

Figure 1. Example of Certificate provided to citizen volunteers and their mentors, evidencing completion of water sampling training.



Figure 2. List of stations that are regularly sampled and supplementary stations. The stations have been sampled during low-flow events via “grab-type” sampling. A description of the station numbers is detailed in Table 1.

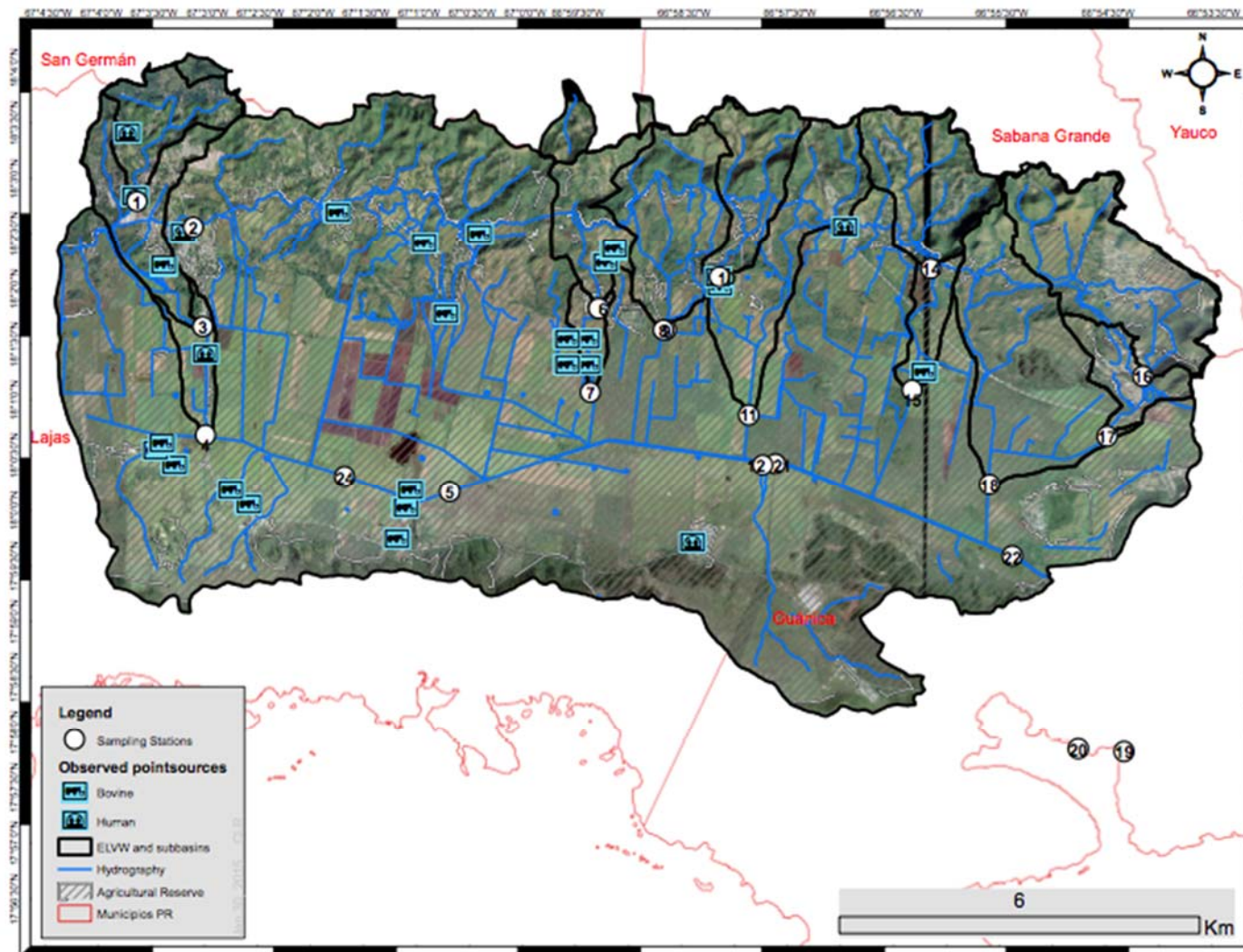


Table 1. Description of sampling stations

Station ID	Name	Sampling Type	Geographic coordinates		Sampling cycle		
			Latitude	Longitude	#1	#2	#3
1	Lajas WWTP Outfall	Professional (Grab)			8/12/2014	9/24/2014	1/9/2015
2	Irrigation Canal at Lajas	Student			8/6/2014	9/29/2014	1/12/2015
3	Qbda. Mondongo I	Student			8/6/2014	9/29/2014	1/12/2015
4	Qbda. Mondongo II	Professional (Grab)			8/12/2014	9/24/2014	1/9/2015
5	Drainage Canal I	Professional (Grab + Storm)			8/11/2014	9/24/2014	1/9/2015
6	Qbda. Jicara (El Salao)	Professional (Grab + Storm)			/ 1	/ 1	/1
7	Qbda. Jicara (Pagan Dairy)	Professional (Grab) Student;			8/25/2014	/ 1	/1
8	Qbda. La Plata	Professional (Storm)			8/5/2014	9/29/2014	1/12/2015
9	Caribbean Fisheries	Student			8/5/2014	9/29/2014	1/12/2015
10	Qbda. de El Rayo (El Tuque)	Professional (Grab)			8/25/2014	10/22/2014	1/14/2015
