

**ANEXO I**

**MÉTODO DE DEGRADACIÓN**

**COMPLETA**

COMPONENTES	% Peso	Humedad
Restos de comida	24,4	50
Papel-cartón	13,8	5
Plásticos	17,7	2
Vidrio	6,2	0
Textiles	8,7	8
Goma	0	2
Cuero	0	8
Residuos de jardín	10	30
Madera	5,9	20
Metales férricos	0,9	0
Metales no férricos	0,6	0
Otros	11,8	2

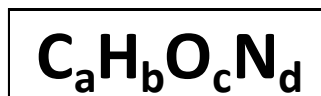
Parte RBD de los residuos de jardín= 60 %

Peso de la parte RBD de los residuos de jardín= 6 kg

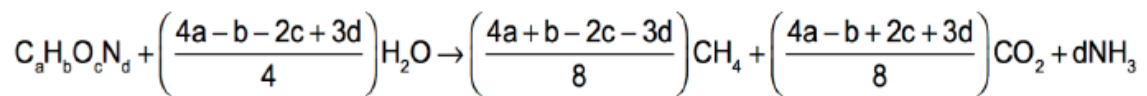
COMPONENTES	Peso seco	Peso húmedo	C	H	O	N	S y cenizas
Restos de comida	12,2	12,2	5,86	0,78	4,59	0,32	
Papel-cartón	13,11	0,69	5,7	0,79	5,77	0,04	
Residuos de jardín	4,2	1,8	2,01	0,25	1,6	0,14	
<b>TOTAL</b>	29,51	14,69	13,57	1,82	11,96	0,50	0
Número de moles	-	-	1,13	1,82	0,75	0,04	-
Número entero de moles	-	-	31,66	50,96	20,93	1,00	-

C=	12
H=	1
O=	16
N=	14
CH <sub>4</sub> =	16
CO <sub>2</sub> =	44
NH <sub>3</sub> =	17

a=	32
b=	51
c=	21
d=	1



Peso molecular de la fracción biodegradable=	779,8	gr/mol
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Coeficiente CH <sub>4</sub> =	17
Coeficiente CO <sub>2</sub> =	15
Coeficiente NH <sub>3</sub> =	1

1 mol de m.o →	17	moles de CH <sub>4</sub> +	15	moles de CO <sub>2</sub> +	1	mol de NH <sub>3</sub>
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gr de m.o →	265,51	gr de CH <sub>4</sub>
	663,04	gr de CO <sub>2</sub>
	17	gr de NH <sub>3</sub>

100 kg de RSU en el vertedero →	10,05	kg de CH <sub>4</sub>
	25,09	kg de CO <sub>2</sub>
	0,64	kg de NH <sub>3</sub>

PESOS ESPECÍFICOS		
CH <sub>4</sub>	0,718	kg/m <sup>3</sup>
CO <sub>2</sub>	1,977	kg/m <sup>3</sup>

<b>Biogás generado por cada 100 kg de RSU</b> →	13,99	m <sup>3</sup> de CH <sub>4</sub>
	12,69	m <sup>3</sup> de CO <sub>2</sub>
<b>Total biogás producido por kg de RSU=</b>	0,90	m <sup>3</sup> /kg RSU

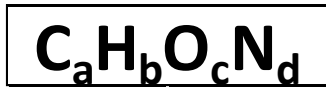
Parte LBD de los residuos de jardín= 40 %

Peso de la parte LBD de los residuos de jardín= 4 kg

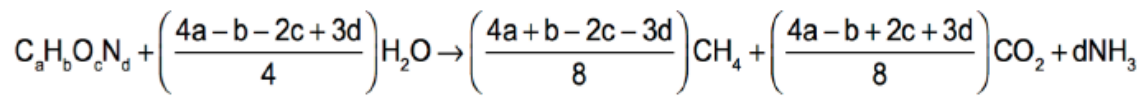
COMPONENTES	Peso seco	Peso húmedo	C	H	O	N	S y cenizas
Textiles	8,004	0,696	4,4	0,53	2,5	0,37	
Goma	0	0	0	0	0	0	
Cuero	0	0	0	0	0	0	
Residuos de jardín	2,8	1,2	1,34	0,17	1,06	0,1	
Madera	4,72	1,18	2,34	0,28	2,02	0,01	
<b>TOTAL</b>	15,524	3,076	8,08	0,98	5,58	0,48	0,00
Número de moles	-	-	0,67	0,98	0,35	0,03	-
Número entero de moles	-	-	19,64	28,58	10,17	1,00	-

C=	12
H=	1
O=	16
N=	14
CH <sub>4</sub> =	16
CO <sub>2</sub> =	44
NH <sub>3</sub> =	17

a=	20
b=	29
c=	10
d=	1



Peso molecular de la fracción biodegradable=	441	gr/mol
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Coeficiente CH <sub>4</sub> =	10
Coeficiente CO <sub>2</sub> =	9
Coeficiente NH <sub>3</sub> =	1

1 mol de m.o →	10	moles de CH <sub>4</sub> +	9	moles de CO <sub>2</sub> +	1	mol de NH <sub>3</sub>
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441	gr de m.o	→	167,59	gr de CH <sub>4</sub>
			403,24	gr de CO <sub>2</sub>
			17,00	gr de NH <sub>3</sub>

100 kg de RSU en el vertedero	→	5,90	kg de CH <sub>4</sub>
		14,19	kg de CO <sub>2</sub>
		0,60	kg de NH <sub>3</sub>

PESOS ESPECÍFICOS		
CH <sub>4</sub>	0,718	kg/m <sup>3</sup>
CO <sub>2</sub>	1,977	kg/m <sup>3</sup>

<b>Biogás generado por cada 100 kg de RSU</b>				→	8,22	m <sup>3</sup> de CH <sub>4</sub>
					7,18	m <sup>3</sup> de CO <sub>2</sub>
<b>Total biogás producido por kg de RSU=</b>					0,99	m <sup>3</sup> /kg RSU

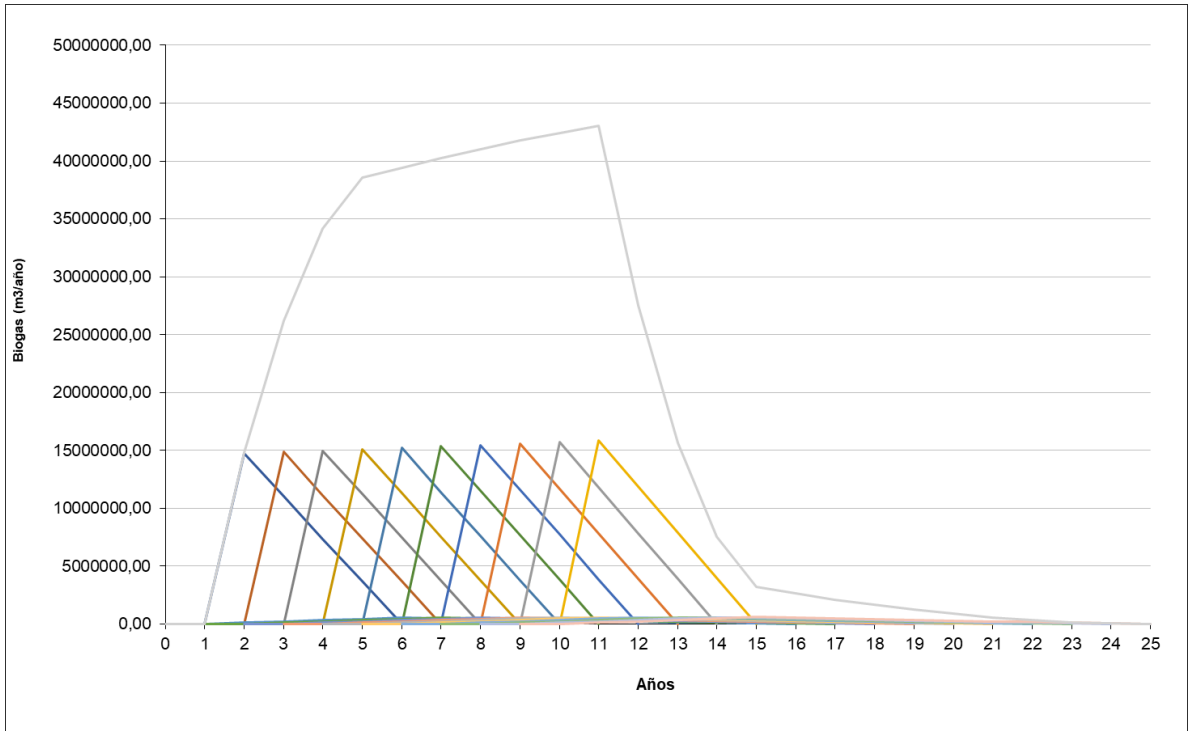
Tiempo que tardan en descomponerse los residuos RBD	5	años
Tiempo que tardan en descomponerse los residuos LBD	15	años

Parte de los RRB que se degradan	75	%
Parte de los LRB que se degradan	50	%

Biogás producido por los residuos RBD	0,90	m <sup>3</sup> /kg RSU
Biogás producido por los residuos LBD	0,99	m <sup>3</sup> /kg RSU

TOTAL
0,00
0,00
14842742,53
26237824,31
34155484,87
38565964,75
39439505,30
40261953,20
41032844,21
41751714,69
42418099,19
43031533,45
27511985,00
15683814,21
7576316,27
3218786,21
2640519,05
2117988,60
1651659,30
1241995,60
889461,94
594522,78
357642,56
179285,73
59916,72
0,00







# **ANEXO II**

## **LandGEM**

Landfill Open Year	2020
Landfill Closure Year	2029
Have Model Calculate Closure Year?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Waste Design Capacity	

Year	Input Units (Mg/year)
2020	184.010
2021	185.544
2022	187.077
2023	188.610
2024	190.144
2025	191.677
2026	193.210
2027	194.744
2028	196.277
2029	197.810

### 3: SELECT GASES/POLLUTANTS

<b>Gas / Pollutant #1</b>		<b>Default pollutant parameters are currently being used by model.</b>
Total landfill gas	<input type="button" value="v"/>	<input type="button" value="Edit Existing or Add&lt;br/&gt;New Pollutant&lt;br/&gt;Parameters"/>  <input type="button" value="Restore Default&lt;br/&gt;Pollutant&lt;br/&gt;Parameters"/>
<b>Gas / Pollutant #2</b>		
Methane	<input type="button" value="v"/>	
<b>Gas / Pollutant #3</b>		
Carbon dioxide	<input type="button" value="v"/>	
<b>Gas / Pollutant #4</b>		
NMOC	<input type="button" value="v"/>	

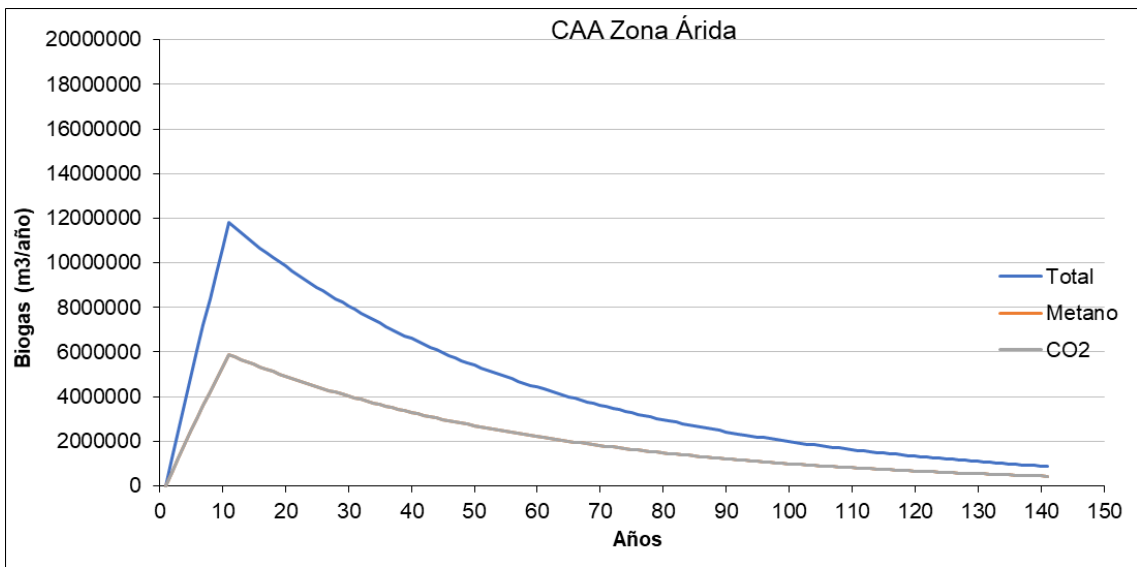
**2: DETERMINE MODEL PARAMETERS** Parameters

