

# SANTIAGO DEL ESTERO - LA BANDA 27-04-2021

Landfill gas production rate, k = 0,02 month-1  
 Gas Production potential, Lo = 140 m3/tonnes  
 lag time before start of gas production, lag 5 months  
 year landfill opened  
 year landfill closed 2041  
 number of production years after closure 100  
 methane (by volume) 50%  
 carbon dioxide (by volume) 50%  
 methane (density) - STP 0,7168 kg/m3  
 carbon dioxide (density) 1,80 kg/m3  
 percentage of inert material 0%  
 energy value 500 btu/ft3  
 VOC factors based on average of all landfills  
 (Boldface number indicate a required input)

Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/yr)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:	Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
ene-22	0	11.433	11.433	0	0	0	0	0	0	0	0	0	0%
feb-22	1	11.433	11.433	0	0	0	0	0	0	0	0	0	0%
mar-22	2	11.433	11.433	0	0	0	0	0	0	0	0	0	0%
abr-22	3	11.433	11.433	0	0	0	0	0	0	0	0	0	0%
may-22	4	11.433	11.433	0	0	0	0	0	0	0	0	0	0%
jun-22	5	11.433	11.433	32.012	26	11.473	28.792	10	11	241	0	0	0%
jul-22	6	11.433	11.847	63.391	52	22.719	57.014	20	23	477	0	0	0%
ago-22	7	11.433	11.847	94.148	77	33.743	84.677	29	34	709	0	0	0%
sep-22	8	11.433	11.847	124.296	102	44.548	111.792	39	45	936	0	0	0%
oct-22	9	11.433	11.847	153.847	126	55.139	138.370	48	55	1.158	0	0	0%
nov-22	10	11.433	11.847	182.813	149	65.520	164.422	57	66	1.376	0	0	0%
dic-22	11	11.433	11.847	212.365	174	76.112	191.001	66	76	1.598	0	0	0%
ene-23	12	11.847	11.847	241.332	197	86.493	217.054	75	86	1.816	17	91	5%
feb-23	13	11.847	11.847	269.724	220	96.669	242.590	84	97	2.030	19	102	5%
mar-23	14	11.847	11.847	297.555	243	106.644	267.621	92	107	2.240	21	112	5%
abr-23	15	11.847	11.847	324.835	266	116.421	292.156	101	116	2.445	23	122	5%
may-23	16	11.847	11.847	351.574	287	126.004	316.206	109	126	2.646	24	132	5%
jun-23	17	11.847	11.847	377.784	309	135.398	339.779	117	135	2.843	26	142	5%
jul-23	18	11.847	12.264	403.475	330	144.605	362.886	125	145	3.037	28	152	5%
ago-23	19	11.847	12.264	428.657	350	153.631	385.534	133	154	3.226	30	161	5%
sep-23	20	11.847	12.264	453.341	371	162.477	407.735	141	162	3.412	31	171	5%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
	oct-23	21	11.847	12.264	477.536	390	171.149	429.496	148	171	3.594	33	180	5%
	nov-23	22	11.847	12.264	501.252	410	179.649	450.826	156	180	3.773	35	189	5%
	dic-23	23	11.847	12.264	525.665	430	188.398	472.783	163	188	3.956	37	198	5%
	ene-24	24	12.264	12.264	549.596	449	196.975	494.306	171	197	4.136	76	414	10%
	feb-24	25	12.264	12.264	573.052	468	205.382	515.403	178	205	4.313	80	431	10%
	mar-24	26	12.264	12.264	596.044	487	213.622	536.082	185	214	4.486	83	449	10%
	abr-24	27	12.264	12.264	618.581	506	221.699	556.352	192	222	4.656	86	466	10%
	may-24	28	12.264	12.264	640.671	524	229.617	576.220	199	230	4.822	89	482	10%
	jun-24	29	12.264	12.264	662.324	541	237.377	595.695	206	237	4.985	92	498	10%
	jul-24	30	12.264	12.681	683.549	559	244.984	614.784	212	245	5.145	95	514	10%
	ago-24	31	12.264	12.681	704.353	576	252.440	633.495	219	252	5.301	98	530	10%
	sep-24	32	12.264	12.681	724.745	592	259.749	651.836	225	260	5.455	101	545	10%
	oct-24	33	12.264	12.681	744.733	609	266.912	669.813	231	267	5.605	103	561	10%
