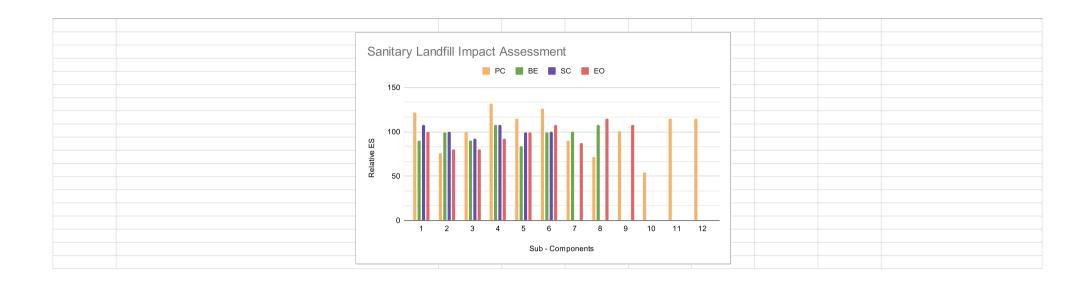
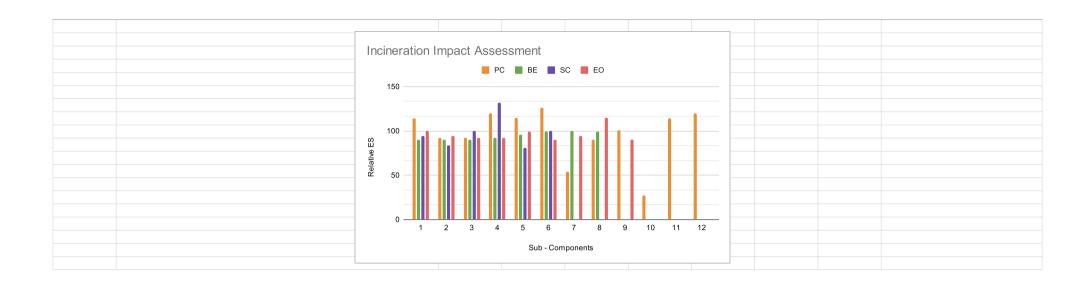
Code	Description	A 1	A2	B1	B2	В3	ES	Relative ES	Susceptibility Performance Description	
PC	Physical - Chemical									
1	Municipal solid waste disposal	1	2	2	2	2	12	120	+B	
2	Leaching from the existing municipal solid waste dumpsites.	1	-2	2	3	3	-16	92	-B	
3	Collection of leachates in drainage system.	1	-1	2	3	3	-8	100	-A	
4	Leachate of municipal solid wastes is treated and reused.	0	0	1	1	1	0	108	N	
5	Reused and treated leachate discharged to municipal sewage treatment plant.	0	0	1	1	1	0	108	N	
6	Facilities for municipal solid waste treatment and recycling.	0	0	1	1	1	0	108	N	
7	Cases of gaseous emission and sampling for estimation of volatile organic compound.	2	-2	3	3	3	-36	72	-D	
8	Leaching to the ground water.	2	-3	3	3	3	-54	54	-D	
9	Regular odour monitoring.	1	-1	2	2	3	-7	101	-A	
10	Greenhouse gases and other than greenhouse gas load reduced in flue gas.	3	-2	3	3	3	-54	54	-D	
11	Methods for recovery of these gases.	0	0	1	1	1	0	108	N	
12	Separation of different fractions of municipal solid waste is done before dumping.	0	0	1	1	1	0	108	N	
				Total E	S = -163			Mean	Relative ES = 94.416666666667	
BE	Biological - Ecological									
1	Effect in the water table by diffuse leaching.	2	-3	3	3	3	-54	54	-D	
2	Effect on soil.	1	-2	3	3	3	-18	90	-B	
3	Effect on ecosystem.	2	-2	3	3	3	-36	72	-D	
4	Default lists of impact categories for life cycle assessment.	2	-1	3	3	2	-16	92	-B	
5	Direct, indirect and avoided burdens of municipal solid wastes dumpsites.	2	0	2	2	2	0	108	N	
6	Effects of decomposition of wastes.	1	-1	3	3	3	-9	99	-A	
7	Soil erosion and excess runoff.	1	-1	2	3	3	-8	100	-A	
8	Important risks of open dumping.	1	-2	3	3	3	-18	90	-B	
				Total E	S = -159				Mean Relative ES = 88.125	
SC	Socio - Cultural									
1	Residential colonies present in the dumping sites.	1	-3	2	2	3	-21	87	-C	
2	Problems people generally face from the dust	1	-2	2	3	3	-16	92	-B	
3	Problems people face from the noise.	1	-1	2	3	3	-8	100	-A	
4	Incinerated ash of municipal solid wastes is recycled and reused.	0	0	1	1	1	0	108	N	
5	Impacts of volatile organic compounds on local people.	1	-3	3	3	3	-27	81	-C	
6	Problems from odour of municipal solid wastes.	1	-1	2	3	3	-8	100	-A	
				Total E	S = -80			Mean	Relative ES = 94.666666666667	
EO	Economic - Operational									
1	Construction cost of smaller embankments within dumped sites.	0	0	1	1	1	0	108	N	
2	Costs for the collection of leachates.	0	0	1	1	1	0	108	N	
