Appendix F

Economic Impact Analysis Methodology

Appendix F

Economic Impact Analysis Methodology

A. Limitations and Scope of This Analysis

Landfills vary in size, geometry, deposited waste composition, type of cover, topography, surrounding area geological characteristics, and local climate. These factors and others act in dynamic combination to affect both the rate of landfill gas production and its duration.

Due to the complex interaction of the above-mentioned factors, comprehensive site assessments are performed as a preliminary step in developing a design plan for installation of a landfill gas collection and control system. A site assessment includes on-site measurement and analyses of the above-mentioned factors that influence collection and control system design. ARB staff acknowledges that these steps are critical in designing and implementing a collection and control system. When examining landfills as an entire statewide emission source category, ARB does not have the resources to perform individual site assessments and prepare comprehensive design plans for all of the affected landfills in order to develop cost estimates.

ARB cost estimates are based on average or typical costs for the operations or actions necessary to comply with the proposed regulation, with the caveats and limitations inherent in using average or typical cost information; it is acknowledged that the actual costs to an affected landfill may be lower or higher than estimated, but the total cost to all affected landfills is expected to be consistent with stated estimates.

The individual landfill compliance threshold trigger dates stated in this analysis are generated for cost estimation purposes only and are not intended to indicate actual compliance dates. Actual compliance dates for individual landfills should be determined by the methods specified in the proposed regulation.

It should be noted that this analysis assumes the scenario where the sole compliance control method used is enclosed flare technology. Many landfills, especially larger ones, successfully employ various alternative technologies to use the captured landfill gas to generate energy for use at the landfill or for other purposes. Due to the specialized nature and objectives of these projects and their costs, no attempt was made to include these projects in the cost analysis nor predict the future rate at which landfills operators may choose this compliance option. To the extent that these projects produce a profit, compliance costs may be reduced for those landfill operations that choose this type of compliance option.

The analysis approach method used for this proposed regulation is consistent with methodologies used for other air quality regulations, but differs from the traditional analysis approach typically used in engineering economic analyses. In traditional

engineering economic analyses, analysis methods are used to determine the point at which a selected parameter is maximized while the cost is minimized (highest cost/benefit ratio). This approach is not used in this analysis. For this and other air quality regulations, the setting of air quality standards or levels are primarily based upon technical feasibility determinations and maximizing public health protection, with compliance costs being a secondary concern.

This analysis is an estimate of the incremental cost of the proposed regulation to both businesses (private) and government agencies (local, State, federal, tribal, and military). Incremental costs are the costs (or savings) to an affected landfill resulting from compliance actions required by the proposed regulation. These costs do not include the normal cost of operation ("cost of doing business") encountered without the proposed regulations' requirements.

B. Methodology

Using individual landfill data obtained from the California Integrated Waste Management Board (CIWMB) (CIWMB, 2009), the 218 affected California landfills were separated into two categories, those that are estimated to be subject to reporting requirements only, and those that would be subject to reporting requirements as well as monitoring and possibly control requirements. The data used to determine the appropriate cost category included: waste-in-place (WIP) in tons projected for the year 2020 (target year for emission reductions for this proposed regulation under the AB 32 guidelines), landfill opening and closing (projected if still open) dates, existing control type (if any), local air district location (used to determine appropriate monitoring costs), and design size (acres). Costs for these two categories were calculated separately.

Table F-1 (next page) shows the cost categories and the parameters that place landfills into those categories.

Table F-1. Landfill Cost Categories (with > 450,000 Tons WIP and >= 3.0 MM Btu/hr)

Cost Category	Applicability
Capital (initial)	- Uncontrolled Landfills
	- Landfills w/ Open Flares ¹
Operation and Maintenance	- Uncontrolled Landfills
	- Landfills w/ Open Flares
Monitoring	- Controlled Landfills
	- Uncontrolled Landfills
	- Landfills w/ Open Flares
Reporting	- All Affected Landfills

1. Treated as a separate category because these landfills are required to install enclosed flares (with associated costs) by 2018.

C. Costs to Landfills Subject to Reporting Only Requirements

For the landfills forecast to be subject only to the reporting requirements of the proposed regulation (72 landfills), the costs were determined based on forecast waste-in-place data and calculated annual gas heat capacity. This group of landfills was further divided into two subgroups, those expected to need to file waste-in-place reports only (32 landfills) and those expected to file both report types (40 landfills). Neither subgroup is projected to need to comply with the monitoring requirements nor install gas collection and control systems.

The cost calculations for both the waste-in-place and landfill gas heat input capacity reports are shown on Worksheet 3 (Cost Subtotals) under Items 1 and 2. The labor rates selected are the mean hourly rates from the United States Bureau of Labor Statistics, for the San Francisco-Oakland-Fremont, California area (highest cost area of California) (USDL, 2009a). Since these labor rates are the latest available (May 2007), they are adjusted to year 2008 dollars using Adjustment Factor 1 in Table F-2 on the next page. An adjustment for benefits, etc., is made using Adjustment Factor 2, an assumed 50 percent markup of labor costs to estimate the cost to an employer of an employee (USDL, 2009b). The markup was based on observed labor markup rates of 37 percent to 46 percent for federal, State, and local government employment, as well as for the private sector. The Adjusted Rates are used for hourly labor costs in this analysis.

