

CHAPTER 7**ENVIRONMENTAL FOLLOW-UP PROGRAM****CONTENT**

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1 INTRODUCTION

The Environmental Impact Assessment made it possible to identify components of the physical, biotic, human and construction environment, as well as their geographic location. Likewise these components will be directly or indirectly affected throughout the different phases of the project in order to take the adequate measures to mitigate, improve and or compensate these impacts, precisely as they have been presented in previous chapters of this Environmental Impact Survey.

The follow-up program aims to validate the result estimations on environmental impact and the efficiency of measures recommended.

Periodic observation of the different components and processes will allow, through this Program, to identify natural variances or possible irregularities arisen from the different processes developed throughout the Project. Likewise, if the data resulting from the Follow-up Program indicate values (numbers) which correspond to the environmental impact estimations previously defined, it can be concluded that the system is performing according to the expected environmental security standards, formerly described. In contrast, if the follow-up indicates variances, which do not agree with the estimation of results, it is necessary to examine if the causes of these variances correspond to natural processes of the system or represent irregularities occurred during project implementation.

In this sense, the Environmental Follow-up Program allows to make decisions related to environmental impact events, originated during project development.

This chapter is about supplying the technical specifications for the implementation of this program during Project construction and operation.

2. OBJECTIVES

The Environmental Follow-up Program has the following objectives:

- Verify that the basic characteristics and extent of potential environmental impacts correspond to the assessment developed in this study, to environmental standards as well as to confirm that environmental variables evolve according to previous statements.
- Confirm the compliance and efficiency of mitigation measures, improve or restoration and or compensation measures proposed.
- Detect and prevent the occurrence of undesirable accidents or adverse environmental effects.
- Guarantee the fulfillment of legal environmental regulations in force.

3. METHODOLOGY

The Environmental Follow-Up Program will be applied, in general terms, to environmental components, subject to undergo relevant impacts. Each component will have elements assigned to be measured and controlled as well as the corresponding variables to monitor. In each of the cases, if it

corresponds, there will be technical description on equipment and measuring devices to employ and the parameters to describe the condition and evolution of environmental elements. This information will be completed by the identification and clear explanation on the explanation for the sites for the measuring and control, the procedures and methodologies to employ for the operation of equipment and devices, the measuring frequencies and any other relevant aspects. Finally, and according to general conditions, acceptable performance levels will be defined for parameters or variables. These will easily allow the identification of possible irregularities, unintended effects or mistakes when assessing impacts.

The environmental Follow-up Program proposed is as follows:

Chart 7-1: Environmental Follow-Up Program. Mitigation measures, improvement and/or restoration and /or compensation.

PHASE	MPACT/ PARAMETER TO BE MONITORED	CHECKPOINT	METHODOLOYGY	FREQUENCY OF MONITORING & CONTROLS	OFFICIAL AUTHORITY
COMPONENT: Noise					
Construction	IR1: noise generation over recipients close to the Project	A	Noise level calculation according to D.S. N° 146/97	Monthly, during the period when the work team is on site.	Sanitary Authority, Metropolitan Region.
COMPONENT: Geology and Geomorphology					
Construction	No impact associated. Once the construction phase is ended, monitoring will follow, so that the soil will remain in similar or the same conditions as before the project initiation.	Habitat in the surroundings of tower foundations	Visual inspection	It is a unique opportunity, once the construction phase is ended. A written report will be sent to SAG Authorities, describing final inspection results.	SAG, Metropolitan Region
COMPONENT: Flora and Vegetation					
Construction	No impact associated. In case of any relocated individuals, monitoring follows on the individual's phytosanitary, coloring, swelling pressure, and mortality condition.	In the area of individuals relocated, next to their original habitat.	Visual inspection.	On day 1, 6, 12 and 24 /month, after relocation of individuals. A report will be sent to CONAF, showing the result of each monitoring procedure.	CONAF, Metropolitan Region.
COMPONENT: Fauna / Vertebrates					
Construction	IF1: Disturbance of habitat quality. Condition of rescued and relocated species/individuals.	Relocation Sites	Visual inspection	On day 1, 2, and 3 of every month; once the rescue operations and relocation of species have been carried out.	SAG, Metropolitan Region

ETAPA	IMPACTO/ PARÁMETRO A MONITOREAR	PUNTO DE CONTROL	MÉTODO	PERIODICIDAD DE VIGILANCIA	AUTORIDAD FISCALIZADORA
				After the 3 rd monitoring procedure, an evaluation follows together with the Authority to define if it is worth keeping on with the monitoring & controls. A report will be sent, showing the results of all monitoring proceedings.	
COMPONENT: Archaeological & Cultural Heritage					
Construction	No impact associated. There follows a site inspection and analyses of other archeological remains, located underground and not identified during the mapping of the base line.	Foundations construction area.	Visual inspection	Throughout ground movement periods (excavations) associated to the construction of foundations.	National Monuments Council
COMPONENT: Landscape					
Construction	IP1: Disruption of the scenery visual quality	Location identified for the construction of the viewing balcony.	Technical inspection of viewing balcony design. Later follows a visit at construction site to observe final results.	Report showing the design of the viewing balcony, previous to the initiation of project operations. The report should point out environmental and aesthetic criteria to be considered. Report on the results of viewing balcony constructed.	SERNATUR – San José de Maipo Municipality.

Source: Inhouse elaboration