# CHAPTER 9. UPDATED ENVIRONMENTAL MANAGEMENT PLAN

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#### 9 UPDATE TO THE ENVIRONMENTAL MANAGEMENT PLAN

Taking into account the results of compliance assessments and applicable technical standards, it is proposed to update the Management Plan according to the model shown in Table 9-1. It identifies and establishes specific plans, programs and actions or measures for the implementation of the Management Plan, the person responsible for its implementation, compliance indicators, means of verification, and the frequency of its implementation.

The PMA update has also considered:

- To eliminate redundant measures between different plans and/or programs;
- Reduce specific measures that have their own legal regulations (e.g. related to occupational safety and health); It also considers the provisions of Article.435 Environmental Management Plan of the Regulations to the Environmental Organic Code (RCOA), issued on May 21, 2019.
- Update the frequency of the implementation based on the results achieved.
- Extensive application of construction phase measures to all contractors in general
- Includes specific measures to be applied for bulk handling
- There is a Rehabilitation Plan included for affected areas (remediation and/or compensation).
- Optimizing the content of the plan.

With these considerations, the updated of the Environmental Management Plan consists of:

**a) Impact prevention and mitigation plan:** It will include actions aimed at preventing, minimizing and mitigating the environmental impacts that may occur on the operations of the Port Terminal. Specific measures are also proposed for the construction phase, as well as those aimed at the control of operating conditions of machinery and equipment operating inside the Terminal.

**b) Contingency plan:** You will be able to understand the details of the actions, responsibilities and resources to deal with potential incidents and accidents inside the Port Terminal. It will include the definition and allocation of responsibilities for the case of implementation of its different stages, operational cooperation strategies as well as an annual programs for the training and simulations.

A Communication Protocol (see Annex 5 to the Plan) has also been included to allow the communication of alerts and/or risks – for activities carried out in the Terminal and the access channel – for the population in the area of influence of the Terminal; as well as the implementation of a record of consultations, complaints, and requests for information from social and public stakeholders in general. Include follow-up record, resolutions taken, and response to the interested party.

**c) Training Plan:** It will contain a training program on the components and implementation of the environmental management plan (see Table 9-1) to YILPORTECU staff, in line with their roles.

A Communication Protocol has also been developed to allow – prior to the start of works or works that generate impacts (noise, dust, traffic, gases, spills or others) – to inform the community about the activities to be carried out, working hours and restrictions associated with safety issues if any.





#### Table 9-1 Training topics

Area	Topics to develop
Environment	Environmental Regulations
	Environmental Management Plan
	Pollution prevention and mitigation
Hazardous Waste	Hazardous Waste Management
Communication to Third Parties	Measures to mitigate and protection of elements located in the area of direct influence of the project, and commitments and/or measures related to the environmental performance of the company.

**d) Waste Management Plan:** It includes measures for the proper management of (collection, arrival, treatment, final disposal) different residues and wastes generated (common, recyclable and hazardous). This includes the characteristics of the facilities for the classification, storage, treatment and disposal of household and industrial solid waste, as well as the management of hazardous wastes under Ministerial Agreement No. 061, Chapter VI "Integral Management of Non-Hazardous Solid Waste, and Hazardous and/or Special Wastes", Chapter VII "Management of Hazardous Chemicals", Ministerial Agreement No. 026 "Procedures for the Registration of Hazardous Waste Generators, Management of Hazardous Wastes Prior to Environmental Licensing and for the Transport of Hazardous Materials" and Ministerial Agreement No. 142 "National Lists of Hazardous Chemicals, Hazardous and Special Wastes".

**e) Community Relations Plan:** It will consist of a series of specific programs and activities to be developed by YILPORTECU, with the communities and social stakeholders of the areas of influence of the Project – including the mechanisms of information of the activities to be implemented – with the aim of improving environmental and social conditions within the area of influence of the operation of the Port Terminal.

**f) Affected Area Rehabilitation Plan:** It establishes, in the event that the Project generates an impact on the environment, health or property of third parties (recognized by the Administration and/or the Environmental Authority), a protocol of action for the rehabilitation of affected areas (see Annex 3 to this PMA) and, if the affectation is not susceptible of rehabilitation or reparation, a compensation protocol (see Annex 2 to this PMA).

**g) Closing and leaving plan:** It establishes, if the Project Directorate determines its final closure, a Protocol for leaving and Delivery of the Area (see Annex 4 of this PMA), which establishes the steps for the design of the activities to be fulfilled after the end of the operation of YILPORTECU, how to proceed with the leaving and delivery of the area.

**h) Monitoring and Follow-up Plan:** It contains environmental monitoring and monitoring programs of potential environmental impacts on air and water quality, within the project's area of influence. Each program contains the parameters, methodologies and frequencies that allow to characterize air and noise emissions, discharges of water from the Treatment Plant, and the water quality of the Santa Rosa ester at the monitoring points established in the project baseline, in accordance with current environmental regulations (Annexes 1, 4 and 5 of the A.M. 097-A).

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Note that under the new current regulations (RCOA), the Safety and Health Plan is no longer part of the Environmental Management Plan (PMA).





Table 9-2 Model Presenting the Updated Environmental Management Plan.

ENVIRONMENTAL MANAGEMENT PLAN										
Person responsible for Execution:			PLAN NAME			Code: OOO				
Environmental Aspect	Impact identified		Actions	Indicators	Means of verification	Frequency				
000-01 PROGRAM NAME	000-01 PROGRAM NAME									

...





#### Table 9-3 Update of the Environmental Management Plan

			ENVIRONMENTAL MANAG	GEMENT PLAN		
Supervisor:	EHS N	lanager	PREVE	NTION AND MITIGATION P	LAN	РРМ
Environmental Aspect	Impact identified	Plar	n, Programs and Measures	Indicators	Means of verification	Frequency
PPM-01 EMISSION	CONTROL			·		•
Air	Generation of gaseous emissions.	vehicle using the sys place to check that v to date, and to do so	e of notes for the entry and exit of the stem (AVIS), a verification must take vehicles have transit requirements up o, they must have passed the the municipal entity, including its	Not Implemented = 0	Random AVIS report showing vehicles enabled with their respective license plate.	Permanent.
Air	Dust generation	application system, equipment, should b	t roads, an irrigation water using flute tank or similar pe implemented and maintained, nore than 5 km/hour.	Implemented = 1. Not Implemented = 0	Photographic Record. Contract or Work Order.	Permanent.
Air	Dust generation	not stand out from t compartment, and r	terials in trucks or dumpers should the height of the cargo nust be fully covered with protective ction activities are performed.	Implemented = 1. Not Implemented = 0	List of inspection checklist of machinery and vehicles.	Permanent (during construction phase).
Air	Dust generation	materials that may b	nstruction aggregates or other be hauled by wind action must be r or otherwise covered with plastic e.	Implemented = 1. Not Implemented = 0	Photographic Record. Contract or Work Order.	Permanent (during construction phase).
Air	Dust generation	wind action (grains a others) shall have co	Ik products that may be hauled by and cereals, mineral concentrates, ontainment systems, whether textile ration or other applicable according ares.	Implemented = 1. Not Implemented = 0	Photographic Record. Memory of construction of containment systems. Specific procedures (if required).	Permanent (if solid bulks are handled).





			ENVIRONMEN MANAGEMENT I			
Supervisor:	EHS	Manager	PREVE	NTION AND MITIGATION	PLAN	PPM
Environmental Aspect	Impact identified	Plan, F	rograms and Measures	Indicators	Means of verification	Frequency
Air	Dust generation	concentrates, others) k curtain, dust washing k should be implemente	k loads (cereals, grains, mineral parrier system (closed duct, air ny water mist, other applicable) d to prevent the dispersion of dust handling and loading on bulk ships.	Implemented = 1. Not Implemented = 0	Photographic record. Memory of construction of barrier systems. Specific procedures (if required).	Permanent (if solid bulks are handled).
PPM-02 PREV	ENTION OF IMPACTS T	O WATER QUALITY				
Water, social.	Water quality pollution in the Santa Rosa Estuary. Social conflict	the Wastewater Pollution Prevention Certificate (valid during Estuary. the stay at the Terminal) issued by a competent body.		Implemented = 1. Not Implemented = 0	International Wastewater Pollution Prevention Certificate	Once (prior to the start of operations).
		unloading of merchand and cleaning, maintena	ock service activities (loading and lise, fuel, hazardous waste, cleaning ince, others) during periods of strong ents, or other atmospheric conditions.	Implemented = 1. Not Implemented = 0	<ul> <li>Incident report issued by the contractor (includes report of environmental factors).</li> <li>Operations log where the incident is recorded.</li> </ul>	Every time it is required.
		well) in order to ensure complies with the LMP Agreement 097A, Anne and Effluent Discharge	maintenance of the PTAR (IMHOF e that the generated effluent s established in Ministerial ex 1: Environmental Quality Standard to Water Resources, Table 10.A. body of sea water, Discharges in	Implemented = 1. Not Implemented = 0	Technical report on the maintenance work of the PTAR	Annually (or whenever required).