	nov-24	34	12.264	12.681	764.326	625	273.934	687.434	237	274	5.753	106	575	10%
	dic-24	35	12.264	12.681	784.698	641	281.236	705.757	244	281	5.906	109	591	10%
	ene-25	36	12.681	12.681	804.666	658	288.392	723.717	250	288	6.056	224	1.211	20%
	feb-25	37	12.681	12.681	824.240	674	295.408	741.321	256	295	6.204	229	1.241	20%
	mar-25	38	12.681	12.681	843.426	689	302.284	758.577	262	302	6.348	234	1.270	20%
	abr-25	39	12.681	12.681	862.231	705	309.024	775.491	268	309	6.489	240	1.298	20%
	may-25	40	12.681	12.681	880.665	720	315.630	792.070	273	316	6.628	245	1.326	20%
	jun-25	41	12.681	12.681	898.733	735	322.106	808.321	279	322	6.764	250	1.353	20%
	jul-25	42	12.681	13.095	916.444	749	328.454	824.250	285	328	6.898	255	1.380	20%
	ago-25	43	12.681	13.095	933.804	763	334.675	839.863	290	335	7.028	259	1.406	20%
	sep-25	44	12.681	13.095	950.820	777	340.774	855.168	295	341	7.156	264	1.431	20%
	oct-25	45	12.681	13.095	967.500	791	346.752	870.169	300	347	7.282	269	1.456	20%
	nov-25	46	12.681	13.095	983.849	804	352.611	884.874	305	353	7.405	273	1.481	20%
	dic-25	47	12.681	13.095	1.001.033	818	358.770	900.329	311	359	7.534	278	1.507	20%
	ene-26	48	13.095	13.095	1.017.877	832	364.807	915.479	316	365	7.661	353	1.915	25%
	feb-26	49	13.095	13.095	1.034.388	845	370.725	930.329	321	371	7.785	359	1.946	25%
	mar-26	50	13.095	13.095	1.050.572	859	376.525	944.884	326	377	7.907	365	1.977	25%
	abr-26	51	13.095	13.095	1.066.435	872	382.210	959.152	331	382	8.026	370	2.007	25%
	may-26	52	13.095	13.095	1.081.984	884	387.783	973.137	336	388	8.143	376	2.036	25%
	jun-26	53	13.095	13.095	1.097.225	897	393.246	986.845	341	393	8.258	381	2.065	25%
	jul-26	54	13.095	13.626	1.112.165	909	398.600	1.000.281	345	399	8.371	386	2.093	25%
	ago-26	55	13.095	13.626	1.126.809	921	403.848	1.013.452	350	404	8.481	391	2.120	25%
	sep-26	56	13.095	13.626	1.141.162	933	408.993	1.026.361	354	409	8.589	396	2.147	25%
	oct-26	57	13.095	13.626	1.155.232	944	414.035	1.039.015	359	414	8.695	401	2.174	25%
	nov-26	58	13.095	13.626	1.169.023	956	418.978	1.051.419	363	419	8.799	406	2.200	25%
	dic-26	59	13.095	13.626	1.184.027	968	424.355	1.064.914	368	424	8.911	411	2.228	25%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
	ene-27	60	13.626	13.626	1.198.735	980	429.627	1.078.142	372	430	9.022	416	2.256	25%
	feb-27	61	13.626	13.626	1.213.151	992	434.793	1.091.108	377	435	9.131	421	2.283	25%
	mar-27	62	13.626	13.626	1.227.282	1.003	439.858	1.103.817	381	440	9.237	426	2.309	25%
	abr-27	63	13.626	13.626	1.241.133	1.014	444.822	1.116.275	385	445	9.341	431	2.335	25%
	may-27	64	13.626	13.626	1.254.710	1.026	449.688	1.128.486	390	450	9.443	436	2.361	25%
	jun-27	65	13.626	13.626	1.268.017	1.036	454.457	1.140.455	394	454	9.544	440	2.386	25%
	jul-27	66	13.626	14.133	1.281.062	1.047	459.132	1.152.187	398	459	9.642	445	2.410	25%
	ago-27	67	13.626	14.133	1.293.848	1.058	463.715	1.163.687	402	464	9.738	449	2.435	25%
	sep-27	68	13.626	14.133	1.306.381	1.068	468.207	1.174.959	406	468	9.832	454	2.458	25%
	oct-27	69	13.626	14.133	1.318.665	1.078	472.610	1.186.008	409	473	9.925	458	2.481	25%
	nov-27	70	13.626	14.133	1.330.707	1.088	476.925	1.196.838	413	477	10.015	462	2.504	25%