Occupation	Unadjusted Rate (\$/hr)	Adjustment Factor 1	Adjustment Factor 2	Adjusted Rate (\$/hr)
Civil Engineer ¹	39.22	1.05	1.5	61.77
Civil Engineering Technician ²	30.10	1.05	1.5	41.41
Secretaries, Exc. Legal, Medical, and Exec. ¹	27.84	1.05	1.5	43.85

1. These rates are used to calculate the reporting costs.

2. This rate is used to calculate monitoring costs.

For preparation and submittal of both types of reports, it is assumed that the services of both a Civil Engineer and a Secretary will be needed. The waste-in-place reports required by the proposed regulation are also required by CIWMB on a less frequent basis than ARB; it is expected that the same report (with suitable updating) can be submitted to satisfy the waste-in-place requirement.

The per-report cost is used along with the operational status (open or closed/inactive) data for the affected landfills to determine the total reporting cost per landfill and also by owner/operator status (private and government) categories.

D. Costs to Landfills Subject to Reporting, Monitoring, and Control Requirements

Affected landfills in this group are potentially subject to incur compliance costs in all four of the cost categories listed in Table F-1.

Each affected landfill is listed in Worksheet 2 (MSW-Accepting Landfills Forecast to be Subject to Control Requirements); under each listing are four rows, each corresponding to one of the cost categories. (Unit costs are itemized and calculated on Worksheet 3 (Cost Subtotals.)) These rows are used to calculate the cost for that category for the landfill, if it is expected to incur expenses in that category. These calculations are as follows:

First Row: Used to calculate lump-sum and uniform annual payments for capital expenditure for landfills that will: 1) Need to install collection/control systems (landfills with no existing controls or carbon adsorption control), or 2) Those that will need to install enclosed flares (those currently equipped with open flares) by 2018, per the proposed regulation's requirements. Landfills with existing combustion control systems are expected to meet the proposed regulation's control efficiency requirements without incurring any additional costs, so for these landfills this row is blank.

1) Collection and control system costs for landfills with no existing collection and control systems are calculated using the maximum waste footprint (expressed in acres) supplied by CIWMB and multiplied by a per-acre cost (USEPA, 2009). The per-acre

cost is adjusted to year 2008 dollars under Heading 5a (Installation of New Collection and Control System--Capital Cost Landfills) on Worksheet 3 (Cost Subtotals).

2) For landfills that will need to install enclosed flares, the predicted maximum heat input (in MMBtu/hr) is used to look up the appropriate enclosed flare cost information on Worksheet 3 under Heading 4, Upgrade of Existing Collection/Control System--Capital Cost. It should be noted that these costs are approximate, given the instability of material and labor costs, as well as site specific issues such as electrical service costs. It is assumed that none of the landfills with open flares will be able to continue operating them after the year 2018 (though under certain conditions it may be permissible to do so), and that all open flares will be replaced with enclosed flares in the year 2018.

For both control scenarios listed under 1) and 2) above, a 15-year amortization period is assumed, and the costs are expressed as a series of uniform payments starting in the compliance year. These costs are for the design, siting, and initial equipment costs only; annual operation and maintenance costs are discussed in the next section.

Second Row: Used to calculate annual operation and maintenance (O&M) costs. For landfills that will need to install collection and control systems or upgrade to an enclosed flare, operation and maintenance costs are considered a compliance cost. This is due to the assumption that these costs were either previously not incurred by the landfill or were at a significantly lower level, in the case of open flares. O&M costs are calculated as the product of the maximum waste footprint of the landfill (expressed in acres) multiplied by a per-acre cost (U.S. EPA, 2009) adjusted to year 2008 dollars. Also included in the total O&M cost is an allowance (\$25,000/yr) for an annual emissions source test, which is typically required by a local air district as a permit condition.

As with the capital costs discussed in the First Row above, landfills with existing combustion control systems are expected to meet the proposed regulation's control efficiency requirements without incurring any additional O&M costs, so for these landfills this row is labeled "Existing".

Third Row: This row is used to calculate monitoring costs. Costs for emission monitoring are calculated using the rates on Worksheet 3, under Item 3b, Surface Emissions/Control & Collection System Monitoring--Cost per Landfill-Acre. Emission monitoring work may be performed by landfill operations staff or outsourced. Due to the lack of data on the current extent of outsourced monitoring work as well as the recognition that the extent may change over time (as landfills decide to outsource the work or bring it in-house, or vice-versa), this analysis assumes that all landfills will perform their own monitoring work, and that the work will be performed by a Civil Engineering Technician (see Table F-2 for hourly rate).

Note that two different per-landfill acre rates are used, one for landfills located in the SCAQMD, and a second for all others. Different rates are used due to the differences in expected compliance actions.

Landfills in the SCAQMD are currently performing surface and collection/control equipment emission monitoring that is substantially equivalent to the requirements of the proposed regulation. Compliance for these SCAQMD landfills also includes landfill surface integrity repair work (landfill cover repairs) to mitigate emissions and meet the emission limits under SCAQMD Rule 1150.1. For these reasons, the additional or incremental cost for monitoring and surface integrity work to comply with the proposed regulation is expected to be significantly less than that for non-SCAQMD landfills.

The monitoring cost rate for non-SCAQMD landfills takes into account an increased amount of monitoring time per acre to meet a more stringent standard than either local air district (non-SCAQMD) or U.S. EPA standards. In addition to a higher monitoring cost rate, a \$50/acre average allowance for increased landfill surface integrity work (landfill cover repairs) is included. This allowance is included to account for increased landfill surface repair work necessary to meet the emission standards of the proposed regulation. It is an assumption based on landfill cover repair cost allowances submitted in selected reviewed landfill closure plans; there are several variables influencing the actual cost, which cannot be predicted with any degree of certainty. These variables include: availability of on-site heavy equipment such as loaders, graders, etc. (availability more common for open landfills); need to contract out surface repair work, i.e., bring in equipment and personnel to do work; availability of fill material; and present and future condition of the landfill cover.