**Methane Generation Rate,  $k$  ( $year^{-1}$ )**  
 CAA Arid Area - 0.02

**Potential Methane Generation Capacity,  $L_0$  ( $m^3/Mg$ )**  
 CAA Arid Area - 170

**NMOC Concentration (*ppmv as hexane*)**  
 CAA - 4,000

**Methane Content (% by volume)**  
 CAA - 50% by volume



	k ( $año^{-1}$ )			
	0,2	0,5	0,7	
$L_0(m^3/t)$	60	Escenario 1	Escenario 4	Escenario 7
	100	Escenario 2	Escenario 5	Escenario 8
	170	Escenario 3	Escenario 6	Escenario 9

## 2: DETERMINE MODEL PARAMETERS

### Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

**Methane Content (% by volume)**

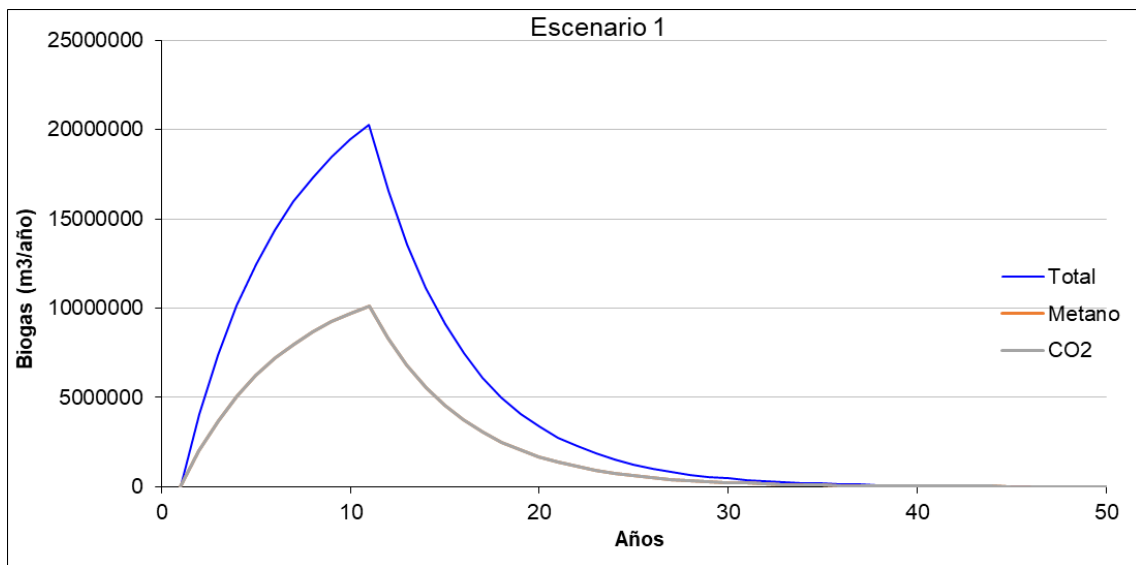
Escenario 1		Total	Metano	CO <sub>2</sub>
2020	1	0	0	0
2021	2	4042809,59	2021404,8	2021404,8
2022	3	7386470,47	3693235,23	3693235,23
2023	4	10157716,6	5078858,28	5078858,28
2024	5	12460309,1	6230154,55	6230154,55
2025	6	14379200,7	7189600,37	7189600,37
2026	7	15983944,5	7991972,23	7991972,23
2027	8	17331485,6	8665742,8	8665742,8
2028	9	18468447,3	9234223,66	9234223,66
2029	10	19433001	9716500,48	9716500,48
2030	11	20256398,8	10128199,4	10128199,4
2031	12	16584536,6	8292268,32	8292268,32
2032	13	13578270,2	6789135,09	6789135,09
2033	14	11116947,4	5558473,68	5558473,68
2034	15	9101786,69	4550893,34	4550893,34
2035	16	7451912,67	3725956,33	3725956,33
2036	17	6101110,07	3050555,04	3050555,04
2037	18	4995166,44	2497583,22	2497583,22
2038	19	4089696,38	2044848,19	2044848,19
2039	20	3348360,2	1674180,1	1674180,1
2040	21	2741405,47	1370702,73	1370702,73
2041	22	2244472,96	1122236,48	1122236,48
2042	23	1837619,04	918809,52	918809,52
2043	24	1504515,22	752257,61	752257,61
2044	25	1231792,88	615896,44	615896,44
2045	26	1008506,71	504253,356	504253,356
2046	27	825695,46	412847,73	412847,73
2047	28	676022,265	338011,133	338011,133
2048	29	553480,218	276740,109	276740,109
2049	30	453151,276	226575,638	226575,638

2050	31	371008,886	185504,443	185504,443
2051	32	303756,384	151878,192	151878,192
2052	33	248694,693	124347,347	124347,347
2053	34	203613,993	101806,997	101806,997
2054	35	166705,038	83352,5191	83352,5191
2055	36	136486,541	68243,2707	68243,2707
2056	37	111745,729	55872,8644	55872,8644
2057	38	91489,6648	45744,8324	45744,8324
2058	39	74905,4021	37452,7011	37452,7011
2059	40	61327,3563	30663,6781	30663,6781
2060	41	50210,5926	25105,2963	25105,2963
2061	42	41108,9563	20554,4781	20554,4781
2062	43	33657,1667	16828,5834	16828,5834
2063	44	27556,1575	13778,0787	13778,0787
2064	45	22561,0736	11280,5368	11280,5368
2065	46	18471,4447	9235,72237	9235,72237
2066	47	15123,1399	7561,56993	7561,56993
2067	48	12381,7797	6190,88985	6190,88985
2068	49	10137,3438	5068,67191	5068,67191
2069	50	8299,75513	4149,87757	4149,87757
2070	51	6795,26477	3397,63239	3397,63239
2071	52	5563,49224	2781,74612	2781,74612
2072	53	4555,00219	2277,5011	2277,5011
2073	54	3729,32038	1864,66019	1864,66019
2074	55	3053,30928	1526,65464	1526,65464
2075	56	2499,83821	1249,9191	1249,9191
2076	57	2046,69442	1023,34721	1023,34721
2077	58	1675,69166	837,845831	837,845831
2078	59	1371,9403	685,970148	685,970148
2079	60	1123,24971	561,624856	561,624856
2080	61	919,639083	459,819541	459,819541
2081	62	752,936799	376,468399	376,468399
2082	63	616,452512	308,226256	308,226256
2083	64	504,70863	252,354315	252,354315
2084	65	413,220476	206,610238	206,610238
2085	66	338,316312	169,158156	169,158156
2086	67	276,989969	138,494984	138,494984
2087	68	226,780206	113,390103	113,390103
2088	69	185,671929	92,8359643	92,8359643
2089	70	152,015318	76,007659	76,007659
2090	71	124,459616	62,2298079	62,2298079
2091	72	101,898915	50,9494574	50,9494574
2092	73	83,4277753	41,7138877	41,7138877
2093	74	68,3048853	34,1524427	34,1524427
2094	75	55,9233102	27,9616551	27,9616551

2095	76	45,7861339	22,8930669	22,8930669
2096	77	37,4865159	18,7432579	18,7432579
2097	78	30,6913634	15,3456817	15,3456817
2098	79	25,127963	12,5639815	12,5639815
2099	80	20,5730361	10,2865181	10,2865181
2100	81	16,8437773	8,42188867	8,42188867
2101	82	13,7905185	6,89525925	6,89525925
2102	83	11,2907216	5,6453608	5,6453608
2103	84	9,244061	4,6220305	4,6220305
2104	85	7,56839703	3,78419851	3,78419851
2105	86	6,1964794	3,0982397	3,0982397
2106	87	5,07324824	2,53662412	2,53662412
2107	88	4,15362435	2,07681218	2,07681218
2108	89	3,4007	1,70035	1,70035
2109	90	2,78425767	1,39212883	1,39212883
2110	91	2,27955738	1,13977869	1,13977869
2111	92	1,86634373	0,93317186	0,93317186
2112	93	1,52803301	0,7640165	0,7640165
2113	94	1,25104761	0,62552381	0,62552381
2114	95	1,02427116	0,51213558	0,51213558
2115	96	0,83860229	0,41930115	0,41930115
2116	97	0,68658949	0,34329474	0,34329474
2117	98	0,56213193	0,28106596	0,28106596
2118	99	0,4602347	0,23011735	0,23011735
2119	100	0,3768083	0,18840415	0,18840415
2120	101	0,30850454	0,15425227	0,15425227
2121	102	0,25258216	0,12629108	0,12629108
2122	103	0,20679678	0,10339839	0,10339839
2123	104	0,16931088	0,08465544	0,08465544
2124	105	0,13862003	0,06931001	0,06931001
2125	106	0,11349248	0,05674624	0,05674624
2126	107	0,09291978	0,04645989	0,04645989
2127	108	0,07607628	0,03803814	0,03803814
2128	109	0,06228599	0,031143	0,031143
2129	110	0,05099546	0,02549773	0,02549773
2130	111	0,04175155	0,02087577	0,02087577
2131	112	0,03418328	0,01709164	0,01709164
2132	113	0,0279869	0,01399345	0,01399345
2133	114	0,02291374	0,01145687	0,01145687
2134	115	0,01876018	0,00938009	0,00938009
2135	116	0,01535954	0,00767977	0,00767977
2136	117	0,01257533	0,00628766	0,00628766
2137	118	0,01029581	0,0051479	0,0051479
2138	119	0,00842949	0,00421475	0,00421475
2139	120	0,00690148	0,00345074	0,00345074



2140	121	0,00565046	0,00282523	0,00282523
2141	122	0,0046262	0,0023131	0,0023131
2142	123	0,00378762	0,00189381	0,00189381
2143	124	0,00310104	0,00155052	0,00155052
2144	125	0,00253891	0,00126946	0,00126946
2145	126	0,00207869	0,00103934	0,00103934
2146	127	0,00170189	0,00085094	0,00085094
2147	128	0,00139339	0,00069669	0,00069669
2148	129	0,00114081	0,0005704	0,0005704
2149	130	0,00093401	0,00046701	0,00046701
2150	131	0,00076471	0,00038235	0,00038235
2151	132	0,00062609	0,00031304	0,00031304
2152	133	0,0005126	0,0002563	0,0002563
2153	134	0,00041968	0,00020984	0,00020984
2154	135	0,0003436	0,0001718	0,0001718
2155	136	0,00028132	0,00014066	0,00014066
2156	137	0,00023033	0,00011516	0,00011516
2157	138	0,00018857	9,4287E-05	9,4287E-05
2158	139	0,00015439	7,7196E-05	7,7196E-05
2159	140	0,00012641	6,3203E-05	6,3203E-05
2160	141	0,00010349	5,1746E-05	5,1746E-05



2: DETERMINE MODEL PARAMETERS

Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

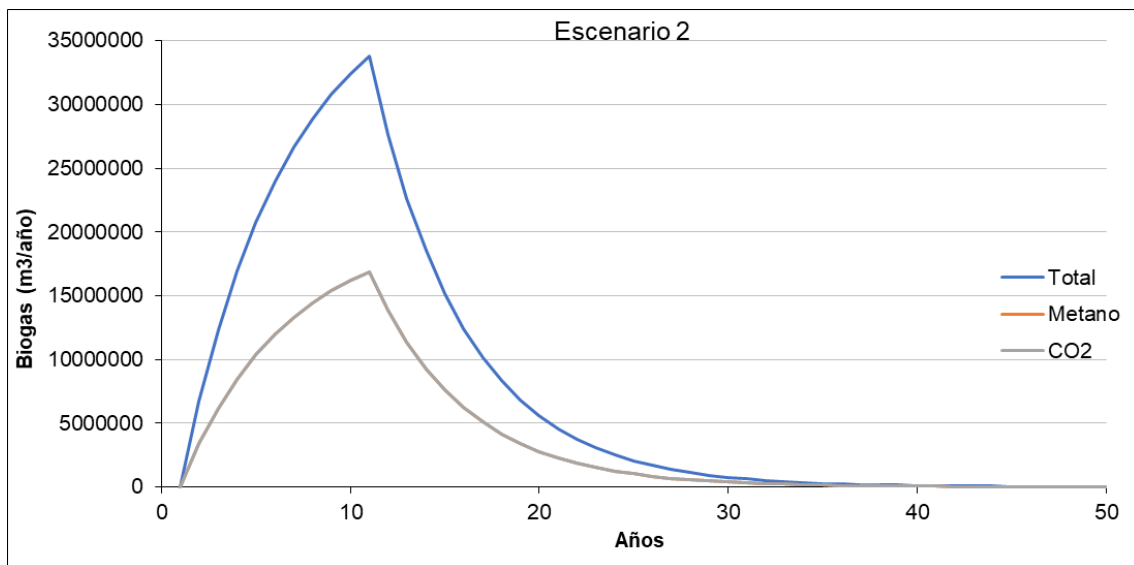
**Methane Content (% by volume)**

Escenario 2	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	6738015,98	3369007,99	3369007,99
3	12310784,1	6155392,06	6155392,06
4	16929527,6	8464763,81	8464763,81
5	20767181,8	10383590,9	10383590,9
6	23965334,6	11982667,3	11982667,3
7	26639907,4	13319953,7	13319953,7
8	28885809,3	14442904,7	14442904,7
9	30780745,5	15390372,8	15390372,8
10	32388334,9	16194167,5	16194167,5
11	33760664,7	16880332,3	16880332,3
12	27640894,4	13820447,2	13820447,2
13	22630450,3	11315225,1	11315225,1
14	18528245,6	9264122,8	9264122,8
15	15169644,5	7584822,24	7584822,24
16	12419854,4	6209927,22	6209927,22
17	10168516,8	5084258,39	5084258,39
18	8325277,41	4162638,7	4162638,7
19	6816160,64	3408080,32	3408080,32
20	5580600,33	2790300,17	2790300,17
21	4569009,11	2284504,56	2284504,56
22	3740788,27	1870394,14	1870394,14
23	3062698,4	1531349,2	1531349,2
24	2507525,37	1253762,68	1253762,68
25	2052988,13	1026494,07	1026494,07
26	1680844,52	840422,26	840422,26
27	1376159,1	688079,55	688079,55
28	1126703,78	563351,888	563351,888
29	922467,031	461233,515	461233,515
30	755252,127	377626,063	377626,063

