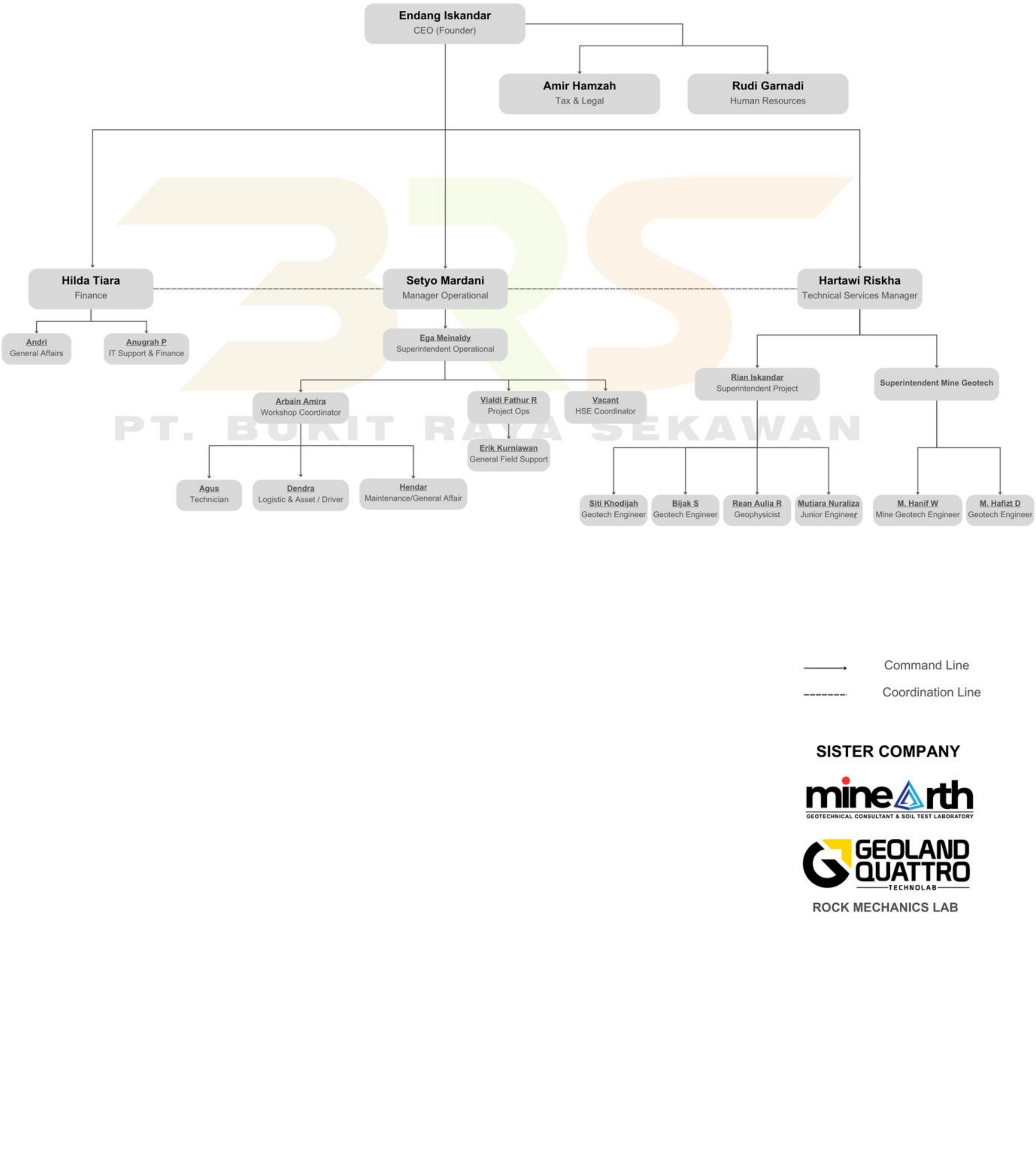
- In 2023, PT Bukit Raya Sekawan worked on 9 geotechnical, hydrological, and hydrogeological study projects in several IUP, as well as 3 coal exploration projects.
- In 2023, the company also began a disposal assessment project using the geoelectric resistivity method in Tapin area, South Kalimantan

2024

- In 2024, PT Bukit Raya Sekawan signed a mine to Life of Mine (LOM) geotechnical contract with BMB Blok Dua
- In the same year, PT Bukit Raya Sekawan's technical services experienced significant growth. We now offer geoelectric survey services for disposal and comprehensive hydrological and hydrogeological studies, from undergroundwater detection to hydrogeological recommendations.

PT. BUKIT RAYA SEKAWAN

ORGANIZATIONAL STRUCTURE



SISTER COMPANY

mineArth
GEOTECHNICAL CONSULTANT & SOIL TEST LABORATORY

GEOLAND QUATTRO
TECHNOLAB
ROCK MECHANICS LAB

MEET OUR TEAM

R. Endang Iskandar *(Chief Executive Officer)*
Ir. ST., IPM., ASEAN Eng., APEC Eng., MAusIMM

Ir. Hartawi Riska, ST,
CP Geotech Perhapi, Associate
Civil Geotechnical Expert
(Principal)

Hilda Tiara, SE
(Finance Manager)

Amir Hamzah, SE
(Tax & Legal)

Rudi Garnadi, ST
(Operational Manager)

Setyo Mardani, ST
(Technical Services Manager)

Ir. Rian Iskandar, ST
(Suptent Technical Services)

Ega Meinaldy, ST
(Project Coordinator)

Arbain Amira
(Mechanic Coordinator)

Bijak Syahpridama, ST
(Hydrologist)

Ir. Siti Khodijah, ST
(Geotech Engineer)

Vialdi Fathur Rahman, ST
(Geotech Engineer)

Mutiara Nuraliza, ST
(Junior Engineer)

Rean Aulia, S.Si
(Geophysicist)

OUR SERVICES

FEASIBILITY STUDY

Site Characterization

- Conducts a detailed geotechnical site investigation to characterize soil and rock conditions.
- IdentifieD geological features, fault lines, rock types, and potential geotechnical hazards.

Slope Stability Analysis:

- Evaluates the stability of open pit slopes and underground mine workings.
- Utilizes geotechnical modeling, including limit equilibrium analyses and numerical modeling techniques.

Geotechnical Design Criteria:

- Designs ground support systems, including rock bolts, mesh, and shotcrete for underground workings.
- Considers the potential for rockfalls and rockbursts.

Dewatering and Drainage:

- Evaluates groundwater conditions and designs dewatering systems to control water ingress.
- Implements drainage measures to minimize the risk of pore pressure-related failures.

Rock Mechanics Studies:

- Conducts laboratory testing and in-situ testing to determine rock mechanics properties.
- Incorporates rock mechanics data into geotechnical models for slope stability assessments.

Risk Assessment:

- Identifies geotechnical risks associated with slope failures, ground movements, and other geological hazards.
- Develops risk mitigation strategies to address potential issues during mining operations.

Geotechnical Monitoring Plan:

- Proposes a comprehensive geotechnical monitoring plan to track slope movements, groundwater levels, and other relevant parameters.
- Incorporates real-time monitoring techniques to detect early signs of instability.

Integration with Mine Planning:

- Collaborates closely with mining engineers to integrate geotechnical considerations into the mine design.
- Ensures that the mine layout and excavation sequences align with geotechnical stability requirements

Reporting and Documentation:

- Prepares a comprehensive geotechnical feasibility study report.
- Presents findings, analyses, and design recommendations in a clear and accessible official report format for ESDM

OUR SERVICES

EXPLORATION

Objective and Purpose

- Objective: The primary goal of drilling exploration is to obtain subsurface information to understand the geological and geotechnical conditions of the site.
- Purpose: It helps in locating and delineating mineral resources, assessing ground stability, and gathering data for engineering and environmental considerations.

Site Selection

- Target Area Identification: The selection of drilling locations is based on geological mapping, geophysical surveys, and preliminary exploration data.
- Mineral Potential: For mining exploration, sites with identified mineral potential are prioritized.

Geological Mapping

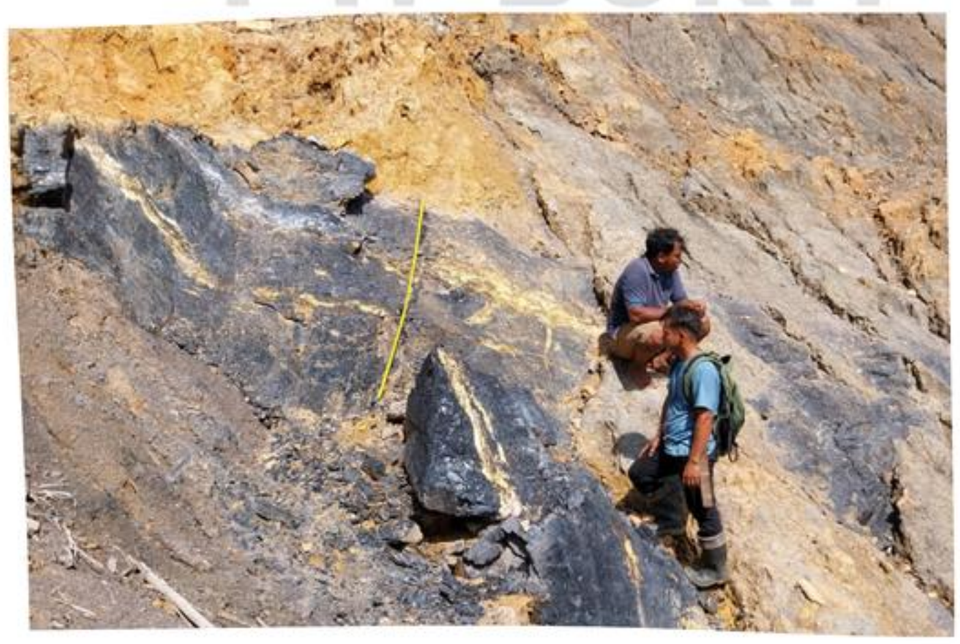
- Geological mapping activities include rock mapping and searching for lithological unit boundaries on the surface using compass traverse method
- The objective of surface mapping is to observe the strikes and dips of coal or others and non-coal outcrops to delineate the geological regional setting and the existence of surface coal occurances to assist in the planning of drilling target.

Drilling Techniques

- Rotary Drilling: Commonly used for both geotechnical and mineral exploration, involving the rotation of a drill bit to cut through subsurface materials.
- Core Drilling: Extracts cylindrical rock cores, providing intact samples for detailed analysis.

Borehole Design

- Depth and Inclination: The depth and inclination of the boreholes are determined based on project objectives, target depth of exploration, and the desired angle of inclination (if inclined drilling is required).
- Cluster Drilling: Multiple boreholes may be clustered in a specific area to create a more comprehensive subsurface profile.



Core Sampling

- Sample Recovery: Core drilling allows the recovery of continuous, intact rock samples, providing a more accurate representation of subsurface conditions
- Sample Preservation: Proper handling and preservation of core samples are essential to prevent contamination and maintain sample integrity

In-Situ Testing

- ConePenetration Testing (CPT): Involves pushing a cone- shaped probe into the ground at various depths to measure soil resistance, providing information about soil strength and stratigraphy.
- Standard Penetration Testing (SPT): Uses a split-spoon sampler to collect soil samples at different depths, assessing soil properties

Geophysical Logging

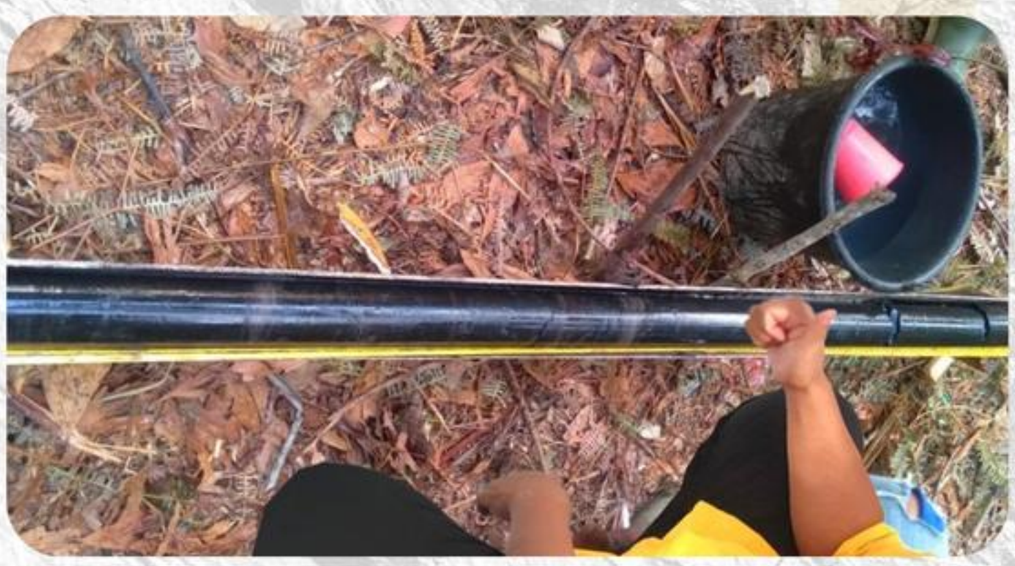
- Tools and Techniques: Specialized tools are used for geophysical logging of boreholes, measuring parameters such as gamma radiation, electrical resistivity, and acoustic properties.
- Data Interpretation: Geophysical logs aid in the interpretation of subsurface geology, assisting in identifying mineralized zones and geological structures.

Reporting and Data Analysis

- Compilation of Results: Data collected from drilling exploration is compiled and analyzed to create detailed geological profiles, mineral resource estimates, and geotechnical models.
- Feasibility Study Support: The information obtained supports feasibility studies for mining projects or geotechnical assessments for construction projects.

OUR SERVICES

EXPERT WITNESS AND DUE DILLIGENCE



Expert Witness and Due Dilligence

- Both expert witnesses and due diligence processes contribute to informed decision-making and risk management in legal and business contexts, providing the necessary expertise and scrutiny to enhance the robustness of legal proceedings and business transactions.

Scope of Due Diligence

- Due diligence can be conducted in various contexts, including mergers and acquisitions, real estate transactions, investments, partnerships, and business contracts.
- It involves a thorough review of financial, legal, operational, and other relevant aspects.

Financial Due Diligence:

- Examines the financial health of a business, including its financial statements, cash flows, debt obligations, and financial projections.
- Aims to identify any financial risks or irregularities that could impact the transaction.

Legal Due Diligence:

- Assesses the legal standing of a business or transaction, including contracts, litigation history, regulatory compliance, and intellectual property rights.
- Helps identify potential legal risks and liabilities.