	dic-27	71	13.626	14.133	1.343.930	1.098	481.664	1.208.730	417	482	10.115	467	2.529	25%
	ene-28	72	14.133	14.133	1.356.890	1.109	486.310	1.220.387	421	486	10.212	471	2.553	25%
	feb-28	73	14.133	14.133	1.369.595	1.119	490.863	1.231.813	425	491	10.308	476	2.577	25%
	mar-28	74	14.133	14.133	1.382.047	1.130	495.326	1.243.013	429	495	10.402	480	2.600	25%
	abr-28	75	14.133	14.133	1.394.253	1.140	499.700	1.253.991	433	500	10.494	484	2.623	25%
	may-28	76	14.133	14.133	1.406.217	1.149	503.988	1.264.752	437	504	10.584	488	2.646	25%
	jun-28	77	14.133	14.133	1.417.945	1.159	508.191	1.275.300	440	508	10.672	492	2.668	25%
	jul-28	78	14.133	14.613	1.429.440	1.168	512.311	1.285.638	444	512	10.759	496	2.690	25%
	ago-28	79	14.133	14.613	1.440.708	1.178	516.350	1.295.772	447	516	10.843	500	2.711	25%
	sep-28	80	14.133	14.613	1.451.752	1.187	520.308	1.305.706	451	520	10.926	504	2.732	25%
	oct-28	81	14.133	14.613	1.462.578	1.195	524.188	1.315.443	454	524	11.008	508	2.752	25%
	nov-28	82	14.133	14.613	1.473.190	1.204	527.991	1.324.987	457	528	11.088	512	2.772	25%
	dic-28	83	14.133	14.613	1.484.935	1.214	532.201	1.335.550	461	532	11.176	516	2.794	25%
	ene-29	84	14.613	14.613	1.496.448	1.223	536.327	1.345.905	465	536	11.263	520	2.816	25%
	feb-29	85	14.613	14.613	1.507.732	1.232	540.371	1.356.054	468	540	11.348	524	2.837	25%
	mar-29	86	14.613	14.613	1.518.794	1.241	544.336	1.366.003	472	544	11.431	527	2.858	25%
	abr-29	87	14.613	14.613	1.529.636	1.250	548.221	1.375.755	475	548	11.513	531	2.878	25%
	may-29	88	14.613	14.613	1.540.263	1.259	552.030	1.385.313	478	552	11.593	535	2.898	25%
	jun-29	89	14.613	14.613	1.550.681	1.267	555.764	1.394.682	481	556	11.671	538	2.918	25%
	jul-29	90	14.613	15.063	1.560.891	1.276	559.423	1.403.866	485	559	11.748	542	2.937	25%
	ago-29	91	14.613	15.063	1.570.900	1.284	563.011	1.412.868	488	563	11.823	545	2.956	25%
	sep-29	92	14.613	15.063	1.580.711	1.292	566.527	1.421.691	491	567	11.897	549	2.974	25%
	oct-29	93	14.613	15.063	1.590.327	1.300	569.973	1.430.340	494	570	11.969	552	2.992	25%
	nov-29	94	14.613	15.063	1.599.753	1.308	573.351	1.438.818	497	573	12.040	555	3.010	25%
	dic-29	95	14.613	15.063	1.610.252	1.316	577.114	1.448.260	500	577	12.119	559	3.030	25%
	ene-30	96	15.063	15.063	1.620.543	1.325	580.803	1.457.516	503	581	12.197	563	3.049	25%
	feb-30	97	15.063	15.063	1.630.631	1.333	584.418	1.466.589	506	584	12.273	566	3.068	25%
	mar-30	98	15.063	15.063	1.640.518	1.341	587.962	1.475.482	509	588	12.347	570	3.087	25%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
abr-30	99		15.063	15.063	1.650.211	1.349	591.435	1.484.199	512	591	12.420	573	3.105	25%
may-30	100		15.063	15.063	1.659.710	1.357	594.840	1.492.744	515	595	12.492	576	3.123	25%
jun-30	101		15.063	15.063	1.669.022	1.364	598.178	1.501.119	518	598	12.562	580	3.140	25%
jul-30	102		15.063	15.477	1.678.150	1.372	601.449	1.509.328	521	601	12.630	583	3.158	25%
ago-30	103		15.063	15.477	1.687.097	1.379	604.655	1.517.375	524	605	12.698	586	3.174	25%
sep-30	104		15.063	15.477	1.695.867	1.386	607.799	1.525.262	526	608	12.764	589	3.191	25%
oct-30	105		15.063	15.477	1.704.462	1.393	610.879	1.532.993	529	611	12.828	592	3.207	25%
nov-30	106		15.063	15.477	1.712.888	1.400	613.899	1.540.572	532	614	12.892	595	3.223	25%