ENVIRONMENTAL MANAGEMENT PLAN									
Supervisor:	EHS	Manager	PREVE	NTION AND MITIGATION	PLAN	РРМ			
Environmental Aspect	Impact identified	Plan, F	Programs and Measures	Indicators	Means of verification	Frequency			
		season (December - M system must be cleane	winter season and during this ay), the rainwater conduction d in order to avoid its clogging or the d / or pollutants accumulated in it.	Implemented = 1. Not Implemented = 0	Photographic Record. Work order	Annually (or whenever required).			
		generation of dusts in generated effluent mu	dration systems as a barrier for the storage and transport of bulk, the st be characterized and managed s: sent to the PTAR or as hazardous	Implemented = 1. Not Implemented = 0	Photographic Record. Work order	Annually (or whenever required).			
PPM-03 HYDR	OCARBON MANAGEN	IENT PROGRAM			·				
Water and biotic.	Water quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	loading station, and of	has its respective fuel and lubricant other chemical products, duly e containment buckets and an anti-	Implemented = 1. Not Implemented = 0	Report YECU-EHS-12- 123_Work Permit Sea Fuel_V1	Once (prior to the start of operations).			
Social and economic.	Water quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	have a work permit: - if it is by tanker, the c Work Permit at Sea wil	operations, the service provider must urrent format for the Fuel Loading l be used; current High Risk Work Permit	Implemented = 1. Not Implemented = 0	Forms of High Risk Work Permit and Work Permit for Loading Fuels at Sea.	Every time it is required.			





	ENVIRONMENTAL MANAGEMENT PLAN									
Supervisor:	EHS	Manager	PREVE	NTION AND MITIGATION F	PLAN	РРМ				
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency				
Soil and water.	Water and soil quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	hydrocarbon storage pr what is established in t NTE INEN 2251: 2013 F TRANSPORTATION ANE AT "LIQUID" FUEL DIST Handling and storage o ENVIRONMENTAL REGU ACTIVITIES (Executive E	RIBUTION CENTERS, and Art. 25 f crude oil and / or fuels, of the JLATION OF HYDROCARBON Decree 1215, Official Registry 265 of ification: 29-Sep-2010), literal f; as	Implemented = 1. Not Implemented = 0	Technical construction report.	Once (prior to the start of operations).				
Soil and water.	Water and soil quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.		e ure	Implemented = 1. Not Implemented = 0	Supplier Qualification - YILPORTECU SA	Once (prior to the start of operations).				





			ENVIRONMEN MANAGEMENT			
Supervisor:	EHS	Manager	PREVE	NTION AND MITIGATION	PLAN	РРМ
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency
Soil and water.	Water and soil quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	activities must be carridesignated for this pur conditioned according	ery and / or equipment maintenance ed out specifically in the areas pose, and which must be to what is established in the INEN 2266 Transport, storage and materials.	Implemented = 1. Not Implemented = 0	Safety Inspection Reports.	
PPM-04 CIVIL	WORKS INSPECTION P	ROGRAM				
Water, air, soil, social, biotic.	Air pollution and impact on the water and soil quality in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	execution of major civi includes the environme must report the execut PMA applicable to the measures will be estab project and will be inclu the work and the inspe For minor works (adjust	stments and / or extensions to ucture), Yilport will be in charge	Implemented = 1. Not Implemented = 0	Audit reports	Monthly during the execution of works.
	RACTOR FOLLOW-UP F	1			I	1
Water, air, soil, social, biotic.	Impact on the quality of water and soil.	compliance to sub-con - Updated envir (compliance w	Audit of technical and legal tractors which will include: conmental regularization with obligations such as Annually Naste generator registry	Implemented = 1. Not Implemented = 0	Subcontractor audit reports, format YECU-EHS- 15-001)	Monthly during the implementation of the works.





	ENVIRONMENTAL MANAGEMENT PLAN								
Supervisor: EHS Manager			PREV	PREVENTION AND MITIGATION PLAN					
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency			
		Hazardous Wa applies). - Training and e environment i	ste, Annually Declaration of Iste, and another that valuation records on ssues (at least, on the topics nex 1 of this plan).						

	ENVIRONMENTAL MANAGEMENT PLAN										
Supervisor:	EHS N	EHS Manager WASTE MANAGEMENT PLAN									
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency					
PMD-01 COM	MON AND MISCELLAN	EOUS WASTE MANAGEN	IENT PROGRAM								
Soil, water, landscape, social.	Alteration of the quality of water and soil. Landscape transformation. Social conflict	from the seabed during the maneuvering area dislodged and placed o identification, classifica according to current re	d / or dangerous) that are removed cleaning and / or maintenance of in front of docks), must be n land for their respective tion, and adequate management gulations; taking the necessary suspected that it contains	Implemented = 1. Not Implemented = 0	Updated hazardous and special waste log.	Every time it is required.					





	ENVIRONMENTAL MANAGEMENT PLAN									
Supervisor:	EHS	Manager	w	ASTE MANAGEMENT PLA	N	Cod: PMD				
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency				
			ance of the Common Waste cordance with the Technical 841: 2014-03.	Implemented = 1. Not Implemented = 0	Photographic record and technical memory of its construction.	One time.				
		recyclable) produced w	mmon waste (recyclable and non- rill be collected and classified ions of standard NTE INEN 2841:	Implemented = 1. Not Implemented = 0	Photographic Record.	Permanent.				
PMD-02 HAZA	RDOUS AND SPECIAL	WASTE MANAGEMENT	PROGRAM		·					
Soil, water, landscape, social.	Alteration of the quality of water and soil. Landscape transformation. Social conflict	within the Port Termin with the obligations rel Generator Registry (RG - Waste Minimization F	lan (until January 10 of each year) when required by the	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.				
			the file of the Unique Manifest and ion of hazardous waste.	Implemented = 1. Not Implemented = 0	Documentary Record.	Permanent.				
		Implement and update Generation Log.	the Hazardous and Special Waste	Implemented = 1. Not Implemented = 0	Documentary Record.	Permanent.				





ENVIRONMENTAL MANAGEMENT PLAN								
Supervisor:	EHS	Manager	w	ASTE MANAGEMENT PLA	N	Cod: PMD		
Environmental Aspect	identified (	Plan, Programs and Measures		Indicators	Means of verification	Frequency		
		Center in accordance v of the places for the st	zardous and Special Waste Collection with the provisions of AM 061, Art. 93 orage of hazardous waste, and EN 2266 and INEN 2841.		One time.			
		points in generation ar	waste classification and collection reas, work fronts and / or other areas oviders within the Port Terminal, as N 2266 and INEN 2841.	Implemented = 1. Not Implemented = 0	Photographic Record.	Permanent (during construction phase).		
		those generated by oth	Ils from the basic work (rubble) or her structures (if any) will be placed proved by the municipality, or lests for landfills.	Implemented = 1. Not Implemented = 0	Photographic record and mobilization record.	Permanent (during construction phase).		





			ENVIRONMEN MANAGEMENT			
Supervisor:	HR M	lanager		TRAINING PLAN		Cod: PCC
Environmental Aspect	Impact identified	Plan, Programs and Measures		Indicators	Means of verification	Frequency
PCC-01 TRAINI	NG PROGRAM	·				
economic. di pl	Occupational risks due to ignorance of plans and procedures.	Update and implement the Training Plan for employees (according to their skills) the basic topics established in Annex 1 of this PMA.		Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.
	Impact on Health and Safety of workers.	Implement and maintain frequent and short-term talks, emphasizing conflictive topics, as a positive reinforcement of the Training Plan.		Implemented = 1. Not Implemented = 0	Training attendance record.	Monthly.
		Include the environme Induction Plans for nev	ntal commitments of this PMA in the v personnel.	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.
PCC-02 COMM	UNICATION PROGRAM	И				





	ENVIRONMENTAL MANAGEMENT PLAN							
Supervisor:	HR Manager TRAI			TRAINING PLAN		Cod: PCC		
Environmental Aspect	Impact identified	Plan, P	Plan, Programs and Measures		Means of verification	Frequency		
Social and economic.	Impact on the Health and Safety of the users of the estuary and of the general population.	(noise, dust, traffic, gas Communication Protoc out, work hours and re	rks or tasks that generate impacts ses, spills or others), apply the col and report: activities to be carried strictions associated with safety east 1 week in advance of the start of	Implemented = 1. Not Implemented = 0	Documentary Record.	Permanent.		