11	Qbda. Bárbara	Professional (Grab + Storm)			8/18/2014	9/25/2014	1/14/2015
14	Qbda. Majina I	Professional (Grab)			8/20/2014	9/25/2014	1/14/2015
15		Professional (Grab)			9/3/2014	9/25/2014	1/14/2015
16	Qbda. Cristales I	Student			8/5/2014	10/1/2014	1/19/2015
17	Qbda. Cristales II	Student			8/5/2014	10/1/2014	1/19/2015
18	Qbda. Cristales III	Student			8/6/2014	10/1/2014	1/19/2015
19	Guanica town SW Runoff	Professional (Grab)			/ 2	10/14/2014	/ 3
20	Guanica WWTP Outfall	Professional (Grab)			/ 2	10/14/2014	/ 3
21	Drainage Canal II	Professional (Grab)			8/11/2014	9/22/2014	1/16/2015
22	LV - Drainage Outlet	Student			8/6/2014	9/22/2014	1/19/2015
23	USGS station Las Latas	Professional (Grab + Storm)			8/26/2014	10/1/2014	1/26/2015

Station ID	Name	Sampling Type	Geographic coordinates		Sampling cycle		
			Latitude	Longitude	#1	#2	#3
24	Drainage Canal, downstream Artau LV - Drainage Channel d/s	Professional (Grab)			8/11/2014	9/24/2014	1/9/2015
26	community	Professional (Grab)			/ 2	9/22/2014	1/16/2015
/ 1 There was no flowing water to be sampled							
/ 2 This station could not be sampled							
/ 3 Pending to be sampled							

Figure 3. Land-use map of Lajas Valley watershed. The map includes observed point sources.