dic-30	107		15.063	15.477	1.722.306	1.408	617.275	1.549.042	535	617	12.963	598	3.241	25%
ene-31	108		15.477	15.477	1.731.538	1.415	620.583	1.557.345	538	621	13.032	601	3.258	25%
feb-31	109		15.477	15.477	1.740.587	1.423	623.826	1.565.484	540	624	13.100	604	3.275	25%
mar-31	110		15.477	15.477	1.749.456	1.430	627.005	1.573.461	543	627	13.167	607	3.292	25%
abr-31	111		15.477	15.477	1.758.150	1.437	630.121	1.581.280	546	630	13.233	610	3.308	25%
may-31	112		15.477	15.477	1.766.672	1.444	633.175	1.588.945	548	633	13.297	613	3.324	25%
jun-31	113		15.477	15.477	1.775.025	1.451	636.169	1.596.458	551	636	13.360	616	3.340	25%
jul-31	114		15.477	15.693	1.783.213	1.458	639.104	1.603.822	554	639	13.421	619	3.355	25%
ago-31	115		15.477	15.693	1.791.239	1.464	641.980	1.611.040	556	642	13.482	622	3.370	25%
sep-31	116		15.477	15.693	1.799.105	1.471	644.799	1.618.115	559	645	13.541	625	3.385	25%
oct-31	117		15.477	15.693	1.806.816	1.477	647.563	1.625.050	561	648	13.599	627	3.400	25%
nov-31	118		15.477	15.693	1.814.374	1.483	650.272	1.631.848	563	650	13.656	630	3.414	25%
dic-31	119		15.477	15.693	1.822.388	1.490	653.144	1.639.055	566	653	13.716	633	3.429	25%
ene-32	120		15.693	15.693	1.830.243	1.496	655.959	1.646.120	568	656	13.775	636	3.444	25%
feb-32	121		15.693	15.693	1.837.942	1.502	658.718	1.653.045	571	659	13.833	638	3.458	25%
mar-32	122		15.693	15.693	1.845.489	1.508	661.423	1.659.832	573	661	13.890	641	3.472	25%
abr-32	123		15.693	15.693	1.852.886	1.514	664.074	1.666.486	575	664	13.946	643	3.486	25%
may-32	124		15.693	15.693	1.860.137	1.520	666.673	1.673.007	577	667	14.000	646	3.500	25%
jun-32	125		15.693	15.693	1.867.244	1.526	669.220	1.679.399	580	669	14.054	648	3.513	25%
jul-32	126		15.693	15.906	1.874.210	1.532	671.717	1.685.665	582	672	14.106	651	3.527	25%
ago-32	127		15.693	15.906	1.881.039	1.537	674.164	1.691.806	584	674	14.157	653	3.539	25%
sep-32	128		15.693	15.906	1.887.733	1.543	676.563	1.697.827	586	677	14.208	655	3.552	25%
oct-32	129		15.693	15.906	1.894.293	1.548	678.915	1.703.727	588	679	14.257	658	3.564	25%
nov-32	130		15.693	15.906	1.900.724	1.554	681.219	1.709.511	590	681	14.306	660	3.576	25%
dic-32	131		15.693	15.906	1.907.624	1.559	683.692	1.715.717	592	684	14.358	662	3.589	25%
ene-33	132		15.906	15.906	1.914.387	1.565	686.116	1.721.800	594	686	14.408	665	3.602	25%
feb-33	133		15.906	15.906	1.921.017	1.570	688.492	1.727.762	596	688	14.458	667	3.615	25%
mar-33	134		15.906	15.906	1.927.515	1.575	690.821	1.733.607	598	691	14.507	669	3.627	25%
abr-33	135		15.906	15.906	1.933.884	1.581	693.104	1.739.335	600	693	14.555	671	3.639	25%
may-33	136		15.906	15.906	1.940.127	1.586	695.342	1.744.951	602	695	14.602	674	3.651	25%
jun-33	137		15.906	15.906	1.946.247	1.591	697.535	1.750.455	604	698	14.648	676	3.662	25%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
	jul-33	138	15.906	16.119	1.952.246	1.596	699.685	1.755.850	606	700	14.693	678	3.673	25%
	ago-33	139	15.906	16.119	1.958.125	1.600	701.792	1.761.138	608	702	14.738	680	3.684	25%
	sep-33	140	15.906	16.119	1.963.889	1.605	703.858	1.766.321	610	704	14.781	682	3.695	25%
	oct-33	141	15.906	16.119	1.969.538	1.610	705.882	1.771.402	611	706	14.824	684	3.706	25%
