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DENR

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DENR: MASUNGI STRADDLES OTHER PROTECTED LANDS

STORY BY JEANNETTE I. ANDRADE, JACOB LAZARO AND JANE BAUTISTA

Agency's director in Calabarzon region blames lack of participation of technical staff from the field and central offices in formulating 2017 agreement, says even they were not aware as to when and where it was signed.

A2

FROM A1

By Jeannette I. Andrade,
Jacob Lazaro
and Jane Bautista
@Team_Inquirer

The fate of the 2017 deal between the government and the foundation overseeing the internationally acclaimed Masungi conservation project in Rizal province now hangs after an official of the Department of Environment and Natural Resources (DENR) on Tuesday said that the land area it covered overlapped with three other areas protected under previous laws.

The Masungi Georeserve Foundation Inc. (MGFI) and the late Gina Lopez, then environment secretary, had entered into a memorandum of agreement (MOA) on the protection and conservation of a 2,700-hectare property that has since been plagued by incidents of violence, alleged land grabbing, and illegal logging and quarrying.

Nilo Tamoria, DENR regional executive director of Calabarzon (Cavite, Laguna, Batangas, Rizal, Quezon), said during Tuesday's hearing of the House committee on natural resources that the area covered by the 2017 MOA straddled three exist-

ing protected areas under two earlier presidential proclamations and a law.

According to Tamoria, these are the Marikina watershed, the Kaliwa River forest reserve, and an unnamed larger area declared protected by Presidential Proclamation No. 1636 issued in the 1970s.

He said the area covered under the 2017 pact likewise overlapped with an ancestral domain title for 21,183 ha issued by the National Commission on Indigenous Peoples (NCIP), noting that 67 percent of Masungi's total land area was covered by a certificate of ancestral domain title issued by the NCIP.

Tamoria maintained that the DENR had "no input as to the technical description of the area covered" by the 2017 agreement, thus, there was "no specific metes and bounds" on the 2,700 ha.

Cavite Rep. Elpidio Barzaga Jr., who chairs the panel, remarked: "Unfortunately no career employee or civil service employee of DENR participated in the execution of the MOA with Secretary Lopez."

"Procedure-wise, any proposal should be validated by the field office. There is no record in the regional and even in the central office as to the complete staff work regarding the formulation and even we are not



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ONE WITH NATURE A group of visitors experiences nature through a trek in a section of Masungi Georeserve in Baras, Rizal, in this photo taken in January. —NIÑO JESUS ORBETA

aware [as to] when it was signed and where it was signed," Tamoria pointed out.

"We're just looking at where it was notarized. The complete documentation, especially on the aspect of the technical description, we had no participation," he told the committee.

Constitutional violation

The Department of Justice (DOJ), which is planning to

build either a penitentiary or the main office of the Bureau of Corrections on a 270-ha property within the protected area, has also claimed that the 2017 agreement of "perpetual trust" between the government and MGFI violated the Constitution.

Based on Section 2, Article XII of the 1987 Constitution, agreements entered into by the government on codevelopment of the country's natural

resources can only last for up to 25 years, Justice Undersecretary Raul Vasquez told Barzaga in a letter dated Feb. 15.

"Any such agreement involving natural resources should thus comply with this constitutional requirement. In light of this, it appears that the perpetual trust conferred to MGFI runs counter to Section 2, Article XII of the 1987 Constitution," Vasquez said.

Vasquez relayed the DOJ's position on the matter at the request of the House committee, which is investigating alleged illegal activities in the Masungi Georeserve.

The DOJ added that some parts of a protected area could be used by the government in partnership with private Filipino organizations and individuals as long as it would be given an environmental compliance certificate by the DENR and pay the corresponding user fees as provided by Republic Act No. 7586, or the National Integrated Protected Areas System Act of 1992.

For conservation

MGFI has countered that its agreement with the DENR should be read as an agreement for a "perpetual land trust for conservation" and not as a perpetual license.

In its position paper sub-

mitted on April 11 to the House committee, MGFI said the MOA "should be read in its entirety" and not reduced to a single phrase of "perpetual land trust."