	ENVIRONMENTAL MANAGEMENT PLAN						
Supervisor:	EHS N	lanager	COMMUNITY RELATIONS PLAN			Cod: PRC	
Environmental Aspect	Impact identified	Plan, P	Plan, Programs and Measures		Means of verification	Frequency	
PRC-01 COMM	RC-01 COMMUNITY RELATIONS PROGRAM						





Social.	Social conflict Synergy between the company and the community where the Project is developed.	<ul> <li>Implement a Communication Protocol (see Annex 5) that allows:</li> <li>Communication of alerts and / or risks (due to activities carried out in the Terminal and the access channel) for the population in the area of influence of the Terminal.</li> <li>Keep a record of inquiries, complaints, and requests for information. Include follow-up record, resolutions taken, and response to the interested party.</li> </ul>	Implemented = 1. Not Implemented = 0	Communications records and its monitoring.	Permanent.
		Carry out and / or participate in information and / or training events for the community, on the prevention of environmental pollution, company-specific initiatives (involving the community), and contingency plans.	Implemented = 1. Not Implemented = 0	Reports of events carried out, must include results achieved (scope and impact).	Annually.
		Carry out and / or participate in community involvement or work events, on the prevention of environmental pollution, of the company's own initiatives and developed together with the community).	Implemented = 1. Not Implemented = 0	Reports of events carried out, must include results achieved (scope and impact).	Annually.





			ENVIRONMEN MANAGEMENT			
Supervisor:	EHS	Vanager		CONTINGENCY PLAN		Cod: PEC
Environmental Aspect	Impact identified	Plan, Programs and Measures		Indicators	Means of verification	Frequency
PEC-01 EMERG	SENCY RESPONSE PRO	GRAM				
Water, air, soil, biotic, social and economic.Effects on environmental aspects.Review and / or update of the Contingency Plan that includes: - Collisions between ships - Hydrocarbon and chemical spill - Natural Events 		ips mical spill ting and dissemination of the	Implemented = 1. Not Implemented = 0 Implemented = 1.	Documentary Record. Documentary Record.	Semiannually (or every time there is a change in the work methodology or Infrastructure Semiannually (or	
		-	n of Emergency Drills of:	Not Implemented = 0	Documentary Record.	every time there is a change in the work methodology or infrastructure). Annually.
		<ul> <li>Hydrocarbon and che</li> <li>Natural Events</li> <li>Fire and explosion</li> </ul>		Not Implemented = 0		
		Repowering and maint hydrostatic tests).	enance of wet fire network (includes	Implemented = 1. Not Implemented = 0	Documentary Record.	Every time it is required.
		•	aintenance of fire extinguishers and stem (lighting, signage, others).	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.





	ENVIRONMENTAL MANAGEMENT PLAN								
Supervisor:	EHS	Manager	MONI	TORING AND FOLLOW UP	PLAN	Cod: PMS			
Environmental Aspect	Impact Plan, Programs and Measures		Indicators	Means of verification	Frequency				
PMS-01 ENVIR	ONMENTAL AIR QUA	LITY CONTROL PROGRAM	Λ						
Air	Effects on air quality.	point: Point 1. Piers APPB (61 Sampling and analysis i accredited before the S	uality monitoring at the monitoring 0951, 9639819). must be carried out by laboratories GAE and following the methodology of Annex 4 of Book VI of TULSMA	Implemented = 1. Not Implemented = 0	Results report	Six-month course.			
Air	Effects on air quality.	quality monitoring mus point outside the work methodology establish	When there are construction work fronts, ambient air quality monitoring must be carried out at an established point outside the work perimeter, following the methodology established in Table 2 of Annex 4 of Book VI of TULSMA (AM 097 - A ).		Results report	Quarterly (during the execution of works).			
Noise and vibrations	Elevation of sound pressure levels.	influence of the Project Point 1. Pier # 1 (61094 Point 2. Pier # 5 (61101 Point 3. Exterior Port T Puerto Bolívar Cabotag The monitoring must b Accredited by the SAE, following the monitorin section 5	of TULSMA (AM 097 - A ). Carry out ambient noise monitoring in the area of direct influence of the Project. The monitoring points are: Point 1. Pier # 1 (610941, 9639369). Point 2. Pier # 5 (611014, 9640135) Point 3. Exterior Port Terminal (611528, 9639360). Point 4. Puerto Bolívar Cabotage Pier (610892, 9639050). The monitoring must be carried out by a Laboratory Accredited by the SAE, with calibrated equipment and following the monitoring methodology established in		Results report	Six-month course.			





			ENVIRONMEN MANAGEMENT			
Supervisor:	EHS N	Nanager	MONIT	ORING AND FOLLOW UP	PLAN	Cod: PMS
Environmental Aspect	Impact identified	Plan, F	Programs and Measures	Indicators	Means of verification	Frequency
Noise and vibrations	Elevation of sound pressure levels.	monitoring must be ca established outside the	of construction works, noise rried out in at least one point e work perimeter, following the gy established in section 5 of Annex 5 (AM 097 - TO).	Implemented = 1. Not Implemented = 0	Results report	Quarterly (during the execution of works).
PMS-02 WATE	R RESOURCE ENVIRON	IMENTAL QUALITY CON	TROL PROGRAM			
Water, biotic, economic and social.	Effects on water quality. Effects on marine flora and fauna. Social conflict	established in the envii them according to Tabl the preservation of aqu estuarine waters, from 097 - A). The monitoring points Point 1. Versus APPB (6 Point 2. In front of Lice The parameters to mon Chromium, Copper, Iro Detergent Surfactants, Demand, Chemical Oxy Hydrocarbons, Dissolve Suspended Solids, Orga Sampling and analysis accredited by the SAE, of the technical standa			Results report	Six-month course





	ENVIRONMENTAL MANAGEMENT PLAN							
Supervisor:	EHS N	/Janager	MONIT	ORING AND FOLLOW UP	PLAN	Cod: PMS		
Environmental Aspect	Impact identified	Plan, F	Programs and Measures	Indicators	Means of verification	Frequency		
		samples, and NTE INEN sampling, sampling tec	l 2176: 98. Water: Water quality, hniques.					
Water, biotic, economic and social.	Effects on water quality. Effects on marine flora and fauna. Social conflict	the PTAR and at the po Monitoring should be of following parameters: dissolved oxygen, satur matter, total suspende oils and fats, DBO, DQO fecal coliforms. The res what is established in M Annex 1: Environmenta Discharge to Water Res discharge to a body of zones. Sampling and analysis accredited by the SAE, of the technical standa quality, sampling, hand and NTE INEN 2176: 98 sampling, sampling tec		Implemented = 1. Not Implemented = 0	Results report	Six-month course.		
PMS-05 MONI	TORING RESULTS RECO	ORD PROGRAM						





	ENVIRONMENTAL MANAGEMENT PLAN							
Supervisor:	pervisor: EHS Manager MONITORING AND FOLLOW UP PLAN					Cod: PMS		
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency		
Water, air, soil, biotic, social and economic.	Effects on the quality of environmental components.	the parameters evaluat quality, noise, water qu	Establish and update a system for recording the results of I the parameters evaluated in the monitoring carried out (air quality, noise, water quality and sediments), which allows observing its evolution over time for analysis and decision- making.		Historical record of monitoring results.	Permanent.		

	ENVIRONMENTAL MANAGEMENT PLAN							
Supervisor:	Genera	l Manager	AREA	CLOSURE AND DELIVERY F	PLAN	Cod: PAE		
Environmental Aspect	Impact identified	Plan, P	Plan, Programs and Measures		Means of verification	Frequency		
PAE-01 CLOSIN	IG PROGRAM, LEAVIN	G AND DELIVERY OF THI	E AREA		•			
economic and landscape,	quality of the soil and landscape, and the valuation	definitive closure, the F	roject Management determines its Protocol for Leaving and Delivery of emented (see Annex 4 of this PMA).	Implemented = 1. Not Implemented = 0	Declaration of initiation of the Leaving plan by the Project Administration.			
of private property. Social conflict		Implement and keep updated the Execution Record of the Protocol for the Leaving and Delivery of the Area.		Implemented = 1. Not Implemented = 0	Leaving plan execution report, includes evidence.	Whenever required		





	ENVIRONMENTAL MANAGEMENT PLAN							
Supervisor:	Genera	l Manager	REHABILITAT	ION PLAN OF AFFECTED	AREAS	Cod: PRA		
Environmental Aspect	Impact identified	Plan, P	rograms and Measures	Indicators	Means of verification	Frequency		
PRA-01 REHAE	<b>BILITATION PROGRAM</b>	OF AFFECTED AREAS			-			
Water, air, soil, economic and social.	Effects on the quality of environmental components and public or private property.	or property of third par Administration and / or	the Environmental Authority), the litation of affected areas must be	Implemented = 1. Not Implemented = 0	Declaration of beginning of Rehabilitation of Areas Affected by the Project Administration.	Whenever required		
		impact on the environ parties (recognized by Environmental Authori	peration of the Project generates an nent, health or property of third the Administration and / or the ty), which is not susceptible to r, the Compensation Protocol must be of this PMA).	Implemented = 1. Not Implemented = 0	Reports on the execution of the Compensation Protocol with evidence of the case.	Whenever required		
			the Registry of events that require protocol for the rehabilitation of apensation.	Implemented = 1. Not Implemented = 0	Execution report of the Area Rehabilitation Protocol, includes evidence.	Permanent.		





#### 9.1 ANNEXES TO THE ENVIRONMENTAL MANAGEMENT PLAN

#### 9.1.1 Annex 1. Base training syllabus

Agenda	Topics to be developed
Environment	Applicable environmental regulations
	Environmental Management Plan
	Pollution prevention and mitigation
Hazardous waste	Hazardous and Special Waste Management
Communication to third parties	Mitigation and protection measures for sensitive elements located in the direct area of influence of the project, and commitments and / or measures related to the environmental performance of the company.