	nov-33	142	15.906	16.119	1.975.075	1.614	707.867	1.776.383	613	708	14.865	686	3.716	25%
	dic-33	143	15.906	16.119	1.981.099	1.619	710.026	1.781.801	615	710	14.911	688	3.728	25%
	ene-34	144	16.119	16.119	1.987.004	1.624	712.142	1.787.111	617	712	14.955	690	3.739	25%
	feb-34	145	16.119	16.119	1.992.792	1.629	714.217	1.792.317	619	714	14.999	692	3.750	25%
	mar-34	146	16.119	16.119	1.998.465	1.633	716.250	1.797.420	620	716	15.041	694	3.760	25%
	abr-34	147	16.119	16.119	2.004.026	1.638	718.243	1.802.421	622	718	15.083	696	3.771	25%
	may-34	148	16.119	16.119	2.009.477	1.642	720.197	1.807.324	624	720	15.124	698	3.781	25%
	jun-34	149	16.119	16.119	2.014.820	1.647	722.112	1.812.129	626	722	15.164	700	3.791	25%
	jul-34	150	16.119	16.329	2.020.057	1.651	723.989	1.816.839	627	724	15.204	701	3.801	25%
	ago-34	151	16.119	16.329	2.025.191	1.655	725.828	1.821.457	629	726	15.242	703	3.811	25%
	sep-34	152	16.119	16.329	2.030.222	1.659	727.632	1.825.982	630	728	15.280	705	3.820	25%
	oct-34	153	16.119	16.329	2.035.154	1.663	729.399	1.830.418	632	729	15.317	707	3.829	25%
	nov-34	154	16.119	16.329	2.039.989	1.667	731.132	1.834.766	633	731	15.354	708	3.838	25%
	dic-34	155	16.119	16.329	2.045.315	1.672	733.041	1.839.557	635	733	15.394	710	3.848	25%
	ene-35	156	16.329	16.329	2.050.537	1.676	734.912	1.844.253	637	735	15.433	712	3.858	25%
	feb-35	157	16.329	16.329	2.055.655	1.680	736.747	1.848.856	638	737	15.472	714	3.868	25%
	mar-35	158	16.329	16.329	2.060.671	1.684	738.544	1.853.367	640	739	15.509	716	3.877	25%
	abr-35	159	16.329	16.329	2.065.588	1.688	740.307	1.857.790	641	740	15.546	717	3.887	25%
	may-35	160	16.329	16.329	2.070.408	1.692	742.034	1.862.125	643	742	15.583	719	3.896	25%
	jun-35	161	16.329	16.329	2.075.133	1.696	743.728	1.866.374	644	744	15.618	721	3.905	25%
	jul-35	162	16.329	16.539	2.079.763	1.700	745.387	1.870.539	646	745	15.653	722	3.913	25%
	ago-35	163	16.329	16.539	2.084.303	1.704	747.014	1.874.622	647	747	15.687	724	3.922	25%
	sep-35	164	16.329	16.539	2.088.752	1.707	748.609	1.878.623	648	749	15.721	725	3.930	25%
	oct-35	165	16.329	16.539	2.093.113	1.711	750.172	1.882.546	650	750	15.754	727	3.938	25%
	nov-35	166	16.329	16.539	2.097.388	1.714	751.704	1.886.391	651	752	15.786	728	3.946	25%
	dic-35	167	16.329	16.539	2.102.166	1.718	753.416	1.890.688	653	753	15.822	730	3.955	25%
	ene-36	168	16.539	16.539	2.106.849	1.722	755.095	1.894.900	654	755	15.857	732	3.964	25%
	feb-36	169	16.539	16.539	2.111.441	1.726	756.740	1.899.030	655	757	15.892	733	3.973	25%
	mar-36	170	16.539	16.539	2.115.940	1.729	758.353	1.903.076	657	758	15.925	735	3.981	25%
	abr-36	171	16.539	16.539	2.120.351	1.733	759.934	1.907.043	658	760	15.959	736	3.990	25%
	may-36	172	16.539	16.539	2.124.674	1.737	761.483	1.910.932	660	761	15.991	738	3.998	25%
	jun-36	173	16.539	16.539	2.128.912	1.740	763.002	1.914.743	661	763	16.023	739	4.006	25%
	jul-36	174	16.539	16.896	2.133.066	1.743	764.491	1.918.479	662	764	16.054	741	4.014	25%
	ago-36	175	16.539	16.896	2.137.138	1.747	765.950	1.922.141	663	766	16.085	742	4.021	25%
	sep-36	176	16.539	16.896	2.141.129	1.750	767.381	1.925.731	665	767	16.115	743	4.029	25%

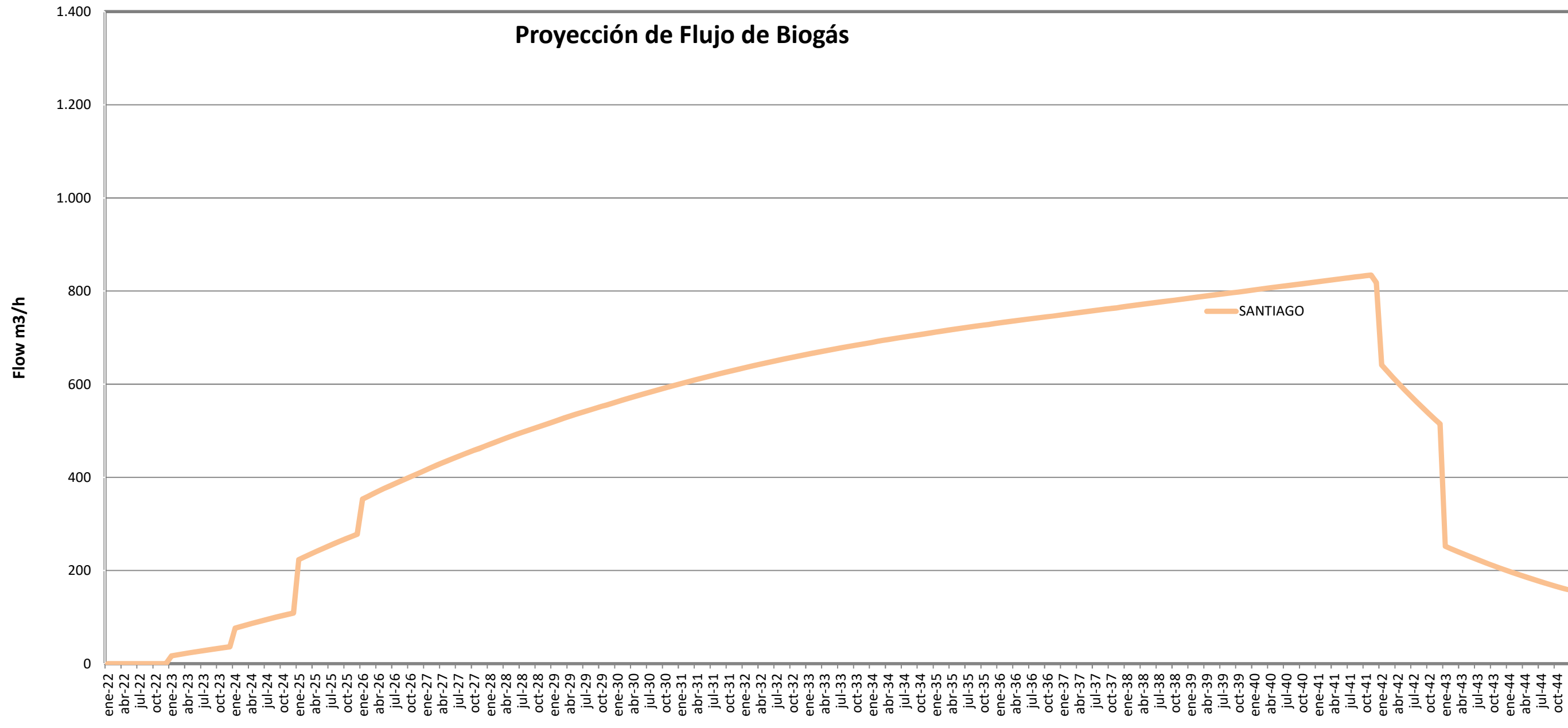
