







INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 1			
Observation date	October 31, 2020			
Reference sector (nearest town)	Jambelí lighthouse West Flank			
UTM Coordinates	17M 0607858		9645120	
Category	Ecological	X	Social	X
Distance from YILPORT	5.7 kilometers			
				
Description/Sensitivity <p>Possibly the sector with the best beach quality on the exposed coast of Jambelí Island. This is a relatively flat beach with extremely fine sand, and unlike other sectors, there is not much garbage on it. This sector has barely been exploited given its distance from the populated center of Jambelí, and rise in sea level becomes evident in this area as the lighthouse gets flooded at high tide and because of the loss of contiguous mangroves. Executing the project in this sector is considered to be of low sensitivity.</p>				
Observations/Recommendations <p>The back passage to the lighthouse from the town of La Playita should be cleaned, so that visitors can have access and enjoy of this sector.</p>				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			
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INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	MGC 1			
Observation date	November 2, 2020			
Reference sector (nearest town)	Right next to Yilport in the Expansion Area of Pier 6			
UTM Coordinates	17M 0611029		9640272	
Category	Ecological	X	Social	
Distance from YILPORT	-----			
				
Description/Sensitivity Dwarf mangroves grew inbetween the protection rock walls of the coastal margin from Yilport's Northern rock wall to the Navy's heliport. Strip approximately 100m long and 6m wide. This strip will remain in its current state during Phase 1 of the Pier # 6 extension project; however, it is considered to be highly sensitive due to the proximity thereof.				
Observations/Recommendations				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	MGC 2			
Observation date	November 2, 2020			
Reference sector (nearest town)	Yilport Pier 6 expansion area			
UTM Coordinates	17M 9664121		9664121	
Category	Ecological	X	Social	
Distance from YILPORT	-----			
				
Description/Sensitivity Dwarf mangroves grew inbetween the protection rock walls of the Ecuadorian Navy facilities on both sides of the "Petroamazonas" pier. This strip will remain in its current state during Phase 1 of the Pier # 6 extension project; however, it is considered to be highly sensitive due to the proximity thereof.				
Observations/Recommendations				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	DCC 1			
Observation date	November 3, 2020			
Reference sector (nearest town)	The Jambelí lighthouse			
UTM Coordinates	17M 0588077		9663235	
Category	Ecological		Social	X
Distance from YILPORT	10,5 Kilometers from Puerto Bolívar, and it is also on the other side of Jambelí Island.			
				
Description/Sensitivity Possibly the best tourist infrastructure on Jambelí Island, as it offers the best bungalow-type accommodation in an area far from noise, which is ideal for people who just want to rest. Low sensitivity to the Yilpor project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	APA 2			
Observation date	November 3, 2020			
Reference sector (nearest town)	Guajabal Santa Rosa Estuary			
UTM Coordinates	17M 0607428		9635226	
Category	Ecological		Social	X
Distance from YILPORT				
				
Description/Sensitivity Small fishing cove with boats and bongos fishing in the Santa Rosa estuary and its tributaries or in the mangrove canals. This sector lack utility services. Low sensitivity to the Yilpor project				
Observations/Reminders This town should be considered in future community outreach social programs				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BAJ 2 PAJ			
Observation date	November 3, 2020			
Reference sector (nearest town)	In front of Yilport			
UTM Coordinates	17M 0609065		9642226	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity These shell middens are beaches with shell accumulations that do not host many living species given their abrasiveness. These shells have not been much exploited to tamp down soft soils so that they do not become muddy with the rain, but the exploitation level thereof is low. The ecological importance of these accumulations lies in their role controlling marine erosion by stabilizing coastal edges. Low sensitivity to the Yilpor project				
Observations/Reminders The water quality of this outlet should be monitored during the Operation period of Pier 6; the recommendation is to take internal samples at low tide.				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BOC 1			
Observation date	November 2, 2020			
Reference sector (nearest town)	Entrance to Pongalillo			
UTM Coordinates	17M 9640818		9640818	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity The water outlet closest to Yilport to the North, immediately contiguous to the Navy lands that collect contributions from the Northern sector or the Machala Puerto Bolívar intersection. Low sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 1 / ESC 5			
Observation date	October 31, 2020			
Reference sector (nearest town)	In front of the Jambelí beach			
UTM Coordinates	17M 0605411		9641663	
Category	Ecological	X	Social	X
Distance from YILPORT	10.5 Kilometers from Puerto Bolívar			
				
Description/Sensitivity These are protection breakwaters to avoid the erosive effect of the onslaught of waves and the rise in sea level that threatens the tourist facilities of the beach area; there are 5 breakwaters: 3 main frontal ones and two lateral ones perpendicular to the coast. These structures have suffered the positive effects of biological incrustations increasing the fishing productivity of this sector, particularly of large fish that prowl these structures in search of smaller fish hiding in them; the oysters growing in these structures are also harvested. Low sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	PAF 2			
Observation date	November 2, 2020			
Reference sector (nearest town)	La Puntilla			
UTM Coordinates	17M 0 616 128/17M 0623081		9652794 / 9664704	
Category	Ecological		Social	X
Distance from YILPORT				
				