#### 9.1.2 Annex 2. Compensation and indemnity protocol

In the event that the operation of the Project generates an impact on the environment, health or property of third parties (recognized by the Administration and / or the Environmental Authority), which is not susceptible to Rehabilitation or repair, the Compensation Protocol must be executed (see Annex 2 of this PMA).

i. Evaluate the damage or affectation, through a mechanism coordinated with the affected party and / or the Environmental Authority, which may consist of: technical visits to the affected area, identification of those affected, hiring an evaluating expert, economic valuation of the damage.

ii. If the responsibility of the company is established, the repair or compensation to be carried out will be scheduled, depending on the case. Deadlines and mechanisms approved by the Competent Environmental Authority will be established.

iii. Once the compensation or repair has been made, delivery certificates must be drawn up, with the signatures of those affected, the Environmental Authority and the promoter of the project.

iv. A report of the actions carried out will be sent to the Environmental Authority, as the manner of verifying the actions taken.





#### 9.1.3 Annex 3. Protocol for the rehabilitation of affected areas

In the event that the Project affects the environment, health or property of third parties (recognized by the Administration and / or the Environmental Authority), the Protocol for the rehabilitation of affected areas must be executed:

SITUATION	ACTIONS
Fire:	<ul> <li>With the support of the fire department and experts: <ol> <li>Review the infrastructure and determine if it is safe to enter.</li> <li>Carry out the cleaning of the place, considering: <ul> <li>Wear full personal protective equipment (overalls, gloves, goggles, boots and a mask).</li> <li>Avoid the lifting and dispersion of ashes. If vacuum cleaners are used, they should have filters for small particles. Collect the ash in bags.</li> <li>Materials and / or elements (machinery or equipment, others) contaminated with dangerous substances must be disposed of with environmental managers.</li> <li>Other items can be taken to the landfill.</li> </ul> </li> </ol></li></ul>
Spill:	Do not dilute the spill. i. Stop, collect and clean with absorbent material. ii. Replace contaminated soil with clean soil. iii. Contaminated soil and impregnated collection implements will be disposed of as hazardous waste.
Collapse:	<ul> <li>i. Review the infrastructure and determine if it is safe to enter.</li> <li>ii. In case of determining structural risks, a technical study must be contracted to establish the actions to be followed, including: reinforcement of structures or its definitive demolition.</li> </ul>
Demolition	<ul> <li>i. Implement dust control and debris removal techniques (moistening and / or confinement of the area.)</li> <li>ii. Dispose of the rubble in the place allowed by the local Municipality within the sanitary landfill.</li> <li>iii. Clean up off-site areas that have been affected by the landslide.</li> </ul>
Leaving facilities:	Apply the Plan for revegetation and restoration of habitat in the directly affected areas whose natural alteration has been as a result of the project activities.





#### 9.1.4 Annex 4. Protocol to leave and handover the area

Once the Project management has established the end of its life cycle, it must:

i. Establish a schedule for the dismantling of the facilities, considering:

- The equipment and machinery used in the productive activity must be uninstalled and removed, the obsolete equipment will be used for recycling or scrapping.

- Dismantle the infrastructure trying to minimize damage to elements that can be reused.

- Compacted soils must be removed.

- The soil must be improved with a contribution of organic matter to allow the growth of vegetation.

ii. Undertake a revegetation program, the purpose of which is to restore the cover of the affected area. Reforestation will take place with natural species from the area.

iii. Carry out water and soil analysis in places where activities that could be the cause of contamination were carried out, such as in fuel storage and waste disposal areas, in order to identify possible contaminated areas.

iv. If contamination is found, the corresponding corrective measures will be taken and comply with the applicable environmental legislation.





## 9.1.5 Annex 5. Protocol for managing communications and conflicts with communities and social stakeholders

The Reception of the administrative building of the Port Terminal is determined as the point of reception and dispatch of Yilport communications.

i. Any communication that is received will be recorded in a follow-up file containing the name of the issuer, the document number and the date of receipt, as well as the issuer's telephone and email contact.

ii. The person in charge of the Reception will classify the communications in order to refer (with digital copy) to the pertinent area (industrial security, management, legal, others) always with a copy to the General Manager and Legal department.

iii. A physical and digital archive of all communication is established - either a claim or complaint, request for information and / or meeting, or of another nature that is received from social stakeholders, representatives of unions and / or communities in the area of influence of the project.

iv. A period of 30 business days is established to issue an official response on behalf of Yilport, after approval of the document by the General Manager and / or the Legal department.

v. Prior to issuing the response, the HSE Manager will request a working meeting with the Legal department, General Management, and the environmental advisor, in order to discuss the scope and implications of the statement. Depending on the type and scope of the claim or complaint, the Compensation and Indemnity Protocol, the Rehabilitation Protocol for affected areas, may be activated. In this meeting, the route of action will be defined to propose a solution, or the writing of the response communiqué. In the event that one of the aforementioned protocols is activated, the decision and steps to follow established in the respective protocol will be communicated to the issuer.

vi. This response will be sent via email, and notified by telephone for its withdrawal, in printed version at the Yilport offices.

vii. This response will be sent via email, and notified by telephone for its withdrawal, in printed version at the Yilport offices.

viii. The response document issued by Yilport will be recorded in the Follow-up Record where the date of issue is recorded. The delivery of the printed copy will be recorded in the Follow-up Sheet (i).





## 9.2 ESTIMATED SCHEDULE OF THE UPDATED ENVIRONMENTAL MANAGEMENT PLAN

Below you will find a table that (see Table 9-3) describes the execution schedule of the plans, programs and measures established in the PMA, updated for the first year as of the date of entry of this report.

To identify the timing of the application of the plans and programs, the following symbols have been used:

Punctual or permanent execution If the execution depends on the start date and duration of the project and / or if it is required under specific conditions (e.g. remediation plan)

The total value of the updated PMA has been estimated at one hundred thirty-seven thousand six hundred US dollars (00/100). For this assessment, costs associated with construction projects that are considered part of its budget have not been considered.





#### Table 9-4 Estimated schedule of the updated Environmental Management Plan

	ANNUAL SCHEDULE											ANNUAL COST		
ENVIRONMENTAL MANAGEMENT PLAN	Year 2019							Year 2020					ESTIMATED (US	
Plans and programs:	Jun	un Jul	l Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	dollars)	
PREVENTION AND MITIGATION PLAN	PPM													
PPM-01 EMISSION CONTROL														42,000.0
PPM-02 PREVENTION OF IMPACTS TO WATER QUALITY														8,000.0
PPM-03 HYDROCARBON MANAGEMENT PROGRAM														2,500.0
PPM-04 CIVIL WORKS INSPECTION PROGRAM														12,000.0
WASTE MANAGEMENT PLAN	PMD													
PMD-01 COMMON AND MISCELLANEOUS WASTE MANAGEMENT PROGRAM														6,500.0
PMD-02 HAZARDOUS AND SPECIAL WASTE MANAGEMENT PROGRAM														9,000.0
TRAINING PLAN	PCC													
PCC-01 TRAINING PROGRAM														6,000.0
PCC-02 COMMUNICATION PROGRAM														1,200.0
COMMUNITY RELATIONS PLAN	PRC													
PRC-01 COMMUNITY RELATIONS PROGRAM														2,000.0
CONTINGENCY PLAN	PEC													
PEC-01 EMERGENCY RESPONSE PROGRAM														12,500.0
MONITORING AND FOLLOW UP PLAN	PMS													
PMS-01 ENVIRONMENTAL AIR QUALITY CONTROL PROGRAM														3,200.0
PMS-02 WATER RESOURCE ENVIRONMENTAL QUALITY CONTROL PROGRAM														6,500.0
PMS-05 MONITORING RESULTS RECORD PROGRAM														1,200.0
AREA CLOSURE AND DELIVERY PLAN	PAE													
PAE-01 CLOSING PROGRAM, LEAVING AND DELIVERY OF THE AREA											1	1		25,000.0
REHABILITATION PLAN OF AFFECTED AREAS	PRA													
PRA-01 REHABILITATION PROGRAM OF AFFECTED AREAS														
												тс	TAL:	137,600.0

# CHAPTER 9. UPDATE OF THE ENVIRONMENTAL MANAGEMENT PLAN

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ENVIRONMENTAL COMPLIANCE AUDIT OF THE DREDGING PROJECT OF PIERS 1, 2, 3, 4, 5, 6, THE MANNEUVERING AREA, AND THE ACCESS CANAL OF PUERTO BOLÍVAR, -DECEMBER 2017-2018







#### 9 UPDATE TO THE ENVIRONMENTAL MANAGEMENT PLAN

Taking into account the results of compliance assessments and applicable technical standards, it is proposed to update the Management Plan according to the model shown in Table 9-1. It identifies and establishes specific plans, programs and actions or measures for the implementation of the Management Plan, the person responsible for its implementation, compliance indicators, means of verification, and the frequency of its implementation.

