Table 1a. Annual Respondent Burden and Cost NSPS

for Publically-Owned Municipal Solid Waste Landfills - (40 CFR Part 63, Subpart WWW) (Renewal)

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Burden Item	(A) Respondent Hours per Occurrence	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A × C)	(E) Technical Hours per Respondent Per Year (A × C)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$117.92 (E×F)	(H) Clerical Hours per Year @ \$57.02 (H × 0.1)	(I) Management Hours per Year @ \$147.40 (H × .05)	(J) Total Labor Costs Per Year ⁵	(K) Total Annualized Non-Labor Capital and 0&M Costs Per Year (B1+B2) × (C × F)
1. Applications	n	a										
Surveys and Studies	na											
Reporting Requirements												
A. Familiarization with Regulatory Requirements ^c	5	\$0		1	0	1	238	238	23.80	11.90	\$31,174.78	\$0
B. Required Activities												
 Sitiral Defremance tentreport duarterly 	12	\$1,983.66	\$1,000.00	1	0	12	0	0	0	0	\$0	\$0
a,e,f	44	\$703.50		4	176	0	0	0	0	0	\$0	\$0
3. Wellhead monitoring monthly aef	40	\$17.00		12	480	0	0	0	0	0	\$0	\$0
C. Create Information	Include	d in 3B										
D. Gather Information	Include	d in 3B										
E. Report Preparation												
1. Initial design capacity report 9	2	\$0		1	0	2	0	0	0	0	\$0	\$0
2. Amended design capacity report 9	2	\$0		1	0	2	0	0	0	0	\$0	\$0
3. Report of NMOC rate (Tier 1) e	8	\$0		1	0	8	0	0	0	0	\$0	\$0
4. Report of NMOC rate (Tier 2) e,h	12	\$2,708,28		1	0	12	0	0	0	0	\$0	\$0
5. Landfill Closure Report ^e	1	\$0		1	0	1	0	0	0	0	\$0	\$0
6. Equipment Removal Report ^e	36	\$0		1	0	36	0	0	0	0	\$0	\$0
7. Collection and Control System Design	80	\$0		1	0	80	0	0	0	0	\$0	\$0
8. Revised design plan ^e	20	\$0		1	0	20	0	0	0	0	\$0	\$0
9. Initial Performance Test	Include			-		20		0	-	- "	Ψ0	40
10. Compliance Report	Include											
11. Annual Report ^e	27	\$0		1	0	27	0	0	0	0	\$0	\$0
Subtotal for Reporting Requirements		90		-	•				273.70	_ •	\$31,174.78	\$0
Recordkeeping Requirements									213.70		ψ01,11≒.70	40
A. Read Instructions	Include	d in 3a										
B. Plan Activities	n											
C. Implement Activities	n											
D. Develop Record System	n											
E. Record Information												
(controllers) e	5	\$0		12	0	60	0	0	0	0	\$0	\$0
2. Recordkeeping and Data Storage	11	\$0		12	0	132	0	0	0	0	\$0	\$0
3. Recorakéeping and Data Storage												
(others) e	4	\$0		1	0	4	0	0	0	0	\$0	\$0
E. Personnel Training	n											
F. Time for Audits	n.	a I										
Subtotal for Recordkeeping Requirements									0		\$0	\$0
TOTAL LABOR BURDEN AND COSTS (rounded)									274		\$31,200	\$0
TOTAL CAPITAL AND O&M COST (rounded)												\$0
GRAND TOTAL (rounded)												\$31,200

