

6.2 Action Plan

To date, the Action Plan has fourteen (14) activities. Four (4) of them correspond to on track activities which need to be implemented during the full extension of the construction phase, one (1) is closed and nine (9) are new actions proposed after the site visit and the document review. The current status of the activities are shown in Table 6 and has been evaluated with the following color coding.

 Solved.  On track  Pending  New Action

Table 6 Action Plan Monitoring

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated June 2017)	Color code
<p>1 Compensation – Resettlement. The system for social compensation offered by the Project to the communities located along the road is not clear. UF: ALL PS/EP:PS5</p>	<p>Biannual – Next Envi. And social report. (December 2017)</p>	<p>Socio-economic compensations are being performed under the Socioeconomic Compensation Plan, which complies with Resolution 545 of 2015. The real estate portfolio and the neighborhood minutes are being developed. The compensation will be evaluated in parallel with the property acquisition process. Until June 2017, there are 13 family units that need to be compensated. 2 in UF1, 7 in UF3.1, 3 in UF3.2 and 1 in UF4.</p>	
<p>2 Supply Chain. There is no evidence in the ESDD that the source of the supplies is directly generated by the concessionaire or the suppliers, and given the case, if these ones have the permits required, in such a way that the habitat is not going to be affected negatively. UF: ALL PS/EP:PS6</p>	<p>Biannual – Next Envi. And social report. (December 2017)</p>	<p>The Concessionaire has submitted the certificates of the suppliers, and they comply with legal requirements. The documents were verified for all UFs and will be evaluated during all construction phase.</p>	
<p>3 Materials disposal. The documentation for the design of the rubble and excavation material Management Area (ZODME) was not at the level of a detail design. UF: All PS/EP:PS6</p>	<p>Biannual – Next Envi. And social report.</p>	<p>Detailed designs of the ZODMEs are being developed. So far, the Concessionaire has acquired the majority of the volume needed. To date, the following ZODMES are being used: Mirolindo, El Cuervo and Calamar. They are meeting the technical specifications and</p>	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated June 2017)	Color code
	(December 2017)	designs approved by the environmental authority. The material disposal will be evaluated during all the construction phase.	
<p>4 Archaeology: According to the results obtained during the archeological field studies phase, which determined that the Project area has an archeological potential qualified as medium-high, and estimated the probability of archeological findings, the area is considered to have a risk of significant findings.</p> <p>UF: All PS/EP:PS8</p>	Biannual – Next Envi. And social report. (December 2017)	In the UFs under construction, the Concessionaire has an Archaeological Management Plan approved by the ICANH which includes monitoring and rescue activities. To date, there are more than 57 professionals involved in the Project. Likewise, interagency agreements have been made in cultural centers and museums. However, there is still a lot of archaeological rescue pending to be done. Please refer to Annex 1 for further information.	
<p>5 Modification of Environmental License – UF 1 La Virginia Bypass</p> <p>The Concessionaire is working on a modification of the environmental license for UF1 –La Virginia Bypass, due to a 400 m roadway realignment, which does not represent major changes in the EIA. The Concessionaire has submitted the modification request to the ANLA and has subsequently held a site visit and meetings with representatives of this governing body. The Concessionaire expects to have the approval of this modification by January 2017</p>	January 2017	The Concessionaire obtained the license modification approval and has started works in <i>La Virginia Bypass</i> .	
<p>6 Environmental Compliance Reports (ICAs)</p> <p>For the next monitoring report, Arup recommends the Concessionaire to submit the second ICA of UF1 and the first ICA of UF2.1, UF2.3 and UF3.2. These reports should be presented after six months of construction start date of works for the Functional Units with EIAs.</p>	December 2017	New Action	
<p>7 Industrial water treatment system – Exit Portal -Irira Tunnel</p> <p>Despite the Concessionaire has a temporary sedimentation system at the exit portal, it could be improved. In Arup’s opinion, the Concessionaire needs to implement a permanent primary treatment, capable to attend the infiltration</p>	September 2017	New Action	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated June 2017)	Color code
flow, which was estimated to be between 0.0-3.0 l/s. Up to date, the Concessionaire is not complying with the water treatment system established in the license modification (Resolution 0061, January 2017)			
8 Hazardous materials management, Exit portal Tesalia Tunnel, UF2 The Concessionaire should improve the ACPM supply at the exit portal of Tesalia Tunnel with an additional protective barrier.	July 2017	New Action	
9 Watercourse protection – Risaralda and Totuy river banks, UF1 The Concessionaire is obliged to recover the Risaralda and Totuy river banks in UF1 due to the bridges construction in this sector. The bridges are already finished and the Concessionaire should begin recovery activities	July 2017	New Action	
10 Concrete launcher water treatment – Entrance portal Tesalia Tunnel, UF2 The Concessionaire should intensify the maintenance of the sedimentary pools for the waste water of the concrete launcher at the entrance portal of Tesalia Tunnel, UF2. During the site visit, it was evidenced that the pools had a lot of sediments, representing a possible risk of pollution	July 2017	New Action	
11 Watercourse protection - sediment barriers, UF5 The Concessionaire needs to improve the sediment barriers in UF5 in K82+355 and K92+700 (La Ley stream)	July 2017	New Action	
12 Road safety campaig – la Libertad community, UF2 The Concessionaire should reinforce the road safety campaings with <i>la Libertad</i> community	August 2017	New Action	
13 Road Safety, UF2 At the exit of work fronts there is a crew responsible for cleaning the tires of vehicles and sweeping the road. However, during the rainy season, this measure may be insufficient. Construction of sumps and use of granular	July 2017	New Action	