Operational Due Diligence:

- Focuses on the operational aspects of a business, such as its management structure, supply chain, production processes, and key personnel.
- Aims to understand the efficiency and sustainability of operations.

Technical Due Diligence:

- Applied in sectors like technology or manufacturing, technical due diligence assesses the robustness of technology, infrastructure, and production capabilities.
- Identifies any technological risks or gaps.

Risk Mitigation and Informed Decision-Making:

- The goal of due diligence is to identify and assess risks associated with a transaction, allowing parties to make informed decisions.
- It involves the development of strategies to mitigate identified risks.

Legal Compliance:

- Ensures that the proposed transaction or business activity complies with relevant laws and regulations.
- Helps prevent legal complications that may arise post- transaction.

Documentation and Reporting:

- Due diligence involves thorough documentation of findings and the preparation of due diligence reports.
- These reports are shared with stakeholders and may influence negotiations and final decisions.

OUR SERVICES

GEOLOGICAL MODELLING

3D Geological Modeling

- Utilizes advanced software to create three-dimensional models of subsurface geology, providing a visual representation of geological structures and variations.
- Integrates data from drilling, geophysical surveys, and other sources to enhance understanding of the geological setting.

Integration with Geotechnical Data

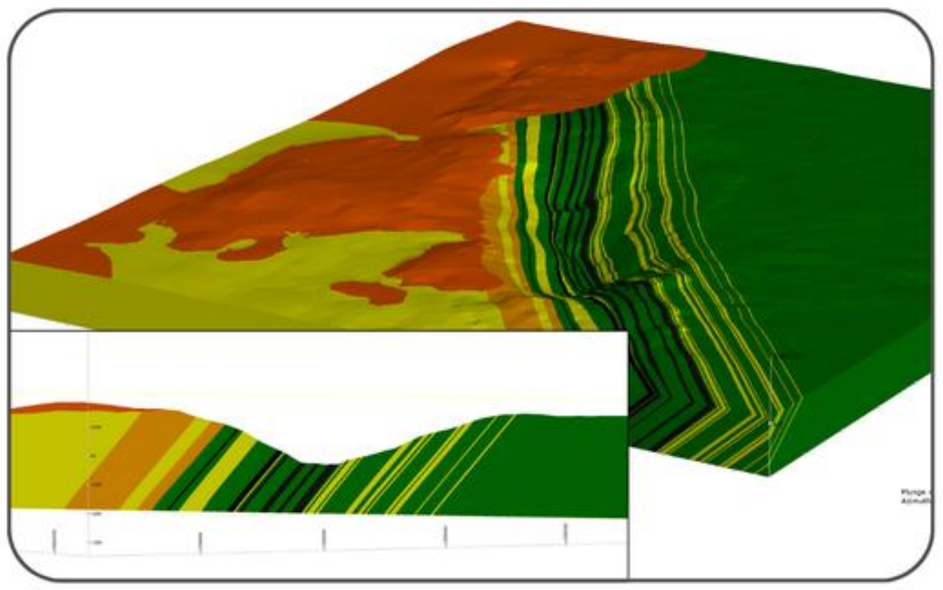
- Incorporates geotechnical data into geological models to better understand the distribution of rock types, fault lines, and other geological features affecting ground stability.
- Enables a seamless transition between geological and geotechnical investigations for a more holistic analysis.

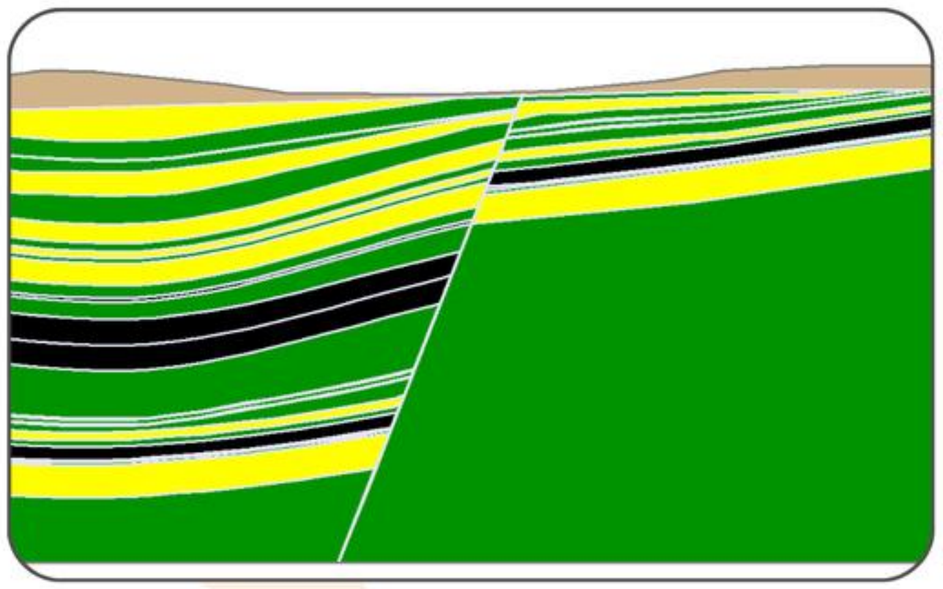
Geological Strength Parameter Mapping

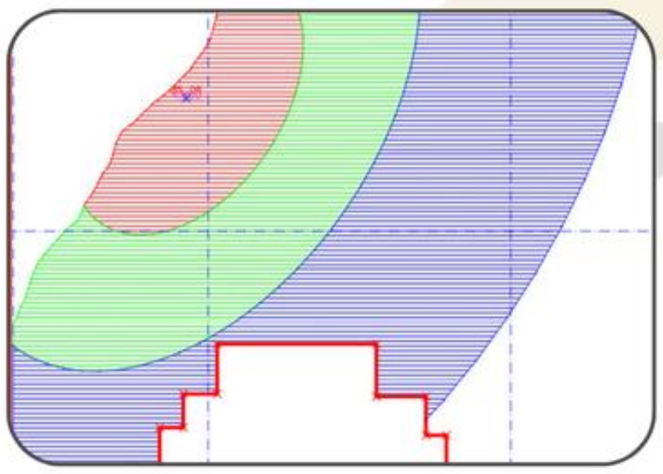
- Maps geological strength parameters, such as rock cohesion and internal friction angles, to assess the geotechnical properties of different geological units.
- Facilitates targeted geotechnical investigations by identifying areas with higher or lower stability potential.

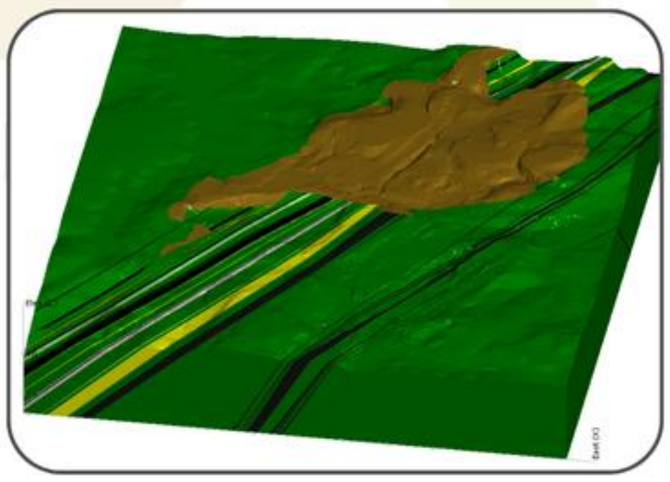
Model Validation

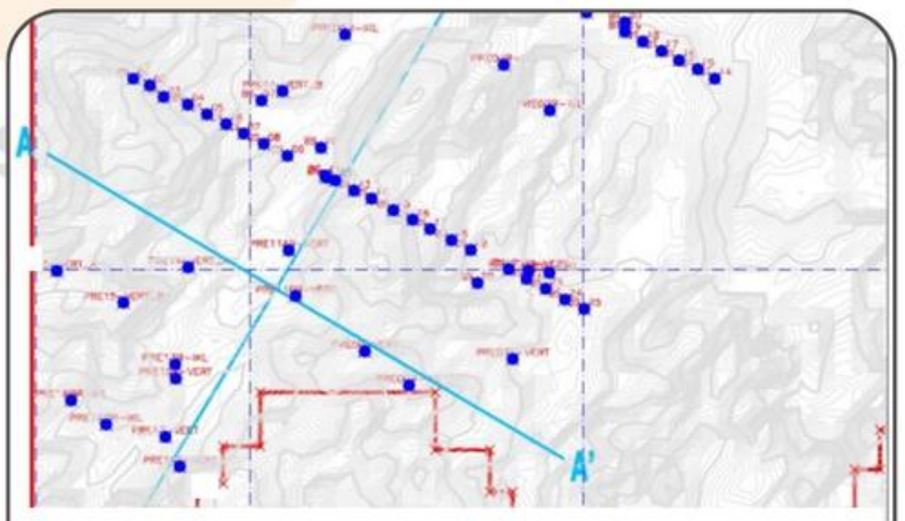
- Validates geological models using field data, drilling results, and geotechnical measurements to ensure accuracy and reliability.
- Adjusts and refines models based on additional data collected during the geotechnical investigation process.