"Otherwise, the 2017 MOA will not only disregard the premium given to the intent of the contracting parties or ignore the most basic rules on interpretation of contracts, but will also diminish the express constitutional provisions in relation to environmental protection and conservation," the foundation said in the document obtained by the Inquirer on Tuesday.

MGFI argued that there was a substantial difference between "exploration, development, utilization" and "conservation," saying that the law defines the latter as "preservation and sustainable utilization of wildlife and/or maintenance, restoration and enhancement of a habitat."

"It is the wise use of natural resources that assures regeneration and replenishment for continuous benefit," it said.

These definitions, according to MGFI, were the opposite of the activities related to "exploration, development and utilization" as development was defined as the work being done to explore and prepare an ore body or mineral deposit for mining. **INQ**



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Reclamation: More harm than good?



ABOUT TOWN
**ERNESTO M.
HILARIO**

RECLAMATION offers coastal countries in various parts of the world the prospect of expanding their land area and hence create more opportunities for economic growth.

In an archipelago like the Philippines whose territory consists of more than 7,100 islands, reclamation is an attractive and convenient option for the government and the private sector to collaborate in making reclaimed land serve economic development goals.

At present, there are a number of proposed and ongoing land reclamation projects.

There were 50 reclamation projects in various stages of construction across the country as of September 2022.

Of these, 20 projects have been approved by the Philippine Reclamation Agency (PRA), while 24 are still in the application stage. The estimated total area of reclamation projects nationwide is 11,800 hectares.

The Bulacan Aerotropolis being built north of Manila by one of the country's biggest business conglomerates is one such reclamation project.

It will reclaim land from the coast of Bulacan municipality to build a new airport, thus decongesting the old, run-down Manila International Airport.

At the same time, the modern airport can contribute immensely to over-all economic growth.

It is true that reclamation has huge potential to contribute to sustainable development goals.

There are reclamation projects abroad from which the Philippines can draw valuable lessons.

The reclamation project undertaken in the port of Rotterdam, Netherlands, for instance, is considered a big success as extensive studies have shown that it led to innovative practices and improved social and environmental conditions, apart from complying with strict safety standards and producing economic and social benefits.

Reclamation projects, therefore, can yield additional land that can be tapped for residential, commercial and industrial uses.

Once completed, reclamation projects

can provide additional sources of income for government in the form of taxes from enterprises and factories that choose to locate in reclaimed land.

But reclamation also has its downside. While it sounds like a good developmental idea, it may not be as sound as we might think.

Reclamation projects already approved for implementation by previous administrations appear to have proceeded without due consideration to their adverse economic, environmental and social impacts.

Reclamation projects should be part of an over-all economic development program.

“What they are urging the government to do now is to review all proposed and ongoing projects to determine whether they will be beneficial or harmful to the economy and the environment”

They should also obtain the required environmental compliance certificates from the DENR.

Moreover, they should undertake proper consultation with the affected communities, such as fisherfolk, since this sector faces the threat of loss of livelihood once the reclamation project gets off the ground.

NGOs opposed to reclamation projects have raised other questions.

Why are reclamation projects already being awarded to proponents when the supposed masterplan that will govern them is still non-existent?

Do these projects even have feasibility studies that will justify the clearing of mangroves and coast-filling already undertaken by reclamation companies?

Kalikasan-People's Network for the Environment (Kalikasan-PNE) and the People's Network for the Integrity of Coastal Habitats and Ecosystems (People's NICHE) are among the non-government organizations opposed to reclamation projects.

They cite the reduction of fishing grounds which can threaten food security.

Once land reclamation starts, they foresee incalculable damage to mangroves, seagrass and corals. And reclamation will also lead to the displacement of people in coastal areas.

Last April 22, 2023, on Earth Day, groups renewed their call for the government to stop reclamation and dredging projects without the required Environmental Impact Study (EIS).

They are one in saying that reclamation, dump-and-fill, dredging and seabed quarrying would lead to habitat destruction and biodiversity loss.

What they are urging the government to do now is to review all proposed and ongoing projects to determine whether they will be beneficial or harmful to the economy and the environment.

A concrete step along this direction is the recent move by the Department of Environment and Natural Resources (DENR) to convene an experts' forum to review the government's policy on reclamation and to craft recommendations on how this can be improved so that it results in sustainable development rather than cause adverse economic, environmental and social costs.