31	618348,143	309174,071	309174,071
32	506260,64	253130,32	253130,32
33	414491,155	207245,578	207245,578
34	339356,656	169678,328	169678,328
35	277841,73	138920,865	138920,865
36	227477,569	113738,785	113738,785
37	186242,881	93121,4407	93121,4407
38	152482,775	76241,3873	76241,3873
39	124842,337	62421,1684	62421,1684
40	102212,26	51106,1302	51106,1302
41	83684,321	41842,1605	41842,1605
42	68514,9272	34257,4636	34257,4636
43	56095,2779	28047,639	28047,639
44	45926,9291	22963,4646	22963,4646
45	37601,7893	18800,8946	18800,8946
46	30785,7412	15392,8706	15392,8706
47	25205,2331	12602,6166	12602,6166
48	20636,2995	10318,1497	10318,1497
49	16895,573	8447,78651	8447,78651
50	13832,9252	6916,46261	6916,46261
51	11325,4413	5662,72064	5662,72064
52	9272,48707	4636,24354	4636,24354
53	7591,67032	3795,83516	3795,83516
54	6215,53396	3107,76698	3107,76698
55	5088,8488	2544,4244	2544,4244
56	4166,39701	2083,19851	2083,19851
57	3411,15736	1705,57868	1705,57868
58	2792,81944	1396,40972	1396,40972
59	2286,56716	1143,28358	1143,28358
60	1872,08285	936,041427	936,041427
61	1532,7318	766,365902	766,365902
62	1254,89466	627,447332	627,447332
63	1027,42085	513,710427	513,710427
64	841,181049	420,590525	420,590525
65	688,700794	344,350397	344,350397
66	563,86052	281,93026	281,93026
67	461,649948	230,824974	230,824974
68	377,967009	188,983505	188,983505
69	309,453214	154,726607	154,726607
70	253,358863	126,679432	126,679432
71	207,432693	103,716346	103,716346
72	169,831525	84,9157624	84,9157624
73	139,046292	69,5231461	69,5231461
74	113,841476	56,9207378	56,9207378
75	93,205517	46,6027585	46,6027585

76	76,3102231	38,1551116	38,1551116
77	62,4775264	31,2387632	31,2387632
78	51,1522723	25,5761361	25,5761361
79	41,8799384	20,9399692	20,9399692
80	34,2883935	17,1441968	17,1441968
81	28,0729622	14,0364811	14,0364811
82	22,9841975	11,4920988	11,4920988
83	18,8178693	9,40893467	9,40893467
84	15,4067683	7,70338417	7,70338417
85	12,613995	6,30699752	6,30699752
86	10,3274657	5,16373283	5,16373283
87	8,45541374	4,22770687	4,22770687
88	6,92270726	3,46135363	3,46135363
89	5,66783333	2,83391666	2,83391666
90	4,64042945	2,32021472	2,32021472
91	3,7992623	1,89963115	1,89963115
92	3,11057288	1,55528644	1,55528644
93	2,54672168	1,27336084	1,27336084
94	2,08507936	1,04253968	1,04253968
95	1,70711859	0,8535593	0,8535593
96	1,39767049	0,69883525	0,69883525
97	1,14431581	0,57215791	0,57215791
98	0,93688655	0,46844327	0,46844327
99	0,76705783	0,38352891	0,38352891
100	0,62801383	0,31400692	0,31400692
101	0,51417424	0,25708712	0,25708712
102	0,42097026	0,21048513	0,21048513
103	0,3446613	0,17233065	0,17233065
104	0,28218481	0,1410924	0,1410924
105	0,23103338	0,11551669	0,11551669
106	0,18915413	0,09457707	0,09457707
107	0,1548663	0,07743315	0,07743315
108	0,12679381	0,0633969	0,0633969
109	0,10380999	0,05190499	0,05190499
110	0,08499243	0,04249622	0,04249622
111	0,06958592	0,03479296	0,03479296
112	0,05697213	0,02848606	0,02848606
113	0,04664483	0,02332242	0,02332242
114	0,03818956	0,01909478	0,01909478
115	0,03126697	0,01563348	0,01563348
116	0,02559923	0,01279961	0,01279961
117	0,02095888	0,01047944	0,01047944
118	0,01715968	0,00857984	0,00857984
119	0,01404915	0,00702458	0,00702458
120	0,01150247	0,00575124	0,00575124

121	0,00941743	0,00470871	0,00470871
122	0,00771034	0,00385517	0,00385517
123	0,00631269	0,00315635	0,00315635
124	0,00516839	0,0025842	0,0025842
125	0,00423152	0,00211576	0,00211576
126	0,00346448	0,00173224	0,00173224
127	0,00283648	0,00141824	0,00141824
128	0,00232231	0,00116115	0,00116115
129	0,00190135	0,00095067	0,00095067
130	0,00155669	0,00077835	0,00077835
131	0,00127451	0,00063726	0,00063726
132	0,00104348	0,00052174	0,00052174
133	0,00085433	0,00042716	0,00042716
134	0,00069947	0,00034973	0,00034973
135	0,00057267	0,00028634	0,00028634
136	0,00046887	0,00023443	0,00023443
137	0,00038388	0,00019194	0,00019194
138	0,00031429	0,00015715	0,00015715
139	0,00025732	0,00012866	0,00012866
140	0,00021068	0,00010534	0,00010534
141	0,00017249	8,6243E-05	8,6243E-05



2: DETERMINE MODEL PARAMETERS		Parameters	
<b>Methane Generation Rate, k (year<sup>-1</sup>)</b> <small>User-specified k value should be based on site-specific data and determined by EPA Method 2E.</small>			
User-specified	▼	User-specified value:	0,200
<b>Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)</b> <small>User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.</small>			
User-specified	▼	User-specified value:	170
<b>NMOC Concentration (ppmv as hexane)</b>			
CAA - 4,000	▼		
<b>Methane Content (% by volume)</b>			
CAA - 50% by volume	▼		

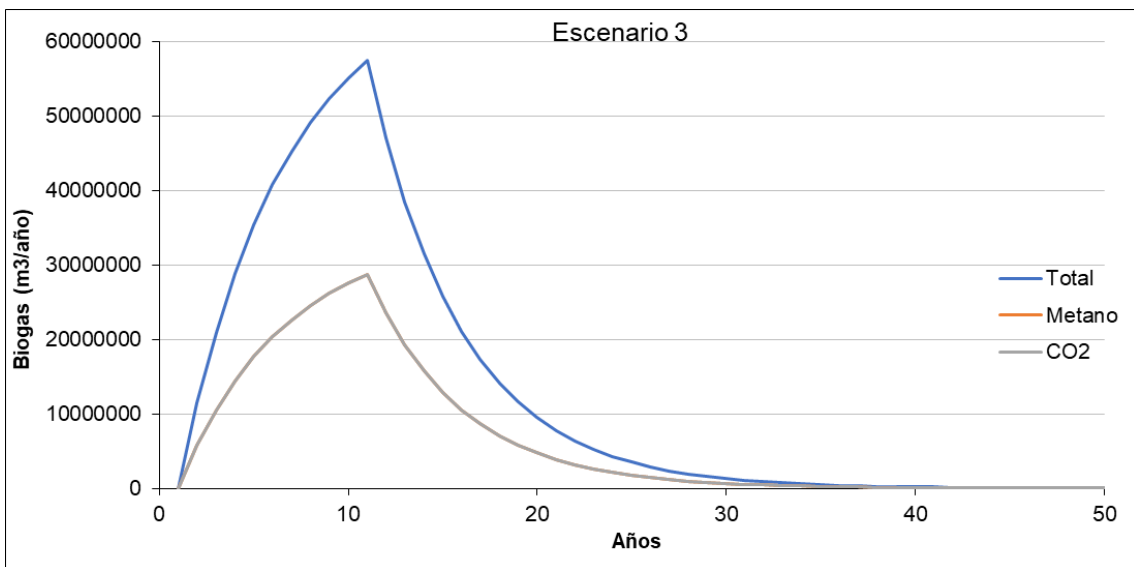
Escenario 3	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	11454627,17	5727313,59	5727313,59
3	20928332,99	10464166,5	10464166,5
4	28780196,95	14390098,5	14390098,5
5	35304209,1	17652104,5	17652104,5
6	40741068,76	20370534,4	20370534,4
7	45287842,63	22643921,3	22643921,3
8	49105875,88	24552937,9	24552937,9
9	52327267,4	26163633,7	26163633,7
10	55060169,37	27530084,7	27530084,7
11	57393129,92	28696565	28696565
12	46989520,48	23494760,2	23494760,2
13	38471765,49	19235882,7	19235882,7
14	31498017,53	15749008,8	15749008,8
15	25788395,61	12894197,8	12894197,8
16	21113752,56	10556876,3	10556876,3
17	17286478,54	8643239,27	8643239,27
18	14152971,59	7076485,79	7076485,79
19	11587473,09	5793736,54	5793736,54
20	9487020,567	4743510,28	4743510,28
21	7767315,493	3883657,75	3883657,75
22	6359340,063	3179670,03	3179670,03
23	5206587,279	2603293,64	2603293,64
24	4262793,124	2131396,56	2131396,56
25	3490079,825	1745039,91	1745039,91
26	2857435,683	1428717,84	1428717,84
27	2339470,469	1169735,23	1169735,23
28	1915396,419	957698,209	957698,209
29	1568193,952	784096,976	784096,976
30	1283928,616	641964,308	641964,308

31	1051191,842	525595,921	525595,921
32	860643,0887	430321,544	430321,544
33	704634,9641	352317,482	352317,482
34	576906,3148	288453,157	288453,157
35	472330,9416	236165,471	236165,471
36	386711,8675	193355,934	193355,934
37	316612,8985	158306,449	158306,449
38	259220,7168	129610,358	129610,358
39	212231,9727	106115,986	106115,986
40	173760,8428	86880,4214	86880,4214
41	142263,3457	71131,6729	71131,6729
42	116475,3762	58237,6881	58237,6881
43	95361,97245	47680,9862	47680,9862
44	78075,77952	39037,8898	39037,8898
45	63923,04176	31961,5209	31961,5209
46	52335,76012	26167,8801	26167,8801
47	42848,8963	21424,4481	21424,4481
48	35081,70913	17540,8546	17540,8546
49	28722,47414	14361,2371	14361,2371
50	23515,97288	11757,9864	11757,9864
51	19253,25019	9626,62509	9626,62509
52	15763,22802	7881,61401	7881,61401
53	12905,83955	6452,91978	6452,91978
54	10566,40773	5283,20387	5283,20387
55	8651,042962	4325,52148	4325,52148
56	7082,874919	3541,43746	3541,43746
57	5798,967517	2899,48376	2899,48376
58	4747,793042	2373,89652	2373,89652
59	3887,164173	1943,58209	1943,58209
60	3182,54085	1591,27043	1591,27043
61	2605,644067	1302,82203	1302,82203
62	2133,320929	1066,66046	1066,66046
63	1746,615451	873,307726	873,307726
64	1430,007784	715,003892	715,003892
65	1170,79135	585,395675	585,395675
66	958,5628833	479,281442	479,281442
67	784,8049113	392,402456	392,402456
68	642,5439161	321,271958	321,271958
69	526,0704643	263,035232	263,035232
70	430,7100674	215,355034	215,355034
71	352,6355778	176,317789	176,317789
72	288,7135922	144,356796	144,356796
73	236,3786968	118,189348	118,189348
74	193,5305084	96,7652542	96,7652542
75	158,4493789	79,2246895	79,2246895