Monitoring costs for all landfills include a one-time, upfront \$48,000 allowance for purchasing monitoring and related calibration equipment, though it is recognized that many landfills already subject to emission monitoring requirements may already possess monitoring equipment or have contracts in place for monitoring work.

Fourth Row: Used to calculate the reporting costs incurred by a landfill. The same methodology is used as for the landfills in the Reporting Only cost category, please see Section C above for an explanation of the calculation process.

The compliance costs in each of the four categories described above are summed by category at the bottom of Worksheet 2 for all affected landfills and also by ownership status (for businesses and government agencies).

E. Total Cost of Proposed Regulation to Businesses and Government Agencies

The total cost of the proposed regulation (except for enforcement and related costs to ARB) to directly-affected businesses and government agencies is summarized in Worksheet 9.

Costs to State agencies (other than those related to compliance by affected landfills) are outlined and calculated in Sections 6a through 6e of Worksheet 3 (Cost Subtotals.) These non-landfill related State agency costs are only expected to be incurred by ARB

in activities related to the enforcement, monitoring, compliance, and outreach efforts related to the proposed regulation.

References for Appendix F

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U.S. EPA, 2009. United States Environmental Protection Agency, Landfill Methane Outreach Program. <u>LFG Energy Project Development Handbook, Chapter 4, Project</u> <u>Economics and Financing, pg. 4-3.</u> Online Publication: Website Accessed, March 23, 2009. http://epa.gov/lmop/res/pdf/pdh_chapter4.pdf

This Excel file with 5 spreadsheets, is part of A	ppendix F, STAFF REPORT: INITIAL STATEMENT OF REASONS
	DUCE METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS
California Air Resources Board, Sacramento, C	A
Description of Terms and Columns (also see	e Excel comment boxes on worksheets)
Name	Description
CO	County Number
AB	Air Basin Abbreviation
DIS	District Abbreviation
CIWMB SWIS File Number	California Integrated Waste Management Board (CIWMB) Solid Waste Information System (SWIS) ID
#	A number to indicate how many landfills are in that row (usually 1, but sometimes 2 or 3 may be grouped into a single row)
Facility/Site Name	From SWIS
Open Year	From SWIS or Survey, where it is red and in parenthesis, it means this was not available and ARB estimated it.
Close Year	From SWIS or Survey
1990 WIP (Tons)	Cumulative Waste-In-Place (WIP) for all years up to 1990 in short tons (Tons)
2005 WIP (Tons)	Cumulative Waste-In-Place (WIP) for all years up to 2005 in short tons (Tons)
"Current" 2006 Control Type	Type of control for captured LFG (based on the most current 2006 CIWMB data or Survey data)
2020 Reductions	Estimate of reductions from each landfill if they install gas collection with combustion as the control method
File Index	(Worksheet Tab Name)/Worksheet Title
	(Read Me)/This is the worksheet that you are now reading.
Worksheet 1	(Landfills_(All)/Total Number of CA MSW-Accepting Landfills
Worksheet 2	(Landfills_Controlled)/MSW-Accepting Landfills Forecast to be Subject to Control Requirements
Worksheet 3	(Cost_Subtotals)/Cost Subtotals
Worksheet 4	(Cost-Effectiveness)/Estimated Cost-Effectiveness
Worksheet 5	(Cost_Summary)/Cost Summary