	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/yr)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
oct-36	177		16.539	16.896	2.145.041	1.753	768.783	1.929.250	666	769	16.144	745	4.036	25%
nov-36	178		16.539	16.896	2.148.875	1.756	770.157	1.932.698	667	770	16.173	746	4.043	25%
dic-36	179		16.539	16.896	2.153.634	1.760	771.862	1.936.978	669	772	16.209	748	4.052	25%
ene-37	180		16.896	16.896	2.158.298	1.764	773.534	1.941.173	670	774	16.244	749	4.061	25%
feb-37	181		16.896	16.896	2.162.869	1.768	775.172	1.945.285	671	775	16.279	751	4.070	25%
mar-37	182		16.896	16.896	2.167.351	1.772	776.778	1.949.315	673	777	16.312	753	4.078	25%
abr-37	183		16.896	16.896	2.171.743	1.775	778.353	1.953.265	674	778	16.345	754	4.086	25%
may-37	184		16.896	16.896	2.176.048	1.779	779.896	1.957.138	676	780	16.378	756	4.094	25%
jun-37	185		16.896	16.896	2.180.269	1.782	781.408	1.960.933	677	781	16.410	757	4.102	25%
jul-37	186		16.896	17.253	2.184.405	1.785	782.891	1.964.654	678	783	16.441	758	4.110	25%
ago-37	187		16.896	17.253	2.188.460	1.789	784.344	1.968.301	679	784	16.471	760	4.118	25%
sep-37	188		16.896	17.253	2.192.434	1.792	785.768	1.971.875	681	786	16.501	761	4.125	25%
oct-37	189		16.896	17.253	2.196.330	1.795	787.164	1.975.379	682	787	16.530	763	4.133	25%
nov-37	190		16.896	17.253	2.200.148	1.798	788.533	1.978.813	683	789	16.559	764	4.140	25%
dic-37	191		16.896	17.253	2.204.891	1.802	790.233	1.983.079	685	790	16.595	766	4.149	25%
ene-38	192		17.253	17.253	2.209.540	1.806	791.899	1.987.260	686	792	16.630	767	4.157	25%
feb-38	193		17.253	17.253	2.214.096	1.810	793.532	1.991.358	687	794	16.664	769	4.166	25%
mar-38	194		17.253	17.253	2.218.563	1.813	795.133	1.995.375	689	795	16.698	770	4.174	25%
abr-38	195		17.253	17.253	2.222.941	1.817	796.702	1.999.313	690	797	16.731	772	4.183	25%
may-38	196		17.253	17.253	2.227.232	1.820	798.240	2.003.172	691	798	16.763	773	4.191	25%
jun-38	197		17.253	17.253	2.231.438	1.824	799.747	2.006.955	693	800	16.795	775	4.199	25%
jul-38	198		17.253	17.604	2.235.561	1.827	801.225	2.010.664	694	801	16.826	776	4.206	25%
ago-38	199		17.253	17.604	2.239.602	1.831	802.673	2.014.298	695	803	16.856	778	4.214	25%
sep-38	200		17.253	17.604	2.243.564	1.834	804.093	2.017.861	697	804	16.886	779	4.221	25%
oct-38	201		17.253	17.604	2.247.447	1.837	805.485	2.021.354	698	805	16.915	780	4.229	25%
nov-38	202		17.253	17.604	2.251.253	1.840	806.849	2.024.776	699	807	16.944	782	4.236	25%
dic-38	203		17.253	17.604	2.255.966	1.844	808.538	2.029.016	700	809	16.979	783	4.245	25%
ene-39	204		17.604	17.604	2.260.586	1.848	810.194	2.033.171	702	810	17.014	785	4.254	25%
feb-39	205		17.604	17.604	2.265.115	1.851	811.817	2.037.244	703	812	17.048	786	4.262	25%
mar-39	206		17.604	17.604	2.269.554	1.855	813.408	2.041.236	705	813	17.082	788	4.270	25%
abr-39	207		17.604	17.604	2.273.905	1.859	814.967	2.045.150	706	815	17.114	790	4.279	25%
may-39	208		17.604	17.604	2.278.169	1.862	816.496	2.048.985	707	816	17.146	791	4.287	25%
jun-39	209		17.604	17.604	2.282.350	1.866	817.994	2.052.745	709	818	17.178	792	4.294	25%
jul-39	210		17.604	17.952	2.286.448	1.869	819.463	2.056.431	710	819	17.209	794	4.302	25%