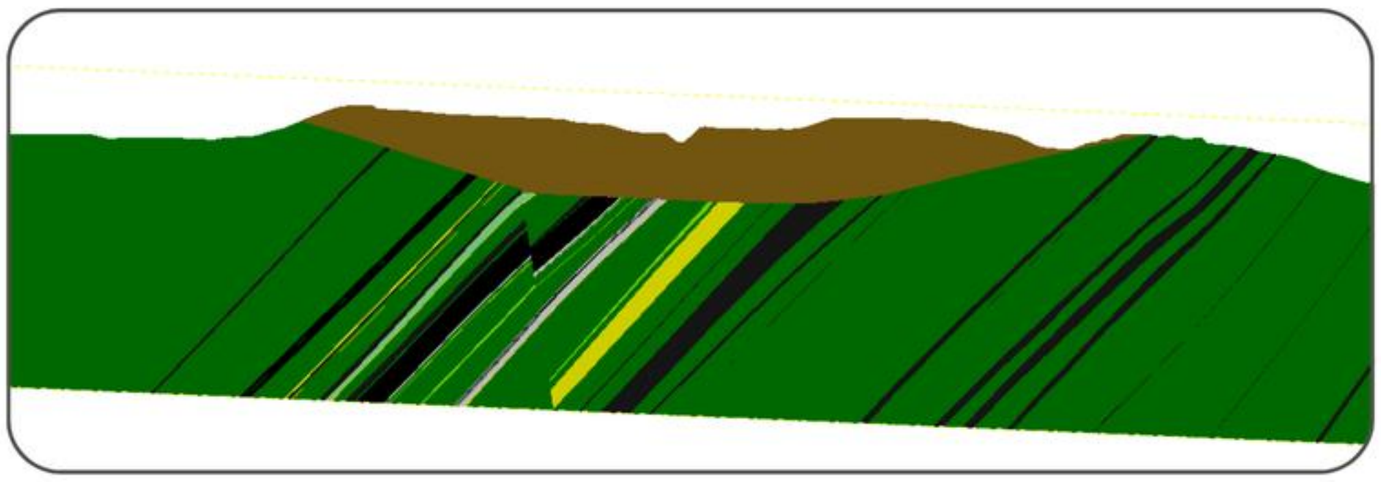


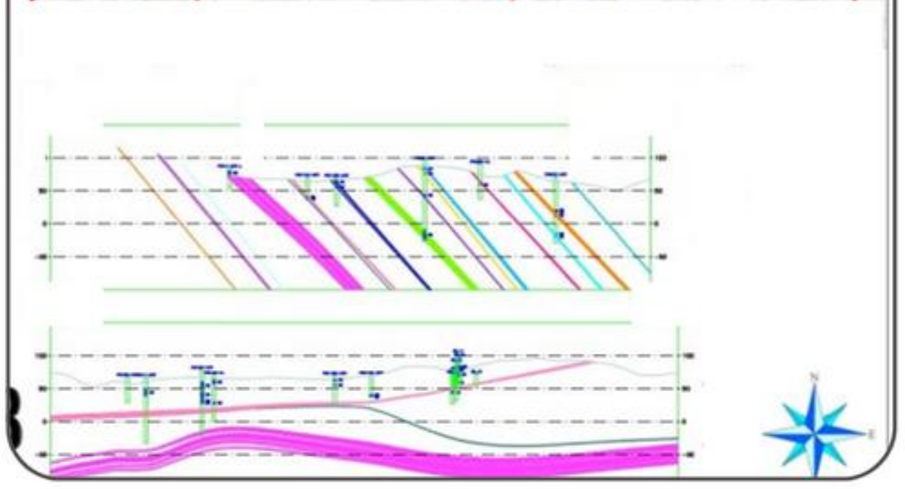


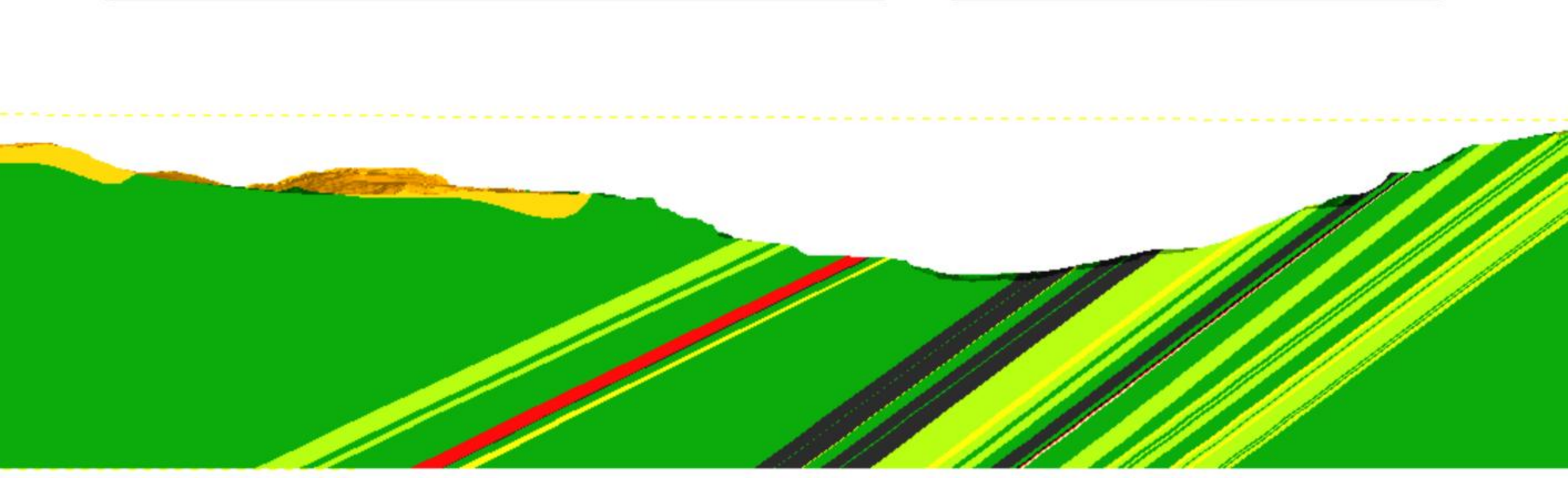






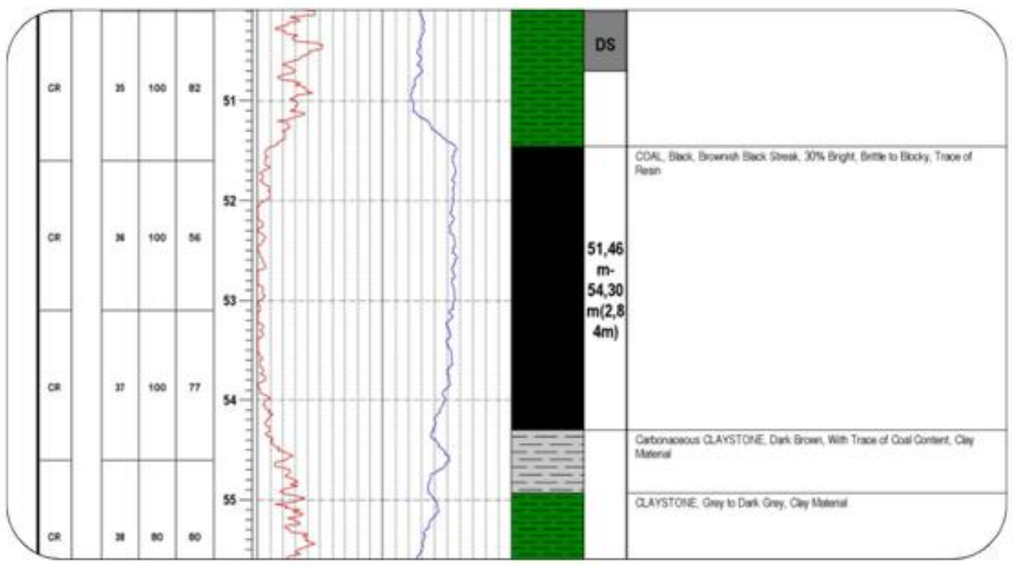


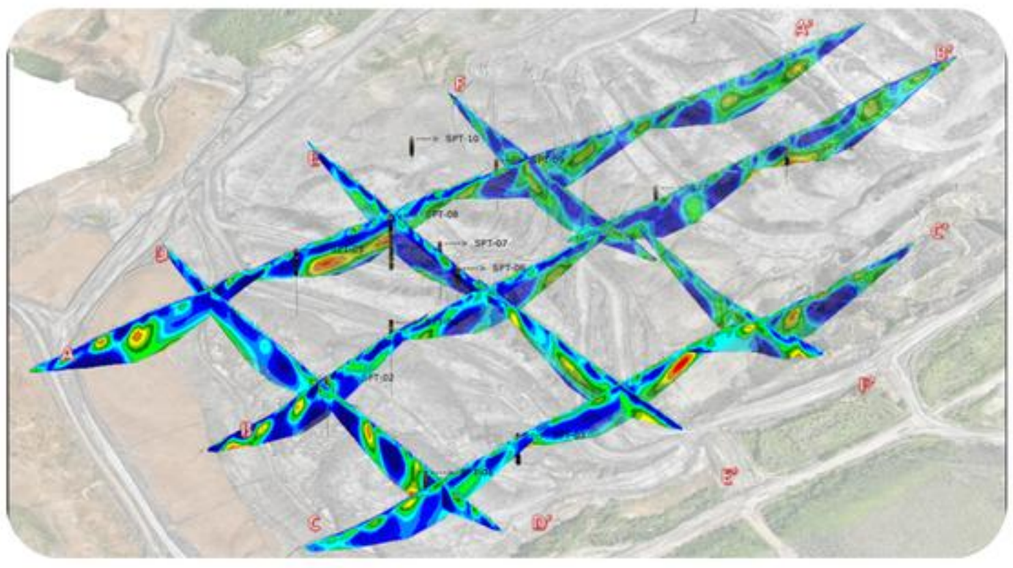


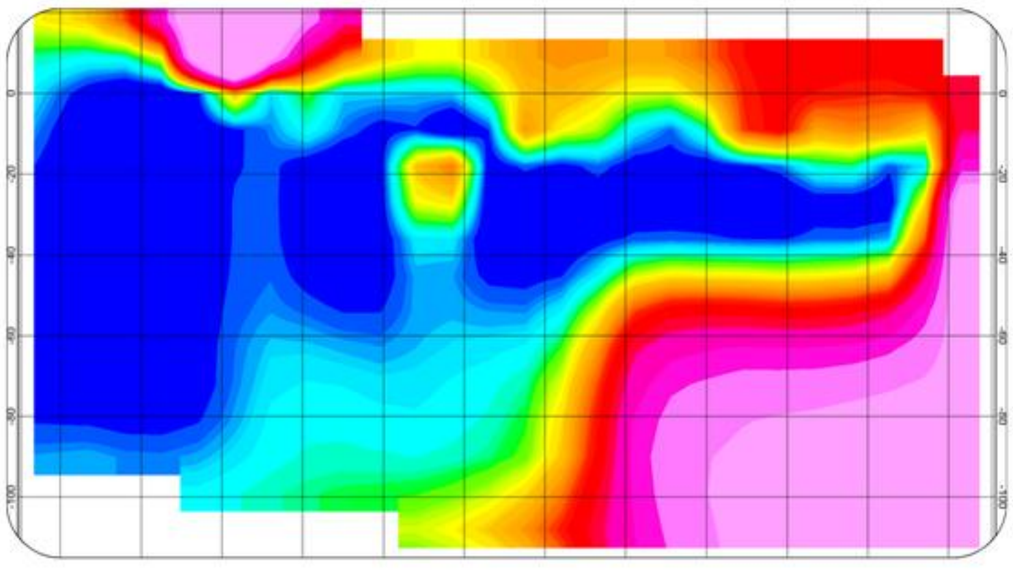


OUR SERVICES

GEOPHYSICAL







GEOPHYSICAL FOR EXPLORATION

Borehole Logging

- Borehole logging is conducted to gather detailed information about the geological and geotechnical properties of the subsurface.
- The primary objectives include assessing rock and soil types, identifying geological structures, determining water content, and measuring physical properties such as porosity and permeability.

Gamma Ray Logging:

- Measures natural gamma radiation emitted by the surrounding rock formations.
- Useful for identifying lithology, distinguishing between different rock types, and detecting the presence of radioactive minerals.

Electrical Resistivity Logging:

- Measures the electrical resistivity of the surrounding rocks.
- Measures the electrical resistivity of the surrounding in disposal to identify soft materal zone.
- Provides insights into the composition and moisture content of the subsurface, aiding in hydrogeological and geotechnical analyses.

Acoustic Logging:

- Utilizes sound waves to measure the acoustic properties of rocks.
- Assesses rock density, porosity, and the presence of fractures, providing valuable information for geotechnical stability assessments.

Caliper Logging:

- Measures the diameter of the borehole to identify variations in hole size.
- Essential for evaluating borehole stability and assessing the quality of the borehole wall.

Neutron Porosity Logging:

- Measures the neutron absorption properties of the subsurface.
- Provides information about porosity and moisture content, aiding in groundwater studies and reservoir characterization.

Downhole Tools and Instruments:

Logging Tools:

- Logging tools are lowered into the borehole to collect data at various depths.
- Tools may include gamma ray probes, resistivity sondes, acoustic sensors, and other specialized instruments.

Wireline Logging:

- Wireline logging involves the deployment of logging tools on a cable (wireline) that can be raised and lowered through the borehole.
- Allows for efficient data collection at multiple depths without the need to pull the entire tool string out of the borehole.

GEOPHYSICAL FOR GEOTECH SUPPORT

Geo-Electricial for Disposal Area:

- Measured the electrical resistivity of disposal areas, focuses to identify soft materal zone and displacement potensial

Geo-Electricial for Drain Hole

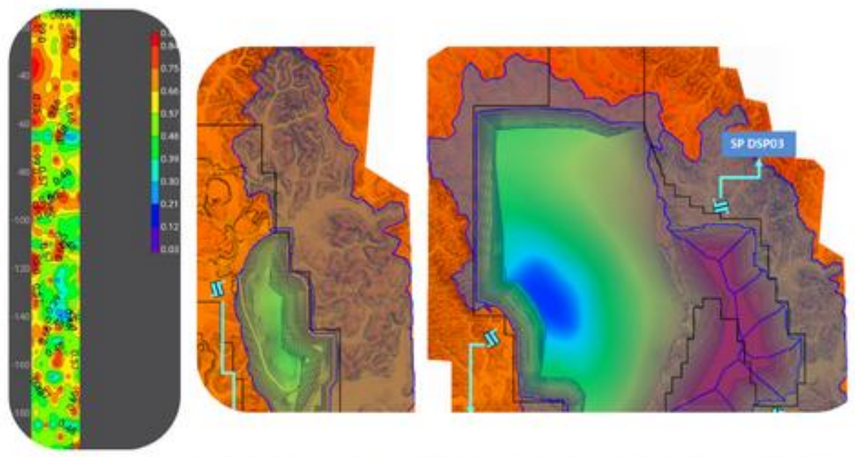
- Measured the electrical resistivity of pit area, focuses to indentify low resistivity. Low resistivity is akuifer target for drain hole.

OUR SERVICES

HYDROLOGY & HYDROGEOLOGY

UNDERGROUND WATER DETECTOR

- An underground water detector is a device or system used to locate groundwater or identify the presence of water beneath the earth's surface (aquifer
- Identify groundwater using the ADMT, that can identify up to a depth 200 - 300 meters



HYDROLOGY INVESTIGATION

Water Balance Studies

- Conducts water balance studies to quantify water inputs and outputs within a mining site.
- Guides sustainable water resource management and allocation.

Hydrology Analysis

- Climate analysis to predict the occurrence of extreme weather, the rate of change, and the impacts of such weather over the course of mining operations. The analysis is based on annual rainfall data according to the age of the mine
- Planned rainfall analysis to determine the rainfall intensity data for a specific return period (age of the mine)
- Determining the peak runoff discharge, which consists of the catchment area, flood runoff discharge, and flood simulation to estimate the impacts by analysis on the mining activities

HYDROGEOLOGY INVESTIGATION

Aquifer Characterization:

- Conducts assessments to characterize aquifers, including hydraulic conductivity, storativity, and transmissivity.
- Identified groundwater flow patterns and potential interactions with mining activities

Groundwater Monitoring:

- Implements groundwater monitoring wells to assess water levels, flow directions, and quality over time.
- Monitors seasonal variations and potential impacts on slope stability and infrastructure.

Pumping Tests

- Conducts pumping tests to determine aquifer properties and evaluate the response of groundwater levels to pumping.
- Provides valuable data for designing dewatering systems and managing water ingress.

Seepage Modeling:

- Utilizes numerical modeling to analyze seepage patterns through soil and rock masses.
- Assesses the impact of groundwater on slope stability and infrastructure integrity.

Pore Pressure Monitoring

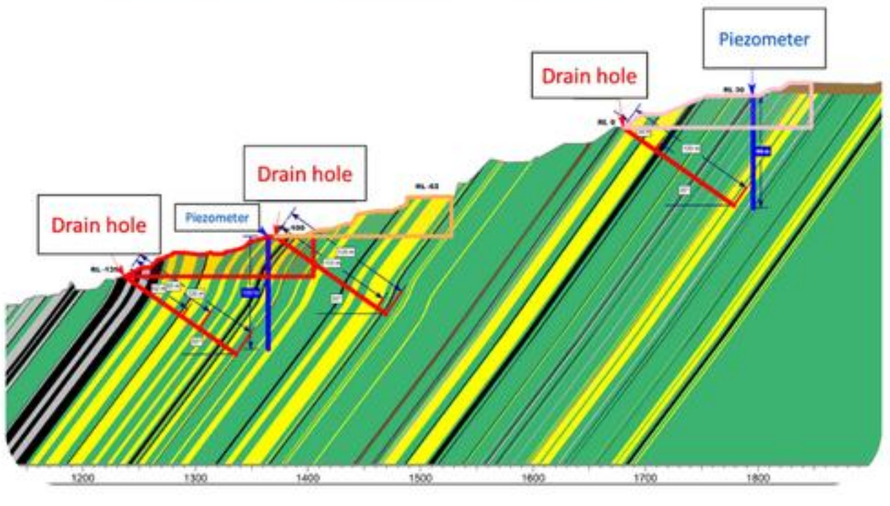
- Implements instrumentation to monitor pore water pressure in soil and rock.
- Incorporates pore pressure data into stability analyses to evaluate the influence on slope stability.