The forum seeks to foster dialogue among experts and stakeholders to generate insights on reclamation, identify entry points as well as gaps in policy, and obtain expert recommendations on what policies should be put in place at both the national and local levels to make reclamation serve development goals.

The expected output of the experts' forum is a set of policy guidelines that will inform the review of existing reclamation laws and policies.

The DENR has pointed out that while the recently launched Philippine Development Plan 2023-2028 prioritizes economic growth and a conducive business environment to increase public-private partnerships (PPPs) in various sectors, it also seeks to protect the environment and strengthen community resilience from climate change hazards.

In the end, what matters is what President Ferdinand R. Marcos Jr., said in his first State of the Nation Address (SONA) in July last year.

He emphasized: "Companies who exploit our natural resources must follow the law... there is no question that the preservation of the environment is the preservation of lives." (Email: ernhil@yahoo.com)



House panel sets inquiry into Metro water shortage

By JOVEE MARIE N. DELA CRUZ
@joveemarie

THE House Committee on Metro Manila Development has called the heads of Metropolitan Waterworks and Sewerage System (MWSS), Maynilad, Manila Water, Philippine Atmospheric, Geophysical and Astronomical Services Administration (Pagasa), Department of Environment and Natural Resources-Water Resources Management Office and Laguna Lake Development Authority to a meeting today (Wednesday) to brief the panel on depleting water supplies in Metro Manila.

Manila Second District Rep. Rolan Valeriano, the panel chair-

man, said his committee would discuss the depleting water supply for Metro Manila with concerned government agencies.

The committee has also invited the National Economic and Development Authority, National Power Corp., National Water Resources Board, and Local Water Utilities Administration.

The committee is also expected to look into the water level situation in Angat and La Mesa Dams.

Valenzuela Rep. Eric Martinez raised the continuous decline of dams' water levels, citing Pagasa's monitoring effort.

For his part, Makati Rep. Luis Campos recalled having pushed for the desalination of water

drawn from the Laguna de Bay as another source of potable water for Metro Manila.

According to Valeriano, Angat provides 97 percent of Metro Manila's water or 4,000 million liters per day of water via the La Mesa reservoir system.

"Although 60 percent of this is allocated to Maynilad, it has been penalized a couple of times lately by MWSS due to repeated water interruptions," he said.

"More allocated to Maynilad, still not enough. Remember, Manila Water has only a 40 percent share," he added.

Valeriano said it is critical to find out "how worse exactly is our water situation at present."



Maynilad takes steps vs Laguna de Bay deterioration

By RICHMOND MERCURIO

West zone concessionaire Maynilad Water Services Inc. has laid out necessary interventions to help prevent further deterioration in Laguna de Bay's water quality, which may trigger water supply interruption.

Maynilad, which sources at least 300 million liters per day (MLD) from Laguna de Bay, said it has installed ultrasonic algae control equipment and upgraded its silt

curtain to protect the lake from pollutants and keep its quality stable.

Laguna de Bay, the country's largest lake and a major source of potable water, has seen a deterioration in its water quality due to industrial pollutants, excessive fish feeds and chemicals.

Maynilad's monitoring of the lake's water quality showed the water's nephelometric turbidity units reached 154 in April and a high of 233 NTU from May 1 to 7.

The company said the lake's

ideal NTU should be below 100 or ranging from only 40 to 70.

Latest data from the state-run Laguna Lake Development Authority showed that there is a high concentration of blue-green algae in the lake, a form of bacteria that adversely affects both water quality and the filtration system in the lake.

"Maynilad began dredging the portion of the lake near its facility's intake structure to minimize vulnerability to spikes in turbidity," the company said in a statement.

"It has also been replacing the filters of its treatment plants more frequently than the filter's expected lifespan," it said.

Maynilad currently gets 300 MLD from the lake through its two treatment plants in Barangay Putatan in Muntinlupa City.

The supply serves around 10 percent of the company's total customer base, while the rest or 90 percent of its supply is sourced from Angat Dam in Bulacan.

Maynilad, the largest private

water concessionaire in the Philippines, began tapping Laguna de Bay as an alternate source of raw water in 2010.

The company is in the process of constructing its third treatment facility, which will be completed by the end of the year.