The PMA update has also considered:

- To eliminate redundant measures between different plans and/or programs;
- Update or eliminate the measures associated with the use of sediment pools, and align them with the methodological changes established in Chapter V;
- Update measures that have been identified as not technically and / or economically viable, in order to adopt a viable alternative for the Project promoter;
- Reduce specific measures that have their own legal regulations (e.g. related to health and safety at work);
- Update the frequency of the implementation based on the results achieved.
- Optimizing the content of the plan.

Table 9-1 Presentation Model of the Updated Environmental Management Plan.

ENVIRONMENTAL MANAGEMENT PLAN										
Person res	Person responsible for Execution: PLAN NAME									
Environmental Aspect	Impact identified		Actions	Indicators	Means of verification	Frequency				
000-01 PROGRAM NAME										

...



ENVIRONMENTAL COMPLIANCE AUDIT OF THE DREDGING PROJECT OF PIERS 1, 2, 3, 4, 5, 6, THE MANNEUVERING AREA, AND THE ACCESS CANAL OF PUERTO BOLÍVAR, -DECEMBER 2017-2018



#### Table 9-2 Update of the Environmental Management Plan

			ENVIRONMEN MANAGEMENT			
Person respo for Execution		anager	PREVE	РРМ		
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency
PPM-01 CONT	ROL OF NOISE, VIBRATIO	NS AND GASEOUS E	MISSIONS			
Air	Generation of noise, vibrations and gaseous emissions.	timely manner its I Maintenance Plan	tractor company executes in a Preventive and Predictive for its dredge vessels, with wer generation and motor system.	Implemented = 1. Not Implemented = 0	Report of maintenance performed as well as routine maintenance records.	Monthly (during dredging activities).
PPM-02 PREVE	ENTION OF IMPACTS TO V	VATER QUALITY				
		ewater Pollution Prevention uring the dredging phase in	Implemented = 1. Not Implemented = 0	International Wastewater Pollution Prevention Certificate	Once (prior to the start of operations).	
		sediment dumping	nd dredging operations (including :) during periods of strong winds, s, or other atmospheric conditions.	Implemented = 1. Not Implemented = 0	<ul> <li>Incident report issued by the contractor (includes report of environmental factors).</li> <li>Operations log where the incident is reported.</li> </ul>	Every time it is required.





ENVIRONMENTAL MANAGEMENT PLAN								
Person Responsible     PREVENTION AND MITIGATION PLAN       for Execution:     HSQE Manager								
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency		
Water Water quality and pollution in the biotic. Santa Rosa Estuary. Effects on the flora and fauna of the estuary.		Verify that each vessel has its respective fuel and lubricant loading station, and of other chemical products, duly marked, with adequate containment buckets and an anti-spill kit.		Implemented = 1. Not Implemented = 0	Visual inspection report carried out by the Inspector.	Once (prior to the start of operations).		
Social and economic.	Water quality pollution in the Santa Rosa Estuary. Effects on the flora and fauna of the estuary.	dredger vessels fro - Registration of th - Environmental re - Fuel loading proc - Spill Attention Pro - Verify that the su	Verify that the fuel supplier (s) that can supply the dredger vessels from the terminal has: - Registration of the Sub-secretariat of Ports. - Environmental regularization in force. - Fuel loading procedure - Spill Attention Procedure - Verify that the supply vessel has the necessary implements for the safe supply of fuel and the attention of spills.		YILPORTECU SA Rating	Once (prior to the start of operations).		
PPM-04 TECHN	IICAL CONTROL PROGR	AM FOR DREDGING			-			
Social and economic.	Social conflict	execution, by hiring evaluates compliar	spection of the dredging g an independent company that nee with the technical e Project and compliance with the al regulations.	Implemented = 1. Not Implemented = 0	Work execution inspection report	Monthly (during the execution of dredging activities).		
PPM-05 IMPAG	CT PREVENTION PROGRA	applicable technica	al regulations.					





	ENVIRONMENTAL MANAGEMENT PLAN							
Person respon For Execution		lanager	PREVE	PREVENTION AND MITIGATION PLAN				
Environmental Aspect	Impact identified	Plan,	Plan, Programs and Measures         The deposit will not be made in the high seas area in the months of June to October or the one defined by the competent Authority as transit of humpback whales (Megaptera novaeangliae).		Means of verification	Frequency		
Biotic component.	Effects on marine fauna.	the months of June by the competent			Work Schedule Notification of suspension of operations to the MAE.	Once in the required period.		
		marine animals aff dredge-ships, if thi included for each o executed. This rep Location, species, j animal, observatio	ohotographic record, state of the ns (quantity, context, others), r, entity that receives the specimen,	Implemented = 1. Not Implemented = 0	Plan application report with evidence.	Every time it is required.		





	ENVIRONMENTAL MANAGEMENT PLAN								
Person respon	sible for Execution: HSQE Manager		W	ASTE MANAGEMENT PLA	N	Cod: PMD			
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency			
PMD-01 COMMON AND MISCELLANEOUS WASTE MANAGEMENT PROGRAM									
landscape, social.quality of water and soil.removed from the seabed, must be dislodged and placed on land for their respective identification, classification, and proper management according to current regulations; taking the necessary precautions in case it is suspected that it contains hazardous materials.Imple				Implemented = 1. Not Implemented = 0	Updated hazardous and special waste log.	Every time it is required.			
		according to the N INEN 2841:2014-03 The management of non-recyclable) pro-	TE Technical Regulations	Implemented = 1. Not Implemented = 0 Implemented = 1. Not Implemented = 0	Photographic record and technical memory of its construction. Photographic Record. Signage purchase invoices.	One time. Permanent.			
PMD-02 HAZA	RDOUS AND SPECIAL WA	STE MANAGEMENT	PROGRAM						
Soil, water, landscape, social.	Alteration of the quality of water and soil. Landscape transformation. Social conflict	the Hazardous Wa - Waste Minimizati - Annually Declarat year)	GDP when required by the uthority.	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.			





	ENVIRONMENTAL MANAGEMENT PLAN							
Person respons	i <b>ble for Execution:</b> HSQE Manager		WA	ASTE MANAGEMENT PLAI	N	Cod: PMD		
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency		
			date the Hazardous and Special Log and Unique Manifesto for its	Implemented = 1. Not Implemented = 0	Documentary Record.	Permanent.		
		Collection Center i of AM 061, Art. 93	e Hazardous and Special Waste n accordance with the provisions of the places for the storage of and technical standards INEN 2266	Implemented = 1. Not Implemented = 0	Photographic record and technical memory of its construction.	One time.		

			ENVIRONMEN MANAGEMENT I			
Person respon	Person responsible for Execution: HSQE Manager COMMUNICATION AND TRAINING PLAN					Cod: PCC
Environmental Aspect	Impact identified	Plan,	Plan, Programs and Measures		Means of verification	Frequency
PCC-01 TRAINI	NG PROGRAM					
Social and economic.	Occupational risks due to ignorance of plans and procedures.		ement in the Training Plan for ing to their skills) the basic topics ex 1 of this PMA.		Documentary Record.	Annually.





			ENVIRONMEN MANAGEMENT I			
Person respons	<b>ible for Execution:</b> HSQE Manager		COMMUN	COMMUNICATION AND TRAINING PLAN		
invironmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency
	procedures. Impact on the Health and Safety of workers.		intain frequent and short-term conflictive topics, as a positive he Training Plan.	Implemented = 1. Not Implemented = 0	Training attendance record.	Quarterly.
			nmental commitments of this PMA ans for new personnel.	Implemented = 1. Not Implemented = 0	Documentary Record.	Every time it is required.
Social and Social and	Impact on Health and Safety of the users of the estuary and of the general population.	with jurisdiction in Channel (area to be about the activities	f dredging activities, public entities the Santa Rosa Estuary Access e dredged) must be informed s to be carried out, working hours, any, at least 1 week in advance of	Implemented = 1. Not Implemented = 0	Documentary Record.	Once prior to the start of dredging activities.
			ne interested parties any to the Project, its Inspection, or issue.	Implemented = 1. Not Implemented = 0	Documentary Record.	Permanent.





