

**Regional Disaster Risk Reduction and Management Full Council (RDRRMC) MIMAROPA**  
**2<sup>nd</sup> Quarter Full Council Meeting**  
**Video Teleconference via Zoom App**  
**23 June 2022 / 09:00AM**

**MINUTES OF THE MEETING**

**Participants:**

- Dir. Ruben L. Carandang	OCD MIMAROPA, DND
	Chairperson, RDRRMC MIMAROPA
- Dir. Agustin C. Mendoza	NEDA MIMAROPA
- OIC-RD Engr. Ronald B. Cabute	NTC MIMAROPA
- Dir. Erwin M. Mojares	DENR-MGB MIMAROPA
- ARD Apollo Edwin S. Pagano	NEDA MIMAROPA
- Riznette Kathleen S. Sales	DILG MIMAROPA
- Janssen Andeza	DOST MIMAROPA
- Allan Acosta	DOST MIMAROPA
- Geneliza Q. Gabilan	DSWD MIMAROPA
- Maria Erla C. Peteza	DSWD MIMAROPA
- Sheryll B. Sarabia	NEDA MIMAROPA
- Angelo Paolo Aboboto	NEDA MIMAROPA
- Ruther John Col-Long	NEDA MIMAROPA
- Dr. Rommel Lizan	DOH MIMAROPA
- Jhoanne Macam	DOH MIMAROPA
- Kevin Felizardo	DOH MIMAROPA
- Maevelyn Kathryn Tupasi	DENR-EMB MIMAROPA
- Ashley Denise Adora L. Ignacio	DENR-EMB MIMAROPA
- Marilyn Limpiada	DENR MIMAROPA
- Ana Liza S. Solis	DOST PAGASA
- Norly Tabo	DICT MIMAROPA
- Jose Carmelo Cueto	DICT MIMAROPA
- Virgo Pinangay	DICT MIMAROPA
- Marck Joseph Real	DICT MIMAROPA
- Aris Sadiwa	DICT MIMAROPA
- Russian Rosales	DICT MIMAROPA
- Marevic De Jesus-Mulleda	DICT MIMAROPA
- Lyndon Plantilla	PIA MIMAROPA
- Emmanuel T. Perez	BFAR MIMAROPA
- Gaudencio M. Alger, Jr.	BFAR MIMAROPA
- Louis Frederic Q. Alconcel	DHSUD MIMAROPA
- Rica Graciosa M. Flores	DHSUD MIMAROPA
- Maximo Cabasal	NHA MIMAROPA
- Arch Larry Valones	NHA MIMAROPA
- Mehwish De Castro	LTO MIMAROPA
- Engr. Randy E. Magboo	NIA MIMAROPA
- Engr. Kimberly D. Olicia	DOLE MIMAROPA
- Ens Kennedy S Ma-alat	PCG STL
- Ens Eugenio K Romea	PCG STL
- PPSupt Francer Donn M Rayos	PPA Mindoro
- FSSupt Donald P Rodriguez	BFP MIMAROPA
- PLtCol Sumawang	PRO MIMAROPA
- PCpl Danny Asir, Jr.	PRO MIMAROPA
- Arch James Gonzalo	DOTr
- Ley Ordenes	DOTr-OTS
- Lolaine Bagsic	DepEd MIMAROPA
- Maj Mangabat	SOLCOM
- Cpt Cataluna	WESCOM
- Capt Ongog, PA	2 <sup>nd</sup> Infantry Division



- Ltc Pabon
- Maria Camille Louise Chen
- Cruzaldy Ablaña
- Col. Roseller Muros (Ret)
- Jose Rino Labay
- Sheila Marie Chua
- Vinscent B. Gahol
- Mariefel V. Cabile
- Kristoffer P. Baronggo
- Patrick Anthony Naval
- Dennis T. Escosora
- Earl H. Timbancaya
- Onofre Atienza
- Nieves L. Bonifacio
- Marc Rembrandt Victore
- Maria Aiza Siason
- Allinah Janzen Magnaye
- Georgina G. Opinion
- Sheila Marie S. Reyes
- Clyde Jewel C. Solis
- Jonalyn Escartin
- Mary An B. Aceveda
- Anthony M. Zoleta
- Wilmer F. Fabella