Maynilad serves the west zone or the areas of Caloocan, Pasay, Parañaque, Las Piñas, Muntinlupa, Valenzuela, Navotas and Malabon as well as portions of Manila, Quezon City, Makati and Cavite.



Maynilad prepares for water shortage

WEST Zone concessionaire Maynilad Water Services Inc. (Maynilad) said on Tuesday that it had laid out interventions, such as the installation of ultrasonic algae control equipment and upgrade of its silt curtain, as the government and the private sector are keeping an eye on all water resources to ensure that supply will be enough to meet the demand amid a looming El Niño.

Muntinlupa Mayor Ruffy Biazon had said that the deteriorating water quality in Laguna Lake, the country's largest lake and a major source of potable water, was due to industrial pollutants, excessive fish feeds and chemicals threatening to cut Metro Manila's water source.

Biazon said that it was "imperative" to protect the lake from pollutants to keep its quality stable and avert any water interruption.

"For Laguna Lake to become a truly viable source of drinking water, it has to be protected. It is important to develop and implement programs and projects for the lake to ensure that its water quality is maintained at standards intended for its use," he said.

Maynilad said that it had laid out interventions to prevent the situation from worsening and triggering water interruption.

The water concessionaire said that it consistently upgrades its water treatment facility to provide customers with clean water.

But it admitted that the prolonged high turbidity in Laguna Lake makes it harder for treatment plants to process water before supplying it to the customers.

Reports said that Laguna Lake has become shallow to as low as 2 meters due to siltation that strong gusts of wind can easily stir up sediments in the lake bed,

making the raw water highly turbid.

Based on Maynilad's monitoring of the lake's water quality, the water's nephelometric turbidity units (NTU) reached 154 levels in April and a high of 233 NTU from May 1 to 7.

Ideally, the lake's NTU should be below 100 or ranging from only 40 to 70. Thus, Maynilad began dredging the portion of the lake near its facility's intake structure to minimize vulnerability to spikes in turbidity.

It has also been replacing the filters of its treatment plants more frequently than the filter's expected lifespan.

Maynilad currently gets 300 MLD from Laguna Lake through its two treatment plants in Barangay Putatan in Muntinlupa City.

The supply serves around 10 percent of the company's total customer base.

The rest or 90 percent of its supply is sourced from Angat Dam in Bulacan.

Maynilad began tapping Laguna Lake as an alternate source of raw water in 2010.

It is currently in the process of constructing its third treatment facility, which will be completed by the end of the year.

The latest data from the state-run Laguna Lake Development Authority (LLDA) showed that there is a high concentration of blue-green algae in the lake, a form of bacteria that adversely affects both water quality and the filtration system in the lake.

Although algae are fish food, the LLDA warned that the buildup can also cause fish kills.

To date, around 80 percent of bangus and tilapia supply in Metro Manila comes from Laguna Lake.

The LLDA deployed more than a hundred solar-powered paddle wheels to prevent the growth of the algae.

FRANCIS EARL CUETO



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PBBM water crisis agenda eyes

Laguna de Bay



LITO GAGNI

PRESIDENT Marcos's agenda on resolving the water crisis will include Laguna de Bay, the biggest freshwater lake in the Philippines, which is now threatened by the continued discharge of industrial pollutants resulting in the deterioration of its water quality.

The Laguna de Bay solution forms part of what the President said is an "overall plan" to address the looming water crisis since water from the lake is also used as a source of drinking water for Metro Manila residents. Thus, there is a need to ensure that the quality of water in the lake is not affected by chemicals, which makes it difficult for the water to be processed as drinking water.

"All of these things we have already put up together—we have already [put] together [an] overall plan. Now, we have to implement it. There are many agencies that are concerned when it comes to water management. So we have to make it more cohesive," PBBM said when asked how his administration will address the water crisis.

This means that the Laguna Lake Development Authority (LLDA), which oversees the implementation of measures to ensure that indus-

trial pollutants are not discharged into the lake, will have to act fast especially with the looming El Niño threat that PAGASA had flagged this coming month. After all, Maynilad Water Services, which services the West Zone, sources 300 million liters of water per day from the lake.