ago-39	211		17.604	17.952	2.290.464	1.872	820.902	2.060.044	711	821	17.239	795	4.310	25%
sep-39	212		17.604	17.952	2.294.401	1.875	822.313	2.063.584	712	822	17.269	797	4.317	25%
oct-39	213		17.604	17.952	2.298.260	1.879	823.696	2.067.055	713	824	17.298	798	4.324	25%
nov-39	214		17.604	17.952	2.302.043	1.882	825.052	2.070.457	715	825	17.326	799	4.332	25%
dic-39	215		17.604	17.952	2.306.725	1.885	826.730	2.074.668	716	827	17.361	801	4.340	25%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
ene-40	216		17.952	17.952	2.311.314	1.889	828.375	2.078.796	718	828	17.396	803	4.349	25%
feb-40	217		17.952	17.952	2.315.813	1.893	829.987	2.082.842	719	830	17.430	804	4.357	25%
mar-40	218		17.952	17.952	2.320.222	1.896	831.568	2.086.808	720	832	17.463	806	4.366	25%
abr-40	219		17.952	17.952	2.324.544	1.900	833.116	2.090.695	722	833	17.495	807	4.374	25%
may-40	220		17.952	17.952	2.328.780	1.903	834.635	2.094.505	723	835	17.527	809	4.382	25%
jun-40	221		17.952	17.952	2.332.933	1.907	836.123	2.098.240	724	836	17.559	810	4.390	25%
jul-40	222		17.952	18.297	2.337.003	1.910	837.582	2.101.901	726	838	17.589	811	4.397	25%
ago-40	223		17.952	18.297	2.340.993	1.913	839.012	2.105.489	727	839	17.619	813	4.405	25%
sep-40	224		17.952	18.297	2.344.904	1.917	840.414	2.109.006	728	840	17.649	814	4.412	25%
oct-40	225		17.952	18.297	2.348.737	1.920	841.787	2.112.454	729	842	17.678	816	4.419	25%
nov-40	226		17.952	18.297	2.352.495	1.923	843.134	2.115.834	730	843	17.706	817	4.426	25%
dic-40	227		17.952	18.297	2.357.144	1.927	844.800	2.120.015	732	845	17.741	818	4.435	25%
ene-41	228		18.297	18.297	2.361.701	1.930	846.434	2.124.114	733	846	17.775	820	4.444	25%
feb-41	229		18.297	18.297	2.366.168	1.934	848.035	2.128.131	735	848	17.809	822	4.452	25%
mar-41	230		18.297	18.297	2.370.546	1.938	849.604	2.132.069	736	850	17.842	823	4.460	25%
abr-41	231		18.297	18.297	2.374.838	1.941	851.142	2.135.929	737	851	17.874	825	4.468	25%
may-41	232		18.297	18.297	2.379.045	1.945	852.650	2.139.713	739	853	17.906	826	4.476	25%
jun-41	233		18.297	18.297	2.383.168	1.948	854.128	2.143.422	740	854	17.937	827	4.484	25%
jul-41	234		18.297	0	2.387.210	1.951	855.576	2.147.057	741	856	17.967	829	4.492	25%
ago-41	235		18.297	0	2.391.172	1.954	856.996	2.150.620	742	857	17.997	830	4.499	25%
sep-41	236		18.297	0	2.395.055	1.958	858.388	2.154.112	744	858	18.026	832	4.507	25%
oct-41	237		18.297	0	2.398.861	1.961	859.752	2.157.536	745	860	18.055	833	4.514	25%
nov-41	238		18.297	0	2.402.592	1.964	861.089	2.160.891	746	861	18.083	834	4.521	25%
dic-41	239		18.297	0	2.355.018	1.925	844.038	2.118.103	731	844	17.725	818	4.431	25%
ene-42	240		0	0	2.308.385	1.887	827.325	2.076.161	717	827	17.374	641	3.475	20%
feb-42	241		0	0	2.262.676	1.849	810.943	2.035.051	702	811	17.030	629	3.406	20%
mar-42	242		0	0	2.217.872	1.813	794.885	1.994.754	689	795	16.693	616	3.339	20%
abr-42	243		0	0	2.173.955	1.777	779.146	1.955.255	675	779	16.362	604	3.272	20%
may-42	244		0	0	2.130.908	1.742	763.717	1.916.539	662	764	16.038	592	3.208	20%
jun-42	245		0	0	2.088.713	1.707	748.595	1.878.589	648	749	15.720	580	3.144	20%
jul-42	246		0	0	2.047.354	1.673	733.772	1.841.390	636	734	15.409	569	3.082	20%
ago-42	247		0	0	2.006.814	1.640	719.242	1.804.928	623	719	15.104	557	3.021	20%
