



## COMPLIANCE INSPECTION FOR WATER QUALITY MANAGEMENT



## ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-WATER AIR QUALITY MONITORING SECTION

Report Control Number: \_\_\_\_\_

Date of Inspection: FEBRUARY 17, 2021Mission Order No.: EMBR8-2021-002082**1. GENERAL INFORMATION**

Name of Establishment: <b>HEVA MANAGEMENT AND DEVELOPMENT CORPORATION - GAISANO REAL</b>		
Address: <b>REAL ST. BRGY. 52 TACLOBAN CITY</b>		Geo Coordinates: <b>11.233426°N 125.002333 °E</b>
Nature of Business: <b>MALL/COMMERCIAL ESTABLISHMENT</b>		
PSIC Code: <b>37000</b>	Product: <b>-</b>	Year Established: <b>2017</b>
Operating hours/day: <b>8</b>	Operating days/week: <b>7</b>	Operating days/year:
Product Lines	Production Rate as Declared in the ECC (unit/day)	Actual Production Rate (unit/day)
N/A		
Name of Managing Head: <b>JOSHUA ALFABETE</b>		
Name of PCO: <b>JOSHUA ALFABETE</b>		
PCO Accreditation No.:	<b>2019-RVIII-0078</b>	Date of Effectivity: <b>01/18/2019</b>
Phone/Fax:	<b>254-8888/0917770453 09306657923</b>	Email: <b>pco.gaisanoreal@gmail.com</b>

**2. PURPOSE OF INSPECTION**

- ☐ Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modification

	New	Renewal
<input type="checkbox"/> New Renewal		
<input type="checkbox"/> PMPIN Application	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste ID Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste Transporter Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous waste TSD Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Permit to Operate Air Pollution Control Installation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Discharge Permit	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Others _____	<input type="checkbox"/>	<input type="checkbox"/>

- ☒ Determine compliance status with the environmental regulations, permit conditions, and other requirements

- ☐ Investigate community complaints  
☐ Check status of voluntary commitment

\_\_\_\_\_ Industrial Ecowatch  
\_\_\_\_\_ Philippine Environmental Partnership Program (PEPP)  
\_\_\_\_\_ Pollution Adjudication Board (PAB)  
\_\_\_\_\_ Others \_\_\_\_\_

- ☐ Others \_\_\_\_\_

Name of Contact Person	<b>JOSHUA ALFABETE</b>
Position / Designation	<b>MANAGER/PCO</b>

3. COMPLIANCE STATUS

3.1 DENR Permits/Licenses/Clearance

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC1	ECC-OL-R08-2017-0059	08/18/2019	
	ECC2			
	ECC3			
RA 6969	DENR Registry ID	M-GR-R8-37-00482	01/21/2019	
	PCL Compliance Certificate			
	CCO Registry			
	Permit to Transport			
RA 8749	POA No.	PTO-OL-R08-2021-02064-TR	07/04/2021	03/24/2025
RA 9003	ECC for Sanitary Landfill			
RA 9275	DP No.	DP-R08-21-02128	12/04/2021	12/04/2022

4. Water Supply and Wastewater Generation

A. Water Sources

Sources of Water Supply	Daily (m <sup>3</sup> /day)	Annual (m <sup>3</sup> /day)	Specify if Others
Surface water (river, lakes, etc.)			
Groundwater			
Water utilities			
Others (specify)			

B. Wastewater Sources

Water Use / Sources of Wastewater	Consumed (m <sup>3</sup> /day)	Generated (m <sup>3</sup> /day)	Specify if Others
Process Water			Based on recent DP
Domestic Water		6.0	
Cooling Water			
Maintenance		5.0	
Storm drain			
Others (specify)		3.0	

C. Quality of Abstracted Water

Sources of Water Supply	BOD/ COD	TSS	AVFP	Heavy Metals	Specify if Others
Sampling not conducted					

5. Information on Wastewater Pollution

A. Does the Establishment have a Wastewater Treatment Plant?

☒ Yes  
☐ No

B. What type of WWTP?

☒ Physical  
☒ Biological  
☒ Chemical  
☐ Others

C. WWTP Detail

1. Date Installed	June 2012
2. Design Capacity	5 m <sup>3</sup> /day
3. Cost of WWTP	100,000.00 PhP
4. Annual Maintenance Cost (Php/year)	