Wo	rkshe	et 1		Total	Number of CA MSW-Accer	oting Land	lfills						
			3/19/2009		•								
Court		liforni		lasta Ma	no noment Decird								
Sou	rce: Ca	alitorni	a integrated v	vaste ivia	nagement Board								
Lan	JC:11 NA			o (Amril 4	2, 2008)								
Lan	atili ivi	oder C	H4 Emissior CIWMB	IS (April .	3, 2008)	Max. Waste							
				o	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
со	AB	DIS	Number	Count ^a	Facility/Site Name	-	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
19	SC	SC	19-AK-0084	1	Paramount Dump	(acres) 17.4	1921	1948	250,000	250,000	250,000	2004	Venting
19	SC	SC	19-AA-0580	1	Blanchard Street Dump	20	1921	1948	250,000	250,000	250,000	2004	venting
19			19-AQ-0005	1	Blanchard Street Dump	20	1931	1900	230,000	230,000	230,000		
19	SC	SC	19-AQ-0003	2	BKK Carson	300	1948	1959	500,000	500,000	500,000		
37	SD	SD	37-AA-0026	1	Mission Bay Landfill #1	115	1940	1959	750,000	750,000	750,000		
19	SC	SC	19-AA-0581	1	Cogen	28	1952	1959	750,000	750,000	750,000		
19	SC	SC	19-AQ-0010	1	Garden Valley 1 and 2	29	1932	1959	3,000,000	3,000,000	3,000,000		
36	SC	SC	36-CR-0059	1	Waterman LF	24	1933	1960	300,000	300,000	300,000	2006	Combustion
			30-AB-0356	-					,		000,000		
30	SC	SC	30-AB-0359	2	Longsdon Pit	12	1957	1960	400,000	400,000	400,000		
19	SC	SC	19-AK-5004	1	City Dump & Salvage 2	8	1934	1961	75,000	75,000	75,000	2004	Venting
19	SC	SC	19-AK-5017	1	City Dump & Salvage 4	9	1934	1961	80,000	80,000	80,000	2004	Venting
30	SC	SC	30-AB-0166	1	Sparks-Rains LF	18	1934	1961	258,300	258,300	258,300	1999	Combustion
19	SC	SC	19-AR-1199	1	Branford LF	160	1957	1961	435,000	435,000	435,000		
19	SC	SC	19-AK-5003		City Dump & Salvage 1 & 3	100	1940	1961	1,000,000	1,000,000	1,000,000	1995	Combustion
37	SD	SD	37-AA-0027	1	Hillsborough	16	1935	1962	350,000	350,000	350,000	1996	Combustion
30	SC	SC	30-AB-0014	1	Gothard Street Landfill	11	1956	1962	813,200	813,200	813,200	2000	Venting
37	SD	SD	37-AA-0017	1	Duck Pond	2.5	1936	1963	25,000	25,000	25,000	1996	Combustion
19	SC	SC	19-CR-5517	1	Gaffey St.	17	1955	1963	900,000	900,000	900,000	2000	Carbon
19	SC	SC	19-AA-0778	1	Russell Moe Landfill	20	1937	1964	250,000	250,000	250,000		
30	SC	SC	30-CR-0063	1	Lane Road Disposal Station 21	106	1961	1964	584,000	584,000	584,000		
34	SV	SAC	34-CR-5047	1	Elvas Avenue DS	10	1938	1965	75,000	75,000	75,000		
19	SC	SC	19-AQ-0016	1	Gardena Valley #6 (Don Kott Ford)	7.7	1938	1965	165,000	165,000	165,000	2000	Combustion
19	SC	SC	19-AR-5036		Gregg Pit/Pick-Your-Part	100	1938	1965	500,000	500,000	500,000	1993	Combustion
19	SC	SC	19-AQ-0012	1	Cal Compact/Metro LF	157	1959	1965	3,000,000	3,000,000	3,000,000	2000	Combustion
19	SC	SC	19-AA-5321	1	Torrance Municipal Dump	15	1939	1966	150,000	150,000	150,000		
30	SC		30-CR-0020	1	Villa Park		1962	1966	200,000	200,000	200,000	1996	Combustion
37	SD		37-CR-0088	1	Bell Jr. High/Sweetwater II	9	1939	1966	250,000	250,000	250,000	1994	Combustion
30	SC	SC	30-AB-0168	1	Newport Terrace LF	17	1940	1967	150,000	150,000	150,000	2004	Venting
19	SC		19-AQ-0009	1	Southwest Conservation District LF	24	1941	1968	400,000	400,000	400,000	1995	Combustion
37	SD		37-AO-0009	1	Old San Marcos	24	1941	1968	400,000	400,000	400,000		
	SCC		42-CR-0015	1	Ballard Canyon	10	1942	1969	50,000	50,000	50,000		
21	SF		21-AA-0047	1	Horst Hanf Landfill/Bayview Park	13.5	1942	1969	50,000	50,000	50,000	2004	Venting
37	SD		37-AK-0006		Maxon St.	15	1942	1969	150,000	150,000	150,000	1990	Combustion
37	SD	SD	37-AK-0001	1	Mission Ave. SLF	15	1942	1969	200,000	200,000	200,000	1990	Combustion
30	SC	SC	30-CR-0096	1	Cannery Street Disposal Station #16	00	4057	4000	400 504	100 504	100 50 1		
19	SC	SC	19-AR-5068	4	Bishop Canyon LF	20 45	1957 1966	1969 1969	496,584 1,660,000	496,584 1,660,000	496,584 1,660,000	2004	Venting
19	SC		19-AR-5068 19-AA-5560	1	Industry Hills Sheraton Resort	45	1960	1969	3,500,000	3,500,000	3,500,000	1990	Combustion
31	SV		31-AA-0624	1	Rocklin Pit	3.9	1960 1943	1969	10,000	10,000	10,000	2004	Venting
	SCC		42-CR-0014	1	Santa Ynez Airport LF	10	1943	1970	50,000	50,000	50,000	2004	Combustion
43	SF		43-AN-0011	1	Hellyer Park LF	16	1943	1970	400,000	400,000	400,000	1998	Combustion
34			34-AA-0023	1	Gerber Road LF	75	1944	1970	460,000	460,000	460,000	1000	Combastion
			56-AA-0125	1	Tierra Rejada	25	1945	1972	400,000	400,000	400,000		
41	SF		41-AA-0003		Sierra Point	80	1945	1972	400,000	400,000	400,000	2004	Venting
1	01	51				00	10-10	1012	100,000	100,000	100,000	2007	vonting