	ENVIRONMENTAL MANAGEMENT PLAN							
Person respons	sible for Execution: General Manager		COI	MMUNITY RELATIONS PL	AN	Cod: PRC		
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency		
PRC-01 COMM	UNITY RELATIONS PROG	RAM						
Social.	Social conflict Synergy between the company and the community where the Project is developed.	Keep a record of in of information. Inc	nunication Protocol: quiries, complaints, and requests lude the follow-up record, and response to the	Implemented = 1. Not Implemented = 0	Communications records and its monitoring.	Annually.		
		the prevention of e	ity to participate in workshops on environmental pollution, of the tiatives (that involve the ontingency plans.	Implemented = 1. Not Implemented = 0	Reports of events carried out.	Annually.		
		other public entitie	Participate with the Environmental Authority or with I other public entities in environmental education, disaster prevention, and social integration events.		Reports of events carried out.	Annually.		
PRC - 02 COMP	ENSATION AND INDEMN	IITY PROGRAM						
Social and economic.	Social conflict due to impacts on the resources of the inhabitants in the area of influence of the Project.	generates an impac property of third p	ne operation of the Project ct on the environment, health or arties, the Compensation Protocol (see Annex 2 of this PMA).	Implemented = 1. Not Implemented = 0	Reports on the execution of the Compensation Protocol with evidence of the case.	Whenever required		





	ENVIRONMENTAL MANAGEMENT PLAN							
Person respon	sible for Execution: HSQE Manager		EMERGEN	NCY AND CONTINGENCY F	PLAN	Cod: PEC		
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency		
PEC-01 EMERG	ENCY AND CONTINGENC	Y RESPONSE PROGR	AM					
Water, air, soil, biotic, social and economic.	Effects on environmental aspects. Social conflict							
L		Implementation / 1	update of the Evacuation Map.	Implemented = 1. Not Implemented = 0	Documentary Record.	Semiannually (or every time there is a change in the work methodology that demands it).		
		Planning and exect - Hydrocarbon and - Natural Events - Fire and explosion	·	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.		
		Repowering and/o (includes hydrosta	r maintaining of the wet net tic testing).	Implemented = 1. Not Implemented = 0	Documentary Record.	Every time it is required.		
			nd maintenance of fire extinguishers ne fire system (lighting, signage,	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually.		





			ENVIRONMEN MANAGEMENT						
Person respons	Person responsible for Execution: HSQE Manager SAFETY AND HEALTH AT WORK PLAN								
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency			
PSS-01 INDUSTRIAL SAFETY PROGRAM									
Water, air, soil, biotic, social and economic.	Risk of accidents Occupational Health and Safety Risk of damage to machinery and installations.	on Occupational Sa accordance with Ex legal bodies govern and Safety Policy d Representative and Port Terminal Head of Safety and Keep your Single	e Labor System (SUT) Safety, alth and Comprehensive Risk	Implemented = 1. Not Implemented = 0 Implemented = 1. Not Implemented = 0 Implemented = 1. Not Implemented = 0	Documentary Record. Photographic Record. Documentary Record. Documentary Record.	Semiannually (or whenever there is a change in the working methodology or infrastructure that demands it). Permanent. Annually.			
	IAL PROTECTIVE EQUIPM	-							
Water, air, soil, biotic, social and economic.	Risk of accidents Occupational Health and Safety Risk of damage to machinery and installations.	YILPORTECU S.A. w protective equipme	ill provide the necessary personal ent (PPE) to its employees who are according to the current workload	Implemented = 1. Not Implemented = 0	Documentary Record.	Annually (or whenever required).			
PSS-03 SIGNAL	ING PROGRAM								





	ENVIRONMENTAL MANAGEMENT PLAN							
Person responsible for Execution: HSQE Manager			SAFETY AN	SAFETY AND HEALTH AT WORK PLAN				
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency		
Water, air, soil, biotic, social and economic.	Risk of accidents Occupational Health and Safety Risk of damage to machinery and installations.	implemented in the MANDATORY ACTION / FIRE EXTINGUISH intervention in the The design of measurements, e	d restrictive signaling should be e project (PROHIBITION/ ON/ CAUTION/SAFE CONDITION ER EQUIPMENT) in the areas of Port Terminal. the signal (colors, symbols, tc.) must be carried out in EN ISO – 3864-1:2013. DESIGN FOR		Photographic Record. Memory or signal plan.	Annually.		

			ENVIRONMEN MANAGEMENT				
Person responsible for Execution: HSQE Manager			MONIT	MONITORING AND FOLLOW UP PLAN			
Environmental Aspect	Impact identified	Plan,	Plan, Programs and Measures		Means of verification	Frequency	
PMS-01 ENVIR	ONMENTAL AIR QUALITY	CONTROL PROGRA	M		•		
Air	Effects on air quality.	monitoring point: Point 1. Piers APPE Sampling and analy laboratories accred	ir quality monitoring at the 8 (610951, 9639819). ysis must be carried out by dited before the SAE and following established in Table 2 of Annex 4 of A (AM 097 - A).	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Quarterly.	





			MANAGEMENT	PLAN		
Person respon	sible for Execution: HSQE Manager		MONIT	ORING AND FOLLOW UP	PLAN	Cod: PMS
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency
AspectElevation of sound pressure levels.Carry out ambient n direct influence of t are: Point 1. Pier # 1 (61) Point 2. APPB Admin 9639401) 	inistrative Area (611136, 11014, 9640135) ívar Cabotage Pier (610892, be carried out by a SAE Accredited alibrated equipment and following thodology set out in Annex 5 to	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Quarterly.		





MANAGEMENT PLAN												
Person respon	sible for Execution: HSQE Manager		MONIT	Cod: PMS								
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency						
Water, biotic, economic and social.	Effects on water quality. Effects on marine flora and fauna. Social conflict	points established evaluate them acco Quality Criteria for wild life in fresh, m Annex 1 of Book VI The monitoring po Point 1. Versus APF Point 2. In front of 0.6). Point 3. Isla del Am Point 4. Entrance to Point 5. Punta El Fa Point 6. Entry to Ja The parameters to Total Chromium, C Coliforms, Deterge Biochemical Oxyge Demand, Total Pet Oxygen in situ, Am Organophosphates The sampling of sa	ality monitoring at the control in the environmental baseline and ording to Table 2. Admissible the preservation of aquatic and narine and estuarine waters, from of TULSMA (AM 097 - A). ints are: PB (610680, 9639902, 0.6). Liceo Naval (610682, 9640521, anor (610505, 9641879, 0.6). o El Coco (611365, 9645418, 0.6). aro (608302, 9646721, 0.6). mohitor are: Arsenic, Cadmium, opper, Iron, Mercury, Fecal nt Surfactants, Oils and Fats, n Demand, Chemical Oxygen roleum Hydrocarbons, Dissolved monia, Total Suspended Solids, a and Organochlorines. mples and analyses must be ratories accredited by the SAE.	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Monthly (during dredging actions and Quarterly. (during dredging stop).						





	ENVIRONMENTAL MANAGEMENT PLAN											
Person respon	sible for Execution: HSQE Manager		MONIT	Cod: PMS								
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency						
Water, biotic, economic and social.	Effects on water quality. Effects on marine flora and fauna. Social conflict	monitoring points (610680, 9639902, Point 2. In front of Point 3. Isla del Am Point 4. Entrance t Point 5. Punta El Fa Point 6. Entry to Ja Point 7. Sedimenta The monitored par according to Table of TULSMA (A.M. O Environmental Qua monitor are: Arsen Iron, Mercury, Lead Hydrogen Potentia Organophosphates	Liceo Naval (610682, 9640521, -4). nor (610505, 9641879, -6). o El Coco (611365, 9645418, - 2.5). aro (608302, 9646721, -7). mbelí (609094, 9642541, -8). Iry pools (611860, 9640136). ameters will be evaluated 1. Soil Quality Criteria in Annex 2. 1. Soil Quality Criteria in Annex 3. 1. Soil Quality Criteria in Annex 3. 2. Soil Quality Criteria in Annex 3. 2. Soil Quality Criteria in Annex 3. 2. Soil Quality Criteria in Annex 3. 3. Soi	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Monthly (during dredging actions) and Quarterly. (during dredging stop).						





ENVIRONMENTAL MANAGEMENT PLAN											
Person respon	sible for Execution: HSQE Manager		ΜΟΝΙΤ	Cod: PMS							
invironmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency					
Affordable.	Affectations to industrial shrimp production.	Determination of T Shrimp Larvae ( <i>Lita</i> suspended sedime standards and prot Environmental Pro States of America, "Evaluation of drea disposal" edited by Protection Agency, 1991, EPA/8- 91/00 Particulate Phase ( subject to dredging and 100% SPP in ea sampling points th Point 1. In front of Point 2. In front of Point 3. Isla del Am Point 4. Entrance t	ological Study of the The Mean Lethal Concentration in openaeus vannamei) with nts (CL50-96) combined with tocols approved by the tection Agency (EPA) of the United described in the manual dged material proposed for ocean y the U.S. Environmental /U.S. Army Corps of Engineering, 01, through the Suspended SPP), with sediment samples g, at concentrations of 10%, 50% ach of the two replicates, at six at are: APPB (610680, 9639902, -2). Liceo Naval (610682, 9640521, -4). nor (610505, 9641879, -6). o El Coco (611365, 9645418, - 2.5). aro (608302, 9646721, -7).	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Monthly (during the execution of dredging activities) and Quarterly. (when dredging activities are not carried out).					