Aware of the looming water crisis, the President had set up the Office of Water Management, which will be under the Office of the President, to monitor the situation. That means LLDA will have to continuously monitor the discharge of industrial pollutants into the lake so that the processing of drinking water will not be affected.

The latest LLDA data showed that there is a high concentration of blue-green algae in the lake, a form of bacteria that adversely affects both water quality and the filtration system in the lake. Thus, the LLDA deployed more than a hundred solar-powered

Government agencies need to help in the President's economic agenda to make the Philippines a middle-income nation, and that means pursuing in their own turf the delivery of government services such as that of clean water, part of the United Nations' Sustainable Development Goal. Freeing President Marcos from these mundane and tedious tasks will give him more time to concentrate on making the economy grow.

paddle wheels to prevent the growth of the algae.

The challenge for LLDA to conform with President Marcos' agenda on addressing the water crisis is to address the worsening turbidity in the Laguna lake water as this prolongs the processing of drinking water and may even result in the cut-off in supply. Aggravating the situation is the fact that parts of the Laguna lake has become shallow to as low as two meters due to siltation that strong gusts of wind can easily stir up sediments in the lake bed—making the raw water highly turbid.

We understand that Maynilad's monitoring of the lake's water quality showed that the water's Nephelometric Turbidity Units reached 154 levels in April and a high of 233 NTU from May 1 to 7. Ideally, the



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lake's NTU should be below 100 or ranging from only 40 to 70.

This is a big challenge for LLDA and the Office of Water Management even as they look elsewhere for other sources of water for the metropolis, such as the installation of rainwater cisterns, to avert a crisis. But what LLDA can do is to fully monitor the pollutants that are dumped into the lake as these contribute to the water's turbidity.

Government agencies need to help in the President's economic agenda to make the Philippines a middle-income nation, and that means pursuing in their own turf the delivery of government services such as that of clean water, part of the United Nations' Sustainable Development Goal. Freeing President Marcos from these mundane and tedious tasks will give him more time to concentrate on making the economy grow.

President Marcos has been at the forefront of moves to put vigor in the economy, traveling to foreign shores to pitch the country's investment potential and address inefficiencies in the government as he embarks on an ambitious plan to make jobs available here. So far, he has been successful in roping in foreign direct investments to benefit the economy.

But then, he also needs the help of government bureaucrats, and he needs not address his sights on small items like the Laguna Lake turbidity that can be addressed fully on the ground.



Editorial

Ride-hailing firms should take lead in emissions reductions

ACCORDING to the companies' respective environmental, social and governance (ESG) reports made public last week, the two biggest ride-hailing and delivery firms in Southeast Asia — Singapore-based Grab, which is the leading operator here in the Philippines, and Indonesia's GoTo, the parent company of ride-hailing firm Gojek and e-commerce company Tokopedia — are failing miserably in their efforts to work toward achieving their carbon-neutrality pledges, recording a surge in greenhouse gas (GHG) emissions in 2022. This is obviously a problem that cannot be ignored, but given the unique position these companies hold in the economies where they operate, the problem should be considered an opportunity rather than a reason to condemn them.

Grab and GoTo both pledged to achieve carbon-neutral or zero-emissions status in 2021; Grab set a target date of 2040, while the smaller GoTo, which does not operate in as many countries, set a goal of 2030. However, those pledges were almost immediately derailed by a sharp increase in reported GHG emissions by both companies. Grab's carbon emissions skyrocketed by 123 percent to 3.35 million metric tons of carbon dioxide equivalent (CO₂e) between 2021 and 2022, while GoTo recorded a 19-percent increase in the same period to just under 1 million tons of CO₂e.

In both cases, the total emissions were almost entirely attributed to what are called Scope 3 emissions, or emissions that are from assets not directly owned or controlled by a company but are indirectly determined by the company's value chain.

In the case of Grab and GoTo, that means the large fleets of vehicles used for transportation and deliveries; across Southeast Asia, these number more than 5 million for Grab, of which there were 65,000 in the Philippines before the pandemic — a figure determined by an arbitrary cap on the number of drivers imposed by the Land Transportation Franchising and Regulatory Board (LTFRB). What makes Grab's surge in emissions all the more remarkable is that its roster of drivers significantly diminished during the pandemic, by almost half here in the Philippines.