5. Location of Discharge Point(s)	Receiving Water Body		Classification of Water Body
city sewer	Cancabato Bay		Class SC
	<input type="checkbox"/> V-weir		Other (specify)
6. Flow Metering Device Use	<input type="checkbox"/> Flow Meter		
7. Flow Rate	Influent	Effluent	Others (specify)
<b>A. Components of WWTP</b>			
<b>Primary</b>	<b>Biological</b>	<b>Chemical</b>	<b>Others</b>
<input checked="" type="checkbox"/> Screening	<input type="checkbox"/> Activated Sludge	<input type="checkbox"/> pH Adjustment	
<input checked="" type="checkbox"/> Primary Treatment	<input type="checkbox"/> Anaerobic Digestion	<input checked="" type="checkbox"/> Disinfection <b>Chlorination</b>	
<input type="checkbox"/> Grit Removal	<input type="checkbox"/> Tricking Filter	<input type="checkbox"/> Oxidation/Reduction	
<input type="checkbox"/> Oil/Water Separator	<input type="checkbox"/> Oxidation/Stabilization Pond	<input type="checkbox"/> Flocculation/ Coagulation	
<input type="checkbox"/> Equalization Tank	<input type="checkbox"/> Sequencing Batch Reactor	<input type="checkbox"/> Others (specify) _____	
<input type="checkbox"/> Others (specify)	<input checked="" type="checkbox"/> Others (specify) <b>Advanced</b> <b>Oxidation Process</b>		
<b>B. Condition of the WWTP</b>			
1. What is the general condition of the WWTP during sampling?	<input checked="" type="checkbox"/> Properly maintained <input type="checkbox"/> Inadequately maintained <input type="checkbox"/> Poor maintenance <input type="checkbox"/> Others		
2. Is the WWTP under construction or undergoing rehabilitation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. If the answer is No. 2 is YES, has this been reported to EMB/LLDA?			
4. Which System or units are under construction or being modified?			
5. Estimated date of completion			
6. Treatment units utilized to treat wastewater			

<b>Water Quality Field Date</b>						
<b>Sampling Point No. 1</b>						
Sampling Station	Discharge Outlet			Sampling Time:		
Type of Sample	Effluent					
<b>Result Analysis</b>						
Parameter	Value	Unit	DENR Effluent Standards	Compliant		Remarks
				Yes	No	
TSS	17	mg/L	100	✓		
Fecal Coliform	<16,000	MPN/100 mL	400		✓	

III. SUMMARY OF FINDINGS					
Legal Reference	Compliance Requirements	Compliant			Remarks
		Y	N	N/A	
DAO 2005-10 Rule 13.1	1. Does the establishment pay the required wastewater charge?		✓		No computation of Pollutant Load Base Fee.
DAO 2005-10 Rule 14.1	2. Does the establishment have a Discharge Permit?	✓			DP-R08-21-02128
DAO 2005-10 Rule 14.5	3. Does the establishment pay the required discharge permit fee?	✓			OR. No. 4739288
DAO 2005-10 Rule 14.9	4. Is the permit available and valid?	✓			DP is valid until 12/04/2022



DAO 2005-10 Rule 14.11	5. Do the discharge points correspond to those declared in the discharge permit?	✓			
	6. Is the volume discharged within the allowable volume declared in the discharge permit?	✓			
	7. Is the permit posted in a proper area?	✓			
DAO 2005-10 Rule 14.16	8. Are the SMRs submitted quarterly and on time?		✓		
DAO 1990-35 Section 4-6	9. Are the effluent parameters compliant with the standards in DENR existing effluent standards?		✓		Fecal coliform concentration of effluent exceeded the DENR Standards for Class SC waters. It should be noted that Fecal Coliform is a new significant parameter for industry category.
DAO 1990-35 Section 8	10. Does the establishment comply with the additional requirements stated in DAO 1990-35?	✓			
DAO 1990-35 Section 9	11. Are the pollution control facilities properly and continuously operated?	✓			
DAO 1990-35 Section 10	12. Are the methods of analysis used for effluent samples in accordance with the prescribed methods of the Department?	✓			
Other Requirements	13. Are the copies of water analysis reports available?	✓			
	14. Are the correspondence between the establishment and EMB documented?			✓	
	15. Are the establishment's compliance violations and exceedances documented?			✓	
	16. Are there any pending litigation/PAB cases?			✓	
	17. Are there spill prevention contingency plans?			✓	
	18. Are there spill containment facilities available?			✓	

#### Other Observations:

- The commercial establishment was issued with Environmental Compliance Certificate (ECC-OL-R08-2017-0059) on August 18, 2019.
- Project was in normal operations during the time of monitoring.
- Discharge Permit and Permit to Operate Air are valid.
- The Sewage Treatment Plant (STP) employs Advanced Oxidation Process and Technology for wastewater treatment. STP was operational during the time of monitoring.
- Fecal Coliform concentration of wastewater effluent was >16,000 MPN/100 mL which is beyond the effluent standards for Class SC waters. It should be noted that fecal coliform is a new identified significant parameter for industry category.