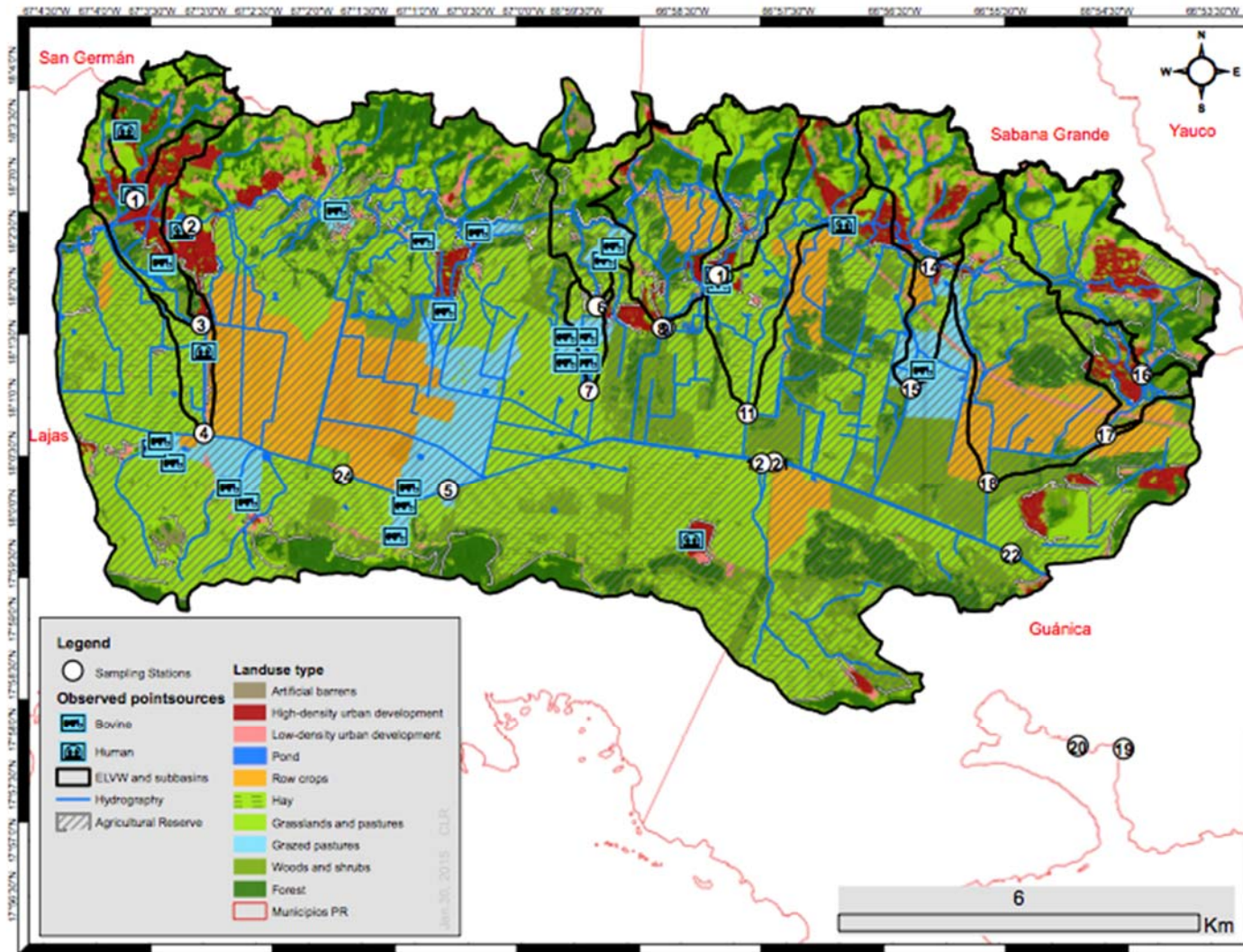


Figure 4. Land-use map of lower portion of the Río Loco watershed.