3	Costs (savings) by use of leachate in desulphurisation plants.	0	0	1	1	1	0	108	N	
4	Costs of treatment plants for removal of heavy metals.	0	0	1	1	1	0	108	N	
5	Costs for analysis of monitoring and sampling of municipal solid wastes.	1	-1	3	3	3	-9	99	-A	
6	Operating and running costs of incineration plants.	0	0	1	1	1	0	108	N	
7	Costs involved in recycling and reuse of municipal solid wastes.	1	-1	2	2	3	-7	101	-A	
8	Revenues from recycled and reused municipal solid waste.	1	1	2	2	3	7	115	+A	
9	Costs involved during the process of dumping to private land.	2	-1	3	3	3	-18	90	-B	
				Total E	S = -27				Mean Relative ES = 105	

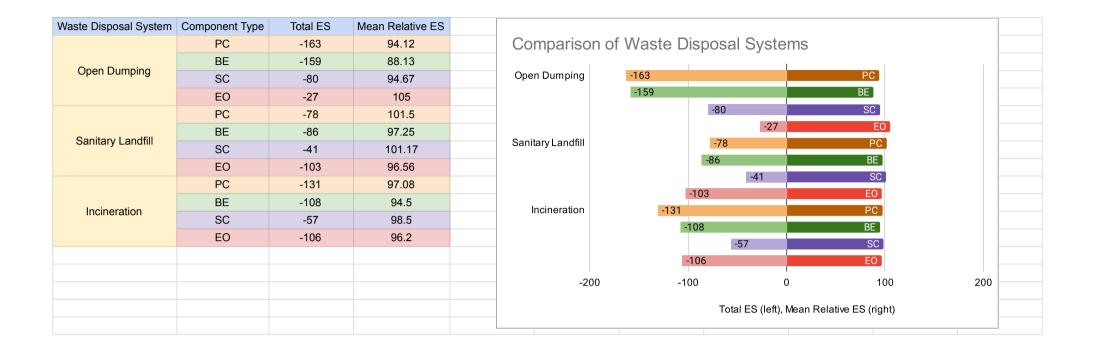


Code	Description	A 1	A2	B1	B2	В3	ES	Relative ES	Susceptibility Performance Description	
PC	Physical - Chemical									
1	Municipal solid waste disposal	1	2	3	2	2	14	122	+B	
2	Leaching from the existing municipal solid waste dumpsites.	2	-2	2	3	3	-32	76	-C	
3	Collection of leachates in drainage system.	1	-1	2	3	3	-8	100	-A	
4	Leachate of municipal solid wastes is treated and reused.	1	3	2	3	3	24	132	+C	
5	Reused and treated leachate discharged to municipal sewage treatment plant.	1	1	2	3	2	7	115	+A	
6	Facilities for municipal solid waste treatment and recycling.	1	2	3	3	3	18	126	+B	
7	Cases of gaseous emission and sampling for estimation of volatile organic compound.	2	-1	3	3	3	-18	90	-В	
8	Leaching to the ground water.	2	-2	3	3	3	-36	72	-D	
9	Regular odour monitoring.	1	-1	2	2	3	-7	101	-A	
10	Greenhouse gases and other than greenhouse gas load reduced in flue gas.	3	-2	3	3	3	-54	54	-D	
11	Methods for recovery of these gases.	1	1	2	3	2	7	115	+A	
12	Separation of different fractions of municipal solid waste is done before dumping.	1	1	3	2	2	7	115	+A	
				Total I	ES = -78				Mean Relative ES = 101.5	
BE	Biological - Ecological									
1	Effect in the water table by diffuse leaching.	2	-1	3	3	3	-18	90	-В	
2	Effect on soil.	1	-1	3	3	3	-9	99	-A	
3	Effect on ecosystem.	2	-1	3	3	3	-18	90	-В	
4	Default lists of impact categories for life cycle assessment.	3	0	3	2	2	0	108	N	
5	Direct, indirect and avoided burdens of municipal solid wastes dumpsites.	2	-2	2	2	2	-24	84	-C	
6	Effects of decomposition of wastes.	1	-1	3	3	3	-9	99	-A	
7	Soil erosion and excess runoff.	1	-1	2	3	3	-8	100	-A	
8	Important risks of open dumping.	0	0	1	1	1	0	108	N	
			Total ES = -86			Mean Relative ES = 97.25				
sc	Socio - Cultural									
1	Residential colonies present in the dumping sites.	0	0	1	1	1	0	108	N	