76	129,7273793	64,8636897	64,8636897
77	106,211795	53,1058975	53,1058975
78	86,95886287	43,4794314	43,4794314
79	71,19589529	35,5979476	35,5979476
80	58,29026897	29,1451345	29,1451345
81	47,72403581	23,8620179	23,8620179
82	39,07313578	19,5365679	19,5365679
83	31,99037788	15,9951889	15,9951889
84	26,19150617	13,0957531	13,0957531
85	21,44379157	10,7218958	10,7218958
86	17,55669162	8,77834581	8,77834581
87	14,37420335	7,18710168	7,18710168
88	11,76860234	5,88430117	5,88430117
89	9,635316654	4,81765833	4,81765833
90	7,88873006	3,94436503	3,94436503
91	6,458745903	3,22937295	3,22937295
92	5,287973897	2,64398695	2,64398695
93	4,329426851	2,16471343	2,16471343
94	3,544634906	1,77231745	1,77231745
95	2,902101606	1,4510508	1,4510508
96	2,376039834	1,18801992	1,18801992
97	1,945336882	0,97266844	0,97266844
98	1,592707131	0,79635357	0,79635357
99	1,303998308	0,65199915	0,65199915
100	1,067623517	0,53381176	0,53381176
101	0,874096206	0,4370481	0,4370481
102	0,715649445	0,35782472	0,35782472
103	0,585924209	0,2929621	0,2929621
104	0,479714169	0,23985708	0,23985708
105	0,392756743	0,19637837	0,19637837
106	0,321562024	0,16078101	0,16078101
107	0,263272718	0,13163636	0,13163636
108	0,215549471	0,10777474	0,10777474
109	0,17647698	0,08823849	0,08823849
110	0,144487131	0,07224357	0,07224357
111	0,118296058	0,05914803	0,05914803
112	0,09685262	0,04842631	0,04842631
113	0,079296219	0,03964811	0,03964811
114	0,064922253	0,03246113	0,03246113
115	0,053153845	0,02657692	0,02657692
116	0,043518688	0,02175934	0,02175934
117	0,035630088	0,01781504	0,01781504
118	0,029171449	0,01458572	0,01458572
119	0,023883562	0,01194178	0,01194178
120	0,019554207	0,0097771	0,0097771



121	0,01600963	0,00800482	0,00800482
122	0,013107577	0,00655379	0,00655379
123	0,010731576	0,00536579	0,00536579
124	0,008786271	0,00439314	0,00439314
125	0,007193591	0,0035968	0,0035968
126	0,005889614	0,00294481	0,00294481
127	0,004822008	0,002411	0,002411
128	0,003947926	0,00197396	0,00197396
129	0,003232289	0,00161614	0,00161614
130	0,002646374	0,00132319	0,00132319
131	0,002166668	0,00108333	0,00108333
132	0,001773918	0,00088696	0,00088696
133	0,001452361	0,00072618	0,00072618
134	0,001189093	0,00059455	0,00059455
135	0,000973547	0,00048677	0,00048677
136	0,000797073	0,00039854	0,00039854
137	0,000652588	0,00032629	0,00032629
138	0,000534294	0,00026715	0,00026715
139	0,000437443	0,00021872	0,00021872
140	0,000358148	0,00017907	0,00017907
141	0,000293227	0,00014661	0,00014661



## 2: DETERMINE MODEL PARAMETERS

### Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

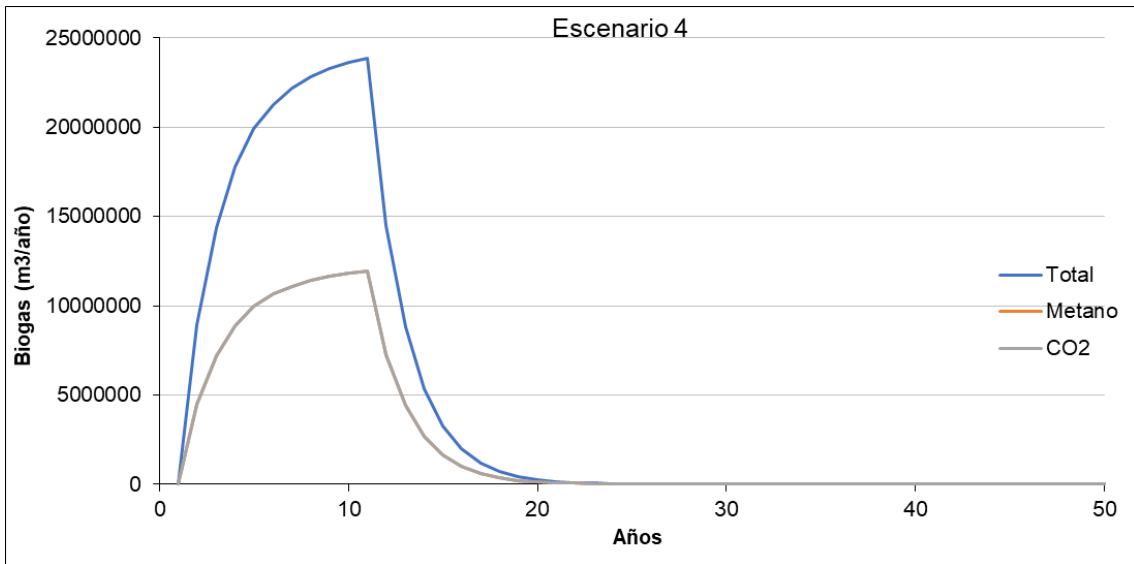
**Methane Content (% by volume)**

Escenario 4	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	8907308,03	4453654,02	4453654,02
3	14384087,2	7192043,59	7192043,59
4	17780144,9	8890072,44	8890072,44
5	19914181,2	9957090,62	9957090,62
6	21282763,4	10641381,7	10641381,7
7	22187073,7	11093536,9	11093536,9
8	22809788,9	11404894,5	11404894,5
9	23261708,5	11630854,2	11630854,2
10	23610034,8	11805017,4	11805017,4
11	23895528,6	11947764,3	11947764,3
12	14493370,7	7246685,36	7246685,36
13	8790673,71	4395336,85	4395336,85
14	5331813,12	2665906,56	2665906,56
15	3233908,13	1616954,07	1616954,07
16	1961464,43	980732,216	980732,216
17	1189688,32	594844,158	594844,158
18	721582,439	360791,22	360791,22
19	437661,873	218830,936	218830,936
20	265455,345	132727,672	132727,672
21	161006,805	80503,4026	80503,4026
22	97655,5638	48827,7819	48827,7819
23	59231,0935	29615,5468	29615,5468
24	35925,4742	17962,7371	17962,7371
25	21789,9016	10894,9508	10894,9508
26	13216,2434	6608,12169	6608,12169
27	8016,05682	4008,02841	4008,02841
28	4861,98423	2430,99212	2430,99212
29	2948,9425	1474,47125	1474,47125
30	1788,62404	894,312021	894,312021

31	1084,85532	542,42766	542,42766
32	657,998013	328,999007	328,999007
33	399,095969	199,547984	199,547984
34	242,063941	121,031971	121,031971
35	146,819202	73,409601	73,409601
36	89,0503475	44,5251737	44,5251737
37	54,011766	27,005883	27,005883
38	32,7597921	16,379896	16,379896
39	19,8698183	9,93490915	9,93490915
40	12,051654	6,025827	6,025827
41	7,30969765	3,65484882	3,65484882
42	4,43355574	2,21677787	2,21677787
43	2,68908749	1,34454374	1,34454374
44	1,63101401	0,815507	0,815507
45	0,98926	0,49463	0,49463
46	0,60001652	0,30000826	0,30000826
47	0,36392842	0,18196421	0,18196421
48	0,22073374	0,11036687	0,11036687
49	0,13388178	0,06694089	0,06694089
50	0,08120341	0,0406017	0,0406017
51	0,04925236	0,02462618	0,02462618
52	0,02987306	0,01493653	0,01493653
53	0,01811893	0,00905946	0,00905946
54	0,01098969	0,00549484	0,00549484
55	0,00666558	0,00333279	0,00333279
56	0,00404288	0,00202144	0,00202144
57	0,00245213	0,00122607	0,00122607
58	0,00148729	0,00074365	0,00074365
59	0,00090209	0,00045104	0,00045104
60	0,00054714	0,00027357	0,00027357
61	0,00033186	0,00016593	0,00016593
62	0,00020128	0,00010064	0,00010064
63	0,00012208	6,1042E-05	6,1042E-05
64	7,4048E-05	3,7024E-05	3,7024E-05
65	4,4912E-05	2,2456E-05	2,2456E-05
66	2,7241E-05	1,362E-05	1,362E-05
67	1,6522E-05	8,2612E-06	8,2612E-06
68	1,0021E-05	5,0106E-06	5,0106E-06
69	6,0782E-06	3,0391E-06	3,0391E-06
70	3,6866E-06	1,8433E-06	1,8433E-06
71	2,2361E-06	1,118E-06	1,118E-06
72	1,3562E-06	6,7812E-07	6,7812E-07
73	8,226E-07	4,113E-07	4,113E-07
74	4,9893E-07	2,4947E-07	2,4947E-07
75	3,0262E-07	1,5131E-07	1,5131E-07

76	1,8355E-07	9,1773E-08	9,1773E-08
77	1,1133E-07	5,5663E-08	5,5663E-08
78	6,7523E-08	3,3761E-08	3,3761E-08
79	4,0955E-08	2,0477E-08	2,0477E-08
80	2,484E-08	1,242E-08	1,242E-08
81	1,5066E-08	7,5332E-09	7,5332E-09
82	9,1382E-09	4,5691E-09	4,5691E-09
83	5,5426E-09	2,7713E-09	2,7713E-09
84	3,3618E-09	1,6809E-09	1,6809E-09
85	2,039E-09	1,0195E-09	1,0195E-09
86	1,2367E-09	6,1836E-10	6,1836E-10
87	7,5011E-10	3,7506E-10	3,7506E-10
88	4,5497E-10	2,2748E-10	2,2748E-10
89	2,7595E-10	1,3798E-10	1,3798E-10
90	1,6737E-10	8,3686E-11	8,3686E-11
91	1,0152E-10	5,0758E-11	5,0758E-11
92	6,1573E-11	3,0786E-11	3,0786E-11
93	3,7346E-11	1,8673E-11	1,8673E-11
94	2,2651E-11	1,1326E-11	1,1326E-11
95	1,3739E-11	6,8694E-12	6,8694E-12
96	8,333E-12	4,1665E-12	4,1665E-12
97	5,0542E-12	2,5271E-12	2,5271E-12
98	3,0655E-12	1,5328E-12	1,5328E-12
99	1,8593E-12	9,2967E-13	9,2967E-13
100	1,1277E-12	5,6387E-13	5,6387E-13
101	6,8401E-13	3,4201E-13	3,4201E-13
102	4,1488E-13	2,0744E-13	2,0744E-13
103	2,5163E-13	1,2582E-13	1,2582E-13
104	1,5262E-13	7,6312E-14	7,6312E-14
105	9,2571E-14	4,6286E-14	4,6286E-14
106	5,6147E-14	2,8074E-14	2,8074E-14
107	3,4055E-14	1,7028E-14	1,7028E-14
108	2,0655E-14	1,0328E-14	1,0328E-14
109	1,2528E-14	6,2641E-15	6,2641E-15
110	7,5987E-15	3,7994E-15	3,7994E-15
111	4,6088E-15	2,3044E-15	2,3044E-15
112	2,7954E-15	1,3977E-15	1,3977E-15
113	1,6955E-15	8,4775E-16	8,4775E-16
114	1,0284E-15	5,1419E-16	5,1419E-16
115	6,2374E-16	3,1187E-16	3,1187E-16
116	3,7832E-16	1,8916E-16	1,8916E-16
117	2,2946E-16	1,1473E-16	1,1473E-16
118	1,3918E-16	6,9588E-17	6,9588E-17
119	8,4414E-17	4,2207E-17	4,2207E-17
120	5,12E-17	2,56E-17	2,56E-17