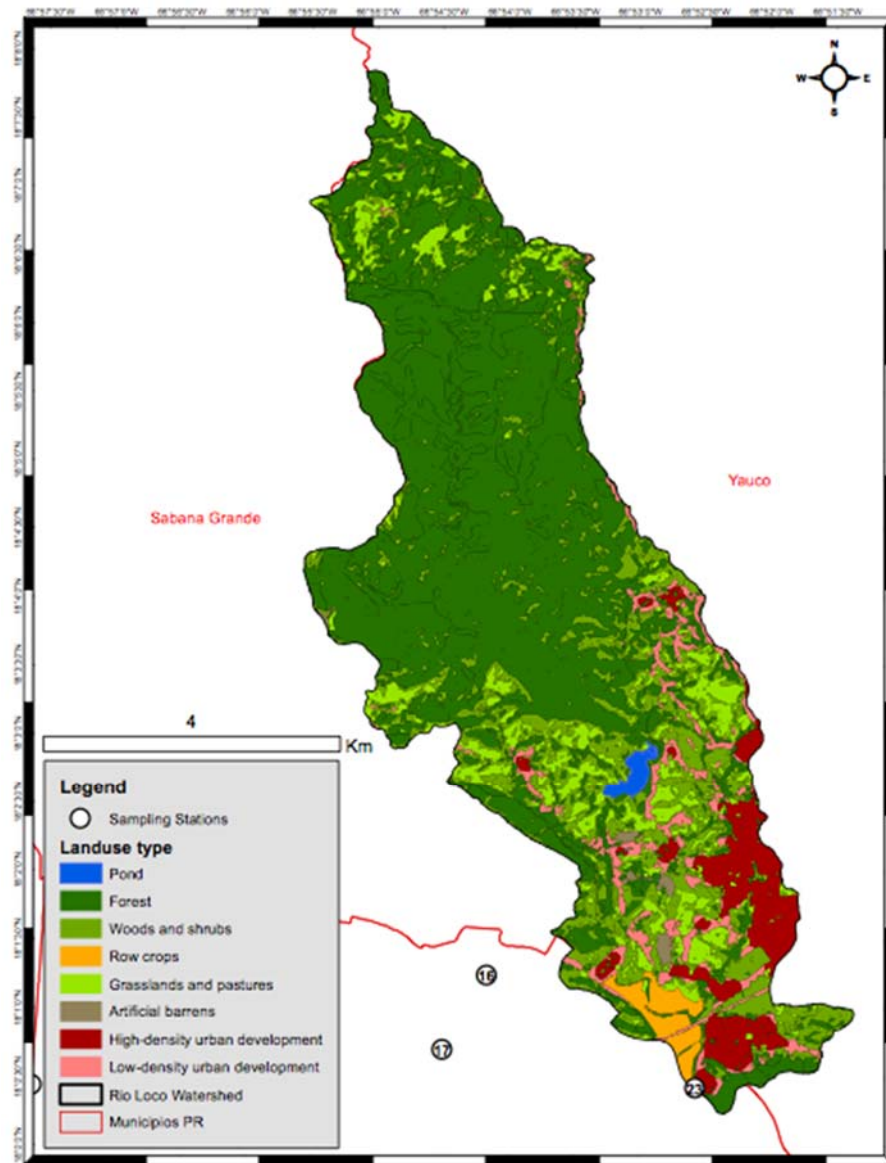


Table 2. Land use analysis of subbasins within the Lajas Valley and Río Loco watersheds. See Figure 2 for the spatial location of sites.

Station	Sub-basin Total Area (km ²)	Landuse type as percent of total sub-basin area										Important sources of fecal and nutrient contamination ¹
		Artificial barren	Forest	Grasslands & pastures	Grazed pastures	Hay	Row crops	Ponds	Urban-high density	Urban-low density	Woods & shrubs	
1	274.4	0.07	46.08	21.72	0.00	0.00	0.00	0.00	11.40	10.06	10.87	WWTP, Urban and suburban discharge
3	552.3	1.00	42.52	29.23	0.60	12.24	0.00	0.00	5.38	4.75	5.13	WWTP, Urban and suburban discharge, Grazing animals
4	979.1	0.60	32.83	17.41	0.35	9.85	1.52	0.00	17.02	7.68	12.74	WWTP, Urban and suburban discharge, Grazing animals
6	344.3	0.00	23.07	30.07	7.08	0.13	0.00	0.00	3.51	4.73	31.41	Grazing animals
7	417.4	0.07	33.90	24.04	6.63	0.10	0.00	0.00	3.36	4.12	27.78	Grazing animals
8	464.5	0.00	23.93	26.81	0.06	1.00	17.04	0.00	5.65	6.27	19.24	
10	310.6	0.00	25.48	44.58	0.00	0.00	0.00	0.00	5.51	3.96	20.47	Urban discharge
11	556.2	0.22	11.85	45.57	0.00	14.64	3.69	0.05	7.22	2.20	14.56	Animal waste
14	392.3	0.07	22.55	25.58	1.00	0.00	0.00	0.00	10.93	12.81	27.14	
15	518.2	0.05	18.06	24.91	8.34	0.00	3.32	0.05	9.93	10.43	24.91	Grazing animals, Crop fertilizer
16	169.2	1.55	23.02	13.44	0.00	0.00	6.70	0.65	19.83	3.81	31.00	
17	816.1	1.14	24.35	28.19	0.00	0.00	1.39	0.13	11.54	4.57	28.68	Crop fertilizer
18	1377.5	0.60	19.24	26.36	0.47	0.00	18.42	0.09	6.39	3.95	24.48	Crop fertilizer
23	4204.6	0.44	58.21	10.35	0.00	0.00	1.59	0.50	5.88	4.32	18.71	

¹ Important sources of fecal contamination and nutrients described are those that have been visibly corroborated.

Table 3. Number of samples analyzed or in progress to be analyzed (in parenthesis during project. NA means not analyzed.

Sampli ng incursi on	Tempe rature	Specific conduct ance	Dissolved O2	Flow	Dissolved NO3-N	TKN	Total P	Optical brighte ners	Suspended solids	Heavy metals	Entero cocci	Human bacter oidales	Cattle bacter oidales
I	19	13	19	17	18	19	19	19	18	NA	19	19	19
II	21	21	21	15	20	21	21	21	20	20	21	18	18
III	21	21	21	18	/ (21)	/ (21)	/ (21)	/ (21)	21	/ (21)	21	NA	NA

Figure 4. Summary of water quality data collected from two sampling events.