sep-42	248		0	0	1.967.076	1.608	705.000	1.769.188	611	705	14.805	546	2.961	20%
oct-42	249		0	0	1.928.125	1.576	691.040	1.734.156	599	691	14.512	536	2.902	20%
nov-42	250		0	0	1.889.946	1.545	677.356	1.699.817	587	677	14.224	525	2.845	20%
dic-42	251		0	0	1.852.522	1.514	663.944	1.666.158	575	664	13.943	515	2.789	20%
ene-43	252		0	0	1.815.840	1.484	650.797	1.633.166	564	651	13.667	252	1.367	10%
feb-43	253		0	0	1.779.884	1.455	637.910	1.600.827	553	638	13.396	247	1.340	10%
mar-43	254		0	0	1.744.640	1.426	625.279	1.569.129	542	625	13.131	242	1.313	10%

	Year	Year Number	Annual Tonnage (Tonnes)	Annual Decomposable Tonnage (Tonnes)	Annual Gas Production (m3/mo.)	Annual Gas Production (cfm)	Annual Methane Production (kg/mo)	Annual Carbon Dioxide Production (kg/mo)	Annual Energy Value (GJ/day)	Annual Methane Emissions (tonnes CH4/yr)	Annual Methane as eCO2 (tonnes/mo)	Annual Gas Collected (m3/hr)	Annual Methane as CO2e (tonnes/mo)	Collection Efficiency
Peak:		Total:	1.511.232	1.511.232	1.722.306	1.408	617.275	1.549.042	535	617	12.963	834	3.241	
	abr-43	255	0	0	1.710.094	1.398	612.898	1.538.058	531	613	12.871	238	1.287	10%
	may-43	256	0	0	1.676.231	1.370	600.761	1.507.602	520	601	12.616	233	1.262	10%
	jun-43	257	0	0	1.643.040	1.343	588.865	1.477.750	510	589	12.366	228	1.237	10%
	jul-43	258	0	0	1.610.505	1.316	577.205	1.448.489	500	577	12.121	224	1.212	10%
	ago-43	259	0	0	1.578.615	1.290	565.776	1.419.806	490	566	11.881	219	1.188	10%
	sep-43	260	0	0	1.547.357	1.265	554.573	1.391.692	480	555	11.646	215	1.165	10%
	oct-43	261	0	0	1.516.717	1.240	543.591	1.364.135	471	544	11.415	211	1.142	10%
	nov-43	262	0	0	1.486.684	1.215	532.828	1.337.123	462	533	11.189	206	1.119	10%
	dic-43	263	0	0	1.457.246	1.191	522.277	1.310.647	452	522	10.968	202	1.097	10%
	ene-44	264	0	0	1.428.390	1.168	511.935	1.284.694	443	512	10.751	198	1.075	10%
	feb-44	265	0	0	1.400.106	1.144	501.798	1.259.255	435	502	10.538	194	1.054	10%
	mar-44	266	0	0	1.372.382	1.122	491.862	1.234.321	426	492	10.329	191	1.033	10%
	abr-44	267	0	0	1.345.207	1.100	482.122	1.209.879	418	482	10.125	187	1.012	10%
	may-44	268	0	0	1.318.570	1.078	472.576	1.185.922	409	473	9.924	183	992	10%
	jun-44	269	0	0	1.292.461	1.056	463.218	1.162.439	401	463	9.728	180	973	10%
	jul-44	270	0	0	1.266.868	1.035	454.046	1.139.421	393	454	9.535	176	953	10%
	ago-44	271	0	0	1.241.783	1.015	445.055	1.116.859	386	445	9.346	172	935	10%
	sep-44	272	0	0	1.217.194	995	436.242	1.094.744	378	436	9.161	169	916	10%
	oct-44	273	0	0	1.193.092	975	427.604	1.073.067	370	428	8.980	166	898	10%
	nov-44	274	0	0	1.169.467	956	419.137	1.051.819	363	419	8.802	162	880	10%
	dic-44	275	0	0	1.146.310	937	410.838	1.030.991	356	411	8.628	159	863	10%



### Proyección de Flujo de Biogás





República Argentina - Poder Ejecutivo Nacional  
Las Malvinas son argentinas

**Hoja Adicional de Firmas**  
**Informe gráfico**

**Número:**

**Referencia:** EX-2020-14137079- -APN-DRIMAD#SGP .- Construcción de Centros de Disposición Final de RSU y/o Obras Accesorios en La Banda, Santiago del Estero.-Anexo 5.3.6 (ACT 2.9) Modelizacion Biogas Santiago v2.0

---

El documento fue importado por el sistema GEDO con un total de 9 pagina/s.