203<sup>rd</sup> Infantry Brigade  
 NNC MIMAROPA  
 PDRRMO Palawan  
 PDRRMO Romblon  
 PDRRMO Marinduque  
 PDRRMO Marinduque  
 PDRRMO Oriental Mindoro  
 PDRRMO Occidental Mindoro  
 PDRRMO Occidental Mindoro  
 PDRRMO Occidental Mindoro  
 CDRRMO Calapan City  
 CDRRMO Puerto Princesa City  
 MDRRMO San Teodoro, OrMin  
 OCD MIMAROPA  
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## 1. Proceedings/Highlights of the Meeting

- The meeting started at 09:00 AM with the invocation and the giving of welcome remarks by OCD MIMAROPA ARD Nieves Bonifacio, followed by the acknowledgement of the participants by Mr. Efril F. Maranan and the call of meeting to order by Dir. Ruben Carandang.
- Mr. Maranan presented the proposed provisional agenda of the meeting and the minutes of the previous meeting which were duly approved and seconded by the member agencies.

### Presentation of Weather and Climate Outlook by DOST-PAGASA

- Ms. Ana Liza S. Solis of DOST-PAGASA presented the MIMAROPA Weather Update and Climate Outlook for the 3<sup>rd</sup> Quarter of 2022. As presented, ENSO Alert System Status is La Niña Advisory No. 9. Although La Niña is weakening in the Tropical Pacific, most climate models predict La Niña to continue until the end of the year (52-59% chance) (updated 20 June).
- Forecast Rainfall in MIMAROPA are generally near normal rainfall conditions from July 2022, generally near normal rainfall conditions from August-September 2022, generally above normal rainfall conditions are predicted from October-November 2022 and generally above normal rainfall conditions from December 2022. For Tropical Cyclone Forecast, 11-15 tropical cyclones are expected to enter/develop in the PAR from July to December 2022.
- ARD Nieves Bonifacio advised MIMAROPA PDRRMOs to implement necessary preparedness measures and actions within their respective AORs in preparation for possible above normal rainfall to be experienced on October to December 2022.



**Presentation of the Effects of Contaminated Water Sources to Health of Communities in Areas Around MARCOPPER Mining Facilities in Marinduque by DOH MIMAROPA**

- Ms. Jhoanne Macam of DOH MIMAROPA presented the Effects of Heavy Metals Exposure in the province of Marinduque. Part of her presentation are the different types and uses of heavy metals, identification and signs and symptoms of case form, results of the Environmental Health Assessment Report, Joint Research of MaPUA & Marinduque on Ground Water and Surface Water, Mode of Transmission: Illustration on the sources of Heavy Metal Pollution through Bioaccumulation and Biomagnification of Food Chain, mitigation activities and take-home points. The Toxic 6 (Lead, Arsenic, Mercury, Copper, Chromium and Cadmium) were found in Marinduque. Based on the Rapid Health Assessment from February 2017, DENR reported that some barangays have high levels of heavy metals such as copper, cadmium, and lead. Medical examination was done and the patient manifested with hypertension, dental caries, chest tightness, pallor, headache, numbness, skin lesions/rough dry scales with itchiness, hypo/hyperpigmentation and some patient also presented with scabies and vertigo. Signs and symptoms maybe correlated to heavy metal exposure.
- Per environmental health assessment from September 2017, seventy-seven (77) drinking water samples were collected in municipalities of Mogpog, Sta. Cruz, Gasa, Torrijos, and Buenavista. Traces of heavy metal were detected (Iron, Zinc, Chromium, Arsenic, Mercury, Copper and Nickel. Four (4) samples in areas of Mogpos failed to comply for the standard value set for pH (normal pH 6.5mg/L-8.5/L). These are the Nangka II, Brgy. Janagdong Shallow Well (6.21), Sitio Ilaya, Kilo Kilo Spring (5.47), Sitio Troso, Brgy. Ino Deep Well (5.4), Sitio Kawayan Uno, Ino Deep Well (3.93). Water with pH below the EPA standard is considered acidic.
- Ms. Macam also highlighted their establishment of telemedicine project & toxico-disease surveillance system. The essential element of the operations is through the use of video-call using information and communication technology (ICT) that could assess examine the patients of the health service providers to the referral facilities.
- Dir. Carandang manifested on the continuous implementation of the efforts to address the effects of heavy metals to the community and on the percentage of Marinduque populace intoxicated by heavy metals.
- Dr. Lizan mentioned that they have continuously implementing these efforts to address the effects of heavy metals in the community even during the pandemic. However, they don't have data or statistics on the percentage of entirety of the population intoxicated by heavy metals due to the large amount of funding needed.
- Dir. Carandang manifested on the action being taken by the PDRRMC Marinduque on addressing the health issues arising due to heavy metals aside from the legal actions being taken.
- Mr. Rino Labay of PDRRMO Marinduque mentioned that aside from the legal actions being undertaken by the provincial government, their Provincial Health Office is requesting for water testing equipment/instrument to be used in the conduct of water quality testing in the province.
- Ms. Macam discussed their experience on their visit to the Marcopper Mining Facility. Based on their observation, aside from issues on the food chain there are issues also in the environment respectively. She also mentioned that they also tested the mercurial content of the air and as a result, it has reached a minimum risk. Thus, staying in the area they will get intoxication and contamination.