121	3,1054E-17	1,5527E-17	1,5527E-17
122	1,8835E-17	9,4177E-18	9,4177E-18
123	1,1424E-17	5,7121E-18	5,7121E-18
124	6,9291E-18	3,4646E-18	3,4646E-18
125	4,2027E-18	2,1014E-18	2,1014E-18
126	2,5491E-18	1,2745E-18	1,2745E-18
127	1,5461E-18	7,7305E-19	7,7305E-19
128	9,3776E-19	4,6888E-19	4,6888E-19
129	5,6878E-19	2,8439E-19	2,8439E-19
130	3,4498E-19	1,7249E-19	1,7249E-19
131	2,0924E-19	1,0462E-19	1,0462E-19
132	1,2691E-19	6,3456E-20	6,3456E-20
133	7,6976E-20	3,8488E-20	3,8488E-20
134	4,6688E-20	2,3344E-20	2,3344E-20
135	2,8318E-20	1,4159E-20	1,4159E-20
136	1,7176E-20	8,5878E-21	8,5878E-21
137	1,0418E-20	5,2088E-21	5,2088E-21
138	6,3185E-21	3,1593E-21	3,1593E-21
139	3,8324E-21	1,9162E-21	1,9162E-21
140	2,3245E-21	1,1622E-21	1,1622E-21
141	1,4099E-21	7,0493E-22	7,0493E-22



2: DETERMINE MODEL PARAMETERS

Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

**Methane Content (% by volume)**

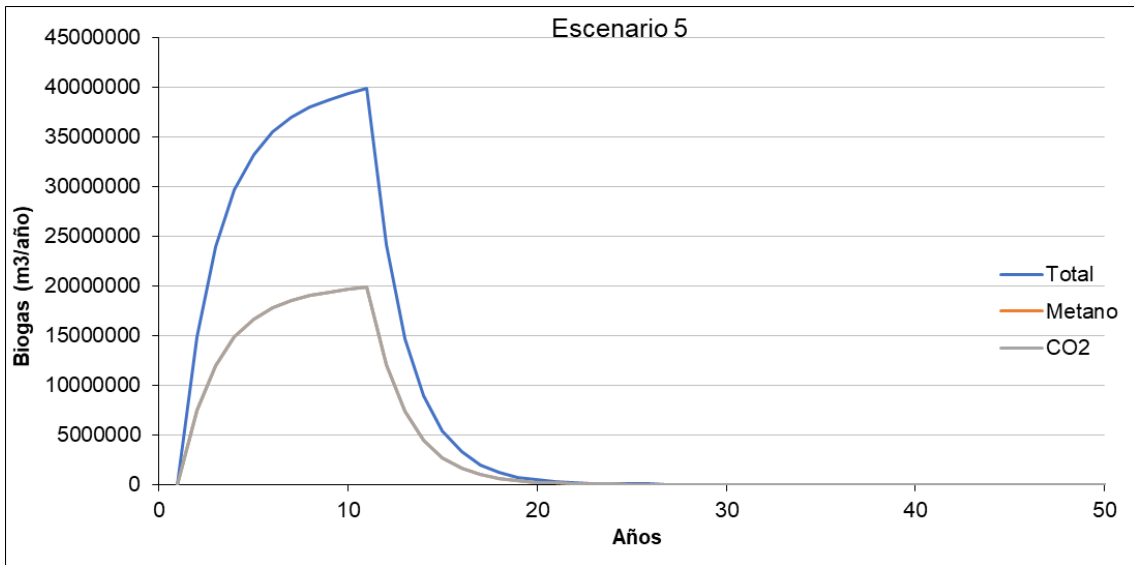
Escenario 5	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	14845513,4	7422756,69	7422756,69
3	23973478,6	11986739,3	11986739,3
4	29633574,8	14816787,4	14816787,4
5	33190302,1	16595151	16595151
6	35471272,4	17735636,2	17735636,2
7	36978456,2	18489228,1	18489228,1
8	38016314,8	19008157,4	19008157,4
9	38769514,1	19384757,1	19384757,1
10	39350058	19675029	19675029
11	39825881	19912940,5	19912940,5
12	24155617,9	12077808,9	12077808,9
13	14651122,8	7325561,42	7325561,42
14	8886355,21	4443177,6	4443177,6
15	5389846,89	2694923,44	2694923,44
16	3269107,39	1634553,69	1634553,69
17	1982813,86	991406,93	991406,93
18	1202637,4	601318,699	601318,699
19	729436,455	364718,227	364718,227
20	442425,574	221212,787	221212,787
21	268344,675	134172,338	134172,338
22	162759,273	81379,6365	81379,6365
23	98718,4892	49359,2446	49359,2446
24	59875,7904	29937,8952	29937,8952
25	36316,5026	18158,2513	18158,2513
26	22027,0723	11013,5362	11013,5362
27	13360,0947	6680,04735	6680,04735
28	8103,30705	4051,65353	4051,65353
29	4914,90417	2457,45209	2457,45209
30	2981,04007	1490,52003	1490,52003

31	1808,0922	904,0461	904,0461
32	1096,66336	548,331678	548,331678
33	665,159948	332,579974	332,579974
34	403,439902	201,719951	201,719951
35	244,69867	122,349335	122,349335
36	148,417246	74,2086229	74,2086229
37	90,01961	45,009805	45,009805
38	54,5996534	27,2998267	27,2998267
39	33,1163638	16,5581819	16,5581819
40	20,08609	10,043045	10,043045
41	12,1828294	6,09141471	6,09141471
42	7,38925956	3,69462978	3,69462978
43	4,48181248	2,24090624	2,24090624
44	2,71835668	1,35917834	1,35917834
45	1,64876667	0,82438333	0,82438333
46	1,00002754	0,50001377	0,50001377
47	0,60654736	0,30327368	0,30327368
48	0,36788957	0,18394479	0,18394479
49	0,2231363	0,11156815	0,11156815
50	0,13533901	0,0676695	0,0676695
51	0,08208726	0,04104363	0,04104363
52	0,04978844	0,02489422	0,02489422
53	0,03019821	0,01509911	0,01509911
54	0,01831614	0,00915807	0,00915807
55	0,0111093	0,00555465	0,00555465
56	0,00673813	0,00336907	0,00336907
57	0,00408688	0,00204344	0,00204344
58	0,00247882	0,00123941	0,00123941
59	0,00150348	0,00075174	0,00075174
60	0,00091191	0,00045595	0,00045595
61	0,0005531	0,00027655	0,00027655
62	0,00033547	0,00016774	0,00016774
63	0,00020347	0,00010174	0,00010174
64	0,00012341	6,1707E-05	6,1707E-05
65	7,4854E-05	3,7427E-05	3,7427E-05
66	4,5401E-05	2,2701E-05	2,2701E-05
67	2,7537E-05	1,3769E-05	1,3769E-05
68	1,6702E-05	8,3511E-06	8,3511E-06
69	1,013E-05	5,0652E-06	5,0652E-06
70	6,1444E-06	3,0722E-06	3,0722E-06
71	3,7268E-06	1,8634E-06	1,8634E-06
72	2,2604E-06	1,1302E-06	1,1302E-06
73	1,371E-06	6,855E-07	6,855E-07
74	8,3155E-07	4,1578E-07	4,1578E-07
75	5,0436E-07	2,5218E-07	2,5218E-07

76	3,0591E-07	1,5296E-07	1,5296E-07
77	1,8554E-07	9,2772E-08	9,2772E-08
78	1,1254E-07	5,6269E-08	5,6269E-08
79	6,8258E-08	3,4129E-08	3,4129E-08
80	4,1401E-08	2,07E-08	2,07E-08
81	2,5111E-08	1,2555E-08	1,2555E-08
82	1,523E-08	7,6152E-09	7,6152E-09
83	9,2377E-09	4,6189E-09	4,6189E-09
84	5,603E-09	2,8015E-09	2,8015E-09
85	3,3984E-09	1,6992E-09	1,6992E-09
86	2,0612E-09	1,0306E-09	1,0306E-09
87	1,2502E-09	6,2509E-10	6,2509E-10
88	7,5828E-10	3,7914E-10	3,7914E-10
89	4,5992E-10	2,2996E-10	2,2996E-10
90	2,7895E-10	1,3948E-10	1,3948E-10
91	1,6919E-10	8,4597E-11	8,4597E-11
92	1,0262E-10	5,1311E-11	5,1311E-11
93	6,2243E-11	3,1122E-11	3,1122E-11
94	3,7752E-11	1,8876E-11	1,8876E-11
95	2,2898E-11	1,1449E-11	1,1449E-11
96	1,3888E-11	6,9442E-12	6,9442E-12
97	8,4237E-12	4,2118E-12	4,2118E-12
98	5,1092E-12	2,5546E-12	2,5546E-12
99	3,0989E-12	1,5495E-12	1,5495E-12
100	1,8796E-12	9,3979E-13	9,3979E-13
101	1,14E-12	5,7001E-13	5,7001E-13
102	6,9146E-13	3,4573E-13	3,4573E-13
103	4,1939E-13	2,097E-13	2,097E-13
104	2,5437E-13	1,2719E-13	1,2719E-13
105	1,5429E-13	7,7143E-14	7,7143E-14
106	9,3579E-14	4,6789E-14	4,6789E-14
107	5,6758E-14	2,8379E-14	2,8379E-14
108	3,4426E-14	1,7213E-14	1,7213E-14
109	2,088E-14	1,044E-14	1,044E-14
110	1,2665E-14	6,3323E-15	6,3323E-15
111	7,6814E-15	3,8407E-15	3,8407E-15
112	4,659E-15	2,3295E-15	2,3295E-15
113	2,8258E-15	1,4129E-15	1,4129E-15
114	1,714E-15	8,5698E-16	8,5698E-16
115	1,0396E-15	5,1978E-16	5,1978E-16
116	6,3053E-16	3,1526E-16	3,1526E-16
117	3,8244E-16	1,9122E-16	1,9122E-16
118	2,3196E-16	1,1598E-16	1,1598E-16
119	1,4069E-16	7,0345E-17	7,0345E-17
120	8,5333E-17	4,2666E-17	4,2666E-17



121	5,1757E-17	2,5878E-17	2,5878E-17
122	3,1392E-17	1,5696E-17	1,5696E-17
123	1,904E-17	9,5202E-18	9,5202E-18
124	1,1549E-17	5,7743E-18	5,7743E-18
125	7,0045E-18	3,5023E-18	3,5023E-18
126	4,2485E-18	2,1242E-18	2,1242E-18
127	2,5768E-18	1,2884E-18	1,2884E-18
128	1,5629E-18	7,8146E-19	7,8146E-19
129	9,4796E-19	4,7398E-19	4,7398E-19
130	5,7497E-19	2,8748E-19	2,8748E-19
131	3,4874E-19	1,7437E-19	1,7437E-19
132	2,1152E-19	1,0576E-19	1,0576E-19
133	1,2829E-19	6,4146E-20	6,4146E-20
134	7,7813E-20	3,8907E-20	3,8907E-20
135	4,7196E-20	2,3598E-20	2,3598E-20
136	2,8626E-20	1,4313E-20	1,4313E-20
137	1,7363E-20	8,6813E-21	8,6813E-21
138	1,0531E-20	5,2655E-21	5,2655E-21
139	6,3873E-21	3,1937E-21	3,1937E-21
140	3,8741E-21	1,9371E-21	1,9371E-21
141	2,3498E-21	1,1749E-21	1,1749E-21