Description/Sensitivity There are stow nets in this sector used for catching at least 3 different species of shrimp, as well as fish; these nets work during high-tide periods and their owners are from La Puntilla. Low sensitivity associated with the Yilport project				
Observations/Reminders This fishing system is being regulated with strict requirements that are hard to meet for artisan fishermen; the social actions should include support for these specilized fishermen.				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	ESC 1			
Observation date	November 2, 2020			
Reference sector (nearest town)	1 km North of Yilport			
UTM Coordinates	17M 0610978		9640904	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Long breakwater to protect the shrimp facilities that start North of Estero Muerto; the presence of rocks increases the presence of fish, which are caught by fishermen boats looking for large fish. High Sensitivity associated with the Yilport project given its proximity to the access channel to be dredged.				
Observations/Reminders				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 1			
Observation date	November 2, 2020			
Reference sector (nearest town)	Bajo Alto Beach			
UTM Coordinates	17M 0595058		9665125	
Category	Ecological		Social	X
Distance from YILPORT				
				
Description/Sensitivity Protection breakwaters have been built around this beach given the active local tourism in this area despite the color of the water and a high presence of suspended solids. Low sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	PAP 1			
Observation date	October 31, 2020			
Reference sector (nearest town)	Isla de Amor Beach			
UTM Coordinates	17M 0610724		9642172	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Extremely productive beach in terms of the public extraction of clams, close to Puerto Bolívar and Yilport infrastructures, and located on the North shore of the mouth that connects with an internal mangrove system. Like the majority of beaches adjacent to mangroves, it is very flat and has different types of seabeds, conserving small intertidal water bodies in it, and a large variety of invertebrate species. High sensitivity associated with the Yilport project.				
Observations/Reminders The AUSCEMs (Agreement of the Sustainable Use and Custody of the Mangrove Ecosystem) close to Yilport become strategic allies in the project, to the extent that mutually beneficial interventions are developed; consultancy is suggested for the sustainable management of clams, such as determining minimum sizes or dividing the areas for harvesting.				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BOC 5			
Observation date	November 3, 2020			
Reference sector (nearest town)	Entrance to Pongalillo			
UTM Coordinates	17M 0598897		9632120	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Extensive beach at the entrance to the Pongal estuary experiencing the loss of mangroves due to the rise of the sea; a shrimp farm was lost years ago in this sector; the beach hosts diverse infauna species. Low sensitivity associated with the Yilport project.				
Observations/Reminders				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BOC 5			
Observation date	November 3, 2020			
Reference sector (nearest town)	In front of the cabotage pier			
UTM Coordinates	17M 0598897		9632120	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Sector with the highest proportion of dying mangroves located in front of the Puerto Bolivar cabotage pier; significant bird activity was observed but not like the birdhouses on the same mangrove further South. Low sensitivity associated with the Yilport project.				
Observations/Reminders Not applicable, as it is not within the navigation systems near the terminal, nor is it authorized by INOCAR (Naval Oceanographic Institute).				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	PAF 3			
Observation date	November 2, 2020			
Reference sector (nearest town)	Bajo Alto			
UTM Coordinates	17M 0616903		9651876	
Category	Ecological	X	Social	X
Distance from YILPORT	5 kilometers from Puerto Bolívar			
				
Description/Sensitivity Shallow sector setting the beginning of a wide area of soft seabeds, extending South to the vicinity of Playa Coco, spreading out in some sectors up to 3 km from the high tide limit, with the presence of low-rise mangroves; stow nets are installed in this area and there is a large presence of birds waiting for the residues generated in this type of fishing. Considerable sedimentation visible in the color of its waters. Low sensitivity associated with the Yilport project				
Observations/Reminders 5 kilometers from Puerto Bolívar				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	MGC 5			
Observation date	November 2, 2020			
Reference sector (nearest town)	La Puntilla-Bajo Alto			
UTM Coordinates	17M 0621926		9656776	
Category	Ecological	X	Social	X
Distance from YILPORT	25 Kilometers from Puerto Bolívar			
				
Description/Sensitivity Mangroves exposed to the Jambeli canal South of Puntilla beach and extending into Bajo Alto. This area has tall mangroves mixed with sandy beaches, an estuary outlet at 17M 062350 / 9656700, and a considerable number of dead mangroves in its first strip that show the rise in sea level in recent years. Low sensitivity associated with the Yilport project				
Observations/Reminders 25 Kilometers from Puerto Bolívar				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BAJ 1			
Observation date	November 2, 2020			
Reference sector (nearest town)	La Puntilla outlet			
UTM Coordinates	17M 0622037		9656509	
Category	Ecological	X	Social	
Distance from YILPORT				
				
Description/Sensitivity Shallow accumulations of gravels and shells that appear to be in good condition, but in reality, there are black sediments beneath the first few centimeters, with an evident presence of sulfur anhydrous, which shows the accumulation of organic matter due to the limited presence of bivalves. A significant number of seabirds rest in these bays. Low sensitivity associated with the Yilport project.				
Observations/Reminders The quality of sediments in this sector should be analyzed, so as to determine other sources of contamination in the area of indirect influence.				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 4			
Observation date	November 3, 2020			
Reference sector (nearest town)	Jambelí Lighthouse			
UTM Coordinates	17M 0608379		9644642	
Category	Ecological		Social	X
Distance from YILPORT	6 kilometers from Puerto Bolívar			
				