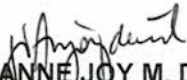
#### Remarks and Recommendation:

- ✓ Implement proper dosing of disinfectant for addressing high fecal coliform concentration. Observe regular maintenance of STP to ensure adequate treatment of wastewater prior its discharge.
- ✓ Schedule effluent sampling for all significant parameters for industry category pursuant to DAO 2016-08.
- ✓ Renew PCO accreditation not later than 07/18/2022 pursuant to DP Condition No. 11.
- ✓ Submit SMR and CMR through the online systems.

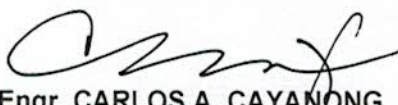
#### List of Documents Reviewed:

Discharge Permit

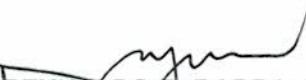
Submitted by:

  
JO ANNE JOY M. DAÑAL  
Senior EMS

Recommending Approval:

  
Engr. CARLOS A. CAYANONG  
Chief, WAQMS

Approval:

  
REYNALDO B. BARRA, PME  
Chief, EMED

Noted:

  
LETECIA R. MACEDA  
Regional Director



# ENVIRONMENTAL MANAGEMENT BUREAU REGION 8

## Certificate of Analysis

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-AMBIENT SECTION

Name/Source:	Gaisano Real (Compliance Monitoring)		
Address/Location:	Tacloban City		
Sampled by:	JA Dañal		
Date Arrived:	March 24, 2021 @ 2:52 pm	Date Acknowledged:	March 24, 2021 @ 2:53 pm
Date Analyzed:	March 24, 2021 @ 3:15 pm	Date Reported:	March 29, 2021 @ 8:12 am

Chain of custody no.	Lab sample no.	Str. No.	Time of Collection	Sample type	Sample Information
2021-079	2108-238	1	March 24, 2021 @ 2:30 pm	effluent	water sample placed in 350-mL sterilized plastic bottle labeled "Gaisano Real"

Room Temperature (°C): 21.7

Relative Humidity (%): 46.1

### CHARACTERISTICS:

Parameters	Sample no.						
	1						
Fecal Coliform, MPN/ 100mL	>16,000						

Method used: Fecal Coliform - Multiple Tube Fermentation Technique

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, AHA, AWWA, WEF

Remarks: This certificate of analysis is based on the sample as received by this office.

Analyzed by:

**REBEKAH V. SUPERALES**  
Microbiology unit analyst

Approved by:

**ENGR. REYNALDO E. BARRA**  
Chief Environmental Monitoring  
and Enforcement Division

Certified by:

**APRILYN B. DAÑAS, RCh**  
Chemist III  
Reg. No. 0011659

Noted by:

**LETECIA R. MACEDA**  
Regional Director

Laboratory Unit  
Telefax: 832-1088  
Email: embr8lab@yahoo.com

Laboratory  
Sampler  
Records Unit





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Sampled by:	JA Dañal		
Date Arrived:	March 24, 2021 @ 2:52 pm	Date Acknowledged:	March 24, 2021 @ 2:53 pm
Date Analyzed:	March 24, 2021 @ 3:00 pm	Date Reported:	March 29, 2021 @ 8:52 am

Chain of custody no.	Lab sample no.	Str. No.	Time of Collection	Sample type	Sample Information
2021-079	2108-238	1	March 24, 2021 @ 2:30 pm	effluent	water sample placed in 500-mL sterilized plastic bottle labeled "Gaisano Real"

Relative humidity: 41.3%

Temperature: 21.8°C

### CHARACTERISTICS:

Parameters	Sample no.					
	1					
BOD, mg/L	450.4					
TSS, mg/L	17					

Method used:

BOD - 5-Day BOD Test

TSS - Gravimetric Method, dried @ 103-105 °C

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, AHA, AWWA, WEF

Remarks: This certificate of analysis is based on the sample as received by this office.

Analyzed by:

ANGELICA JOY S. YU, RCh  
Chemist II  
Reg. No. 0012803

ARIEL B. SEVILLEN, RChT  
Chemical Technician  
Reg. No. 0003055

Approved by:

ENGR. REYNALDO B. BARRA  
Chief Environmental Monitoring  
and Enforcement Division

Certified by:

APRILYN R. DANAS, RCh  
Chemist III  
Reg. No. 0011659

Noted by:

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Regional Director

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