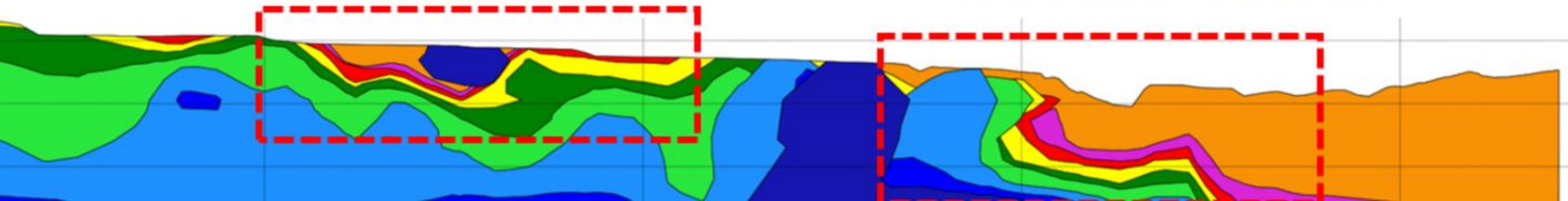
Dewatering System Design

- Designs dewatering systems to control groundwater levels and reduce pore water pressures in excavation areas.
- Considers the optimal placement and capacity of dewatering wells for effective water removal

Drainhole Drilling:

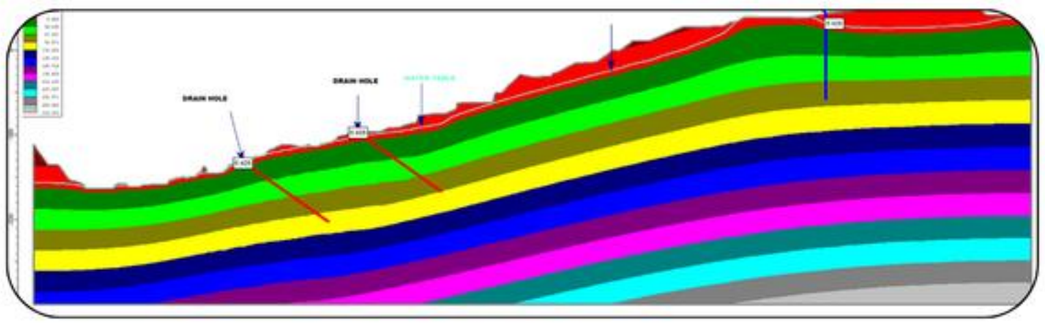
- Drainholes play a crucial role in managing water, which is often abundant and can pose significant challenges to mining operations.
- Key functions of drainholes: water management, dewatering, safety and stability of water related, environmental management and emergency response

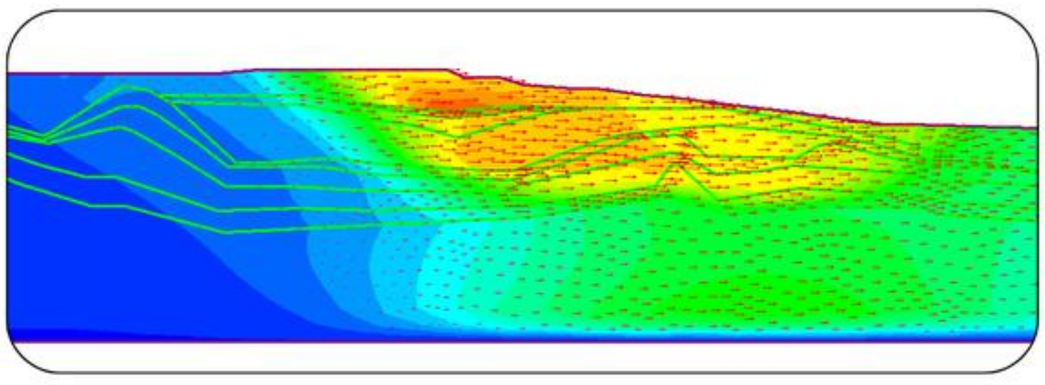


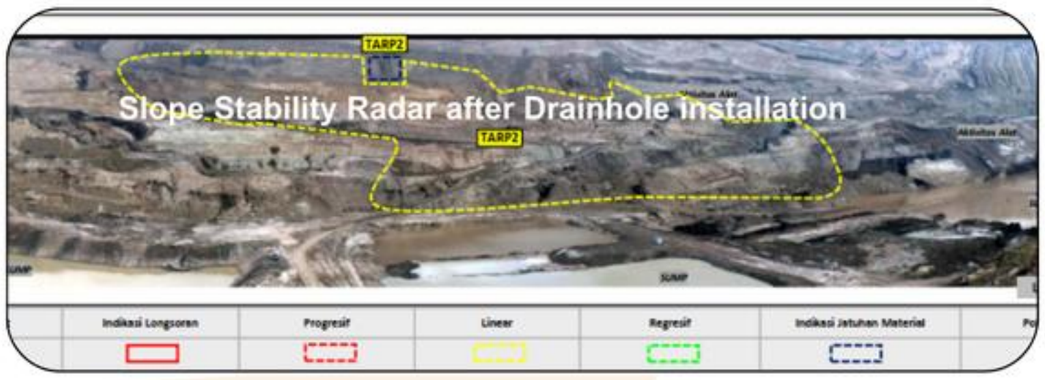


OUR SERVICES

GEOTECHNICAL INVESTIGATION







Excavability and Rippability Analysis

- Analysis using aproximation method based on seismic velocity data and graphic method based on fracture index and strength material by point load test

Ground Pressure Analysis

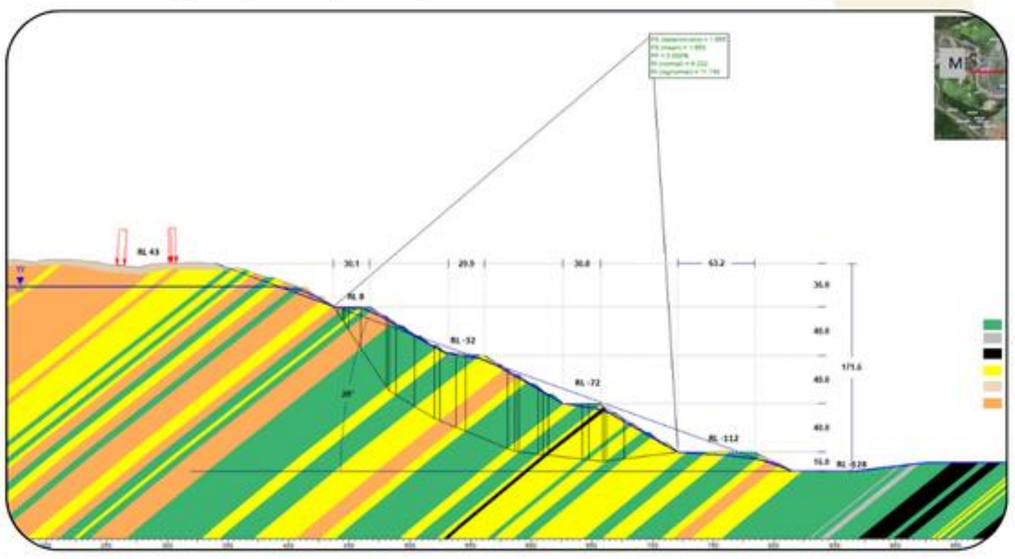
- Ground Pressure Analysis is a process used to assess the distribution and magnitude of pressure exerted on the ground by a structure, vehicle, or load. It helps determine whether the ground can safely bear the load and whether any preventive measures need to be taken to avoid issues like ground subsidence, structural failure, or soil deformation.

Slake Durability

- Slake durability is a measure of the resistance of rock or soil to degradation or disintegration when subjected to wetting and drying cycles. It refers specifically to the ability of certain types of rocks, particularly those containing clay minerals or other fine-grained materials, to withstand physical breakdown (slaking) when they are alternately wetted and dried

Soil Bearing Capacity

- Soil bearing capacity is the maximum load per unit area that the ground can support without experiencing failure or excessive settlement. It is a critical property in geotechnical engineering, as it helps engineers determine the appropriate foundation design for a structure, ensuring that the soil can bear the loads applied by buildings, bridges, roads, or other constructions without causing subsidence, tilting, or collapse.
- Bearing Capacity Analysis can determine the high maximum of waste dump



Slope Stability Analysis

- Utilizes advanced software for 2D and 3D slope stability analysis, considering factors like material properties, water inflow, and geological structures.
- Incorporates probabilistic modeling to assess uncertainties and develop risk mitigation strategies

a. Limit Equilibrium Analysis
- Applies traditional methods like Bishop's method and Morgenstern-Price method for analyzing the equilibrium of slopes.
- Considers pore water pressure, seismic forces, and dynamic loading in stability assessments.

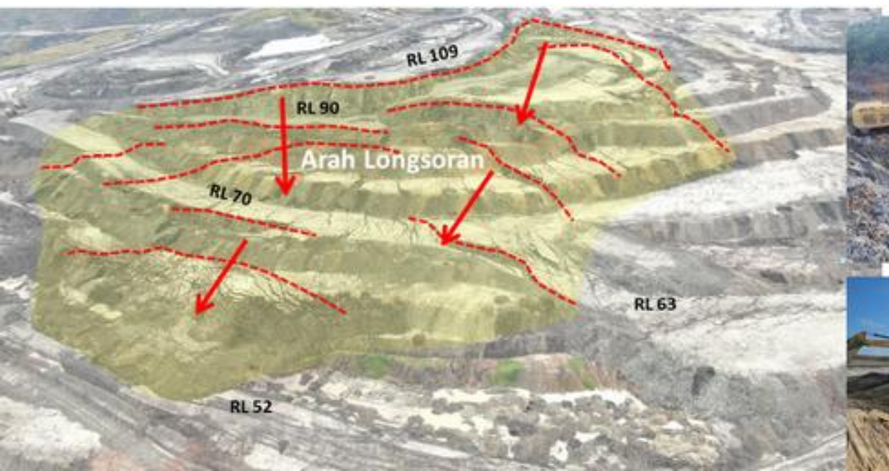
b. Finite Element Analysis:
- Implements sophisticated numerical techniques to model complex geological conditions and assess structural stability.
- Allows for detailed simulations of stress distribution, deformation, and failure mechanisms.
- models based on additional data collected during the geotechnical investigation process.

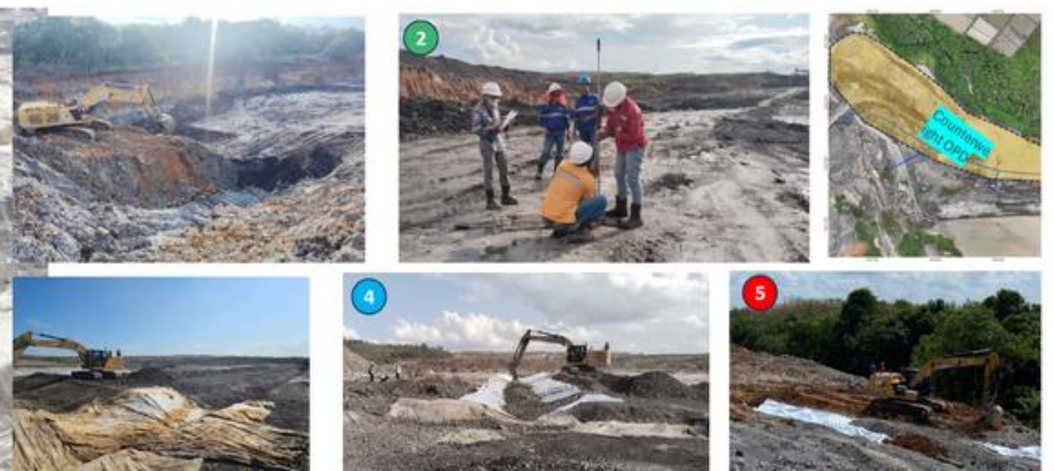
Geotechnical Monitoring

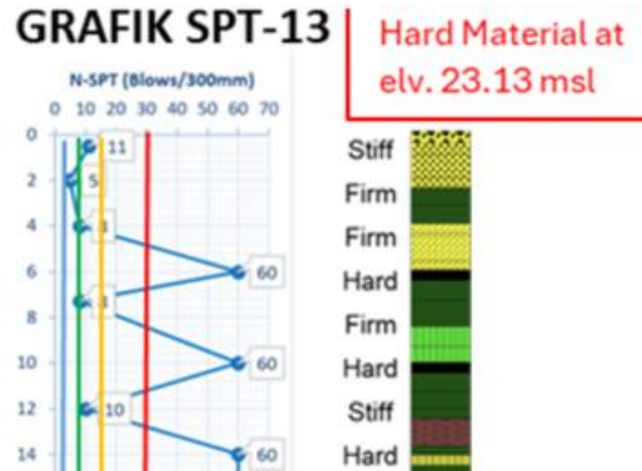
- Geotechnical monitoring focuses on the behavior of soil and rock, assessing factors like settlement, pore water pressure, and slope stability.
- Essential for excavation projects, embankments, and foundation performance.

Early Warning Systems:

- Instrumentation and monitoring systems may include early warning capabilities to alert stakeholders to potential issues.
- Early detection allows for timely interventions to prevent or mitigate risks.







OUR SERVICES

LABORATORY TESTING

Sample Collection and Preparation

- Soil and rock samples are collected from boreholes, test pits, or other subsurface exploration methods.
- Representative sampling is crucial to ensure the laboratory test results accurately reflect the in-situ conditions.
- Care is taken to preserve the integrity of the samples during transport to the laboratory.
- Special precautions are employed to prevent changes in moisture content, which can affect test results
- All lab testing is handed over to our sister company **PT Geoland Quattro Technolab** (rock mechanics) dan **PT Minearth Solution (soil mechanics)**

Soil Engineering Properties Testing

Consolidation Testing:

- Evaluates the compressibility and settlement characteristics of soil under loads.
- Helps estimate settlement and assess the time-dependent behavior of soils.

Triaxial Shear Testing:

- Measures the shear strength and stress-strain behavior of soil samples under different confining pressures.
- Essential for slope stability analysis, foundation design, and understanding soil behavior under load.

Direct Shear Testing:

- Determines the shear strength of soils by applying a direct horizontal force.
- Commonly used for cohesionless soils and provides valuable input for slope stability studies.

Unconfined Compression Testing:

- Measures the compressive strength of cohesive soils without lateral confinement.
- Useful for characterizing the strength of soft soils.

Rock Mechanics Testing

Point Load Index Testing:

- Measures the strength of rock samples under point load conditions.
- Provides a quick assessment of rock strength for preliminary design considerations.

Uniaxial Compression Testing:

- Applies axial load to rock samples to determine compressive strength and modulus of elasticity.
- Critical for understanding the load-bearing capacity of rocks in engineering projects.

Brazilian Test:

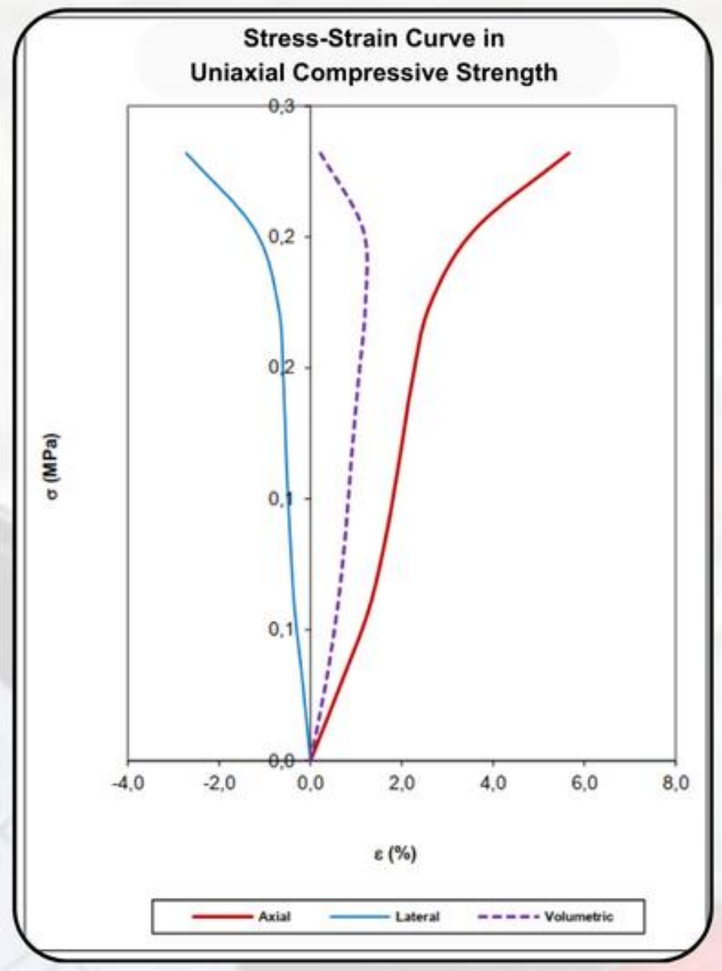
- Evaluates tensile strength by inducing a tensile stress across the center of a disc-shaped rock sample.
- Useful for assessing rock durability and fracture behavior.