FOOTNOTES

- a. We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- This ICR uses the following labor rates: \$147.40 per hour for Executive, Administrative, and Managerial labor; \$117.92 per hour for Technical labor, and \$57.02 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2018 "Table 2. Civilian Workers, by Occupational and Industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c We have assumed that it will take five hours for each respondent to read instructions as part of their reporting requirements. Based on the regulatory database, 64% of these respondents are private and 36% are public. There are a total of 1.147 existing MSW landfills estimated have a design capacity of 2.5 million Mg or more and expected to review the rule requirements. Of these it is estimated that 60 percent of respondents are subject to Subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cc. There are no new sources articipated. If a landfill constructs or modifies after July 17, 2014, the landfill will be subject to Subpart XW.
- Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual QMM cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- No respondents are included here because the burden are accounted for in the estimates for the corresponding burden line items under the ICRs for 40 CFR Part 60 Subpart XXX (ICR 2498.03, OMB 2060-0697) and 40 CFR Part 60 Subpart Cf (ICR 2522.02, OMB 2060-0720).
- For surface monitoring: The average acreage of controlled sites is estimated to be 174 acres (44 labor hours @ 0.25 hours per acre). We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gasses and hydrogen fuel to operate the surface monitoring equipment. Selfs of which are public and 64% of which are public and 64% of which are public and 64% of which we public and 64% of which are p
- No respondents are estimated here because the facilities have already submitted initial design capacity reports under WWW. Amended design capacity reports would be submitted as sources were modified with additional capacity and would become subject to subpart XXX. In Based on the annualized capital costs for conducting a method 25, method 25A or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.

Table 1b: Annual Respondent Burden and Cost - NSPS

for Privately-Owned Municipal Solid Waste Landfills - (40 CFR Part 63, Subpart WWW) (Renewal)

10	r Privately-Ow	neu municij	Dai Soliu Wa	ste Landfills - (4	CFR Part 63	Suppart ww	vvv) (Renewai	,				
Burden Item	(A) Respondent Hours per Occurrence	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A × C)	(E) Technical Hours per Respondent Per Year (A × C)	(F) Number of Respondents Per Year	(G) Technical Hours per Year @ \$117.92 (E×F)	(H) Clerical Hours per Year @ \$57.02 (H × 0.1)	(I) Management Hours per Year @ \$147.40 (H×.05)	(J) Total Labor Costs Per Year ^b	(K) Total Annualized Non-Labor Capital and O&M Costs Per Year (B1+B2) × (C × F)
1. Applications												
2. Surveys and Studies	n											
3. Reporting Requirements	n	1										
or reporting requirements												
A. Familiarization with Regulatory Requirements c	5	\$0		1	0	1	423	423	42.30	21.15	\$55,407.27	\$0
B. Required Activities	5	20		1	0	1	423	423	42.30	21.15	\$35,407.27	\$0
	10	\$1,983.66	\$1,000		0		_			0	***	***
2: swittelenterrane and antifred the section of the	12		\$1,000	1		12	0	0	0		\$0	\$0
	44	\$703.50		4	176	0	0	0	0	0	\$0	\$0
Wellhead monitoring monthly a.e.f C. Create Information	40	\$17		12	480	0	0	0	0	0	\$0	\$0
	Include											
D. Gather Information E. Report Preparation	Include	d in 3B										
Initial design capacity report 9	2	\$0		1	0	2	0	0	0	0	\$0	\$0
2. Amended design capacity report ^g	2	\$0		1	0	2	0	0	0	0	\$0	\$0
3. Report of NMOC rate (Tier 1) e	8	\$0		1	0	8	0	0	0	0	\$0	\$0
4. Report of NMOC rate (Tier 2) e,h	12	\$2,708.28		1	0	12	0	0	0	0	\$0	\$0
5. Landfill Closure Report ^e	1	\$0		1	0	1	0	0	0	0	\$0	\$0
6. Equipment Removal Report ^e	36	\$0		1	0	36	0	0	0	0	\$0	\$0
7. Collection and Control System Design												
Plan e	80	\$0		1	0	80	0	0	0	0	\$0	\$0
8. Revised design plan e	20	\$0		1	0	20	0	0	0	0	\$0	\$0
Initial Performance Test	Include											
10. Compliance Report	Include											
11. Annual Report ^e	27	\$0		1	0	27	0	0	0	0	\$0	\$0
Subtotal for Reporting Requirements							-	-	486.45		\$55,407.27	\$0
Recordkeeping Requirements									400.43		\$33,401.21	40
A. Read Instructions	Include	l in 3a										
B. Plan Activities	n											
C. Implement Activities	n											
D. Develop Record System	n											
E. Record Information												
Data Compilation and Review (controllers) ^e	5	\$0		12	0	60	0	0	0	0	\$0	\$0
Recordkeeping and Data Storage												
(controllers) e	11	\$0		12	0	132	0	0	0	0	\$0	\$0
Recordkeeping and Data Storage												
(others) ^e E. Personnel Training	4	\$0		1	0	4	0	0	0	0	\$0	\$0
F. Time for Audits	n											
Subtotal for Recordkeeping Requirements	n	1							0		***	
Subtotal for Recordineeping Requirements	1		-					-	U		\$0	\$0
TOTAL LABOR BURDEN AND COSTS (rounded)									486		\$55,400	\$0
TOTAL CAPITAL AND O&M COST (rounded)									486		\$55,400	\$0 \$0
GRAND TOTAL (rounded)	1											
GRAND TOTAL (Tourided)	1					I				l	l	\$55,400