2	Problems people generally face from the dust	1	-1	2	3	3	-8	100	-A	
3	Problems people face from the noise.	1	-2	2	3	3	-16	92	-В	
4	Incinerated ash of municipal solid wastes is recycled and reused.	0	0	1	1	1	0	108	N	
5	Impacts of volatile organic compounds on local people.	1	-1	3	3	3	-9	99	-A	
6	Problems from odour of municipal solid wastes.	1	-1	2	3	3	-8	100	-A	
				Total I	ES = -41			Mean	Relative ES = 101.16666666667	
EO	Economic - Operational									
1	Construction cost of smaller embankments within dumped sites.	1	-1	3	3	2	-8	100	-A	
2	Costs for the collection of leachates.	2	-2	2	2	3	-28	80	-C	
3	Costs (savings) by use of leachate in desulphurisation plants.	2	-2	2	2	3	-28	80	-C	
4	Costs of treatment plants for removal of heavy metals.	1	-2	2	3	3	-16	92	-B	
5	Costs for analysis of monitoring and sampling of municipal solid wastes.	1	-1	3	3	3	-9	99	-A	
6	Operating and running costs of incineration plants.	0	0	1	1	1	0	108	N	
7	Costs involved in recycling and reuse of municipal solid wastes.	1	-3	2	2	3	-21	87	-C	
8	Revenues from recycled and reused municipal solid waste.	1	1	2	2	3	7	115	+A	
9	Costs involved during the process of dumping to private land.	0	0	1	1	1	0	108	N	
		Total ES = -103							Relative ES = 96.55555555556	



Code	Description	A 1	A2	B1	B2	В3	ES	Relative ES	Susceptibility Performance Description	
PC	Physical - Chemical									
1	Municipal solid waste disposal	1	1	2	2	2	6	114	+A	
2	Leaching from the existing municipal solid waste dumpsites.	2	-1	2	3	3	-16	92	-B	
3	Collection of leachates in drainage system.	2	-1	2	3	3	-16	92	-В	
4	Leachate of municipal solid wastes is treated and reused.	1	2	2	2	2	12	120	+B	
5	Reused and treated leachate discharged to municipal sewage treatment plant.	1	1	2	3	2	7	115	+A	
6	Facilities for municipal solid waste treatment and recycling.	1	2	3	3	3	18	126	+B	
7	Cases of gaseous emission and sampling for estimation of volatile organic compound.	2	-3	3	3	3	-54	54	-D	
8	Leaching to the ground water.	2	-1	3	3	3	-18	90	-В	
9	Regular odour monitoring.	1	-1	2	2	3	-7	101	-A	
10	Greenhouse gases and other than greenhouse gas load reduced in flue gas.	3	-3	3	3	3	-81	27	-E	
11	Methods for recovery of these gases.	1	1	2	2	2	6	114	+A	
12	Separation of different fractions of municipal solid waste is done before dumping.	1	2	2	2	2	12	120	+B	
				Total E	S = -131			Mean	Relative ES = 97.0833333333333	
BE	Biological - Ecological									
1	Effect in the water table by diffuse leaching.	2	-1	3	3	3	-18	90	-B	