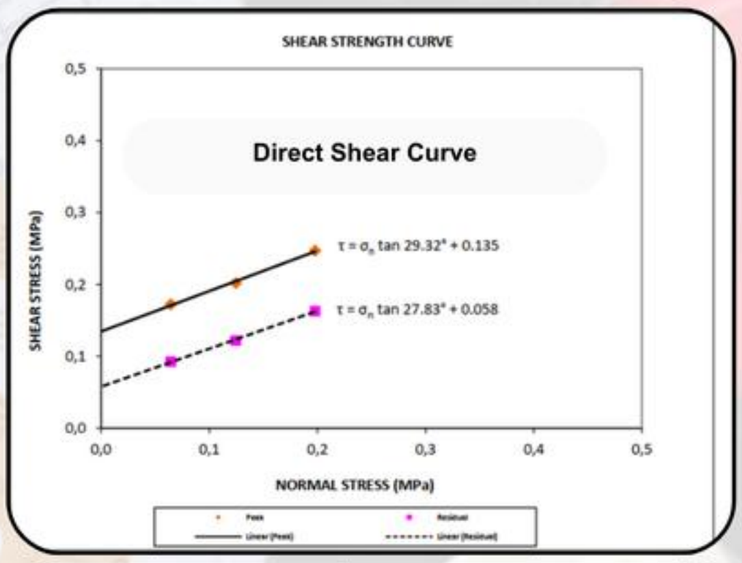
Permeability Testing

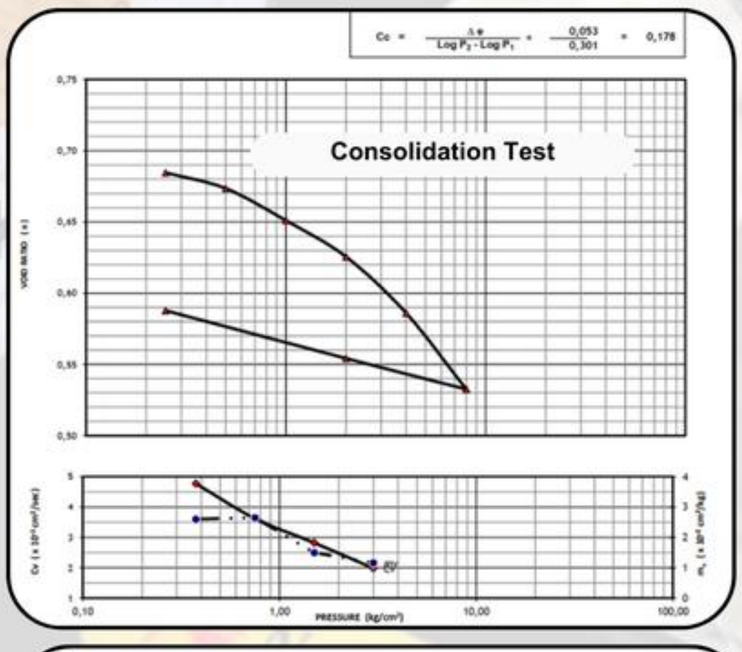
- Constant Head and Falling Head Permeability Tests:
- Assess the ability of soils to transmit water under different hydraulic gradient conditions.
- Important for groundwater flow analysis, seepage studies, and design of drainage systems.

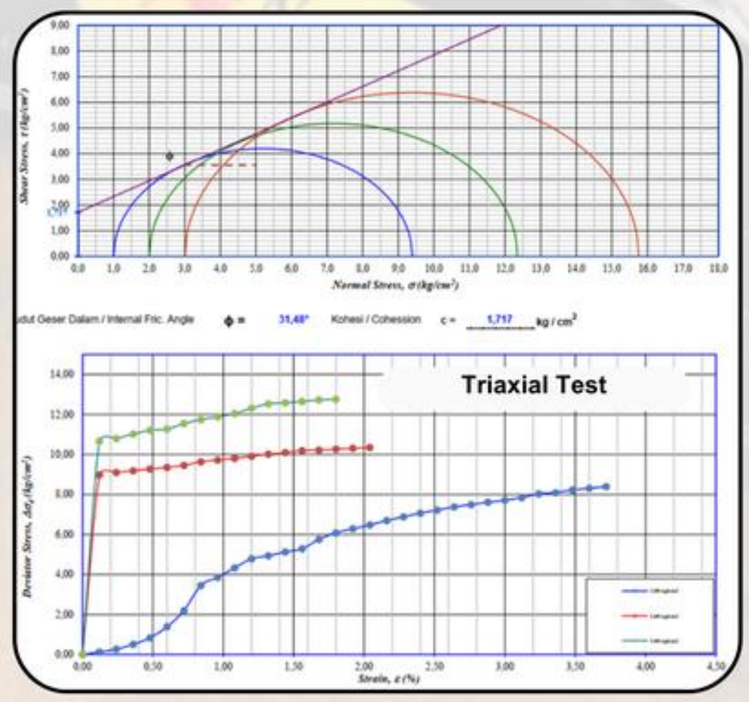
Slake Durability Testing

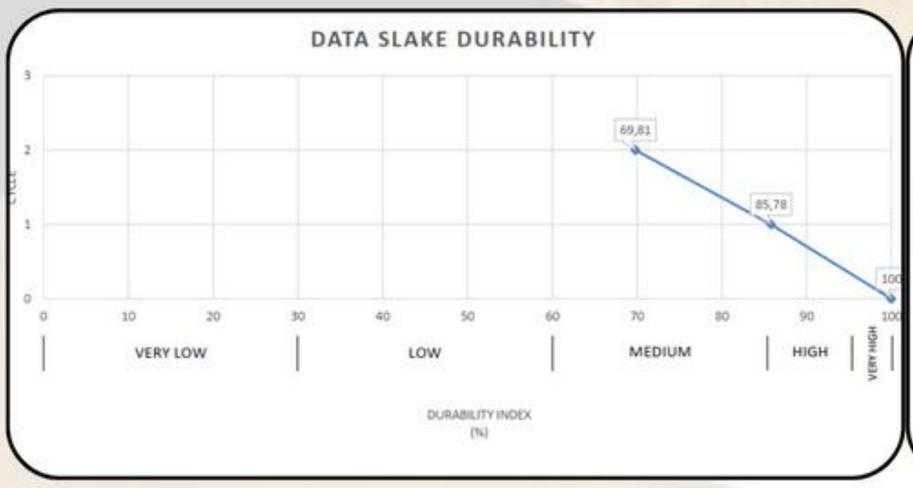
- Evaluate the resistance of rock to weathering, especially when subjected to wetting and drying cycles
- Evaluate the long-term stability of rocks, especially in terms of their ability to withstand the effects of moisture and environmental stressors

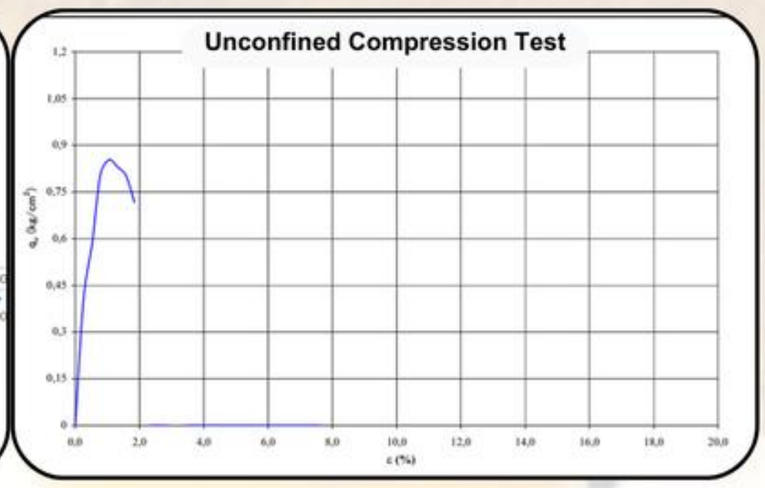


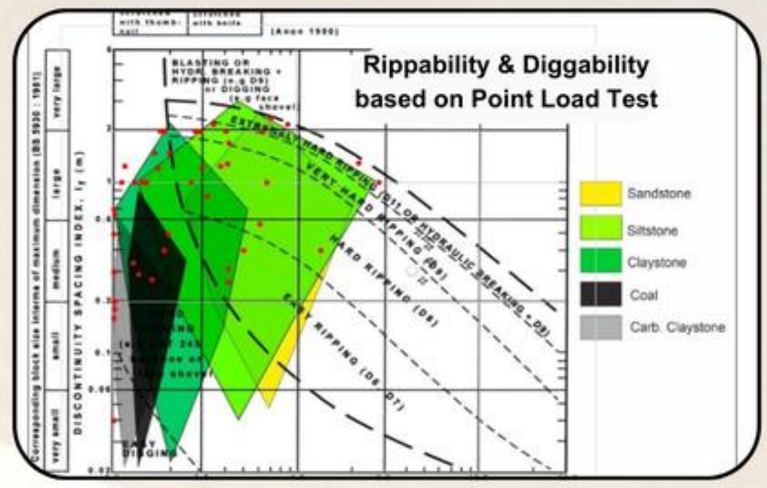












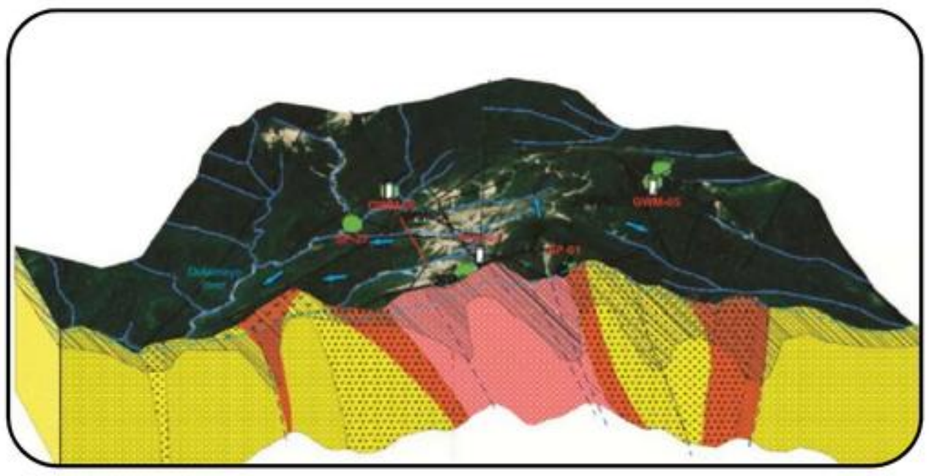
OUR SERVICES

ENVIRONMENTAL STUDY

Core Environmental Study Projects in the Mining Sector

Environmental Impact Assessment (EIA / AMDAL)

- Conducting complete environmental impact assessments to evaluate and predict potential effects of mining operations.
- Deliverables: Baseline survey, mitigation plan, RKL-RPL, stakeholder consultation.

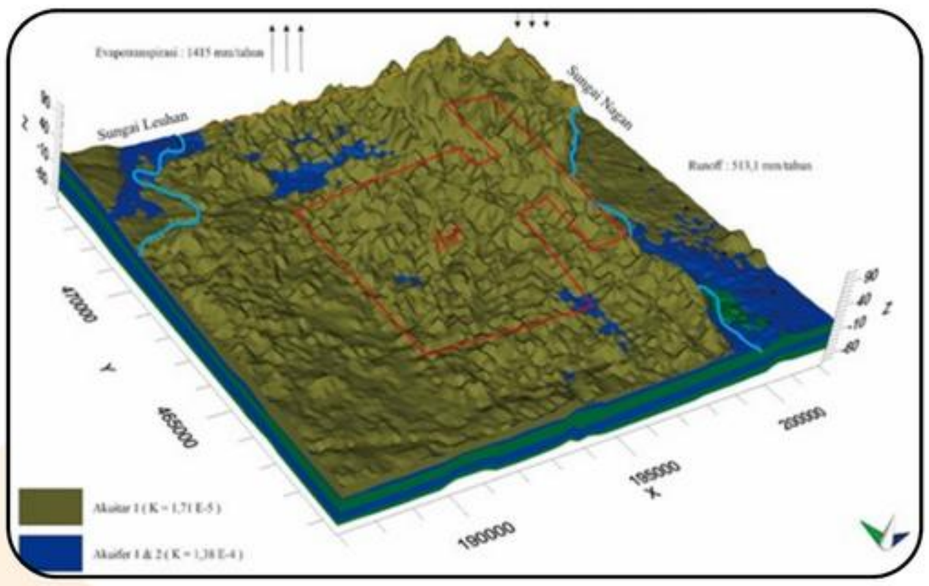


Environmental Baseline Studies

- Establishing natural and social conditions before development begins.
- Components: Air quality, soil, hydrology, biodiversity, socio-economy.

Water Management and Hydrological Studies

- Designing integrated water management systems for sustainability and efficiency.
- Includes: Surface water management, groundwater studies, mine water balance, treatment systems, and pit lake management.



Waste and Tailings Management

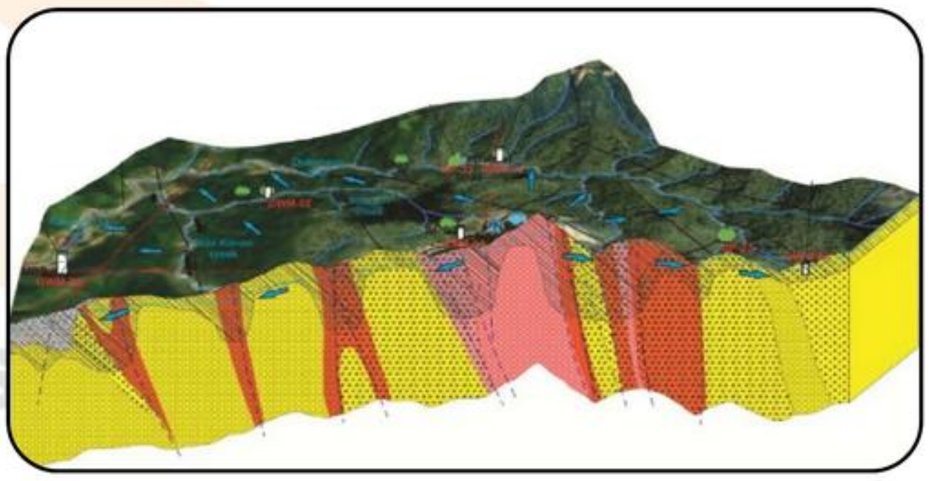
- Assessing environmental impacts of waste rock and tailings storage.
- Includes: Waste characterization, dam stability, seepage control, closure planning.