## 2: DETERMINE MODEL PARAMETERS

## Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

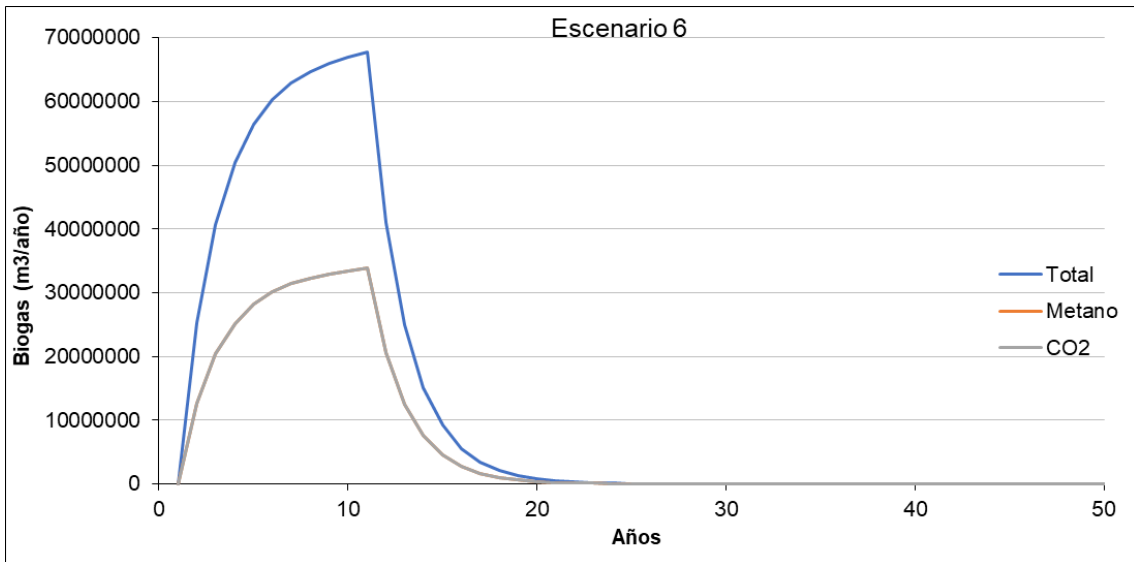
**Methane Content (% by volume)**

Escenario 6	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	25237372,8	12618686,4	12618686,4
3	40754913,7	20377456,8	20377456,8
4	50377077,1	25188538,6	25188538,6
5	56423513,5	28211756,7	28211756,7
6	60301163,1	30150581,5	30150581,5
7	62863375,6	31431687,8	31431687,8
8	64627735,2	32313867,6	32313867,6
9	65908174	32954087	32954087
10	66895098,5	33447549,3	33447549,3
11	67703997,7	33851998,9	33851998,9
12	41064550,4	20532275,2	20532275,2
13	24906908,8	12453454,4	12453454,4
14	15106803,9	7553401,93	7553401,93
15	9162739,71	4581369,85	4581369,85
16	5557482,56	2778741,28	2778741,28
17	3370783,56	1685391,78	1685391,78
18	2044483,58	1022241,79	1022241,79
19	1240041,97	620020,987	620020,987
20	752123,476	376061,738	376061,738
21	456185,948	228092,974	228092,974
22	276690,764	138345,382	138345,382
23	167821,432	83910,7158	83910,7158
24	101788,844	50894,4218	50894,4218
25	61738,0545	30869,0273	30869,0273
26	37446,0229	18723,0115	18723,0115
27	22712,161	11356,0805	11356,0805
28	13775,622	6887,81099	6887,81099
29	8355,33709	4177,66855	4177,66855
30	5067,76812	2533,88406	2533,88406

31	3073,75674	1536,87837	1536,87837
32	1864,3277	932,163852	932,163852
33	1130,77191	565,385956	565,385956
34	685,847834	342,923917	342,923917
35	415,987739	207,99387	207,99387
36	252,309318	126,154659	126,154659
37	153,033337	76,5166685	76,5166685
38	92,8194108	46,4097054	46,4097054
39	56,2978185	28,1489092	28,1489092
40	34,146353	17,0731765	17,0731765
41	20,71081	10,355405	10,355405
42	12,5617413	6,28087063	6,28087063
43	7,61908121	3,80954061	3,80954061
44	4,62120635	2,31060318	2,31060318
45	2,80290334	1,40145167	1,40145167
46	1,70004681	0,85002341	0,85002341
47	1,03113051	0,51556526	0,51556526
48	0,62541227	0,31270614	0,31270614
49	0,37933172	0,18966586	0,18966586
50	0,23007632	0,11503816	0,11503816
51	0,13954834	0,06977417	0,06977417
52	0,08464035	0,04232017	0,04232017
53	0,05133697	0,02566848	0,02566848
54	0,03113744	0,01556872	0,01556872
55	0,01888581	0,00944291	0,00944291
56	0,01145483	0,00572741	0,00572741
57	0,0069477	0,00347385	0,00347385
58	0,00421399	0,002107	0,002107
59	0,00255592	0,00127796	0,00127796
60	0,00155024	0,00077512	0,00077512
61	0,00094027	0,00047013	0,00047013
62	0,0005703	0,00028515	0,00028515
63	0,00034591	0,00017295	0,00017295
64	0,0002098	0,0001049	0,0001049
65	0,00012725	6,3626E-05	6,3626E-05
66	7,7182E-05	3,8591E-05	3,8591E-05
67	4,6813E-05	2,3407E-05	2,3407E-05
68	2,8394E-05	1,4197E-05	1,4197E-05
69	1,7222E-05	8,6108E-06	8,6108E-06
70	1,0445E-05	5,2227E-06	5,2227E-06
71	6,3355E-06	3,1677E-06	3,1677E-06
72	3,8427E-06	1,9213E-06	1,9213E-06
73	2,3307E-06	1,1653E-06	1,1653E-06
74	1,4136E-06	7,0682E-07	7,0682E-07
75	8,5741E-07	4,2871E-07	4,2871E-07

76	5,2005E-07	2,6002E-07	2,6002E-07
77	3,1543E-07	1,5771E-07	1,5771E-07
78	1,9132E-07	9,5658E-08	9,5658E-08
79	1,1604E-07	5,8019E-08	5,8019E-08
80	7,0381E-08	3,519E-08	3,519E-08
81	4,2688E-08	2,1344E-08	2,1344E-08
82	2,5892E-08	1,2946E-08	1,2946E-08
83	1,5704E-08	7,852E-09	7,852E-09
84	9,525E-09	4,7625E-09	4,7625E-09
85	5,7772E-09	2,8886E-09	2,8886E-09
86	3,5041E-09	1,752E-09	1,752E-09
87	2,1253E-09	1,0627E-09	1,0627E-09
88	1,2891E-09	6,4454E-10	6,4454E-10
89	7,8186E-10	3,9093E-10	3,9093E-10
90	4,7422E-10	2,3711E-10	2,3711E-10
91	2,8763E-10	1,4382E-10	1,4382E-10
92	1,7446E-10	8,7228E-11	8,7228E-11
93	1,0581E-10	5,2907E-11	5,2907E-11
94	6,4179E-11	3,209E-11	3,209E-11
95	3,8927E-11	1,9463E-11	1,9463E-11
96	2,361E-11	1,1805E-11	1,1805E-11
97	1,432E-11	7,1601E-12	7,1601E-12
98	8,6857E-12	4,3428E-12	4,3428E-12
99	5,2681E-12	2,6341E-12	2,6341E-12
100	3,1953E-12	1,5976E-12	1,5976E-12
101	1,938E-12	9,6902E-13	9,6902E-13
102	1,1755E-12	5,8774E-13	5,8774E-13
103	7,1296E-13	3,5648E-13	3,5648E-13
104	4,3244E-13	2,1622E-13	2,1622E-13
105	2,6229E-13	1,3114E-13	1,3114E-13
106	1,5908E-13	7,9542E-14	7,9542E-14
107	9,6489E-14	4,8245E-14	4,8245E-14
108	5,8524E-14	2,9262E-14	2,9262E-14
109	3,5496E-14	1,7748E-14	1,7748E-14
110	2,153E-14	1,0765E-14	1,0765E-14
111	1,3058E-14	6,5292E-15	6,5292E-15
112	7,9203E-15	3,9602E-15	3,9602E-15
113	4,8039E-15	2,402E-15	2,402E-15
114	2,9137E-15	1,4569E-15	1,4569E-15
115	1,7673E-15	8,8363E-16	8,8363E-16
116	1,0719E-15	5,3595E-16	5,3595E-16
117	6,5014E-16	3,2507E-16	3,2507E-16
118	3,9433E-16	1,9716E-16	1,9716E-16
119	2,3917E-16	1,1959E-16	1,1959E-16
120	1,4507E-16	7,2533E-17	7,2533E-17

121	8,7987E-17	4,3993E-17	4,3993E-17
122	5,3367E-17	2,6683E-17	2,6683E-17
123	3,2369E-17	1,6184E-17	1,6184E-17
124	1,9633E-17	9,8163E-18	9,8163E-18
125	1,1908E-17	5,9539E-18	5,9539E-18
126	7,2224E-18	3,6112E-18	3,6112E-18
127	4,3806E-18	2,1903E-18	2,1903E-18
128	2,657E-18	1,3285E-18	1,3285E-18
129	1,6115E-18	8,0577E-19	8,0577E-19
130	9,7745E-19	4,8872E-19	4,8872E-19
131	5,9285E-19	2,9643E-19	2,9643E-19
132	3,5958E-19	1,7979E-19	1,7979E-19
133	2,181E-19	1,0905E-19	1,0905E-19
134	1,3228E-19	6,6141E-20	6,6141E-20
135	8,0234E-20	4,0117E-20	4,0117E-20
136	4,8664E-20	2,4332E-20	2,4332E-20
137	2,9516E-20	1,4758E-20	1,4758E-20
138	1,7903E-20	8,9513E-21	8,9513E-21
139	1,0858E-20	5,4292E-21	5,4292E-21
140	6,586E-21	3,293E-21	3,293E-21
141	3,9946E-21	1,9973E-21	1,9973E-21



## 2: DETERMINE MODEL PARAMETERS

### Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

CAA - 4,000

**Methane Content (% by volume)**

CAA - 50% by volume

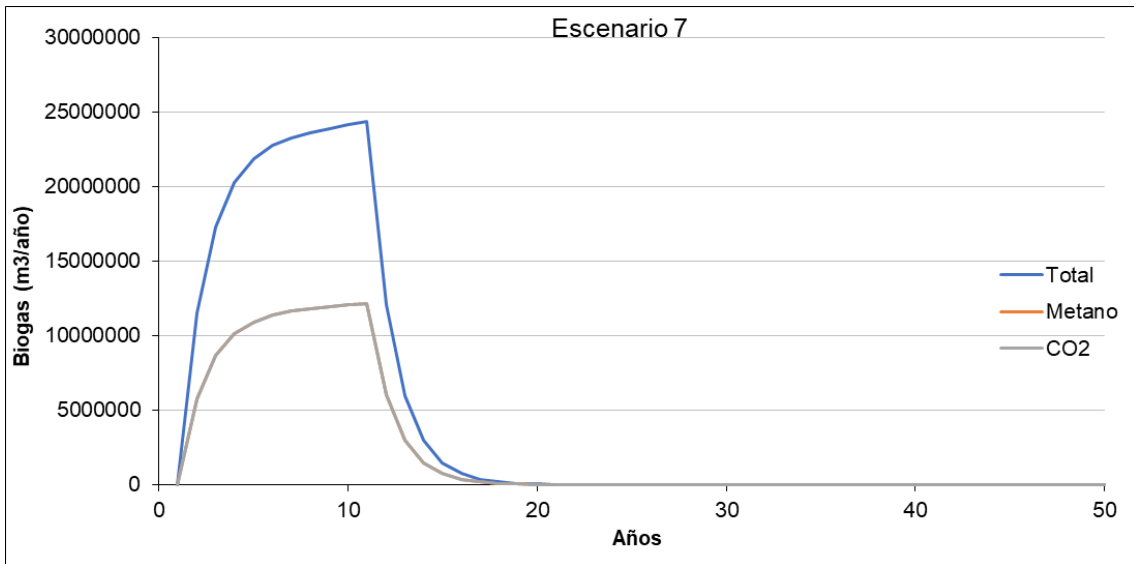
Escenario 7	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	11509619,9	5754809,96	5754809,96
3	17321036,5	8660518,27	8660518,27
4	20302808,5	10151404,3	10151404,3
5	21879420,6	10939710,3	10939710,3
6	22758251,5	11379125,8	11379125,8
7	23290573,9	11645287	11645287
8	23650825,3	11825412,7	11825412,7
9	23925629,4	11962814,7	11962814,7
10	24158001	12079000,5	12079000,5
11	24369301,2	12184650,6	12184650,6
12	12101436,8	6050718,42	6050718,42
13	6009395,69	3004697,85	3004697,85
14	2984177,59	1492088,79	1492088,79
15	1481898,73	740949,366	740949,366
16	735889,132	367944,566	367944,566
17	365431,728	182715,864	182715,864
18	181468,026	90734,0129	90734,0129
19	90114,3548	45057,1774	45057,1774
20	44749,4642	22374,7321	22374,7321
21	22221,9263	11110,9631	11110,9631
22	11035,082	5517,54101	5517,54101
23	5479,85956	2739,92978	2739,92978
24	2721,21772	1360,60886	1360,60886
25	1351,31673	675,658365	675,658365
26	671,044029	335,522014	335,522014
27	333,230603	166,615301	166,615301
28	165,47742	82,7387101	82,7387101
29	82,1736549	41,0868275	41,0868275
30	40,8062294	20,4031147	20,4031147