2	Effect on soil.	1	-2	3	3	3	-18	90	-В	
3	Effect on ecosystem.	2	-1	3	3	3	-18	90	-B	
4	Default lists of impact categories for life cycle assessment.	2	-1	3	3	2	-16	92	-B	
5	Direct, indirect and avoided burdens of municipal solid wastes dumpsites.	2	-1	2	2	2	-12	96	-B	
6	Effects of decomposition of wastes.	1	-1	3	3	3	-9	99	-A	
7	Soil erosion and excess runoff.	1	-1	2	3	3	-8	100	-A	
8	Important risks of open dumping.	1	-1	3	3	3	-9	99	-A	
				Total E	S = -108				Mean Relative ES = 94.5	
sc	Socio - Cultural									
1	Residential colonies present in the dumping sites.	1	-2	2	2	3	-14	94	-B	
2	Problems people generally face from the dust	1	-3	2	3	3	-24	84	-C	
3	Problems people face from the noise.	1	-1	2	3	3	-8	100	-A	
4	Incinerated ash of municipal solid wastes is recycled and reused.	1	3	2	3	3	24	132	+C	
5	Impacts of volatile organic compounds on local people.	1	-3	3	3	3	-27	81	-C	
6	Problems from odour of municipal solid wastes.	1	-1	2	3	3	-8	100	-A	
	·		1	Total E	ES = -57	1	1		Mean Relative ES = 98.5	
EO	Economic - Operational									
1	Construction cost of smaller embankments within dumped sites.	1	-1	3	3	2	-8	100	-A	
2	Costs for the collection of leachates.	2	-1	2	2	3	-14	94	-В	
3	Costs (savings) by use of leachate in desulphurisation plants.	2	-1	2	3	3	-16	92	-B	
4	Costs of treatment plants for removal of heavy metals.	1	-2	2	3	3	-16	92	-B	
5	Costs for analysis of monitoring and sampling of municipal solid wastes.	1	-1	3	3	3	-9	99	-A	
6	Operating and running costs of incineration plants.	1	-2	3	3	3	-18	90	-В	
7	Costs involved in recycling and reuse of municipal solid wastes.	1	-2	2	2	3	-14	94	-B	
8	Revenues from recycled and reused municipal solid waste.	1	1	2	2	3	7	115	+A	
9	Costs involved during the process of dumping to private land.	2	-1	3	3	3	-18	90	-B	
	Cools involved during the process of duriping to private faild.				S = -106		10		Relative ES = 96.2222222222	
				I Ulai E	S = -100			ivicali	INGIGUITO LO - 30.22222222222	





M/I	Parameter	Raw Water	Drinking water	IV	EIV
Activities	Parameter Rankings				
Temp	2	0/0	1/2	2	4
Terb	12	1/4.6	9/0.34	7.66	91.92
рН	14	9/1.16	8/1.16	19.72	276.08
EC	1	0/0	2/0.6	1.2	1.2
T.H	9	4/0.85	4/1.68	10.12	91.08
Ca	6	5/0.53	5/1.41	9.7	58.2
Mg	11	6/0.8	6/0.8	9.6	105.6
CI	5	7/0.5	7/0.64	7.98	39.9
(So4)2-	7	3/1.35	3/1.7	9.15	64.05
TDS	3	2/1.5	2/1.52	6.04	18.12
TSS	10	0/0	10/0.8	8	80
Na	8	6/0.51	6/0.6	6.66	53.28
K	13	9/0.48	9/0.96	12.96	168.48
Al	4	10/0	10/0.5	5	20