Land	dfill M	odel C	H4 Emission	s (April 3	8, 2008)								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
СО	AB	DIS	Number			(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
9	LT	ED	09-CR-0015	1	Meyers LF	7.4	1946	1973	50,000	50,000	50,000		
34	SV	SAC	34-AA-0016	1	14th Avenue Landfill (East/West Pits)								
	30				· · ·	27	1946	1973	250,000	250,000	250,000	2004	Venting
37	SD		37-AA-0033		South Miramar Sanitary Landfill	122	1950	1973	3,000,000	3,000,000	3,000,000	1993	Combustion
37	SD		37-AA-0429		Arizona St.	64	1952	1974	2,000,000	2,000,000	2,000,000	1993	Combustion
19	SC		19-AA-0835		Sheldon-Arleta	42	1962	1974	5,500,000	5,500,000	5,500,000	1990	Combustion
21	SF		21-AA-0049		Hamilton AFB Landfill #26	20	1948	1975	100,000	100,000	100,000	2004	Venting
37	SD		37-AA-0018		Poway	12	1948	1975	165,000	165,000	165,000	1997	Combustion
37	SD		37-AA-0019		Gillespie	12	1948	1975	165,000	165,000	165,000	1997	Combustion
19	SC		19-AA-5350		City Of Santa Monica LF #2	15	1948	1975	200,000	200,000	200,000	1999	Carbon
37	SD		37-AA-0434		Paradise Park/Sweetwater III	20	1948	1975	200,000	200,000	200,000		
37	SD		37-AH-0002		Palomar Airport	70	1962	1975	1,000,000	1,000,000	1,000,000	1995	Combustion
31	SV		31-AA-0220		Lincoln Disposal Site	6.3	1949	1976	50,000	50,000	50,000		
30	SC		30-AB-0366		Forster Canyon Landfill	50	1958	1976	1,350,000	1,350,000	1,350,000		
19	SC		19-AA-0011		Compton Disposal Site	17.9	1950	1977	200,000	200,000	200,000		
12			12-AA-0022		Table Bluff LF	20	1950	1977	200,000	200,000	200,000	4007	Quarter attact
37	SD		37-AA-0016		Encinitas	30	1967	1977	585,000	585,000	585,000	1997	Combustion
37	SD		37-AA-0002	1	Valley Center	25	1951	1978	130,000	130,000	130,000	1998	Combustion
19	SC SD		19-AA-0587 37-AA-0001	1	Longden Ave Disposal Site	54 46	1955 1960	1978	1,000,000	1,000,000	1,000,000	1991	Venting Combustion
37	SC	SD SC	19-AA-0001		Jamacha	40		1978	1,800,000	1,800,000	1,800,000	1998	
19 36	SC		36-AA-0005		City of Duarte LF Upland LF	34	1952 1952	1979 1979	200,000 550,000	200,000 550,000	200,000 550,000	1990 1993	Combustion
55	MC		55-AA-0005		Sierra Conservation Center	8	1952	1979	50,000	50,000	50,000	1992	Combustion
31	MC		31-AA-0005		Meadow Vista LF	15	1955	1980	100,000	100,000	100,000	1997	Combustion
36	SC		36-AA-0312		Norton AFB LF	25	1903	1980	250,000	250,000	250,000	2002	Combustion
31	SV		31-AA-0110		Roseville LF	23	1953	1980	300,000	300,000	300,000	2002	Venting
31	SV		31-AA-0310		Auburn Sanitary Landfill	37	1953	1980	375,000	375,000	375,000	2004	Vonting
34	SV		34-AA-0004		Elk Grove LF	37	1953	1980	450,000	450,000	450,000	1993	Combustion
31	SV		31-AA-0140		Loomis Landfill	25	1959	1980	500,000	500,000	500,000	1997	Combustion
1	SF		01-AA-0006		Davis Street	194	1965	1980	4,800,000	4,800,000	4,800,000	1990	Combustion
19	SC		19-AE-0001		Palos Verdes	291	1957	1980	23,600,000	23,600,000	23,600,000	1990	Combustion
19	SC		19-AR-0003		Ascon Sanitary LF	62	1960	1981	2,000,000	2,000,000	2,000,000	1995	Combustion
37	SD		37-AA-0022		South Chollas	120	1952	1981	3,000,000	3,000,000	3,000,000	1990	Combustion
			19-AA-0821			_		-	, -,	, -,			
19	SC	SC	19-AA-0822	3	Mission Canyon/ Mountaingate								
			19-AA-0823	-		375	1958	1981	26,800,000	26,800,000	26,800,000	1990	Combustion
30	SC	SC	30-AB-0026	1	City Of Huntington Beach Landfill	22	1955	1982	400,000	400,000	400,000	2004	Venting
31	MC	PLA	31-AA-0540		Foresthill Sanitary Landfill	4	1956	1983	50,000	50,000	50,000		Ŭ.
			10-AA-0018		Rice Road Disposal Site	14.2	1956	1983	350,000	350,000	350,000	1998	Combustion
41	SF		41-AA-0007		Junipero Serra Solid Waste DS	9	1956	1983	450,000	450,000	450,000	1991	Combustion
33	SC		33-AA-0002		West Riverside	74	1965	1983	1,000,000	1,000,000	1,000,000	1990	Combustion
1	SF		01-AC-0001		Berkeley LF/Waterfront Park	90	1960	1983	1,000,000	1,000,000	1,000,000	1990	Combustion
			15-AA-0044		Bakersfield	115	1956	1983	2,000,000	2,000,000	2,000,000	2003	Combustion
37	SD		37-AA-0901		Box Canyon LF	120	1957	1984	500,000	500,000	500,000		
1	SF	ΒĀ	01-AA-0011	1	Albany LF/East Shore Park	60	1964	1984	1,000,000	1,000,000	1,000,000	2000	Combustion
41	SF	BA	41-AA-0011	2	Marsh Road								
	0	ЪЛ	41-AA-0012	۲		146	1961	1984	3,500,000	3,500,000	3,500,000	1991	Combustion
19	SC	SC	19-AA-0836	1	Operating Industries (OII) (NPL Site)								
				1		190	1948	1984	22,000,000	22,000,000	22,000,000	1995	Combustion
33	SC		33-AA-0001	1	Tequesquite/City of Riverside	120	1958	1985	2,400,000	2,400,000	2,400,000	1995	Combustion
19	SC		19-AR-0006		Penrose Pit	72	1960	1985	9,000,000	9,000,000	9,000,000	1990	Combustion
1	SF		01-AA-0001		Turk Island Landfill	66	1965	1986	1,200,000	1,200,000	1,200,000	1990	Combustion
33	SC	SC	33-AA-0005	1	Elsinore Landfill		1953	1986	1,900,000	1,900,000	1,900,000	1993	Combustion