- Dr. Lizan also mentioned the abandoned Quick Mining Silver Facility in Brgys. Tagburos and Sta. Lourdes, Palawan that is polluting the surrounding areas and the siltation goes to Honda Bay.
- Dir. Carandang highlighted the importance of the councils' roles in prevention and mitigation and preparedness in reducing the risk and vulnerabilities. He advised Mr. Labay to continue the efforts being undertaken in Marcopper Mining and that he will also endorse this to the incoming regional director to continuously follow-up to the national government their action on the Marcopper issues.

#### **Presentation of the Result of Water Sampling / Testing conducted in areas affected by MARCOPPER Mining by DENR-EMB MIMAROPA**

- Ms. Maevelyn Kathryn Tupasi of DENR-EMB MIMAROPA presented the inspection/monitoring activity and ambient water sampling conducted at MARCOPPER Mining Corporation (MMC) located at Mogpog and Sta. Cruz, Marinduque. Part of her presentation is the map of 15 water sampling stations, timeline of activities undertaken, list of hazardous wastes stored in Balogo Port, findings/observations and recommendations. They have conducted water sampling on March 29 to April 1, 2022 together with MGB Central Office and MGB MIMAROPA. The following are the result of water sampling:

Name of Station	Characteristics	pH Level	Temperature	Dissolved Oxygen	Total Suspended Solid (TSS)	Cadmium	Copper	Lead
Upper Makulapnit	Freshwater, Murky	Passed (8.4)	Passed (30.8)	Passed (9.40)	Passed (3)	Passed (<0.01)	Passed (<0.01)	Passed (0.3)
Lower Makulapnit	Contaminated with mine tailings, visually greenish	<b>Failed (5.1)</b>	Passed (30.5)	Passed (7.94)	Passed (4)	Passed (<0.01)	<b>Failed (13.27)</b>	<b>Failed (0.10)</b>
Makulapnit Bypass Tunnel	Contaminated with mine waste/tailing, visually clear	Passed (6.9)	<b>Failed (24.5)</b>	Passed (7.39)	Passed (3)	Passed (<0.01)	Passed (<0.01)	<b>Failed (0.08)</b>
Hinapulan Creek 1	Visually clear	Passed (7.6)	Passed (28.8)	Passed (8.72)	Passed (<2)	Passed (<0.01)	Passed (0.09)	<b>Failed (0.10)</b>
Hinapulan Creek 2	Visually clear	Passed (7.9)	Passed (29.1)	Passed (9.26)	Passed (<2)	Passed (<0.01)	<b>Failed (0.41)</b>	<b>Failed (0.08)</b>
San Antonio Pit	Visually greenish	<b>Failed (3.2)</b>	Passed (29.0)	Passed (5.91)	Passed (<2)	Passed (<0.01)	<b>Failed (7.92)</b>	<b>Failed (0.07)</b>
Mapalos Creek (disch)	Visually clear, with observ	<b>Failed (4.1)</b>	Passed (30.9)	Passed (6.38)	Passed (10)	Passed (<0.01)	<b>Failed (8.13)</b>	<b>Failed (0.06)</b>