Proposed Action (As set in the ESDD)	Proposed Deadline	Current Status (Updated June 2017)	Color code
material are recommended. This measure should be reinforced in UF2, giving priority to areas near social infrastructure like the school.			
14 Use of portable toilets, UF5 – K92+200 The workfront located in K92+200, UF5, does not have a portable toilet. The Concessionaire manifested that the workers are using a toilet from a neighbouring house. However, Arup has not evidenced a certificate or a permission of the property owner.	July 2017	New Action	

7 Photographic Record



Picture 1 *La Ley* stream, K92+700, UF5. Lack of water protection barriers



Picture 2 Improper handling of hazardous materials



Picture 3 Irra Tunnel, UF4



Picture 4 Improper industrial water treatment system



Picture 5 Archaeological laboratory



Picture 6 Concrete launcher water treatment, UF2



Picture 7 Inadequate waste water system, exit portal - Tesalia Tunnel



Picture 8 Entance portal Tesala Tunnel - UF2



Picture 9 Portable toilets in UF1



Picture 10 Storage of hazardous materials

Appendix 1

Table 7 Archaeologic rescue and monitoring progress

FUNCTIONAL UNIT	ICANH LICENSE	ARCHAEOLOGICAL SITES FOR RESCUE ACTIVITIES	LOCATION	RESCUE PROGRESS	
				STATUS OF RESCUE PROGRESS	MONITORING PROGRESS
UF 2.2 Túnel	6739	Does not apply	Does not apply	Does not apply	Does not apply
UF 2.3 vía nueva	6739	LST001 LOS ALPES MADURO	K8+000	IN PROGRESS	PENDING
		LST008 EL SAMAN	K8+300	(SALVAMENTO)	PENDING
		LST002 LOS ALPES VERDE	K9+100	PENDING	PENDING
		LST003 MARINA	K10+430	PENDING	PENDING
	5821	LST006 CERCA VIVA	K10+800	PENDING	PENDING
	6739	LST004 EL GUAYABO	K12+300	PENDING	PENDING
	5821	LST007 EL GUADAL	K13+100	PENDING	PENDING
6739	LST005 INDIOBRAVO	K22+660	PENDING	PENDING	
UF3.1 improvement	5843	AST 003 LAS PALMAS	K1+000	FINISHED	FINISHED
		AST 004 LA ESTRELLA	K2+600	FINISHED	FINISHED
		AST 005 EL NARANJO	K2+900	FINISHED	FINISHED
		CSTCL001 LA PINCHERA	K3+500	FINISHED	FINISHED
		CSTCL002 EL HONGO	K3+400	FINISHED	FINISHED
		AST 006 ALTO MIRA	K4+250	FINISHED	FINISHED
		IST001 EL INDIAL	K8+900	PENDING	PENDING
		BST 003 PORTUGAL	K11+100	PENDING	PENDING
		BST 004 LA BAMBA	K11+925	FINISHED	FINISHED
		BST 005 LA BAMBITA	K12+100	FINISHED	FINISHED
		BST 006 LA FLOR	K12+775	PENDING	PENDING
		BST 007 LA FLOR II	K13+000	IN PROGRESS	PENDING
UF 3.2 improvement	5931	FST002 TRES PUERTAS	K0+000	PENDING	PENDING
		FST009 ALCARAVAN	K0+350	IN PROGRESS (SALVAMENTO)	PENDING
		FST007 CERCA GRANDE	K0 + 950	FINISHED (SALVAMENTO)	IN PROGRESS
		FST006 ALTA VISTA	K1 + 610	FINISHED (SALVAMENTO)	IN PROGRESS
		FST004 LA SORPRESA	K1 + 800	FINISHED (SALVAMENTO)	IN PROGRESS
		FST005 EL DESCANSO	K1 + 900	IN PROGRESS (SALVAMENTO)	PENDING
		FST001 GUADALAJARA	K2+900	IN PROGRESS	PENDING
		FST008 EL METATE	K3+200	IN PROGRESS (SALVAMENTO)	PENDING
UF4 Improvement	5868	YACIMIENTO 1	K40+450	PENDING	PENDING
		YACIMIENTO 2	K40+500	IN PROGRESS	PENDING
		YACIMIENTO 3	K40+650	IN PROGRESS	PENDING