FOOTNOTES

a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.

This ICR uses the following labor rates: \$147.40 per hour for Executive, Administrative, and Managerial labor; \$117.92 per hour for Technical labor, and \$57.02 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2018
"Table 2. Civilian Workers, by Occupational and Industry group." The rates are from column 1, "Total compensation." The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.

We have assumed that it will take five hours for each respondent to read instructions as part of their reporting requirements. Based on the regulatory database, 64% of these respondents are private and 36% are public. There are a total of 1,147 existing MSW landfills estimated have a design capacity of 25 miles? In the province of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondent of a federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondent of the respondent of the subject to 5 subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cr. There are no new sources influenced and the province of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subpart WWW and 40 percent of the respondents are subject to 5 subject to 5 subject to 5 subject to 5 subject

Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICA comment

No respondents are included here because the burden are accounted for in the estimates for the corresponding burden line items under the ICRs for 40 CFR Part 60 Subpart XXX (ICR 2498.03, OMB 2060-0697) and 40 CFR Part 60 Subpart Cf (ICR 2522.02, OMB 2060-0720).

For surface monitoring: The average acreage of controlled sites is estimated to be 174 acres (44 labor hours @ 0.25 hours per acre). We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuse to operate the surface monitoring equipment. 36% of which are public and 64% of which are pub

g No respondents are estimated here because the facilities have already submitted initial design capacity reports under WWW. Amended design capacity reports would be submitted as sources were modified with additional capacity and would become subject to subpart XXX.

h Based on the annualized capital costs for conducting a method 25, method 25A or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.

Table 1c: Annual Respondent Burden and Cost Breakdown by Affected Sector - NSPS for Municipal Solid Waste I

			Labor Hours				
Affected Sector	Number of Respondents per Year (Average)	Number of Responses Per Year (Average)	Reporting	Recordkeeping	Total		
Total	661	661	760	0	760		
Private Sector Only	423	423	486	0	486		
Public Sector Only	238	238	274	0	274		

Landfills (40 CFR Part 60, Subpart WWW) (Renewal)

Labor Cost	Capital and O&M Cost	Total Costs
\$86,600	\$ -	\$86,600
\$55,400	\$ -	\$55,400
\$31,200	\$ -	\$31,200

Table 2 Average Annual EPA Burden and Cost - NSPS for Municipal Solid Waste Landfills (40 CFR Part 63, Subpart WWW) (Renewal)