In response to media questions about its surging emissions, Grab has highlighted several initiatives to reduce its environmental impact. Its latest ESG report claims that 39,000 metric tons of GHG emissions were eliminated by encouraging the use of zero-emission and low-emission vehicles, such as bicycles for deliveries and electric vehicles (EVs) or hybrid vehicles for transport services. The company has also emphasized that its decarbonization strategy takes into account its business expansion goals, although it does seem the sharp increase in GHG emissions last year may have come as a surprise.

In a thinly veiled, and we think justified, criticism of the governments in the countries where Grab operates, a Grab spokesman told a media interviewer that the success of its carbon neutrality strategy will largely depend on how quickly it can encourage its drivers to switch to EVs, which is, in turn, dependent on the market readiness for electrification. So far, only the Singaporean and Indonesian governments have announced strategies to shift their countries' vehicle populations to EVs, by 2040 and 2050, respectively.

We believe our government should work with Grab to develop the policy goals of broadening the adoption of EVs and reducing vehicles that have already been stated, and supported by recent legislation. For the government, the Grab ecosystem of vehicles and drivers is a useful sandbox to test initiatives such as tax incentives and subsidies to promote EV adoption as well as assessing ways in which ESG reporting can be improved to provide even more accurate data. Grab has enough vehicles and drivers to provide sound results of tested initiatives, which can then be fine-tuned and expanded to the entire country.

Grab Philippines would obviously have to speak for itself, but we believe the company would welcome such a partnership with the government, and the chance to not only improve its only environmental footprint but contribute to greater sustainability on a national scale. As for the government, it should not neglect the chance to make use of private sector resources and expertise to achieve the country's sustainability goals.



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Oil spill continues to affect Pola

THE municipality of Pola in Oriental Mindoro continues to experience the effects of the oil spill from the sunken tanker MT Princess Empress.

Mayor Jennifer Cruz of Pola said the estimated damage caused by the oil spill to the livelihood of fisherfolk reached P300 million while the estimated damage to the shoreline and mangroves reached P134 million.

Cruz said that oil slick persists as the oil coming from the tanker has not been contained yet. "When the wave comes there

are still traces of oil, because as they've said the (sunken) tanker still has a lot of oil in it," the mayor said.

Cruz also said that there is no specific time frame from the national government on how long the cleanup drive will last.

"But other experts said that it will take six months to one year," Cruz said.

The mayor also said that it will take time for them to recover as the corals have been badly affected and the oil has been immersed beneath the sand.

Cruz added that the most effective way to hasten the cleanup is to first contain the leak from the sunken tanker. Meanwhile, she noted that the cash-for-work program of the Department of Social Welfare and Development is still ongoing and was able to aid about 1,600 individuals.

The Department of Environment and Natural Resources earlier reported that P517 million worth of recovery assistance was distributed to 96,256 beneficiaries

in Regions 4A (Cavite, Laguna, Batangas, Rizal, Quezon), 4B (Mindoro Oriental and Occidental, Marinduque, Romblon and Palawan) and Region 6 or Western Visayas.

The MT Princess Empress was carrying around 800,000 liters of industrial oil when it sank off the central island of Mindoro on February 28. As of May 11, the National Task Force on Oil Spill Management said the oil spill has affected 40,733 families in the three regions.

JANINE ALEXIS



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4 hurt, 30 families flee Koronadal City floods, landslides

KORONADAL CITY (PNA) - Heavy downpours triggered flash floods that submerged several communities and forced civilians to flee to safer grounds here on Monday night, May 15.

At least four persons were slightly injured and more than 150 individuals or 30 families were rushed to the regional evacuation center as flash floods hit Barangay San Jose.

Thirteen of the families are still at the evacuation center while the barangay government

is extending food aid to displaced families.

Barangay San Jose Chairman Danilo Simtim said most of the houses hit by the flash floods were in Puroks Pantalan and Maawin inundated by knee-high mud and floating garbage.

Brownout engulfed the barangay after fallen tree branches hit electric posts.

Cyrus Urbano, city disaster risk reduction and management council officer, said two houses were destroyed by rampaging water that hit the barangay after several hours of heavy rain.

Several low-lying residential areas were also submerged by knee-deep floods primarily due to clogged drainage canals.