31	20,2637738	10,1318869	10,1318869
32	10,0626923	5,03134614	5,03134614
33	4,9969851	2,49849255	2,49849255
34	2,48142937	1,24071468	1,24071468
35	1,23224136	0,61612068	0,61612068
36	0,61191295	0,30595647	0,30595647
37	0,30386698	0,15193349	0,15193349
38	0,15089588	0,07544794	0,07544794
39	0,07493267	0,03746634	0,03746634
40	0,03721046	0,01860523	0,01860523
41	0,01847817	0,00923908	0,00923908
42	0,00917599	0,00458799	0,00458799
43	0,00455666	0,00227833	0,00227833
44	0,00226277	0,00113139	0,00113139
45	0,00112366	0,00056183	0,00056183
46	0,00055799	0,000279	0,000279
47	0,00027709	0,00013855	0,00013855
48	0,0001376	6,88E-05	6,88E-05
49	6,833E-05	3,4165E-05	3,4165E-05
50	3,3932E-05	1,6966E-05	1,6966E-05
51	1,685E-05	8,425E-06	8,425E-06
52	8,3674E-06	4,1837E-06	4,1837E-06
53	4,1551E-06	2,0776E-06	2,0776E-06
54	2,0634E-06	1,0317E-06	1,0317E-06
55	1,0246E-06	5,1232E-07	5,1232E-07
56	5,0882E-07	2,5441E-07	2,5441E-07
57	2,5267E-07	1,2634E-07	1,2634E-07
58	1,2547E-07	6,2737E-08	6,2737E-08
59	6,2309E-08	3,1154E-08	3,1154E-08
60	3,0942E-08	1,5471E-08	1,5471E-08
61	1,5365E-08	7,6826E-09	7,6826E-09
62	7,6301E-09	3,815E-09	3,815E-09
63	3,789E-09	1,8945E-09	1,8945E-09
64	1,8816E-09	9,4078E-10	9,4078E-10
65	9,3435E-10	4,6718E-10	4,6718E-10
66	4,6399E-10	2,3199E-10	2,3199E-10
67	2,3041E-10	1,152E-10	1,152E-10
68	1,1442E-10	5,7209E-11	5,7209E-11
69	5,6818E-11	2,8409E-11	2,8409E-11
70	2,8215E-11	1,4108E-11	1,4108E-11
71	1,4011E-11	7,0056E-12	7,0056E-12
72	6,9577E-12	3,4789E-12	3,4789E-12
73	3,4551E-12	1,7276E-12	1,7276E-12
74	1,7158E-12	8,5788E-13	8,5788E-13
75	8,5202E-13	4,2601E-13	4,2601E-13

76	4,231E-13	2,1155E-13	2,1155E-13
77	2,1011E-13	1,0505E-13	1,0505E-13
78	1,0434E-13	5,2168E-14	5,2168E-14
79	5,1811E-14	2,5906E-14	2,5906E-14
80	2,5729E-14	1,2864E-14	1,2864E-14
81	1,2777E-14	6,3883E-15	6,3883E-15
82	6,3446E-15	3,1723E-15	3,1723E-15
83	3,1507E-15	1,5753E-15	1,5753E-15
84	1,5646E-15	7,8229E-16	7,8229E-16
85	7,7694E-16	3,8847E-16	3,8847E-16
86	3,8582E-16	1,9291E-16	1,9291E-16
87	1,9159E-16	9,5796E-17	9,5796E-17
88	9,5142E-17	4,7571E-17	4,7571E-17
89	4,7246E-17	2,3623E-17	2,3623E-17
90	2,3462E-17	1,1731E-17	1,1731E-17
91	1,1651E-17	5,8254E-18	5,8254E-18
92	5,7856E-18	2,8928E-18	2,8928E-18
93	2,873E-18	1,4365E-18	1,4365E-18
94	1,4267E-18	7,1335E-19	7,1335E-19
95	7,0848E-19	3,5424E-19	3,5424E-19
96	3,5182E-19	1,7591E-19	1,7591E-19
97	1,7471E-19	8,7354E-20	8,7354E-20
98	8,6758E-20	4,3379E-20	4,3379E-20
99	4,3083E-20	2,1541E-20	2,1541E-20
100	2,1394E-20	1,0697E-20	1,0697E-20
101	1,0624E-20	5,312E-21	5,312E-21
102	5,2758E-21	2,6379E-21	2,6379E-21
103	2,6199E-21	1,3099E-21	1,3099E-21
104	1,301E-21	6,5049E-22	6,5049E-22
105	6,4605E-22	3,2303E-22	3,2303E-22
106	3,2082E-22	1,6041E-22	1,6041E-22
107	1,5931E-22	7,9657E-23	7,9657E-23
108	7,9113E-23	3,9556E-23	3,9556E-23
109	3,9286E-23	1,9643E-23	1,9643E-23
110	1,9509E-23	9,7545E-24	9,7545E-24
111	9,6879E-24	4,8439E-24	4,8439E-24
112	4,8109E-24	2,4054E-24	2,4054E-24
113	2,389E-24	1,1945E-24	1,1945E-24
114	1,1863E-24	5,9317E-25	5,9317E-25
115	5,8912E-25	2,9456E-25	2,9456E-25
116	2,9255E-25	1,4627E-25	1,4627E-25
117	1,4528E-25	7,2638E-26	7,2638E-26
118	7,2142E-26	3,6071E-26	3,6071E-26
119	3,5825E-26	1,7912E-26	1,7912E-26
120	1,779E-26	8,895E-27	8,895E-27



121	8,8342E-27	4,4171E-27	4,4171E-27
122	4,3869E-27	2,1935E-27	2,1935E-27
123	2,1785E-27	1,0892E-27	1,0892E-27
124	1,0818E-27	5,409E-28	5,409E-28
125	5,3721E-28	2,686E-28	2,686E-28
126	2,6677E-28	1,3339E-28	1,3339E-28
127	1,3247E-28	6,6237E-29	6,6237E-29
128	6,5785E-29	3,2892E-29	3,2892E-29
129	3,2668E-29	1,6334E-29	1,6334E-29
130	1,6222E-29	8,1112E-30	8,1112E-30
131	8,0558E-30	4,0279E-30	4,0279E-30
132	4,0004E-30	2,0002E-30	2,0002E-30
133	1,9865E-30	9,9326E-31	9,9326E-31
134	9,8648E-31	4,9324E-31	4,9324E-31
135	4,8987E-31	2,4494E-31	2,4494E-31
136	2,4326E-31	1,2163E-31	1,2163E-31
137	1,208E-31	6,04E-32	6,04E-32
138	5,9988E-32	2,9994E-32	2,9994E-32
139	2,9789E-32	1,4895E-32	1,4895E-32
140	1,4793E-32	7,3964E-33	7,3964E-33
141	7,3459E-33	3,673E-33	3,673E-33



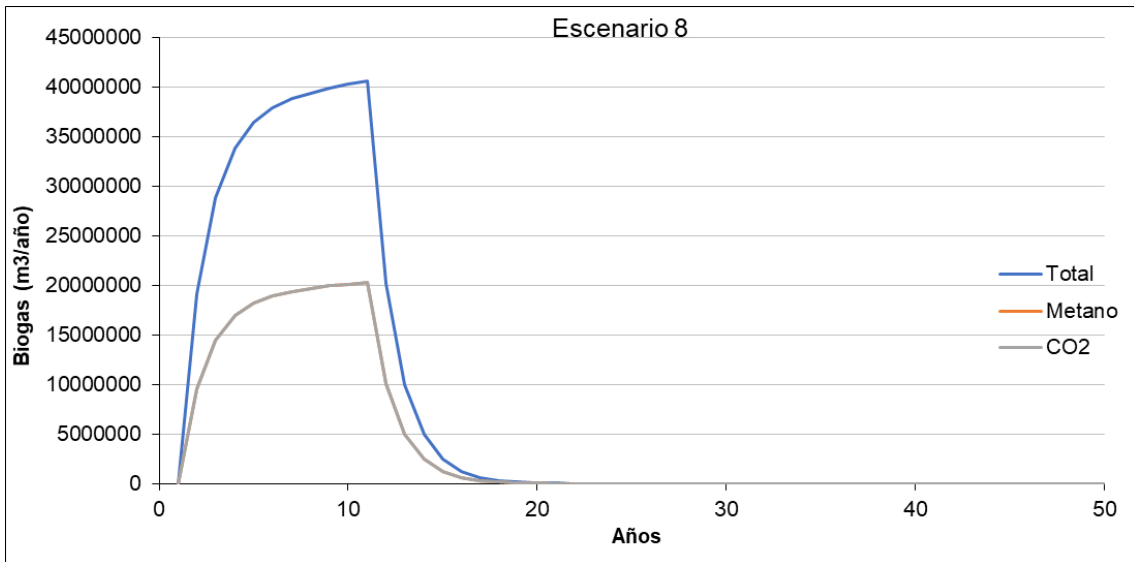
2: DETERMINE MODEL PARAMETERS		Parameters	
<b>Methane Generation Rate, k (year<sup>-1</sup>)</b> <small>User-specified k value should be based on site-specific data and determined by EPA Method 2E.</small>			
User-specified	▼	User-specified value:	0,700
<b>Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)</b> <small>User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.</small>			
User-specified	▼	User-specified value:	100
<b>NMOC Concentration (ppmv as hexane)</b>			
CAA - 4,000	▼		
<b>Methane Content (% by volume)</b>			
CAA - 50% by volume	▼		

Escenario 8	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	19182699,9	9591349,93	9591349,93
3	28868394,2	14434197,1	14434197,1
4	33838014,2	16919007,1	16919007,1
5	36465701	18232850,5	18232850,5
6	37930419,2	18965209,6	18965209,6
7	38817623,2	19408811,6	19408811,6
8	39418042,2	19709021,1	19709021,1
9	39876049	19938024,5	19938024,5
10	40263335	20131667,5	20131667,5
11	40615502	20307751	20307751
12	20169061,4	10084530,7	10084530,7
13	10015659,5	5007829,74	5007829,74
14	4973629,31	2486814,65	2486814,65
15	2469831,22	1234915,61	1234915,61
16	1226481,89	613240,944	613240,944
17	609052,881	304526,44	304526,44
18	302446,71	151223,355	151223,355
19	150190,591	75095,2956	75095,2956
20	74582,4404	37291,2202	37291,2202
21	37036,5438	18518,2719	18518,2719
22	18391,8034	9195,90168	9195,90168
23	9133,09926	4566,54963	4566,54963
24	4535,36287	2267,68144	2267,68144
25	2252,19455	1126,09727	1126,09727
26	1118,40671	559,203357	559,203357
27	555,384338	277,692169	277,692169
28	275,7957	137,89785	137,89785
29	136,956092	68,4780458	68,4780458
30	68,0103823	34,0051912	34,0051912

31	33,7729564	16,8864782	16,8864782
32	16,7711538	8,3855769	8,3855769
33	8,3283085	4,16415425	4,16415425
34	4,13571561	2,0678578	2,0678578
35	2,05373559	1,0268678	1,0268678
36	1,01985491	0,50992746	0,50992746
37	0,50644496	0,25322248	0,25322248
38	0,25149313	0,12574656	0,12574656
39	0,12488779	0,06244389	0,06244389
40	0,06201744	0,03100872	0,03100872
41	0,03079695	0,01539847	0,01539847
42	0,01529331	0,00764666	0,00764666
43	0,00759443	0,00379722	0,00379722
44	0,00377128	0,00188564	0,00188564
45	0,00187276	0,00093638	0,00093638
46	0,00092999	0,00046499	0,00046499
47	0,00046182	0,00023091	0,00023091
48	0,00022933	0,00011467	0,00011467
49	0,00011388	5,6941E-05	5,6941E-05
50	5,6553E-05	2,8276E-05	2,8276E-05
51	2,8083E-05	1,4042E-05	1,4042E-05
52	1,3946E-05	6,9728E-06	6,9728E-06
53	6,9252E-06	3,4626E-06	3,4626E-06
54	3,439E-06	1,7195E-06	1,7195E-06
55	1,7077E-06	8,5387E-07	8,5387E-07
56	8,4804E-07	4,2402E-07	4,2402E-07
57	4,2112E-07	2,1056E-07	2,1056E-07
58	2,0912E-07	1,0456E-07	1,0456E-07
59	1,0385E-07	5,1924E-08	5,1924E-08
60	5,1569E-08	2,5785E-08	2,5785E-08
61	2,5609E-08	1,2804E-08	1,2804E-08
62	1,2717E-08	6,3584E-09	6,3584E-09
63	6,315E-09	3,1575E-09	3,1575E-09
64	3,1359E-09	1,568E-09	1,568E-09
65	1,5573E-09	7,7863E-10	7,7863E-10
66	7,7331E-10	3,8666E-10	3,8666E-10
67	3,8401E-10	1,9201E-10	1,9201E-10
68	1,907E-10	9,5348E-11	9,5348E-11
69	9,4697E-11	4,7348E-11	4,7348E-11
70	4,7025E-11	2,3513E-11	2,3513E-11
71	2,3352E-11	1,1676E-11	1,1676E-11
72	1,1596E-11	5,7981E-12	5,7981E-12
73	5,7585E-12	2,8793E-12	2,8793E-12
74	2,8596E-12	1,4298E-12	1,4298E-12
75	1,42E-12	7,1002E-13	7,1002E-13