arge chann el of san Antoni o Pit)	able accumu lated sedime nt deposit s							
Magil a- guila Waste Dump	Contam inated with mine waste/t ailing, visually clear, with observ able accumu lated sedime nt deposit s	<b>Fail ed (3.6)</b>	<b>Fail ed (34.7)</b>	Passed (9.73)	Passed (3)	Passed ( $<0.01$ )	<b>Failed (13.26)</b>	<b>Passed (<math>&lt;0.01</math>)</b>
Magui la- guila Siltati on Dam	Contam inated with mine waste/t ailing, visually greenis h, with observ able accumu lated sedime nt deposit s	<b>Fail ed (3.2)</b>	Passe d (29)	Passed (7)	Passed (7)	Passed ( $<0.01$ )	<b>Failed (14.65)</b>	Passed (0.02)
Tapia n Pit	Visually aquam arine with rust colored gravel / stones	<b>Fail ed (3.5)</b>	Passe d (29.0)	Passed (5.13)	Passed (3)	Passed ( $<0.01$ )	<b>Failed (3.95)</b>	<b>Failed (0.08)</b>
Bol River Upstr eam	Visually clear	<b>Fail ed (3.5)</b>	Passe d (29.0)	Passed (5.13)	Passed (2)	Passed ( $<0.01$ )	Passed ( $<0.01$ )	Passed (0.03)
Bol River Down stream	Visually aquam arine	<b>Fail ed (5.2)</b>	Passe d (30.3)	Passed (5.48)	Passed (8)	Passed ( $<0.01$ )	<b>Failed (3.09)</b>	Passed (0.04)



Bocbo c Gabio n	Contam inated with mine tailing	<b>Failed (4.2)</b>	Passed (30.2)	Passed (7.90)	Passed (13)	Passed ( $<0.01$ )	<b>Failed (9.43)</b>	Passed ( $<0.01$ )
Balog o Port		Undet ected	Undet ected	Undet ected	Passed (20)	Passed ( $<0.01$ )	Passed ( $<0.01$ )	<b>Failed (0.18)</b>
Calan can Bay		Undet ected	Undet ected	Undet ected	Passed (20)	Passed ( $<0.01$ )	Passed ( $<0.01$ )	<b>Failed (0.16)</b>

- She also discussed the types of hazardous wastes found in the Balogo Port namely: Waste Electrical and Electronic Equipment (WEEE), Special Waste, Used or Waste Oil, Oil contaminated materials, caps of several transformers were found open exposing its oil content, Some transformers have nameplates manufactured in 1969 à Possible PCB containing and Radiation Area.
- Moreover, as per Findings and Observations of DENR in 2001, Placer Dome Technical Services permanently closed its offices in Marinduque & Manila without any rehabilitation /activity in the area leaving behind mine tailings in Boac and Mogpog River; Meteoric water stored at the Pit Lake with low pH value, probably due to host rock containing Sulfide Ore and oxidation of mineral pyrite. The Hazardous Waste Materials (HWM) stored in the project area has no label and the management failed to implement proper housekeeping/storage management (with NOV dated 06 January 2021 issued by DENR). According to the MGB staff and local residents in the area, the water level of Tapian Pit Lake and San Antonio Pit Lake is lower at the time of monitoring as compared to its previous level with bluish color of water is an indication of high concentrations of copper in the water.
- Based on these findings and observations, in order to prevent further environmental damage and possible leakages of contaminated tailings unto the receiving water bodies, the Marcopper Mining Corporation (MMC) shall conduct immediate restoration/rehabilitation of all mining facilities and other structures within the mining tenement, taking into account the following:
  - a) Detailed assessment of the Tapian Pit, San Antonio Pit including structural integrity of Maguila-Guila Siltation Earth Dam /Pond and Makulapnit Siltation Earth Dam/Pond;
  - b) Immediate conduct of Toxicity Characteristic Leaching Procedure (TCLP) on all areas affected by Chemicals and Hazardous Wastes;
  - c) Immediate and proper disposal of all hazardous waste materials to the accredited Treatment Disposal Treatment Plant and other solid wastes in which all expenses must be borne by the MMC;
  - d) To construct effective Wastewater Treatment Facility (WWTF) in all strategic areas, and
  - e) Immediate removal/disposal of collapsed conveyor bridge along the road between the Mil and Bol River to prevent accidents affecting commuters and passers-by.
- Furthermore, Ms. Tupasi highlighted that EMB – MIMAROPA together with MGB-MIMAROPA will conduct regular water quality monitoring to include additional parameters, such as; Lead (Pb), Mercury (Hg) and Zinc (Zn) and Installation of Notice to the Public signages to inform the surrounding community about the possible health and environmental effects of the water quality in Boac and Mogpog River.
- ARD Bonifacio manifested on the effectivity of Bheema Bamboo Project in the absorption of heavy metal and she also asked if this project is still being implemented despite the transfer of Dr. Merian Mani in Romblon.