Lane	dfill M	odel C	H4 Emission	s (April 3	<u>8, 2008)</u>								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
CO	AB	DIS	Number			(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
19	SC	SC	19-AI-0001		Norwalk Dump	13	1959	1986	100,000	563,842	3,135,162	2004	Venting
33	SC	SC	33-AA-0004	1	Corona Disposal Site	95	1961	1986	4,000,000	4,000,000	4,000,000	1990	Combustion
19	SC	SC	19-AA-0819		Toyon	90	1957	1986	16,000,000	16,000,000	16,000,000	1990	Combustion
21	SF		21-AA-0003		San Quentin Disposal Site	42	1960	1987	500,000	500,000	500,000	2004	Venting
48	SF		48-AA-0001		Solano Garbage Company	36	1960	1987	750,000	750,000	750,000		
10	SJV		10-AA-0005		City of Fresno LF	145	1937	1987	4,700,000	4,700,000	4,700,000	2000	Combustion
16	SJV				Corcoran LF	21	1961	1988	300,000	300,000	300,000		
40			40-AA-0009		Camp San Luis Obispo	8	1962	1989	50,000	50,000	50,000		
41	SF		41-AA-0010		San Mateo Composting (3rd Ave.)	44	1962	1989	400,000	400,000	400,000		
54	SJV	SJU	54-AA-0002	1	Exeter DS	34	1962	1989	400,000	400,000	400,000		
56	SCC	VEN	56-AA-0004	1	Coastal LF (including Santa Clara LF)	100	1000	1000	4 000 000	4 000 000	4 000 000	1001	
						120	1962	1989	4,000,000	4,000,000	4,000,000	1991	Combustion
31	MC				Clipper Creek LF	2	1963	1990	10,000	10,000	10,000		
5	MC		05-AA-0014		Red Hill SLF	15	1963	1990	100,000	100,000	100,000	0004	N
45	SV		45-AA-0021		Simpson Paper Company	20	1963	1990	400,000	400,000	400,000	2004	Venting
50	SJV		50-AA-0002		Geer Road LF	144	1963	1990	500,000	500,000	500,000	1991	Combustion
10			10-AA-0011		Sourtheast Regional	67	1970 1963	1990	1,300,000 27,000,000	1,300,000	1,300,000 27,000,000	1998	Combustion
30	SC		30-AB-0017 36-AA-0318		Coyote Canyon SLF Mountain Pass Mine and Mill	325 4	1963 1964	1990		27,000,000		1990	Combustion
36 27			27-AA-0318			5.5	1964	1991 1991	20,000 25,000	20,000 25,000	20,000 25,000		
36			36-AA-0012		Lake San Antonio South Shore LF Newberry	<u> </u>	1964	1991	25,000	25,000	25,000		
56	SCC		56-AA-0039		Pacific Missile TC LF	6	1964	1991	50,000	50,000	50,000		
15	SJV		15-AA-0006		Lebec LF	14.2	1987	1991	59,064	75,000	75,000	2004	Venting
50			50-AA-0003		Bonzi LF	35	1951	1991	536,258	773,200	966,220	1995	Combustion
19	SC		19-AA-0003		Azusa LF (Zone I)	77	1958	1991	4,980,097	5,331,470	7,167,957	1990	Combustion
18	NEP		18-AA-0013		Bieber LF	8	1950 1951	1992	49,815	50,000	50,000	1990	COMDUSTION
28	SF		28-AA-0003		Berryessa Garbage	7	1951	1992	47,955	50,000	50,000		
31	SV		31-AA-0120		Berry Street Mall LF	13	1965	1992	100,000	100,000	100,000		
48	SV		48-AA-0004		Rio Vista	12	1951	1992	92,103	100,000	100,000		
7	SF		07-AA-0003		Contra Costa SLF (aka GBF LF)	74	1943	1992	656,050	897,051	897,051	1995	Combustion
15	SJV		15-AA-0063		McFarland-Delano LF	40	1971	1992	918,766	1,000,000	1,000,000	2005	Combustion
15	SJV		15-AA-0048		China Grade SLF	58	1978	1992	1,561,931	2,000,000	2,000,000	2002	Combustion
25			25-AA-0002		Eagleville	1.56	1966	1993	10,000	10,000	10,000		
25			25-AA-0003		Fort Bidwell	0.8	1966	1993	10,000	10,000	10,000		
25	NEP	MOD	25-AA-0004	1	Lake City	2.83	1966	1993	10,000	10,000	10,000		
25	NEP	MOD	25-AA-0021	1	Cedarville	2.09	1966	1993	10,000	10,000	10,000		
45	SV		45-AA-0022		Intermountain LF	4	1987	1993	13,466	25,000	25,000		
			36-AA-0062		Lucerne VIIy	6	1977	1993	39,582	50,000	50,000		
19	SC	SC	19-AA-0057	1	Pitchess Detention Cntr	15	1975	1993	57,060	75,000	75,000		
36			36-AA-0026	1	Oro Grande	5	1966	1993	100,000	100,000	100,000		
49	NC		49-AA-0004		Healdsburg	27	1966	1993	400,000	400,000	400,000	1994	Combustion
43	SF		43-AO-0001		All Purpose LF	25	1965	1993	1,637,887	2,000,000	2,000,000	1990	Combustion
43	SF		43-AA-0006		Shoreline-Mtn. View (Vista)	150	1968	1993	1,973,885	2,000,000	2,000,000	1990	Combustion
	NEP		47-AA-0030		Cecilville LF	1	1967	1994	10,000	10,000	10,000		
			47-AA-0045		Hotelling Gulch LF	3	1967	1994	10,000	10,000	10,000		
			47-AA-0029		Kelly Gulch LF	1	1967	1994	10,000	10,000	10,000		
			47-AA-0044		Rogers Creek LF	1	1967	1994	10,000	10,000	10,000		
36			36-AA-0059		Needles Sanitary LF	50	1964	1994	83,646	100,000	100,000		
23			23-AA-0003		Casper Refuse DF	16	1964	1994	136,365	150,000	150,000	2004	Venting
31			31-AA-0560		Eastern Regional LF	36	1978	1994	341,816	500,000	500,000	1994	Combustion
45			45-AA-0019		Redding SLF (Benton)	71	1967	1994	750,000	750,000	750,000	1994	Combustion
			44-AA-0003		Ben Lomond WDS	24	1942	1994	580,311	750,000	750,000	1994	Combustion
10	SJV	SJU	10-AA-0025	1	Chestnut Ave DS	32	1969	1994	670,038	1,000,000	1,000,000	1998	Combustion