76	7,0517E-13	3,5258E-13	3,5258E-13
77	3,5018E-13	1,7509E-13	1,7509E-13
78	1,7389E-13	8,6946E-14	8,6946E-14
79	8,6352E-14	4,3176E-14	4,3176E-14
80	4,2881E-14	2,1441E-14	2,1441E-14
81	2,1294E-14	1,0647E-14	1,0647E-14
82	1,0574E-14	5,2872E-15	5,2872E-15
83	5,2511E-15	2,6255E-15	2,6255E-15
84	2,6076E-15	1,3038E-15	1,3038E-15
85	1,2949E-15	6,4745E-16	6,4745E-16
86	6,4303E-16	3,2152E-16	3,2152E-16
87	3,1932E-16	1,5966E-16	1,5966E-16
88	1,5857E-16	7,9285E-17	7,9285E-17
89	7,8743E-17	3,9372E-17	3,9372E-17
90	3,9103E-17	1,9551E-17	1,9551E-17
91	1,9418E-17	9,7089E-18	9,7089E-18
92	9,6426E-18	4,8213E-18	4,8213E-18
93	4,7884E-18	2,3942E-18	2,3942E-18
94	2,3778E-18	1,1889E-18	1,1889E-18
95	1,1808E-18	5,904E-19	5,904E-19
96	5,8637E-19	2,9318E-19	2,9318E-19
97	2,9118E-19	1,4559E-19	1,4559E-19
98	1,446E-19	7,2298E-20	7,2298E-20
99	7,1805E-20	3,5902E-20	3,5902E-20
100	3,5657E-20	1,7829E-20	1,7829E-20
101	1,7707E-20	8,8534E-21	8,8534E-21
102	8,7929E-21	4,3965E-21	4,3965E-21
103	4,3664E-21	2,1832E-21	2,1832E-21
104	2,1683E-21	1,0842E-21	1,0842E-21
105	1,0768E-21	5,3838E-22	5,3838E-22
106	5,347E-22	2,6735E-22	2,6735E-22
107	2,6552E-22	1,3276E-22	1,3276E-22
108	1,3185E-22	6,5927E-23	6,5927E-23
109	6,5477E-23	3,2739E-23	3,2739E-23
110	3,2515E-23	1,6258E-23	1,6258E-23
111	1,6146E-23	8,0732E-24	8,0732E-24
112	8,0181E-24	4,0091E-24	4,0091E-24
113	3,9817E-24	1,9908E-24	1,9908E-24
114	1,9772E-24	9,8862E-25	9,8862E-25
115	9,8187E-25	4,9093E-25	4,9093E-25
116	4,8758E-25	2,4379E-25	2,4379E-25
117	2,4213E-25	1,2106E-25	1,2106E-25
118	1,2024E-25	6,0118E-26	6,0118E-26
119	5,9708E-26	2,9854E-26	2,9854E-26
120	2,965E-26	1,4825E-26	1,4825E-26

121	1,4724E-26	7,3618E-27	7,3618E-27
122	7,3116E-27	3,6558E-27	3,6558E-27
123	3,6308E-27	1,8154E-27	1,8154E-27
124	1,803E-27	9,0151E-28	9,0151E-28
125	8,9535E-28	4,4767E-28	4,4767E-28
126	4,4462E-28	2,2231E-28	2,2231E-28
127	2,2079E-28	1,104E-28	1,104E-28
128	1,0964E-28	5,4821E-29	5,4821E-29
129	5,4446E-29	2,7223E-29	2,7223E-29
130	2,7037E-29	1,3519E-29	1,3519E-29
131	1,3426E-29	6,7131E-30	6,7131E-30
132	6,6673E-30	3,3336E-30	3,3336E-30
133	3,3109E-30	1,6554E-30	1,6554E-30
134	1,6441E-30	8,2207E-31	8,2207E-31
135	8,1645E-31	4,0823E-31	4,0823E-31
136	4,0544E-31	2,0272E-31	2,0272E-31
137	2,0133E-31	1,0067E-31	1,0067E-31
138	9,998E-32	4,999E-32	4,999E-32
139	4,9649E-32	2,4824E-32	2,4824E-32
140	2,4655E-32	1,2327E-32	1,2327E-32
141	1,2243E-32	6,1216E-33	6,1216E-33



## 2: DETERMINE MODEL PARAMETERS

### Parameters

**Methane Generation Rate, k (year<sup>-1</sup>)** User-specified k value should be based on site-specific data and determined by EPA Method 2E.

User-specified  User-specified value:

**Potential Methane Generation Capacity, L<sub>o</sub> (m<sup>3</sup>/Mg)** User-specified L<sub>o</sub> value should be based on site-specific data and determined by waste type and composition.

User-specified  User-specified value:

**NMOC Concentration (ppmv as hexane)**

CAA - 4,000

**Methane Content (% by volume)**

CAA - 50% by volume

Escenario 9	Total	Metano	CO <sub>2</sub>
1	0	0	0
2	32610589,8	16305294,9	16305294,9
3	49076270,2	24538135,1	24538135,1
4	57524624,2	28762312,1	28762312,1
5	61991691,7	30995845,9	30995845,9
6	64481712,6	32240856,3	32240856,3
7	65989959,5	32994979,8	32994979,8
8	67010671,8	33505335,9	33505335,9
9	67789283,4	33894641,7	33894641,7
10	68447669,5	34223834,7	34223834,7
11	69046353,4	34523176,7	34523176,7
12	34287404,4	17143702,2	17143702,2
13	17026621,1	8513310,56	8513310,56
14	8455169,83	4227584,91	4227584,91
15	4198713,08	2099356,54	2099356,54
16	2085019,21	1042509,6	1042509,6
17	1035389,9	517694,949	517694,949
18	514159,407	257079,703	257079,703
19	255324,005	127662,003	127662,003
20	126790,149	63395,0743	63395,0743
21	62962,1245	31481,0622	31481,0622
22	31266,0657	15633,0329	15633,0329
23	15526,2687	7763,13437	7763,13437
24	7710,11688	3855,05844	3855,05844
25	3828,73073	1914,36537	1914,36537
26	1901,29141	950,645707	950,645707
27	944,153375	472,076687	472,076687
28	468,85269	234,426345	234,426345
29	232,825356	116,412678	116,412678
30	115,61765	57,808825	57,808825

31	57,4140258	28,7070129	28,7070129
32	28,5109615	14,2554807	14,2554807
33	14,1581245	7,07906223	7,07906223
34	7,03071653	3,51535827	3,51535827
35	3,49135051	1,74567525	1,74567525
36	1,73375335	0,86687668	0,86687668
37	0,86095643	0,43047822	0,43047822
38	0,42753831	0,21376916	0,21376916
39	0,21230924	0,10615462	0,10615462
40	0,10542965	0,05271482	0,05271482
41	0,05235481	0,02617741	0,02617741
42	0,02599863	0,01299932	0,01299932
43	0,01291054	0,00645527	0,00645527
44	0,00641118	0,00320559	0,00320559
45	0,0031837	0,00159185	0,00159185
46	0,00158098	0,00079049	0,00079049
47	0,00078509	0,00039255	0,00039255
48	0,00038986	0,00019493	0,00019493
49	0,0001936	9,68E-05	9,68E-05
50	9,6139E-05	4,807E-05	4,807E-05
51	4,7741E-05	2,3871E-05	2,3871E-05
52	2,3708E-05	1,1854E-05	1,1854E-05
53	1,1773E-05	5,8864E-06	5,8864E-06
54	5,8462E-06	2,9231E-06	2,9231E-06
55	2,9032E-06	1,4516E-06	1,4516E-06
56	1,4417E-06	7,2083E-07	7,2083E-07
57	7,1591E-07	3,5796E-07	3,5796E-07
58	3,5551E-07	1,7776E-07	1,7776E-07
59	1,7654E-07	8,8271E-08	8,8271E-08
60	8,7668E-08	4,3834E-08	4,3834E-08
61	4,3535E-08	2,1767E-08	2,1767E-08
62	2,1619E-08	1,0809E-08	1,0809E-08
63	1,0735E-08	5,3677E-09	5,3677E-09
64	5,3311E-09	2,6655E-09	2,6655E-09
65	2,6473E-09	1,3237E-09	1,3237E-09
66	1,3146E-09	6,5731E-10	6,5731E-10
67	6,5283E-10	3,2641E-10	3,2641E-10
68	3,2418E-10	1,6209E-10	1,6209E-10
69	1,6098E-10	8,0492E-11	8,0492E-11
70	7,9943E-11	3,9971E-11	3,9971E-11
71	3,9698E-11	1,9849E-11	1,9849E-11
72	1,9714E-11	9,8568E-12	9,8568E-12
73	9,7895E-12	4,8947E-12	4,8947E-12
74	4,8613E-12	2,4307E-12	2,4307E-12
75	2,4141E-12	1,207E-12	1,207E-12

76	1,1988E-12	5,9939E-13	5,9939E-13
77	5,953E-13	2,9765E-13	2,9765E-13
78	2,9562E-13	1,4781E-13	1,4781E-13
79	1,468E-13	7,34E-14	7,34E-14
80	7,2898E-14	3,6449E-14	3,6449E-14
81	3,62E-14	1,81E-14	1,81E-14
82	1,7976E-14	8,9882E-15	8,9882E-15
83	8,9269E-15	4,4634E-15	4,4634E-15
84	4,4329E-15	2,2165E-15	2,2165E-15
85	2,2013E-15	1,1007E-15	1,1007E-15
86	1,0932E-15	5,4658E-16	5,4658E-16
87	5,4284E-16	2,7142E-16	2,7142E-16
88	2,6957E-16	1,3478E-16	1,3478E-16
89	1,3386E-16	6,6932E-17	6,6932E-17
90	6,6475E-17	3,3237E-17	3,3237E-17
91	3,301E-17	1,6505E-17	1,6505E-17
92	1,6392E-17	8,1962E-18	8,1962E-18
93	8,1402E-18	4,0701E-18	4,0701E-18
94	4,0423E-18	2,0212E-18	2,0212E-18
95	2,0074E-18	1,0037E-18	1,0037E-18
96	9,9683E-19	4,9841E-19	4,9841E-19
97	4,9501E-19	2,475E-19	2,475E-19
98	2,4581E-19	1,2291E-19	1,2291E-19
99	1,2207E-19	6,1034E-20	6,1034E-20
100	6,0617E-20	3,0309E-20	3,0309E-20
101	3,0102E-20	1,5051E-20	1,5051E-20
102	1,4948E-20	7,474E-21	7,474E-21
103	7,4229E-21	3,7115E-21	3,7115E-21
104	3,6861E-21	1,8431E-21	1,8431E-21
105	1,8305E-21	9,1524E-22	9,1524E-22
106	9,0899E-22	4,5449E-22	4,5449E-22
107	4,5139E-22	2,2569E-22	2,2569E-22
108	2,2415E-22	1,1208E-22	1,1208E-22
109	1,1131E-22	5,5656E-23	5,5656E-23
110	5,5276E-23	2,7638E-23	2,7638E-23
111	2,7449E-23	1,3725E-23	1,3725E-23
112	1,3631E-23	6,8154E-24	6,8154E-24
113	6,7688E-24	3,3844E-24	3,3844E-24
114	3,3613E-24	1,6807E-24	1,6807E-24
115	1,6692E-24	8,3459E-25	8,3459E-25
116	8,2889E-25	4,1444E-25	4,1444E-25
117	4,1161E-25	2,0581E-25	2,0581E-25
118	2,044E-25	1,022E-25	1,022E-25
119	1,015E-25	5,0751E-26	5,0751E-26
120	5,0405E-26	2,5202E-26	2,5202E-26



121	2,503E-26	1,2515E-26	1,2515E-26
122	1,243E-26	6,2148E-27	6,2148E-27
123	6,1724E-27	3,0862E-27	3,0862E-27
124	3,0651E-27	1,5326E-27	1,5326E-27
125	1,5221E-27	7,6105E-28	7,6105E-28
126	7,5585E-28	3,7792E-28	3,7792E-28
127	3,7534E-28	1,8767E-28	1,8767E-28
128	1,8639E-28	9,3195E-29	9,3195E-29
129	9,2559E-29	4,6279E-29	4,6279E-29
130	4,5963E-29	2,2982E-29	2,2982E-29
131	2,2825E-29	1,1412E-29	1,1412E-29
132	1,1334E-29	5,6672E-30	5,6672E-30
133	5,6285E-30	2,8142E-30	2,8142E-30
134	2,795E-30	1,3975E-30	1,3975E-30
135	1,388E-30	6,9398E-31	6,9398E-31
136	6,8924E-31	3,4462E-31	3,4462E-31
137	3,4227E-31	1,7113E-31	1,7113E-31
138	1,6997E-31	8,4983E-32	8,4983E-32
139	8,4402E-32	4,2201E-32	4,2201E-32
140	4,1913E-32	2,0957E-32	2,0957E-32
141	2,0813E-32	1,0407E-32	1,0407E-32

