

Guideline No.: EN/042

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Title: Environmental Monitoring Guideline
Issued by: Environment Department

1.0 General

All projects/industrial facilities of within the jurisdiction of Ports, Customs and Free Zone Corporation (PCFC) and Jebel Ali Free Zone Authority (JAFZA) and Dubai World Business Units project developments are required to conduct environmental monitoring. This guideline covers the monitoring compliance of projects with or without approved Environmental Impact Assessment (EIA) Studies.

2.0 Objectives of Monitoring

The primary purpose of monitoring is to ensure judicious implementation of sound environmental management within an organization and its areas of operation. Specifically, it aims to ensure the following:

- Project compliance with the conditions set in the EIA Approval;
- Project compliance with the Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMoP);
- Conformity with all applicable laws, guidelines, rules and requirements;
- Effectiveness of environmental measures on prevention or mitigation of actual project impacts vis-à-vis the predicted impacts used as basis for the EMP design; and
- Continual updating of the EMP for sustained responsiveness to project operations and project impacts.

Monitoring requirements compliance by FZ companies / BU shall be required to be completed prior to the issuance of Operations Fitness Certificates (OFC) – Renewal.

3.0 Client's / Business Unit's Responsibilities

All Clients / Business Units are primary responsible for monitoring their projects.

- EHS Monitoring Report Form which the Client / Business Unit is required to be submitted to EHS – Environment Department on a quarterly basis. The EIA Approval Compliance Report requirement is to report performance against EIA Approval conditions, performance against the EMP and performance against the monitoring or actual impacts (including residual impacts) as against predicted impacts in the EIA Report and as related to current project operations.
- Only Dubai Accreditation Center's (DAC's) accredited third party laboratories shall be allowed to be commissioned by the proponent to conduct samplings and analysis related to monitoring.

4.0 Environmental Permits

4.1 Stack Air Emissions Permit

This permit shall be secured by all companies with emission sources within their facility. Emission sources can be either process, fuel burning or pollution control equipments with release to the atmosphere. Compliance testing of emission sources shall be conducted prior to the issuance of relevant permit. During the permit's validity, periodic or routine compliance testing shall be required to be conducted by the facility on the following schedule:

INDUSTRY / EMISSION SOURCE TYPE	FREQUENCY OF COMPLIANCE TESTING
Combustion Source (based on fuel used)	
%S > 0.05% or 500 ppm	Monthly
%S ≤ 0.05% or 500 ppm	Quarterly
%S ≤ 0.005% or 50 ppm	Annually
Process Source	Quarterly
Volatile Organics Source	Quarterly

All periodic or routine compliance testing shall be reported to EHS based on the frequency of compliance testing required. EIA Compliance and/or EHS Monitoring Report forms shall be used as the reporting document.

Access ladder, sampling port and point shall be made available by the Client. Online analyzers, as required by EHS, shall also be made available by the Client.

4.2 Harbor / Open Water Discharge Permit

This permit shall be secured by all companies with a point of discharge of treated wastewater to the harbor or open waters. Compliance testing of the treated wastewater's quality shall be conducted prior to the issuance of this permit. During the permit's validity, monthly compliance testing shall be required to be conducted by the facility. Online monitoring system for pH, temperature, dissolved oxygen and turbidity shall also be required on a case to case basis. Results of the monthly compliance testing and online monitoring (if required) shall be reported to EHS on a quarterly basis using the EHS Monitoring Report form as the reporting document.

The following parameters shall comprise the online monitoring system: pH, temperature, residual chlorine and turbidity. Above ground flow meter, control valve and sampling point shall be made available by the Client.

4.3 Irrigation Permit

This permit shall be secured by all companies utilizing their treated wastewater as irrigation water. Compliance testing of the treated wastewater's quality shall be conducted prior to the issuance of this permit. During the permit's validity, quarterly compliance testing shall be required to be conducted by the facility. Results of the quarterly compliance testing shall be reported to EHS on a quarterly basis using the EHS Reporting form as the reporting document.

Basic online monitoring for the following parameters shall be required: pH, temperature, residual chlorine and turbidity. Above ground flow meter, control valve and sampling point shall be made available by the Client.

4.4 Groundwater Discharge (Dewatering) Permit

Kindly refer to Dewatering Guidelines (Guideline No. EN-038) for information.

5.0 EIA Approval Compliance

All projects with an approved EIA Study shall submit compliance reports on a quarterly basis for Category A projects and semi-annual basis for Category B projects. The format of the report shall have the following sections and contents:

a. Compliance Monitoring

The status of compliance to the EIA approval conditionalities shall be elaborated in this section. Reasons for noncompliance should be explained and solutions and measures to attain full compliance of EIA approval terms and conditions shall be discussed as renewed efforts for the next monitoring period. All EIA approval conditions shall be listed down in the second column; the third and fourth columns shall be filled-up accordingly.

Summary Status of EIA Approval Compliance			
No.	Relevant EIA Approval Condition	Status of Compliance	Remarks

b. Impact Monitoring

• Summary of Previous Monitoring

The key findings, recommendations and action plan from the previous monitoring and outstanding issues from earlier monitoring reports (if applicable) shall be highlighted in this section.

• Current Monitoring Results and Findings

Compliance, non-compliances and exceedances must all be thoroughly explained. In case of compliances, success factors must be cited. For non-compliances and exceedances, the proponent's response should be explained. Moreover, causative factors must be identified and additional solutions and mitigation measures shall be proposed, if needed. Current monitoring results must be related to the historical trend for each parameter. Any deviation from this trend shall be explained.

• Environmental Management Plan (EMP) Status

Key conclusions about the status of EMP implementation and recommended additional measures or amendments should be discussed and presented in this section.

• Work Plan for Next Monitoring Period

The specific actions for the next monitoring period, including carry-overs from previous monitoring period, shall be detailed in this section.