Land	dfill Mo	odel C	H4 Emission	s (April 3	3, 2008)								
			CIWMB			Max. Waste							
				Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
CO	AB	DIS	Number			(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
41	SF		41-AA-0009		Burlingham LF	41	1960	1994	1,000,000	1,000,000	1,000,000	1991	Combustion
39			39-AA-0003		Harney Lane LF	97	1948	1994	1,902,280	2,000,000	2,000,000	1993	Combustion
43	SF		43-AA-0007		Sunnyvale LF	92	1960	1994	1,889,967	2,300,000	2,300,000	1991	Combustion
34			34-AA-0018		Sacramento City LF	130	1960	1994	3,410,394	4,000,000	4,000,000	1991	Combustion
47	NEP		47-AA-0031		Lava Beds LF	1.24	1968	1995	10,000	10,000	10,000		
47	NEP		47-AA-0019		Weed SWDS	6.2	1987	1995	11,144	25,000	25,000		
19	SC		19-AA-0062		Two Harbors LF	2	1951	1995	24,975	25,000	25,000		
47	NEP		47-AA-0035		New Tenant SWDS	10	1968	1995	50,000	50,000	50,000		
47	NEP		47-AA-0001		McCloud	12.5	1951	1995	45,733	50,000	50,000		
15			15-AA-0051		Glennville LF	4	1951	1995	49,238	50,000	50,000		
49	NC		49-AA-0002		Annapolis LF	5	1951	1995	64,663	75,000	75,000		
58	SV		58-AA-0002		Ponderosa SLF	10	1951	1995	73,069	75,000	75,000		
6			06-AA-0001		Evans Rd LF-P1	14	1979	1995	153,269	200,000	200,000	2002	Combustier
39			39-AA-0005		Corral Hollow	43	1983	1995	435,764 2,732,052	750,000	750,000	2003	Combustion
33	SC NEP		33-AA-0008 47-AA-0026		Double Butte DS	100 3.4	1973 1969	1995 1996	2,732,052	3,000,000 10,000	3,000,000 10,000	1994	Combustion
					Happy Camp SWDS		1969						
14 18			14-AA-0016 18-AA-0011		Furnace Creek Herlong DF	9.5 8	1951	1996 1996	42,277 47,133	50,000 50,000	50,000 50,000	1996	Venting
			36-AA-0011		Morongo DS	11.55	1951	1996	52,945	100,000	100,000	1990	venung
36 36			36-AA-0058		Trona Angus LF	22	1962	1996	167,271	200,000	200,000		
55			55-AA-0041		Tuolumne Central (Jamestown)	16	1951	1996	650,370	750,000	750,000	1996	Venting
10			10-AA-0002		Chateau Fresno LF	75	1950	1996	2,132,332	3,800,000	3,800,000	1993	Combustion
56			56-AA-0011		Bailard LF	120	1989	1996	1,879,583	4,000,000	4,000,000	1991	Combustion
30	SC		30-AB-0018		Santiago Canyon SLF	130	1968	1996	8,936,769	13,284,221	13,284,221	1991	Combustion
19	SC		19-AA-0820		Lopez Canyon LF	166	1975	1996	14,616,276	19,000,000	19,000,000	1990	Combustion
					BKK West Covina (Class I and III	100	1010	1000	11,010,210	10,000,000	10,000,000	1000	Combuolion
19	SC	SC	19-AF-0001		LFs)	370	1962	1996	29,126,627	45,800,000	45,800,000	1990	Combustion
18	NEP	LAS	18-AA-0004		Madeline DF	1	1970	1997	10,000	10,000	10,000		
			18-AA-0005		Ravendale DF	1	1970	1997	10,000	10,000	10,000		
			40-AA-0014		California Valley LF	6	1970	1997	25,000	25,000	25,000		
42	SCC		42-AA-0010		New Cuyama	5	1970	1997	50,000	50,000	50,000		
23			23-AA-0008		Laytonville LF	7	1951	1997	49,309	50,000	50,000		
36	MD	MOJ	36-AA-0049	1	Baker RDS	10	1951	1997	74,727	75,000	75,000		
				1	Yuba Sutter Disposal Area LF								
58	SV		58-AA-0006		(YSDA)	12	1951	1997	139,306	150,000	150,000		
58	SV		58-AA-0001	1	Beale AFB LF	88	1951	1997	178,392	200,000	200,000	2004	Venting
15			15-AA-0055	1	Kern Valley LF	31	1984	1997	115,494	250,000	250,000	2004	Combustion
23			23-AA-0021	1	City of Willits DS	18.5	1980	1997	144,672	250,000	250,000	2004	Venting
36			36-AA-0061	1	Lenwood-Hinkley	54	1951	1997	194,800	250,000	250,000		
36			36-AA-0060		Twentynine Palms DS	44.26	1983	1997	140,531	300,000	300,000		
29	MC		29-AA-0001		McCourtney Rd LF	36	1972	1997	943,465	1,000,000	1,000,000	1991	Combustion
33	SS	SC	33-AA-0012	1	Coachella Valley DS	75	1972	1997	1,494,459	2,500,000	2,500,000	2000	Combustion
58	sv	FR	58-AA-0005	1	Yuba Sutter Disposal Inc. LF (YSDI)								
					• • • •	33	1967	1997	909,422	2,500,000	2,500,000	1999	Combustion
33	SC		33-AA-0009		Mead Valley DS	60	1974	1997	1,315,088	2,528,951	2,528,951	1995	Combustion
37	SD		37-AA-0008		San Marcos LF	107	1979	1997	2,483,568	6,000,000	6,000,000	1990	Combustion
36			36-AA-0084		Echo Gold	7	1971	1998	25,000	25,000	25,000		
54			54-AA-0010		Balance Rock DS	10	1971	1998	100,000	100,000	100,000		
15			15-AA-0047		Buttonwillow SLF	8	1951	1998	78,478	100,000	100,000		
21	SF		21-AA-0002		West Marin SLF	15	1980	1998	113,958	200,000	200,000	0005	
54			54-AA-0001		Earlimart DS	16	1951	1998	149,620	200,000	200,000	2005	Combustion
16			16-AA-0009		Hanford LF	79	1973	1998	1,159,295	1,750,000	1,750,000	2000	Combustion
33	SC	SC	33-AA-0003	1	Highgrove LF	71	1947	1998	1,284,218	3,002,920	3,002,920	1997	Combustion