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27 areas in PH log 'dangerous' heat index

By ELLALYN RUIZ

Scorching heat continued to plague parts of the country on Tuesday, May 16, with heat index values reaching "dangerous" levels in 27 monitoring stations of the Philippine Atmospheric, Geophysical, and Astronomical Services Administration (PAGASA).

The heat index is the measurement of how hot it feels when relative humidity is factored in with the actual air temperature.

Based on PAGASA's data, stations with dangerous heat index levels recorded on Tuesday were Daet, Camarines Norte (47°C); Masbate

City, Masbate (46°C); Borongan, Eastern Samar (45°C); Catarman, Northern Samar (45°C); Infanta, Quezon (45°C); Maasin, Southern Leyte (45°C); Roxas City, Capiz (45°C); Baler, Aurora (44°C); Calapan, Oriental Mindoro (44°C); Dipolog City, Zamboanga del Norte (44°C); Juban, Sorsogon (44°C); Tuguegarao City, Cagayan (44°C); Virac, Catanduanes (44°C); Ambulong, Tanauan, Batangas (43°C);

Aparri, Cagayan (43°C); Catbalogan, Western Samar (43°C); Central Bicol State University of Agriculture, Pili, Camarines Sur (43°C); Iloilo City, Iloilo (43°C); Laguindingan Airport, Misamis

Oriental (43°C); Surigao City, Surigao del Norte (43°C); Tacloban City, Leyte (43°C); Coron, Palawan (42°C); Dagupan City, Pangasinan (42°C); Dausi, Bohol (42°C); Laoag City, Ilocos Norte (42°C); Tayabas City, Quezon (42°C); and Zamboanga City, Zamboanga del Sur (42°C).

According to PAGASA, a heat index ranging from 42°C to 51°C indicates impending "danger," as "heat cramps and heat exhaustion are likely," and "heat stroke is probable with continued activity."

PAGASA recorded the highest heat index in the country so far this year on May 12 in Legazpi City, Albay at 50°C.

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Republic of the Philippines Department of Environment and Natural Resources

MAY 04, 2023 DENR Administrative Order No. 2023-55

REVISED GUIDELINES FOR THE CLASSIFICATION AND REPORTING STANDARDS OF EXPLORATION RESULTS, MINERAL RESOURCES AND MINERAL RESERVES

Pursuant to the pertinent provisions of Republic Act (RA) No. 7542, otherwise known as the Philippine Mining Act of 1992, and its implementing rules and regulations... SECTION 1. Rationale...

SECTION 11. Administration of Mineral Resources and Mineral Reserves Database... SECTION 12. Preparation of Reports on Exploration Results... SECTION 13. Qualifications of an Accredited Competent Person...

MARIA ANTONIA M. LOYUZAGA Secretary

ANNEX A, TABLE 1 - REVISED CHECKLIST OF ASSESSMENT AND REPORTING CRITERIA

Table with 4 columns: Introduction, Exploration Results, Mineral Resources, Mineral Reserves. It lists various criteria for assessment across categories like Location, Mineral Property Description, Adjacent Properties, and History.

Main checklist table with rows for categories like 'Legal Aspects and Permitting', 'Geological Setting, Mineral, Mineralization', 'Drilling Techniques', and 'Sample Preparation and Analysis'. Each row contains specific technical and regulatory requirements.



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Main table with columns for Section, Criteria, Description, and various sub-sections like Geological Interpretation, Estimation and modeling techniques, Reasonable prospects for eventual economic extraction, Classification Criteria, Discussion of relative accuracy/confidence, Reporting, Section 5: Technical Studies, Introduction, Mining Design, Metallurgical Networks, Infrastructure, Environmental and social, Market Studies and Economic criteria, Risk Analysis, Economic Analysis, Estimation and modeling techniques, Classification Criteria, Reporting, Audits and Reviews, Other relevant information, Accredited Competent Person.

Mineral Reserve replaced its term "Ore Reserve" as defined in PHRC 2007 edition and DENR Administrative Order No. 2010-09 in accordance with the CRISCO International Template Reporting 2019. One of the internationally recognized reporting standards to which the PHRC 2020 was modeled after (PDI - May 17, 2023)