Environmental Monitoring and Compliance Audits

- Supporting mining companies with continuous monitoring and compliance reporting.
- Includes: Water and air quality, soil contamination, noise and vibration measurement.

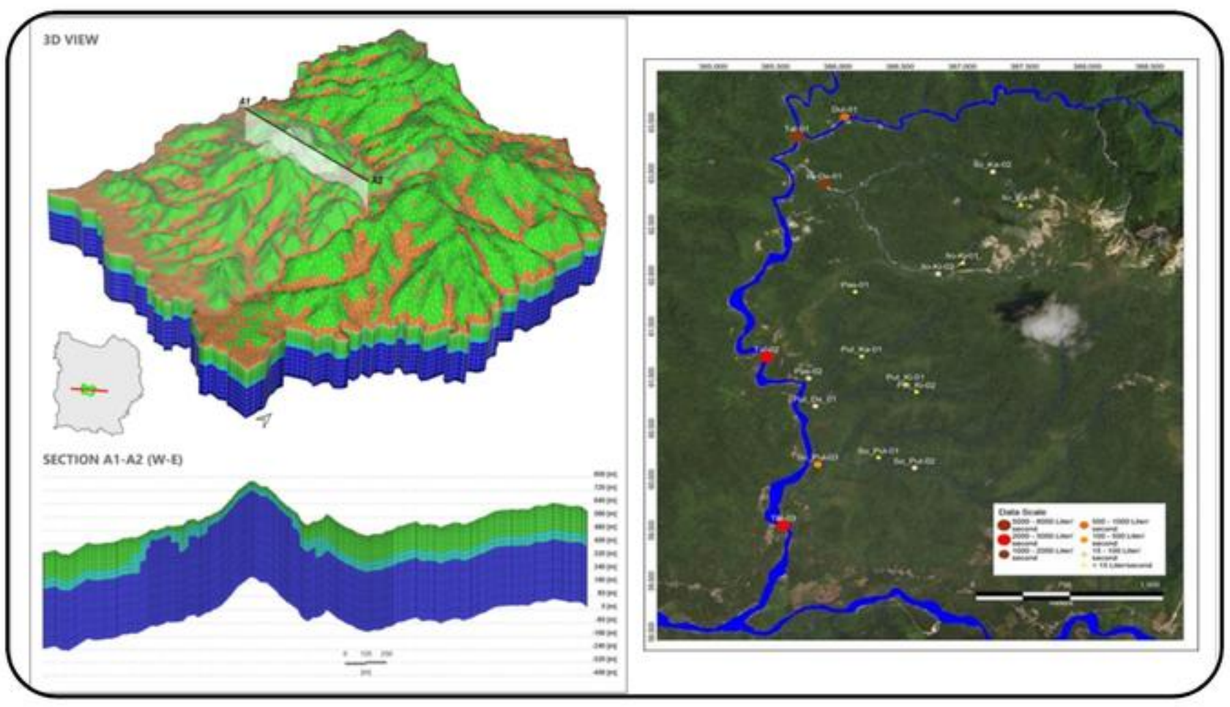
Our Approach

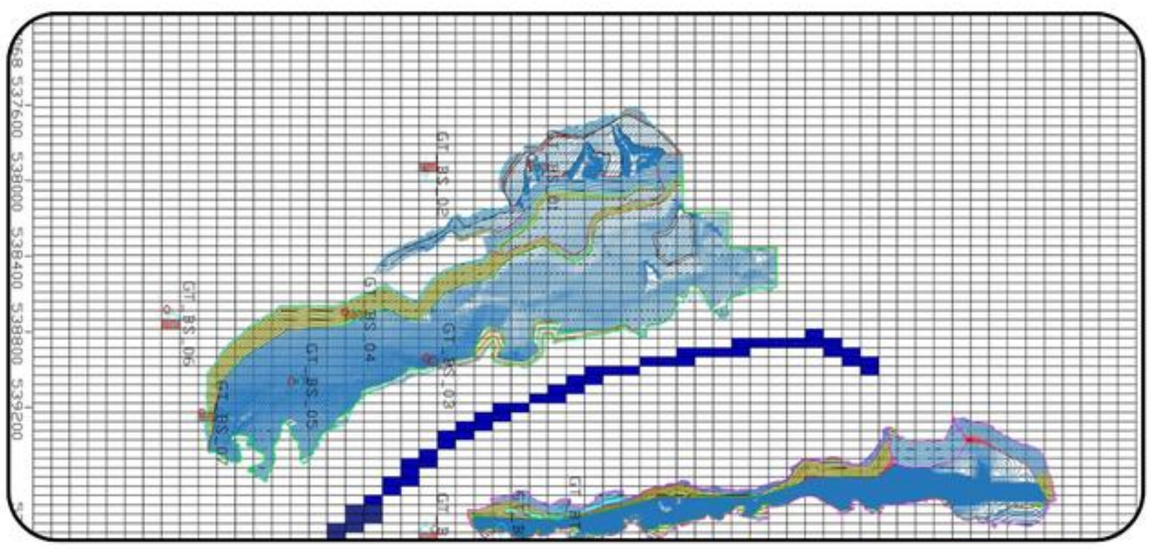
- We emphasize data-driven decision-making, regulatory alignment, and sustainability integration in every project. Our methodology combines advanced modeling tools (HEC-RAS, MODFLOW, ArcGIS, SWAT) with on-site measurements and stakeholder collaboration.

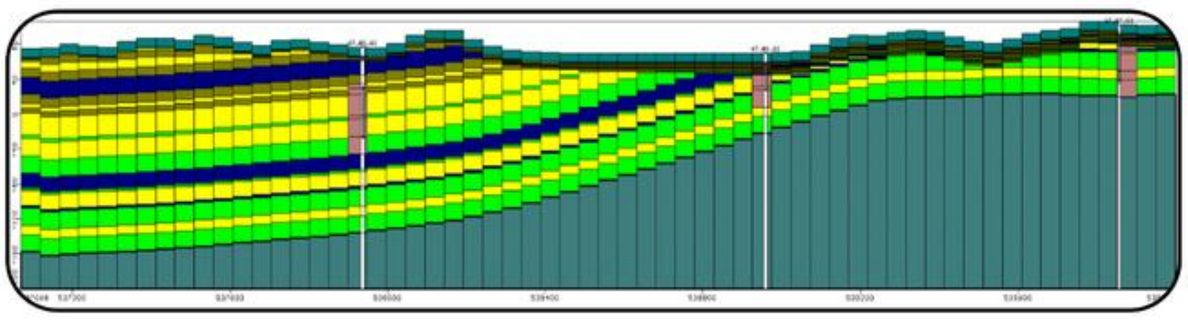


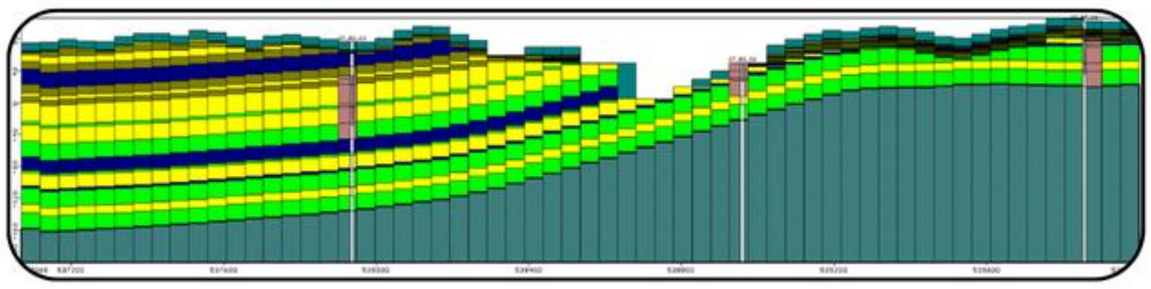
Our Commitment

- We are committed to supporting sustainable mining practices that balance economic growth, environmental protection, and community welfare. Our goal is to ensure that every project not only meets legal compliance but also contributes to the long-term sustainability of natural resources.

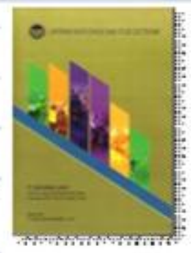








PROJECT EXPERIENCES

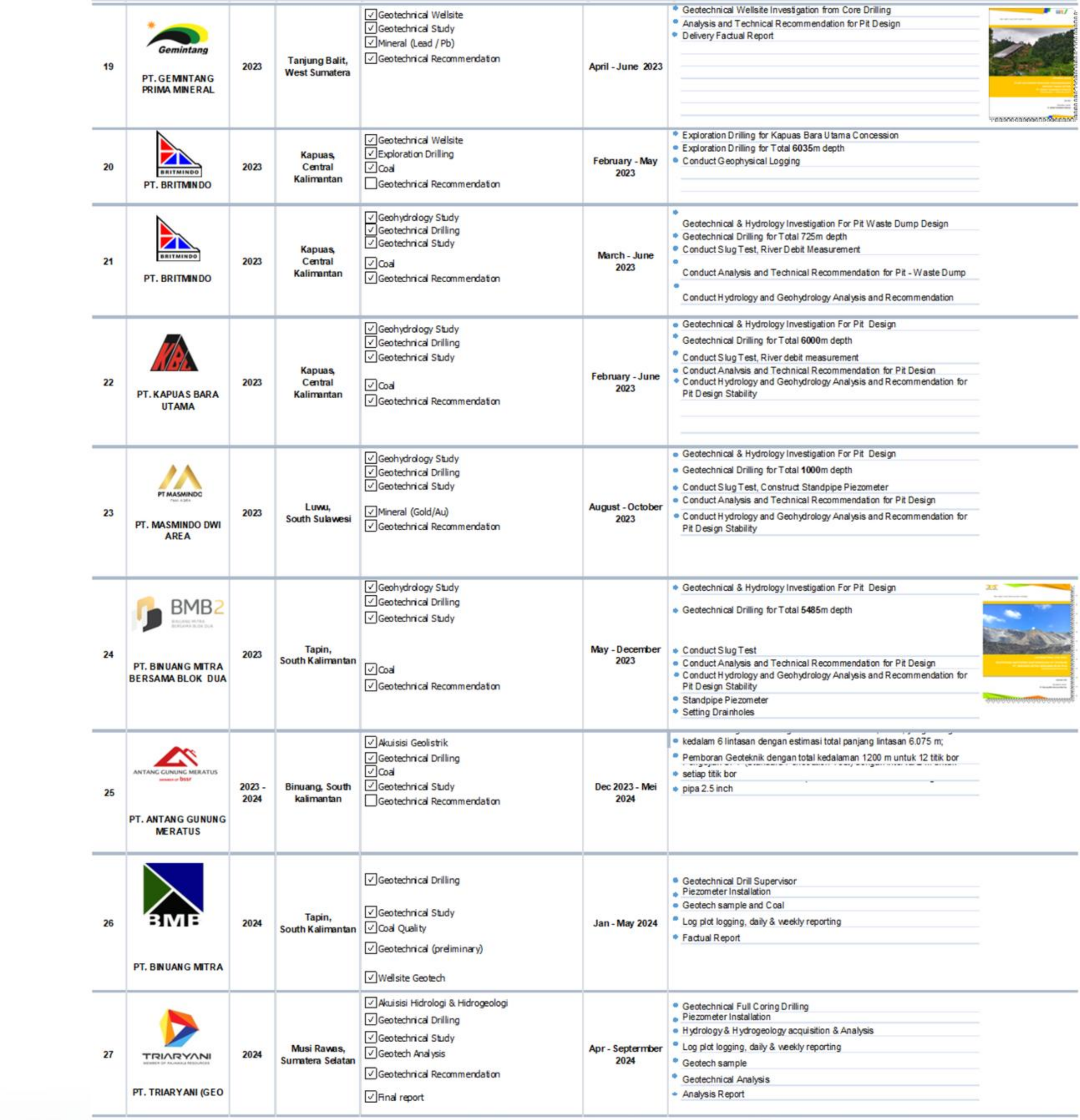
No.	Company	Year	Location	Study	Work Activity	Scope Of Works	
1		2018	Pagat Bukur Village, Sambaliung, Berau East Kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☐ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	October 29th - November 11st	• Carry out full corring geotechnical drilling including Drain holes • Taking rock samples from full coring drilling for the purposes of physical and mechanical tests. • Determine the value of the hydraulic conductivity of each layer of sandstone as an aquifer • Determine the value of rainfall intensity to calculate surface water runoff that will enter the mining area. • Preparation of reports in the form of geotechnical studies for recommendations for pit slope geometry design.	
2	PT. RANTAUPANJANG UTAMA BHAKTI	2019	Gunung Agung Village, Districts Merapi Barat - Lahat, South Sumatera	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☑ Exploration Drilling ☑ COAL ☐ MINERALS	July 27th - September 13th	• Supervise drilling activities, open holes and full corring • Total Depth 1035.8m from each 54m to 120m depth range each collar • Perform a description of the drill core required for geotechnical analysis • Taking rock samples from full corring drilling for physical and mechanical testing of rocks. • Conducting sample testing in the laboratory on pre-determined undisturbed soil/rock samples for the purposes of rock mass characterization and lab tests • Preparation of reports in the form of geotechnical studies for recommendations for pit slope geometry design.	
3		2021	Pagat Bukur village, Sambaliung, Berau East Kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	March 13rd - May 12nd	• Secondary data collection: regional geology, climate, rainfall and seismicity • Geotechnical drilling: total depth of 681m, with 442.1m full coring and 239m open hole method • Geohydro investigation: Slug test and standpipe piezometer installation • Sampling: UDS Shelby Tube, PVC and Acid Mining Water test • Report generation: hydro-geohidological study to support mine geotechnical aspects and mine geometry recommendations	
4	PT. BANGUN BANUA PERSADA KALIMANTAN	2017	Hatungun sub-district, Tapin district, South Kalimantan Province	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	Nov 21th 2017 - Jan 27th 2018	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Geotechnical drilling: total depth of **388.2m**, with full corring and open hole method including Drain holes • Taking rock samples from full coring drilling for the purposes of physical and mechanical tests. • Slug test and standpipe piezometer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
5		2020		☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	Jan 2020 - March 6th 2020	• Core drilling (Full Coring) is carried out using 1 unit of Jacro-500 • The total drilling depth is **708.2 meters** which is divided into 2 drill holes with a depth of **278.2** & **430** meters • Pumping Test is carried out at 1 point to determine the permeability and transmissivity of an aquifer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
6		2018	KAPUAS PROJECT Tumbang Nusa village, District Pasak Palawang, Kapuas Regency - Central Kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☑ Exploration Drilling ☑ COAL ☐ MINERALS	August 30, 2018 - Jan 2019	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Geotechnical drilling: total depth of **2212m**, each depth vary from 22m to 150m, with full corring and open hole method • Taking rock samples from full coring drilling for the purposes of physical and mechanical tests. • Slug test, Hydrograph and standpipe piezometer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
7	GEO ENERGY GROUP	2018	PT. INTAN BUMI PERSADA PROJECT Barunang Village, Kapuas District - Central kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	April 3th, 2018 - June 2018	• Supervise drilling activities, open holes and full corring • Secondary data collection: regional geology, climate, rainfall and seismicity. • Geotechnical drilling: total depth of **1035.8m from 11 points**, each depth vary from 20m to 150m, with full corring and open hole method • and mechanical tests. • Slug test, Hydrograph and standpipe piezometer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
8		2019	SUNGAI DANAU PROJECT Angsana District, Tanah Bumbu Regency - South Kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☑ Exploration Drilling ☑ COAL ☐ MINERALS	Sept 30, 2019 - Dec, 2019	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Geotechnical drilling: total depth of **838.3m**, each depth vary from 75m to 155m, with full corring and open hole method • Taking rock samples from full coring drilling for the purposes of physical and mechanical tests. • Slug test, Hydrograph and standpipe piezometer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	