			ENVIRONMEN MANAGEMENT						
Person respon	sible for Execution: HSQE Manager		MONIT	ORING AND FOLLOW UP	PLAN	Cod: PMS			
Environmental Aspect	Impact identified	Plan, I	Programs and Measures	Indicators	Means of verification	Frequency			
Water, air, soil, biotic, social and economic.	Effects on the quality of environmental components.	Establish and update a system for recording the results of the parameters evaluated in the monitoring carried out (air quality, noise, water quality and sediments), which allows observing its evolution over time for analysis and decision making.		Implemented = 1. Not Implemented = 0	Historical record of monitoring results.	Permanent.			
	PLANKTON AND ZOOPLA			1	1	Quarterly.			
Biotic, social and economic.	Affectations to the biotic component of the estuary and the sources of community resources in the area of influence.	zooplankton in the sampling. A periodic quarterl be carried out. Records of the mea	ts of phytoplankton and marine area of influence by y evaluation of this resource will asurements that will be compared ned in the environmental baseline be kept.	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	vithin timeframe/total f scheduled				
PMS-07 BIOAC	UTIC SPECIES MONITORIN	NG PROGRAM							
Biotic, social and economic.	Affectations to the biotic component of the estuary and the sources of community resources in the area of influence.	areas located withi - Cooperativa de Pr artesanal Vikingos - Asociación de Mu	nd crustaceans in mangrove n the project's area of influence: oducción pesquera del Mar jeres Artesanas Estero Porteño nunitaria de Servicios Turísticos La	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Quarterly.			





			ENVIRONMEN MANAGEMENT			
Person respon	sible for Execution: HSQE Manager		MONIT	Cod: PMS		
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency
Biotic, social and economic.	Affectations to the biotic component of the estuary and the sources of community resources in the area of influence.	Fauna, reports of s ichthyofauna in off	ktonic and benthic Flora and ighting of marine mammals and shore deposit area will be carried onitoring point on the edge of the and	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	Quarterly.
PMS-09 DREDO	GER OPERATION MONITO	RING PROGRAM				
social and economic.	Social conflict Affectations to port operations.	dredging vessel rou	ng contractor a daily report of utes, in digital format, including nates ( <i>tracks</i> ) obtained from the ach vessel.	Implemented = 1. Not Implemented = 0	Daily report of ship-drag routes (digital)	Monthly (during the execution of dredging activities).
social and economic.	Social conflict Affectations to port operations.	the volumes of sed area quadrants use	ng contractor a daily report of liments transported, the deposit ed, the number of hours worked, lger ships involved in the	Number of monitoring sessions executed within timeframe/total of scheduled monitoring per year.	Results report	





	ENVIRONMENTAL MANAGEMENT PLAN											
Person respor	<b>isible for Execution:</b> General Manager		AREA LEA	AREA LEAVING AND DELIVERY PLAN								
Environmental Aspect	Impact identified Plan.		Programs and Measures	Indicators	Means of verification	Frequency						
PAE-01 CLOSIN	G PROGRAM, LEAVING A	ND DELIVERY OF TH	E AREA			÷						
Soil, landscape, economic and social.	Effects on the quality of the soil and landscape, and the valuation of private	determines its defi Leaving and Delive	ne Project Management nitive closure, the Protocol for ry of the Area must be Annex 3 of this PMA).	Implemented = 1. Not Implemented = 0								
	property. Social conflict		ep updated the Execution Record of e Leaving and Delivery of the Area.	Implemented = 1. Not Implemented = 0	Leaving plan execution report, includes. evidence.	Permanent.						

	ENVIRONMENTAL MANAGEMENT PLAN											
Person responsible	e for Execution: General Manager		REHABILITAT	REHABILITATION PLAN OF AFFECTED AREAS								
Environmental Aspect	Impact identified	Plan,	Programs and Measures	Indicators	Means of verification	Frequency						
PRA-01 REHABILIT	ATION PROGRAM OF AFF	ECTED AREAS										
Water, air, soil, economic and social.	Impact to the quality of the environmental components.	infrastructure or the project, and/or the implement the Pro	In case of different situations that may affect infrastructure or the implementation area of the project, and/or the area of direct influence, implement the Protocol for the rehabilitation of affected areas (see Annex 4 of this PMA).		Statement by Project Management indicating the start of Rehabilitation of the Affected Areas.	Whenever required.						
			ep updated the Registry of events ementation of the rehabilitation of	Implemented = 1, Not implemented = 0.	Program performance report. Area Rehabilitation Protocol, including evidence.	Permanent.						





### 9.1 ANNEXES TO THE ENVIRONMENTAL MANAGEMENT PLAN

Area	Topics to be developed
Environment	Environmental regulations
	Environmental Management Plan
	Pollution prevention and mitigation
Security and health at work	Security and health at work
	Contingency plan
	Training Brigadiers
	Evacuation Plan
Hazardous waste	Hazardous wastes management
Communication to third parties	Mitigation and protection measures for sensitive elements located in the direct area of influence of the project, and commitments and / or measures related to the environmental performance of the company.

### 9.1.1 Annex 1. Base training syllabus

#### 9.1.2 Annex 2. Compensation and Indemnity Protocol

In the event that the operation of the Project results in an affectation of the environment, health or property of third parties, the company will use the following general procedure:

- i. Evaluate the damage or affectation, through a mechanism coordinated with the affected party and / or the Environmental Authority, which may consist of: technical visits to the affected area, identification of those affected, hiring an evaluating expert, economic valuation of the damage.
- ii. If the responsibility of the company is established, the repair or compensation to be carried out will be scheduled, depending on the case. Deadlines and mechanisms approved by the Competent Environmental Authority will be established.
- iii. Once the compensation or repair has been made, delivery certificates must be drawn up, with the signatures of those affected, the Environmental Authority and the promoter of the project.
- iv. A report of the actions carried out will be sent to the Environmental Authority, as the manner of verifying the actions taken.





### 9.1.3 Annex 3. Protocol for the rehabilitation of affected areas

In case of different situations that may affect the infrastructure or deployment area of the project, the

following is recommended:

SITUATION	ACTIONS
Fire:	With the support of the fire department and experts:
	i. Review the infrastructure and determine if it is safe to enter.
	ii. Carry out the cleaning of the place, considering:
	- Wear full personal protective equipment (overalls, gloves, goggles, boots
	and a mask).
	- Avoid the lifting and dispersion of ashes. If vacuum cleaners are used, they
	should have filters for small particles. Collect the ash in bags.
	- Materials and / or elements (machinery or equipment, others)
	contaminated with dangerous substances must be disposed of with
	environmental managers.
	- Other items can be taken to the landfill.
Spill:	Do not dilute the spill.
	i. Stop, collect and clean with absorbent material.
	ii. Replace contaminated soil with clean soil.
	iii. Contaminated soil and impregnated collection implements will be disposed of as
	hazardous waste.
Collapse:	i. Review the infrastructure and determine if it is safe to enter.
	ii. In case of determining structural risks, a technical study must be contracted
	to establish the actions to be followed, including: reinforcement of structures
	or its definitive demolition.
Demolition	i. Implement dust control and debris removal techniques (moistening and / or confinement of the area.)
	ii. Dispose of the rubble in the place allowed by the local Municipality within the sanitary landfill.
	iii. Clean up off-site areas that have been affected by the landslide.
Leaving	Apply the Plan for revegetation and restoration of habitat in the directly affected
facilities:	areas whose natural alteration has been as a result of the project activities.

## 9.1.4 Annex 4. Area Leaving and Delivery Protocol

Once Project Management establishes the need to close and deliver the area, the following actions must be performed:





i. Establish a schedule for the dismantling of the facilities, considering:

- The equipment and machinery used in the productive activity must be uninstalled and

removed, the obsolete equipment will be used for recycling or scrapping.

- Dismantle the infrastructure trying to minimize damage to elements that can be reused.
- Compacted soils must be removed.

- The soil must be improved with a contribution of organic matter to allow the growth of vegetation.

ii. Undertake a revegetation program, the purpose of which is to restore the cover of the affected area. Reforestation will be done with natural species from the area.

iii. Carry out water and soil analysis in places where activities that could be the cause of contamination were carried out, such as in fuel storage and waste disposal areas, in order to identify possible contaminated areas.

iv. If contamination is found, the corresponding corrective measures will be taken and comply with the applicable environmental legislation.





### 9.2 ESTIMATED SCHEDULE

Below you will find a table that (see Table 9-3) describes the execution schedule of the plans, programs and measures established in the PMA, updated for the first year as of the date of entry of this report.

To identify the timing of the application of the plans and programs, the following symbols have been used:

Timely or permanent execution, If execution depends on the start date and duration of the project and/or whether it is required under specific conditions (e.g. remediation plan)

Γ	

The total value of the updated PMA has been estimated at one hundred and thirty seven thousand, six hundred US dollars (00/100). For this assessment, costs associated with construction projects that are considered part of its budget have not been considered.