- Dr. Lizan mentioned that the Bheema Bamboo is highly effective on the absorption of heavy metals, however, the toxic materials stay on the stem and on the leaves of the bamboo and when it decays the toxic materials still stays on the area. Proper Disposal of the bamboo is the number one issue on the said project. He also mentioned that the solution that might possibly help in the environment is to drill a very deep hole to bury all the hazardous materials or to dispose all the hazardous materials from Marinduque or to evacuate all the populace of Marinduque.
- Dir. Carandang highlighted the importance of national intervention on the Marcopper issues. He advised the concerned regional agencies to endorse their findings and observations to their mother agencies to call their attention on this matter and for their immediate action.

## 2. Other Matters

- Mr. Onofre Atienza of MDRRMC San Teodoro, Oriental Mindoro presented their Documentary Requirements for their request on the construction of Regional Evacuation Center in their Municipality located at Brgy. Poblacion.
- Moreover, Ms. Allinah Janzen O. Magnaye of OCD MIMAROPA presented the summary of the request of San Teodoro, Oriental Mindoro on the construction of Regional Evacuation Center. Based on the DPWH Requirements on the Construction of Evacuation Center as of May 2019, San Teodoro complied/submitted all the requirements.
- Ms. Ashley Denise Adora L. Ignacio of DENR-EMB MIMAROPA manifested on the availability of Certificate of Alienable and Disposable. This certifies that the land is part of alienable and disposable agricultural lands of the public domain and is sufficient proof that the land is alienable.
- Ms. Magnaye highlighted the DPWH Requirements on the Construction of Evacuation Center however the certificate mentioned is not included in the requirement.
- Dir. Carandang recommended to have signed council resolution for the approval of the construction of evacuation center as instructed by Usec. Jalad before the endorsement of the project.
- The endorsement of the RDRRMC MIMAROPA on the Approval for the Construction of the Regional Evacuation Center in the Municipality of San Teodoro, Oriental Mindoro has been approved with no objections. The motion was made by Mr. Emmanuel T. Perez of BFAR MIMAROPA and was duly seconded by Mr. Dennis Escosora of CDRRMO Calapan City.
- OCD MIMAROPA awarded Plaque of Appreciation and Commendation to the relevant MIMAROPA RDRRMC Member Agencies involved in the humanitarian assistance and disaster relief operations in the region for their relentless efforts, dedication and significant contributions to the conduct of Regional Disaster Risk Reduction and Management endeavors and response operations within the period from 01 December 2018 to 30 June 2022, especially during the ongoing COVID-19 pandemic.

## 3. Decision Points/Actionable Items

- Mr. Marc Rembrandt P. Victore of OCD MIMAROPA presented the Actionable Items noted during meeting:

Item	Responsible Agency / Office
• Implement necessary preparedness measures and actions within	PDRRMOs of MIMAROPA




respective AORs in preparation for possible above normal rainfall to be experienced on October to December 2022.	
<ul style="list-style-type: none"> <li>Continuous testing/monitoring of drinking water in the Province of Marinduque for the presence of heavy metals to ascertain the level of toxicity.</li> </ul>	DOH MIMAROPA
<ul style="list-style-type: none"> <li>Provide the RDRRMC MIMAROPA, through the OCD MIMAROPA, with the copy of the latest report on monitoring of Marcopper Facilities and water testing results in Marinduque.</li> </ul>	DENR-EMB
<ul style="list-style-type: none"> <li>Draft the RDRRMC Resolution on the approval of the Regional Council for the request of Municipality of San Teodoro for the construction of Evacuation Center in the said Municipality, for the signature of the RDRRMC Chairperson and Vice Chairpersons.</li> </ul>	OCD MIMAROPA


#### Adjournment

- RDRRMC Chairperson, Ruben L. Carandang expressed his appreciation for the presence of RDRRMC member agencies and MIMAROPA P/CDRRMOs for their continuous support especially during the current new normal situation.
- The meeting was adjourned at 01:00 PM.

Prepared by:

  
**MARY AN B. ACEVEDA**  
 CDO II / Planning Assistant  
 OCD MIMAROPA

Noted by:

  
**DIR. RUBEN L. CARANDANG**  
 Chairperson, RTF COVID-19 MIMAROPA  
 Chairperson, RDRRMC MIMAROPA  
 Regional Director, OCD MIMAROPA