PROJECT EXPERIENCES

No.	Company	Year	Location	Study	Work Activity	Scope Of Works	
9	PT. TRI USAHA BARU	2018	DOKODOKOTO GOLD PROJECT Bakun Pantai Village, Loloda District, West Halmahera - North Maluku	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☐ COAL ☑ MINERALS	July 21st - Oct 2018	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Geotechnical drilling: total depth of **362.15m from 4 points**, each depth vary from 40m to 150m, with full corring and open hole method • Taking rock samples from full coring drilling for the purposes of physical and mechanical tests. • Conducting sample testing in the laboratory on pre-determined undisturbed soil/rock samples • Slug test, Hydrograph and standpipe piezometer • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
10	PT. POSITION	2020	Sangaji and its surroundings, Kota Maba District, East Halmahera Regency, North Maluku Province	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☐ COAL ☑ MINERALS	April - Juni 2020	• Core drilling (full coring) is carried out using 1 unit of Jacro-75 • The total drilling depth is 126 meters divided into 6 drill holes • Slug Test is carried out at 2 points to determine the permeability and transmissivity of an aquifer • Installing standpipe piezometers at 2 points in the pit area • Preparation of reports, containing factual activity and resut studies reviewed based on geological, geotechnical and geohydrological aspects	
11	PT. MARINA BARA LESTARI	2021	Segah District, Berau Regency, East Kalimantan Province	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	Jan - March 26th 2021	• Secondary data collection • Geotechnical Drilling, full corring. Total depth 510 m at pit and disposal area. • SPT. 6 holes, interval 1.5m PST test, to depth 25m with total depth 98m. • Vane Shear Test • Geohydrological Investigation : Pumping, Slug test, standpipe piezometer & Hydrograph. • 29 samples of soft material were sampled using UDS shelbytube and mazier (piston sample), 44 hard materials, samples were taken with PVC, CBR and Compaction Test, taking bulk samples using 25 kg sacks. • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
12			Segah District, Berau Regency, East Kalimantan Province	☐ Topographic Survey ☐ Geotechnical Study ☐ Hidrogeology Study ☐ Geohidrology Study ☐ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☑ Exploration Drilling ☑ COAL ☐ MINERALS	April - June 2021	• Core drilling (Partly Coring) was carried out using 2 units of YBM-3 • The total drilling depth is 925.5 meters divided into 14 drill holes with depths ranging from 46 – 93 meters • Core drilling (full coring) is carried out using 1 unit of Jacro-500 • The total drilling depth is 607.8 meters with details of 391.8 meters full coring and 216 meters open hole, which are divided into 6 drill holes • Slug Test is carried out at 1 point • Installing a standpipe piezometer at 1 point in the pit area	
13	PT. LOTUS RESOURCES	2021	Awang District, East Barito Regency - Central Kalimantan	☐ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☐ Exploration Drilling ☑ COAL ☐ MINERALS	Oct 25th - Nov 26th 2021	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Full Core drilling using 1 unit Jacro 200 with **280.9m** of total depth • Hydrological Assessment : Slug Test (3 points), 4 location for standpipe piezometer. • Undisturbed soft soil sample (4 samples) using Shelby Tube • Hard Material samples (20 samples) using PVC • Water quality samples Acid Mine drainage Testing • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
14	PT. MURUNG RAYA COAL	2022	Laung Tuhup District, Murung Raya Regency - Central Kalimantan	☑ Topographic Survey ☑ Geotechnical Study ☑ Hidrogeology Study ☑ Geohidrology Study ☑ Geotechnical Recommendation ☐ Geotechnical Monitoring Tools ☑ Geotechnical Drilling ☑ Exploration Drilling ☑ COAL ☐ MINERALS	Dec 2021 - July 2022	• Secondary data collection: regional geology, climate, rainfall and seismicity. • Full Core & Partil Coring drilling using 3 unit Jacro with **2447.8m** of total depth from **12m to 180m** of each drill point. • Hydrological Assessment : Slug Test (4 points), 7 location for standpipe piezometer. • Undisturbed soft soil sample (13 samples) using Shelby Tube • Hard Material samples (78 samples) using PVC • Water quality samples Acid Mine drainage Testing • Soil Investigation for Constructing Hauling road plan • SPT Test, CBR (5 bulk samples) and Test Pit • Preparation of reports, containing studies reviewed based on geological, geotechnical and geohydrological aspects	
15	PT. JRBM	2023	Bakan, North Sulawesi	☑ Geotechnical Drilling ☐ Exploration Drilling ☑ MINERALS	Jan - April 2023	• Geotechnical Drilling for Static Heap Leach Stage 2 • SPT and Geotechnical Drillign for total 710m • Taking 24 undisturbed samples and 36 disturbed samples • Delivery Factual Report	
16	GEO ENERGY GROUP	2023	Sungai Danau, South Kalimantan	☑ Geotechnical Study ☑ Geotechnical Drilling ☑ COAL ☑ Geotechnical Recommendation	Jan - April 2023	• Geotechnical Drilling & Investigation for Waste Dump Stability • SPT and Geotechnical Drillign for total 490m depth • Taking 82 undisturbed samples and 15 disturbed samples • Delivery Factual Report & Geotechnical Recommendatoin	
17	PT. MITRA BARA JAYA	2023	Tana Tidung, North Kalimantan	☑ Topographic Survey ☑ Exploration Drilling ☑ COAL ☐ Geotechnical Recommendation	Jan - March 2023	• Exploration Drilling Stage 1 • Exploration Drilling for total 1590m depth • Geophysical Loging • Survey Topography for Drill Hole and Bench Mark • Delivery Factual Report	
18	PT. MITRA BARA JAYA	2023	Tana Tidung, North Kalimantan	☑ Topographic Survey ☑ Exploration Drilling ☑ COAL ☐ Geotechnical Recommendation	March - June 2023	• Exploration Drilling Stage 2 • Exploration Drilling for total 5000m depth • Geophysical Loging • Survey Topography for Drill Hole and Bench Mark • Delivery Factual Report	

PROJECT EXPERIENCES

No.	Company	Year	Location	Study	Work Activity	Scope Of Works
19	PT. GEMINTANG PRIMA MINERAL	2023	Tanjung Balit, West Sumatera	☑ Geotechnical Wellsite ☑ Geotechnical Study ☑ Mineral (Lead / Pb) ☑ Geotechnical Recommendation	April - June 2023	• Geotechnical Wellsite Investigation from Core Drilling • Analysis and Technical Recommendation for Pit Design • Delivery Factual Report
20	PT. BRITMINDO	2023	Kapuas, Central Kalimantan	☑ Geotechnical Wellsite ☑ Exploration Drilling ☑ Coal ☐ Geotechnical Recommendation	February - May 2023	• Exploration Drilling for Kapuas Bara Utama Concession • Exploration Drilling for Total 6035m depth • Conduct Geophysical Logging
21	PT. BRITMINDO	2023	Kapuas, Central Kalimantan	☑ Geohydrology Study ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Coal ☑ Geotechnical Recommendation	March - June 2023	• Geotechnical & Hydrology Investigation For Pit Waste Dump Design • Geotechnical Drilling for Total 725m depth • Conduct Slug Test, River Debit Measurement • Conduct Analysis and Technical Recommendation for Pit - Waste Dump • Conduct Hydrology and Geohydrology Analysis and Recommendation
22	PT. KAPUAS BARA UTAMA	2023	Kapuas, Central Kalimantan	☑ Geohydrology Study ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Coal ☑ Geotechnical Recommendation	February - June 2023	• Geotechnical & Hydrology Investigation For Pit Design • Geotechnical Drilling for Total 6000m depth • Conduct Slug Test, River debit measurement • Conduct Analysis and Technical Recommendation for Pit Design • Conduct Hydrology and Geohydrology Analysis and Recommendation for Pit Design Stability
23	PT. MASMINDO DWI AREA	2023	Luwu, South Sulawesi	☑ Geohydrology Study ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Mineral (Gold/Au) ☑ Geotechnical Recommendation	August - October 2023	• Geotechnical & Hydrology Investigation For Pit Design • Geotechnical Drilling for Total 1000m depth • Conduct Slug Test, Construct Standpipe Piezometer • Conduct Analysis and Technical Recommendation for Pit Design • Conduct Hydrology and Geohydrology Analysis and Recommendation for Pit Design Stability
24	PT. BINUANG MITRA BERSAMA BLOK DUA	2023	Tapin, South Kalimantan	☑ Geohydrology Study ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Coal ☑ Geotechnical Recommendation	May - December 2023	• Geotechnical & Hydrology Investigation For Pit Design • Geotechnical Drilling for Total 5485m depth • Conduct Slug Test • Conduct Analysis and Technical Recommendation for Pit Design • Conduct Hydrology and Geohydrology Analysis and Recommendation for Pit Design Stability • Standpipe Piezometer • Setting Drainholes
25	PT. ANTANG GUNUNG MERATUS	2023 - 2024	Binuang, South kalimantan	☑ Akuisisi Geolistrik ☑ Geotechnical Drilling ☑ Coal ☑ Geotechnical Study ☐ Geotechnical Recommendation	Dec 2023 - Mei 2024	• kedalam 6 lintasan dengan estimasi total panjang lintasan 6.075 m; • Pemboran Geoteknik dengan total kedalaman 1200 m untuk 12 titik bor • setiap titik bor • pipa 2.5 inch
26	PT. BINUANG MITRA	2024	Tapin, South Kalimantan	☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Coal Quality ☑ Geotechnical (preliminary) ☑ Wellsite Geotech	Jan - May 2024	• Geotechnical Drill Supervisor • Piezometer Installation • Geotech sample and Coal • Log plot logging, daily & weekly reporting • Factual Report
27	PT. TRIARYANI (GEO	2024	Musi Rawas, Sumatera Selatan	☑ Akuisisi Hidrologi & Hidrogeologi ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Geotech Analysis ☑ Geotechnical Recommendation ☑ Final report	Apr - September 2024	• Geotechnical Full Coring Drilling • Piezometer Installation • Hydrology & Hydrogeology acquisition & Analysis • Log plot logging, daily & weekly reporting • Geotech sample • Geotechnical Analysis • Analysis Report



PROJECT EXPERIENCES

No.	Company	Year	Location	Study	Work Activity	Scope Of Works
28	PT. GOLDEN GREAT BORNEO	2024	Lahat, Sumatera Selatan	☑ Hydrology and Hydrogeology Data Acquisition ☑ Geotechnical Drilling ☑ Geotechnical Study ☑ Geotech Analysis ☑ Geotechnical Recommendation ☑ Final report	Jun - September 2024	• Geotechnical Full Coring Drilling • Piezometer Installation • Log plot logging, daily & weekly reporting • Geotech sample • Geotechnical Analysis • Analysis Report
29	PT. CIPTA KRIDATAMA (IUP BMBBD)	2024	Tapin, South Kalimantan	☑ Drain hole drilling ☑ Piezometer drilling & Installation ☑ Groundwater Level Monitoring	Feb - Oct 2024	• Piezometer drilling for 13 holes with total depth 1.401 m • Drainhole drilling for 18 holes (inclined, vertical, horizontal) with total depth 1.719 m • Groundwater monitoring level • Groundwater level contours based on GWL monitoring
30	PT. BINUANG MITRA BERSAMA BLOK DUA	2024	Tapin, South Kalimantan	☑ SPT Drilling in IPD & OPD ☑ Geo-Electricity Survey ☑ Geotechnical Study ☑ Geotech Analysis ☑ Geotechnical Recommendation ☑ Final report	May - Nov 2024	• SPT drilling for total depth 920 m • Geo-electricity survei for Inpit & Outpit Disposal • Modelling for 3D resistivity & Strength Material by SPT • Conduct Analysis and Technical Recommendation for IPD & OPD • Analysis Report
31	PT. BUKIT MAKMUR MANDIRI UTAMA	2024	IUP PT Bara Barito Perkasa Barito Utara, Central Kalimantan	☑ Coal Outcrops Mapping ☑ Geological Structure Mapping ☑ Coal Quality Laboratory Test ☑ Geological Modelling ☑ Calculationg Resource and Prospect Area ☑ Final report ☑ Coal	Aug-24	• Geological Mapping • Interpretating the continuity of coal distribution in potential area • Creating an initial geological model • Calculating Resource potential of coal resource • Determining next stage of exploration
32	PT. BINTANG PRIMA ENERGY PRATAMA	2024	Kutai Kartanegara, East Kalimantan	☑ Exploration Drilling ☑ Geotechnical Drilling ☑ Coal Quality Laboratory Test ☑ Geotechnical Study ☑ Calculationg Resource and Prospect Area ☑ Mine Plan Design ☑ Coal	Oct-24	• Exploration Drilling • Geotechnical Drilling • Geological Modelling and Resource Estimation • Mine Planning • Geotechnical Study • Reporting and next stage operation
33	PT. ENERGI BATUBARA LESTARI	2024	Tapin, South Kalimantan	☑ Geo-electrical investigation ☑ Underground Water Detecting ☑ Permeability Test ☑ Drainhole Drilling ☑ Standpipe Piezometer Drilling ☑ Coal	Oct 2024 - Feb 2025	• Geo-electrical survey for 10000 m • Underground water detecting and aquifer position interpretation • Drainhole and standpipe piezometer drilling from geoelectrical data • Hidrology and Hydrogeology Study • Reporting
34	PT. SAM MINING (GEO-ENERGY GROUP)	2024	Tapin, South Kalimantan	☑ Geotechnical Drilling Supervision ☑ Standpipe Piezometer and Sulgtest ☑ Hidrology and Hydrogeology Study ☑ Geotechnical Study ☑ Coal	Des 2024 - Nov 2025	• Laboratory test for indeks and engineering properties • Standpipe piezometer installation for 7 borehole include slugtest • Acid Rock/Mine Drainage study • Hydrology & Hydrogeology Analysis • Geotechnical Analysis and Recommendation • Reporting
35	PT. KAPUAS BARA UTAMA	2024	Kapuas, Cental Kalimantan	☑ Exploration Drilling ☑ Geophysical Logging ☑ Wellsite Geologist for Descriptior	Des 2024 - August 2025	• Exploration Drilling (open and touch core), total depth 14.500m • Gamma Ray, Density and Caliper log for gephysical logging • Wellsite geologist as a supervisor drilling and lithology decription • Reporting
36		2024	Kapuas, Cental Kalimantan	☑ Geotech Drilling ☑ Standpipe Piezometer ☑ Sampling and Lab Test ☑ Geotechnical Study ☑ Coal	Des 2024 - Present	• Geotechnical drilling (full coring) for 16 borehole • Standpipe piezometer for 8 borehole include slugtest & infiltration • Sampling for disturbed and undisturbed sample • Lab Test • Acid Mine/Rock Drainage Study • Hydrology & Hydrogeology Analysis • Geotechnical Analysis and Recommendation
37		2024	Kapuas, Cental Kalimantan	☑ River Diversion Study ☑ Hydrograpgh and Infiltration Tes ☑ Hydrology Study ☑ Geotechnical Study	Des 2024 - April 2025	• Hydrogpragh survey in Menyangau Putih • Infiltration test • Hydrology and Geotechnical Study for River Diversion 
38		2024	Kapuas, Cental Kalimantan	☑ Soil Investigation ☑ Standard Penetration Test ☑ Soil Bearing Capacity Study ☑ Foundation Stability Study	Des 2024 - March 2025	• Standard Peneration Test with a total depth 120 (4 borehole) • Lab test for physical and engineering properties • Soil Bearing Capacity Study • Foundation Bearing Capacity (shallow and deep) • Reporting and Recommendation 