### Table 9-1 Estimated schedule of the Updated Environmental Management

ENVIRONMENTAL MANAGEMENT PLAN		SCHEDULE												ESTIMATED COST
				Y	ear 20	19				Y	ear 20	20		(US dollars)
Plans and programs:		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
PREVENTION AND MITIGATION PLAN	PPM													
PPM-01 CONTROL OF NOISE, VIBRATIONS AND GASEOUS EMISSIONS														4.800,0
PPM-02 PREVENTION OF IMPACTS TO WATER QUALITY														1.200,0
PPM-03 FUEL MANAGEMENT PROGRAM														
PPM-04 TECHNICAL CONTROL PROGRAM FOR DREDGING														48.000,0
PPM-05 IMPACT PREVENTION PROGRAM ON MARINE FAUNA														2.000,0
WASTE MANAGEMENT PLAN	PMD													
PMD-01 COMMON AND MISCELLANEOUS WASTE MANAGEMENT PROGRAM														4.980,0
PMD-02 HAZARDOUS AND SPECIAL WASTE MANAGEMENT PROGRAM														2.000,0
COMMUNICATION AND TRAINING PLAN	PCC													
PCC-01 TRAINING PROGRAM														500,0
PCC-02 COMMUNICATION PROGRAM														2.500,0
COMMUNITY RELATIONS PLAN	PRC													
PRC-01 COMMUNITY RELATIONS PROGRAM														2.000,0
PRC - 02 COMPENSATION AND INDEMNITY PROGRAM														1.500,0
EMERGENCY AND CONTINGENCY PLAN	PEC													
PEC-01 EMERGENCY AND CONTINGENCY RESPONSE PROGRAM														10.000,0
SAFETY AND HEALTH AT WORK PLAN	PSS													
PSS-01 INDUSTRIAL SAFETY PROGRAM														1.000,0
PSS-02 PERSONAL PROTECTIVE EQUIPMENT ENDOWMENT PROGRAM														3.500,0
PSS-03 SIGNALING PROGRAM														4.500,0
MONITORING AND FOLLOW UP PLAN	PMS													
PMS-01 ENVIRONMENTAL AIR QUALITY CONTROL PROGRAM														6.000,0





ENVIRONMENTAL MANAGEMENT PLAN	1		SCHEDULE											ESTIMATED COST
		Year 2019								Y	'ear 20	(US dollars)		
Plans and programs:		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
PMS-02 WATER RESOURCE ENVIRONMENTAL QUALITY CONTROL PROGRAM														19.352,5
PMS-03 SOIL ENVIRONMENTAL QUALITY CONTROL PROGRAM IN SEDIMENTS														19.352,5
PMS-04 SHRIMP MORTALITY BIOASSAY PROGRAM														6.720,0
PMS-05 MONITORING RESULTS RECORD PROGRAM														1.500,0
PMS-06 PHYTOPLANKTON AND ZOOPLANKTON SPECIES MONITORING PROGR	AM													12.000,0
PMS-07 BIOACUTIC SPECIES MONITORING PROGRAM														12.000,0
PMS-08 FLORA AND FAUNA MONITORING PROGRAM														12.000,0
PMS-09 DREDGER OPERATION MONITORING PROGRAM														500,0
AREA LEAVING AND DELIVERY PLAN	PAE													
PAE-01 CLOSING PROGRAM, LEAVING AND DELIVERY OF THE AREA														1.500,0
REHABILITATION PLAN OF AFFECTED AREAS	PRA													
PRA-01 REHABILITATION PROGRAM OF AFFECTED AREAS														1.000,0
												т	DTAL:	180.405,0





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## 7. ENVIRONMENTAL MANAGEMENT PLAN (PMA)

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PPMI-C-01 Implement fire extinguishers in the work area	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Cost included in the work	1 Annually
PPMI-C-02 Provide temporary debris collection area	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Quarterly
PPMI-C-03 Implement portable toilets for use by construction personnel	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 2,000.00		1 Monthly
PPMI-C-04 Maintenance of machinery used in construction	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Annually
PPMI-C-05 Signage of the work area for pedestrians and vehicles	Head of safety and environment	04-03- 2020	04-05- 2021	\$ USD 200.00		1 Semiannually
PPMI-O-01 Signage of the work area for pedestrians and vehicles	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 200.00		1 Semiannually
PPMI-O-02 Machinery maintenance.	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually
PPMI-O-03 Signage of the work area for pedestrians and vehicles	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 200.00		1 Semiannually

#### Impact prevention and mitigation plan:

#### Waste Management Plan:

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PMD-C-01 Provide area to store hazardous and non- hazardous waste	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Monthly
PMD-C-02 Send non- hazardous waste to municipal landfill	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	2 Weekly
PMD-C-03 Deliver hazardous waste to authorized managers	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 200.00		1 Semiannually
PMD-C-04 Label hazardous and non- hazardous waste containers	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 150.00	2002	1 Annually
PMD-O-01 Provide area to store hazardous and non- hazardous waste	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Monthly





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Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PMD-O-02 Send non- hazardous waste to municipal landfill	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	2 Weekly
PMD-O-03 Deliver hazardous waste to authorized managers	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 200.00		1 Semiannually
PMD-O-04 Label hazardous and non- hazardous waste containers	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 150,00		1 Annually

#### **Community Relations Plan**

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PRC-C-01 Perform as much as possible the hiring of workers from the community	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Annually
PRC-C-02 Address claims and complaints from the community	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Quarterly
PRC-C-03 Hold an information meeting with the community closest to the project	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 250,00		1 Annually
RRC-O-01 Carry out as far as possible the hiring of community workers	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00 Within the co- of the project		1 Annually
PRC-O-02 Address claims and complaints from the community	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Quarterly

Contingency plan

Activity	tivity Responsible Start End Budget		Budget	Justification	Frequency	
PDC-C-01 Maintain a spill in water kit	Head of safety and environment	5 150 150 00			1 Annually	
PDC-C-02 Train personnel on the use of fire extinguishers	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00 Within the cost of the project		1 Annually
PDC-C-03 Carry out an emergency response drill	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00 Within the cost of the project		1 Annually
PDC-C-04 Maintain emergency signs in the work area	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 200.00		1 Annually





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Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PDC-O-01 Maintaining a spill in water kit	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 150,00		1 Annually
PDC-O-02 Train personnel on the use of fire extinguishers	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually
PDC-O-03 Carry out an emergency response drill	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually
PDC-O-04 Maintain emergency signs in the work area	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 200.00		1 Annually

#### Communication and training plan

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PCC-C-01 Train staff on the Environmental Management Plan	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Annually
PCC-C-02 Conduct induction to personnel on environmental and safety issues	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Annually
PCC-C-03 Train staff on proper use of PPE	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 0.00	Within the cost of the project	1 Annually
PCC-O-01 Train staff on the Environmental Management Plan	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually
PCC-O-02 Conduct induction to personnel on environmental and safety issues	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually
PCC-O-03 Train staff on proper use of PPE	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Annually

## Occupational safety and health plan

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency	
PSSO-C-01 Implement safety signs in the work area	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 250,00		1 Annually	
PSSO-C-02 Provide PPE to workers	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 200.00		1 Monthly	





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Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PSSO-O-01 Perform maintenance of fire extinguishers	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 150,00		
PSSO-O-02 Maintain a first aid kit	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 50,00		1 Annually
PSSO-O-03 Carry out inspections of the use of PPE and make renovations if necessary	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 0.00	Within the cost of the project	1 Monthly

#### Monitoring and follow-up plan

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PMS-C-01 Carry out a water quality monitoring	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 250,00		1 Annually
PMS-O-01 Presentation of environmental compliance report	Head of safety and environment	05-05- 2021	05-05- 2071	\$ USD 2.500,00		1 Annually

#### Monitoring points:

Monitoring point (code):	UTM coordinates System: UTM- W0	(NOTE: Reference SS84 -ZONE 17S)	Description of the point	
	X	Y		
Sample 2 In front of the Liceo Naval	610682	9640521	The following will be analyzed: pH, COD, BOD5, Total Suspended Solids, Dissolved Oxygen, Total Hydrocarbon from Petroleum, Oils and Fats.	
Point 3 Pier 5	611014	9640135	Noise sampling will be carried out at Pier 5	

## Rehabilitation plan.

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PR-C-01 Evaluation of the areas that make up part of the construction process	Head of safety and environment	04-05- 2020	04-05- 2021	\$ USD 200.00		1 Annually

#### Area Closure and Delivery Plan

Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
PCAEA-CA-01 Leaving camps	Head of safety and environment	06-05- 2071	06-05- 2072	\$ USD 0.00	Within the cost of the project	1 Annually



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Activity	Responsible	Start Date	End date	Budget	Justification	Frequency
	Head of safety and environment	06-05- 2071	06-05- 2072	\$ USD 0.00	Within the cost of the project	1 Annually

## 8. FOREST INVENTORY

Does your project include the removal of native vegetation coverages?: No

## 9. FINISH ENVIRONMENTAL REGISTRATION

I, JURADO VON BUCHWALD ALFREDO JOSE with identity card 0992982047001, declare under oath that all the information entered corresponds to reality and I acknowledge the responsibility generated by the falsehood or concealment of providing false or erroneous data, in attention to what is established in article 255 of the Comprehensive Organic Criminal Code, which states: Falseness or concealment of environmental information.- The person who issues or provides false information or hides information that supports the issuance and granting of environmental permits, environmental impact studies, environmental audits and diagnoses, permits or licenses for forest use, whoever causes an error to be committed by the environmental authority, will be punished with a custodial sentence of one to three years.

I have read and understood the conditions: Yes