Description/Sensitivity Pier for tourist purposes and logistics services in La Playita cove built not longer than one year ago. Medium sensitivity associated with the Yilport project.				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	MGC 4			
Observation date	November 3, 2020			
Reference sector (nearest town)	Bajo Alto			
UTM Coordinates	17M 0621561		9652454	
Category	Ecological	X	Social	X
Distance from YILPORT	25 kilometers from Puerto Bolívar			
				
Description/Sensitivity Area with medium-height mangroves that congregate populations of <i>Fregata magnificens</i> , surrounded, like all mangroves, by shrimp farming infrastructures; the effect of the aggregation of birds in the death of the mangroves can be observed here, as well as in the South entrance towards Jambelí of AUSCEM Vikingos del Mar. Medium sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BAJ 2 PAJ			
Observation date	November 3, 2020			
Reference sector (nearest town)	South entrance of Jambelí, Santa Rosa estuary			
UTM Coordinates	17M 0623542		9662266	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity <p>Large beach with soft seabeds on the East flank of Jambeli Island towards the Northwest of Yilport; this beach experiences a continuous harvesting of "Machalera" clams sheltered by the extension of La Puntilla, where various bivalves grow and there is considerable bird activity, which is why it is considered a feeding area for wading birds. Low sensitivity associated with the Yilport project.</p>				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			


INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 4			
Observation date	November 2, 2020			
Reference sector (nearest town)	La Puntilla towards the Jambelí canal			
UTM Coordinates	17M 0622490 / 17M 0622610		9662868 / 9660180	
Category	Ecological		Social	X
Distance from YILPORT				
				
Description/Sensitivity Extensive beach exposed to the Jambelí canal that extends from La Puntilla to an area where mangroves begin, but that are disappearing due to the rise of the sea. Despite its distance from Bajo Alto, houses are being built and the initial stages of tourist exploitation can be observed in the place, with camp-like facilities and ruins of solid structures on the East block of the 17M 0622619/9660654 coordinate.				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	TUR 2			
Observation date	November 2, 2020			
Reference sector (nearest town)	Playa Coco			
UTM Coordinates	17M 061538		9643456	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity This is an area that combines shrimp farms, mangroves, and tourist infrastructures, with a large coastal breakwater that starts from a shrimp farm dam to the North 17M 0611538 / 9643456. A small boardwalk has been built in the middle, with a concrete bridge that probably evacuates waste water. The coordinates are 17M 0611555 / 9643247. Low sensitivity associated with the Yilport project.				
Observations/Reminders The effluent from this sector should be monitored in the future.				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BAJ 2 PAJ			
Observation date	----			
Reference sector (nearest town)	Isla del Amor entrance to Puerto Bolivar			
UTM Coordinates	17M 0623542		9662266	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Extensive plain of soft seabeds sheltered by the extension of La Puntilla; several bivalves grow in this area and are occasionally harvested. There is also considerable bird activity here, which is why it is considered a feeding area for wading birds. Low sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	PAF 2/3			
Observation date	November 2, 2020			
Reference sector (nearest town)	Bocana de la Puntilla			
UTM Coordinates	17M 0 616 128 / 17M 0623081		9652794 / 9664704	
Category	Ecological		Social	X
Distance from YILPORT				
				
Description/Sensitivity Aggregation of passive fishing with static nets used to capture at least 4 species of shrimp and fish. These operate during high-tides and their owners are from La Puntilla. This fishing method is currently in the process of regularization. This fishing method shows low sensitivity associated with the Yilport project.				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	PAF 2/3			
Observation date	November 2, 2020			
Reference sector (nearest town)	Bocana de la Puntilla			
UTM Coordinates	17M 0623542		9662266	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity Internal mangroves with a large presence of shrimp farms with wall containment problems as a result of the rise in sea level. There is wide-spread fishing of large fish in this estuary, using a specific method with 7" electrowelded monofilament meshes to capture fish, developed mainly by the fishermen in Pongalillo. Low sensitivity associated with the Yilport project.				
Observations/Reminders				
Observer's Signature		ARC ENAP SIPEC Supervisor Signature		

INVENTORY OF SENSITIVE AREAS, SITES, AND STRUCTURES IN THE AREA OF INFLUENCE OF THE YILPORT PROJECT				
Code	BAJ 2 PAJ			
Observation date	-----			
Reference sector (nearest town)	Isla del Amor, entrance to Puerto Bolivar			
UTM Coordinates	17M 0623542		9662266	
Category	Ecological	X	Social	X
Distance from YILPORT				
				
Description/Sensitivity There is an extensive stow net bordering a shrimp farming infrastructure on the inner margin of the Jambelí Island near the lighthouse. Medium sensitivity associated with the Yilport project				
Observations/Reminders				
Observer's Signature	ARC ENAP SIPEC Supervisor Signature			