PROJECT EXPERIENCES

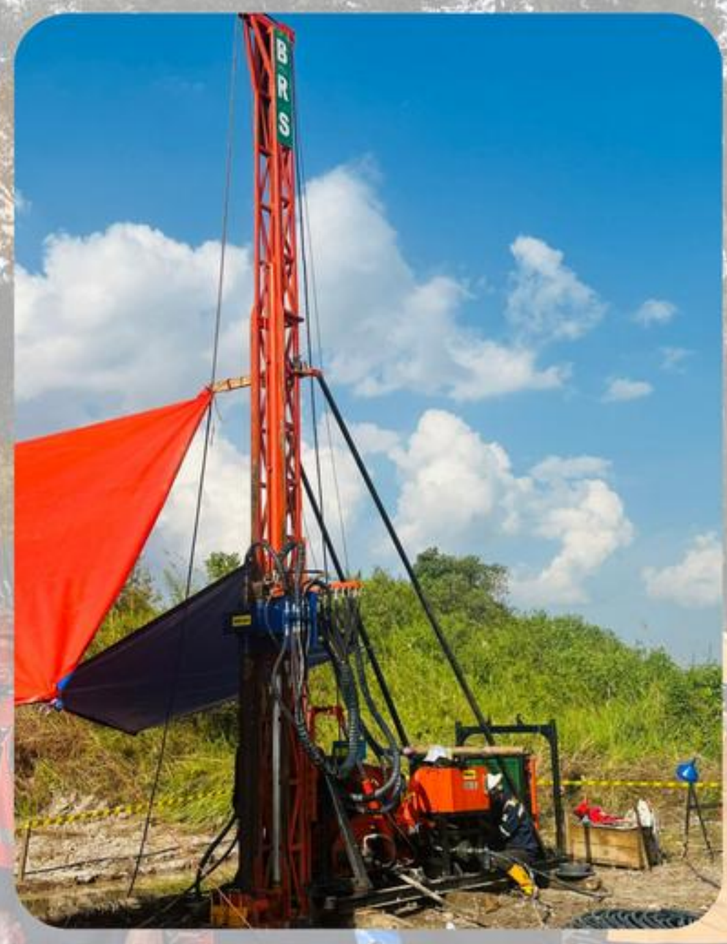
No.	Company	Year	Location	Study	Work Activity	Scope Of Works
39	BHUMI RANTAU ENERGI	2025	BHUMI RANTAU ENERGI	☑ Geo-Electrical Investigation ☑ Underground Water Detector	Jun - Jul 2025	• Construction of a 3D lithology model based on coal model data • Geophysical survey consisting of 36 lines- 16,320 meters • Underground Water Detector (UWD) survey at 34 points Recommendations for drainhole and piezometer points
40	BMB 2	2025	BINUANG MITRA BERSAMA BLOK 2	☑ Geo-Electrical Investigation ☑ Underground Water Detector	May - Jun 2025	• Creating zoning models for soft materials and waste materials • determining a more efficient and targeted number of drilling points
41	GEO FIX	2025	GEO FIX INDONESIA	☑ Geotechnical Drilling Supervision ☑ VWP Installation ☑ Packer Test	May - Jun 2025	• Supervision of full coring geotechnical drilling at 7 hole • Double packer test at 6 hydrogeological drilling points
42	TRIARYANI	2025	TRIARYANI	☑ Geotechnical Drilling Supervision ☑ Geo-Electrical Investigation ☑ Laboratorium Test	Jun - Oct 2025	• Supervision of full coring geotechnical drilling at 22 hole • Geophysical survey consisting of 47 lines- 22.090 meters Comprehensive geotechnical analysis and recommendation
43	J RESOURCES	2025	J RESOURCES BOLAANG MONGONDOW	☑ Geotechnical Drilling ☑ Slug Test ☑ Laboratorium Test	Sep - Present 2025	• Full coring geotechnical drilling at 22 hole 660 meter • Conduct slug test at every drilling hole • Factual report

DRILLING & WORKSHOP

JACRO 175

JACRO 200

JACRO 240



JACRO 300

WORKSHOP

PRINCIPLE DOCUMENTS

Nomor Sertifikat : 010326
Certificate Number

PII

SERTIFIKAT KOMPETENSI INSINYUR PROFESIONAL

PROFESSIONAL ENGINEER COMPETENCY CERTIFICATE

Persatuan Insinyur Indonesia dengan ini menetapkan
The Institution of Engineers, Indonesia, hereby certifies

Endang Iskandar

Nomor Keanggotaan | *Membership Number*
1022-14-028810

sebagai | as
Insinyur Profesional Madya
Senior Professional Engineer

Nomor Sertifikasi | *Certification Number*
2-14-00-000241-00

berdasarkan Bakuan Kompetensi Insinyur Profesional yang ditentukan oleh Persatuan Insinyur Indonesia dan berlaku masa 5 (lima) tahun
based on the Competency Standard for Professional Engineers as defined by the Institution of Engineers, Indonesia, which is valid for 5 (five) years

Ditetapkan di, pada tanggal | Certified in, on the date of
Jakarta, Indonesia, 7 Mei 2023

Pengurus Badan Kejuruan Teknik Pertambangan
Board of Mining Engineering College

Ir. Rizal Kasli, IPM., ASEAN Eng.
Ketua | *Chairman*

Pengurus Pusat Persatuan Insinyur Indonesia
National Board of The Institution of Engineers, Indonesia

Dr. Ir. Danis Hidayat Sumadilaga, M.Eng.Sc., IPU., ACPE., APEC Eng.
Ketua Umum | *President*

Nomor : **0026571**
Number

SURAT TANDA REGISTRASI INSINYUR

CERTIFICATE OF ENGINEER REGISTRATION

Sesuai dengan Undang-Undang No.11 tahun 2014 tentang Keinsinyuran dan Peraturan Pemerintah Nomor 25 Tahun 2019, dengan ini Persatuan Insinyur Indonesia menetapkan bahwa :
Based on Law No. 11 of 2014 and Government Regulation No. 25 of 2019, The Institution of Engineers Indonesia Certifies that:

R. ENDANG ISKANDAR

dinyatakan memiliki kompetensi sebagai :
is recognized to have competency as

INSINYUR PROFESIONAL MADYA

Nomor Registrasi
Registration Number

2.014.23.1.1.00026571

Surat Tanda Registrasi Insinyur berlaku 5 (lima) tahun sejak ditetapkan:
This Certificate of Registration is valid for 5 (five) years since it is stated

Ditetapkan di : **JAKARTA**
Stated at

Tanggal : **7 MEI 2023**
Date

Persatuan Insinyur Indonesia
THE INSTITUTION OF ENGINEERS INDONESIA

Dr. Ir. Danis Hidayat Sumadilaga, ST., M.Eng.Sc., IPU., ACPE.
Ketua Umum
President

ASEAN FEDERATION OF ENGINEERING ORGANISATIONS (AFEO)

ASEAN ENGINEERING REGISTER

THIS IS TO CERTIFY THAT

ENDANG ISKANDAR

who, having satisfied the qualification requirement demanded at this date by the
AFEO Governing Board
has been awarded the status of

ASEAN ENGINEER

together with the designatory letters ASEAN Eng.

Ir. Yau Chau Fong
AER Head Commissioner

Dr. Ir. Danis Hidayat Sumadilaga, IPU., ACPE., APEC Eng.
AFEO Chairman

Ir. Habimono Koesoebjono
PII Country Registrar

Approved at 41st AFEO Governing Board Meeting on 23rd day of November 2023 at Bali, Indonesia. AE 14390

INTERNATIONAL ENGINEERING ALLIANCE

APEC

ASIA-PACIFIC ECONOMIC COOPERATION
APEC ENGINEER REGISTER
INDONESIA MONITORING COMMITTEE

This is to certify that

Endang Iskandar

is registered by the Institution of Engineers, Indonesia, as an

APEC Engineer
in
Indonesia

in the following areas of practice

Mining Engineering
on

November 30, 2024

Danis Hidayat Sumadilaga
Dr., Ir., M.Eng.Sc., IPU., ACPE., APEC Eng.
President of The Institution of Engineers, Indonesia

PII

Andi Taufan Marimba
Ir., MM., MBA., IPU., CPEng., ACPE., APEC Eng.
Chairman of Indonesia Monitoring Committee

PRINCIPLE DOCUMENTS

13305211

BADAN NASIONAL
SERTIFIKASI PROFESI
INDONESIAN PROFESSIONAL CERTIFICATION AUTHORITY

SERTIFIKAT KOMPETENSI
CERTIFICATE OF COMPETENCE

No. B0990 2114 6 0000026 2024

Dengan ini menyatakan bahwa,
This is to certify that,

Hartawi Riskha

No. Reg. RGT.025.00026 2024

Telah kompeten pada bidang :
Is competent in the area of :

Geoteknik Tambang Mineral dan Batubara
Mineral and Coal Mining Geotechnics

Dengan Kualifikasi / Kompetensi :
With Qualification / Competency :

Perencanaan Kegiatan Geoteknik Tambang Mineral Dan Batubara
Geotechnical Planning Mineral And Coal Mining Activities

Sertifikat ini berlaku sampai dengan 4 (empat) Tahun
This certificate is valid until 4 (four) Years

Jakarta, 18 Oktober 2024

Atas nama (On behalf of) BNSP
Indonesian Professional Certification Authority
Lembaga Sertifikasi Profesi PERHAPI
Professional Certification Body PERHAPI

Ir. Rajulisman
MET.000.000658 2010
Ketua LSP PERHAPI
Chairman

13305223

BADAN NASIONAL
SERTIFIKASI PROFESI
INDONESIAN PROFESSIONAL CERTIFICATION AUTHORITY

SERTIFIKAT KOMPETENSI
CERTIFICATE OF COMPETENCE

No. B0990 2114 7 0000023 2024

Dengan ini menyatakan bahwa,
This is to certify that,

Hartawi Riskha

No. Reg. LGT.025.00023 2024

Telah kompeten pada bidang :
Is competent in the area of :

Geoteknik Tambang Mineral dan Batubara
Mineral and Coal Mining Geotechnics

Dengan Kualifikasi / Kompetensi :
With Qualification / Competency :

Pelaksanaan Kegiatan Geoteknik Tambang Mineral Dan Batubara
Geotechnical Performing Mineral And Coal Mining Activities

Sertifikat ini berlaku sampai dengan 4 (empat) Tahun
This certificate is valid until 4 (four) Years

Jakarta, 18 Oktober 2024

Atas nama (On behalf of) BNSP
Indonesian Professional Certification Authority
Lembaga Sertifikasi Profesi PERHAPI
Professional Certification Body PERHAPI

Ir. Rajulisman
MET.000.000658 2010
Ketua LSP PERHAPI
Chairman

F7336971

BADAN NASIONAL
SERTIFIKASI PROFESI
INDONESIA PROFESSIONAL CERTIFICATION AUTHORITY

SERTIFIKAT KOMPETENSI
CERTIFICATE OF COMPETENCE

Nomor Sertifikat / *Certificate Number*
74321 2142.99 8 00054651 2024

Dengan ini menyatakan bahwa,
This is to certify that,

HARTAWI RISKHA

No. Reg. F 1993 54651 2024 0390946 SI 15

Telah Kompeten pada bidang:
Is competent in the area of:

Jasa Konstruksi
Construction Services

Dengan Kualifikasi / Kompetensi:
With Qualification / Competency:

Ahli Madya Geoteknik
Associate Geotechnical Expert

Sertifikat ini berlaku untuk 5 (lima) tahun
This certificate is valid for 5 (five) years

Atas nama Badan Nasional Sertifikasi Profesi
On Behalf of Indonesia Professional Certification Authority

Lembaga Sertifikasi Profesi Astekindo Konstruksi Mandiri
Astekindo Konstruksi Mandiri Professional Certification Agency

Yosep Fernando Putra, S.T.
Ketua LSP
Chairman PCA

PT. BUKIT RAYA SEKAWAN

The Golden Nest B-10

Jl. Perdana Raya, Kedung Badak, Tanah Sareal, Bogor 16164

Contact Us :

Website : www.br-s.co.id

PIC : +62 852-1403-7198 (Rudi Garnadi)

Social Network : PT Bukit Raya Sekawan (Linkedin)