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=A×B)	Technical hours per year (D=C)	Management hours per year (E=D×0.05)	Clerical hours per year (F=D×0.1)	(G) Costs, \$ f
Familiarization with Regulatory Requirements ^a	5	10	50	50	3	5	\$2,733.80
Enter and update information into agency recordkeeping system b							7=,::00:00
	2	0	0	0	0	0	\$0
3. Required activities		-		-		<u> </u>	, -
A. Observe initial performance test °	12	0	0	0	0	0	\$0
B. Observe surface methane monitoring quarterly °	20	0	0	0	0	0	\$0
C. Review operating parameters °	1	0	0	0	0	0	\$0
D. Review continuous parameter monitoring °	1	0	0	0	0	0	\$0
E. Review notification of performance test °	2	0	0	0	0	0	\$0
4 Excess Emissions Enforcement Activities d	24	43	1,032	1,032	51.60	103.20	\$56,425.63
5 Notification requirements							
A. Review amended design capacity report ^e	2	0	0	0	0	0	\$0
6. Reporting requirements							
A. Review initial design capacity report ^e	1	0	0	0	0	0	\$0
B. Review annual NMOC emission rate report °	2	0	0	0	0	0	\$0
C. Review landfill closure report °	1	0	0	0	0	0	\$0
D. Review equipment removal report °	1	0	0	0	0	0	\$0
E. Review Collection and Control System Design Plan °	15	0	0	0	0	0	\$0
F. Review Revised Collection and Control System Design Plan °	5	0	0	0	0	0	\$0
G. Review Initial Performance Test °	12	0	0	0	0	0	\$0
H. Review Annual Report °	2	0	0	0	0	0	\$0
	3 days * (\$134 trip) = \$1191 p		als/incidentals) + (\$600 round			\$0
TOTAL ANNUAL BURDEN AND COST 1					1,240		\$59,200

a This ICR estimates that staff from each EPA region will familiarize themselves with the requirements of this subpart each year, to account for staff transitions.

b Number of occurrences is based on the total number of landfills that are subject to the standard. This line item is accounted for under ICRs for 40 Part 60 Subpart XXX (ICR 2498.03, OMB 2060-0697) and 40 CFR Part 60 Subpart Cf (ICR 2522.02, OMB 2060-0720).

c Number of occurrences is estimated to be zero. This line item is accounted for under ICRs for 40 Part 60 Subpart XXX (ICR 2498.03, OMB 2060-0697) and 40 CFR Part 60 Subpart Cf (ICR 2522.02, OMB 2060-0720) and is not duplicated here.

d Number of occurrences is based on the assumption that of the landfills that control emissions, 10% of them will have exceedances and need enforcement. There are estimated to be 719 existing landfills MSW landfills estimated have a design capacity of 2.5 million Mg or more and meet the emission threshold 50 Megagrams per year or more of NMOC. Of these it is estimated that 60 percent of respondents are subject to Subpart WWW and 40 percent of the respondents are subject to a state or federal plan implementing Subpart Cf and so only the fraction of units anticipated to be covered under WWW for enforcement are estimated here. There are no new sources anticipated. If a landfill constructs or modifies after July 17, 2014, the landfill will be subject to Subpart XXX and not WWW.

e No respondents are estimated here because the facilities have already submitted initial design capacity reports under WWW. Amended design capacity reports would be submitted as sources were modified with additional capacity and would become subject to subpart XXX.

f This cost is based on the following hourly labor rates: \$65.71 for Managerial (GS-13, Step 5, \$41.07 + 60%), \$48.75 for Technical (GS-12, Step 1, \$30.47 + 60%) and \$26.38 Clerical (GS-6, Step 3, \$16.49 + 60%). These rates are from the Office of Personnel Management (OPM) "2018 General Schedule" which excludes locality rates of pay. These rates have been increased by 60 percent to account for the benefit packages available to government

employees.

If there are no unps estimated since this line item is accounted for under ions in 40 Fat to Suppart AAA (ICR 2430.03, OWB 2000-0037) and 40 FR Fat to Suppart Of Iora 2322.02, Owib 2000-0720) and under ions in the United States. Airfares are estimated based on experience from other rulemakings. See: http://www.gsa.gov/portal/category/100120