Lan	dfill M	odel C	H4 Emission	s (April 3	3, 2008)								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
со	AB	DIS	Number		,	(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
34	SV		34-AA-0007	1	Dixon Pit LF	29.75	1983	1999	42,893	100,000	100,000	2004	Combustion
33	SC		33-AA-0013		Anza DS	20	1977	1999	55,456	100,000	100,000		
36			36-AA-0047		Yermo DS	12	1951	1999	83,254	100,000	100,000		
39	SJV		39-AA-0002		French Camp LF	60	1976	1999	230,325	517,575	517,575		
23			23-AA-0018		South Coast Rd LF	5	1973	2000	28,186	50,000	50,000		
13	SS	IMP	13-AA-0012		Pichacho C&F	14	1951	2000	63,723	101,534	114,633		
28	SF		28-AA-0001		American Canyon LF	97	1940	2000	1,667,136	2,500,000	2,500,000	1990	Combustion
19	SC	SC	19-AA-0015		Spadra LF	173	1957	2000	10,144,050	17,536,915	17,536,915	1990	Combustion
47	NEP		47-AA-0027		Tulelake SWDS	8.8	1951	2001	52,216	75,172	75,172		
36			36-AA-0056		Big Bear RDS	26	1988	2001	103,590	450,000	450,000		
42	SCC		42-AA-0011		Foxen LF	18.4	1968	2001	430,090	750,000	750,000	2006	Combustion
36		MOJ	36-AA-0050	1	Hesperia RDS	50	1980	2001	432,133	750,000	750,000	2005	Combustion
23			23-AA-0019		City of Ukiah SWDS	40	1967	2001	466,712	750,000	750,000	2004	Venting
36	SC		36-AA-0054		Milliken	140	1956	2001	8,339,070	12,011,629	12,011,629	1990	Combustion
55			55-AA-0001		Big Oak Flat LF	5	1972	2002	15,153	25,000	25,000	2002	Venting
54	SJV		54-AA-0011		Kennedy Meadows DS	6	1975	2002	25,000	25,000	25,000		Ť
31			31-AA-0550		Colfax LF	3	1975	2002	25,000	25,000	25,000		
47	NEP		47-AA-0003		Black Butte SWDS	27	1979	2002	67,285	149,564	149,564		
8			08-AA-0006	1	Crescent City LF	23	1969	2002	270,268	505,963	665,340	2004	Venting
26			26-AA-0002		Bridgeport SLF	36.5	1951	2003	95,584	100,377	103,036		Ŭ
27			27-AA-0003		Lewis Rd. LF	14	1978	2003	236,855	501,122	501,122	1997	Combustion
7	SF		07-AA-0002		Acme Sanitary LF	109	1954	2003	6,429,329	7,050,842	7,488,750	1991	Combustion
32	MC		32-AA-0007		Portola LF	8	1951	2004	62,497	75,000	75,000	2004	Venting
27			27-AA-0006		Jolon Rd LF	24	1979	2004	116,370	200,000	200,000		
36			36-AA-0048		Apple Valley DS	38	1987	2004	103,544	300,000	300,000		
36			36-AA-0044		Phelan RDS	30	1983	2004	143,007	300,000	300,000		
3			03-AA-0001		Amador Co. LF	29	1967	2004	401,174	737,602	742,369	2002	Combustion
43	SF		43-AA-0004		Pacheco Pass LF	91	1963	2004	862,677	2,064,554	2,581,707	1994	Combustion
33	SS		33-AA-0011		Edom Hill DS	148	1967	2004	1,681,856	6,983,228	12,733,398	2001	Combustion
13	SS		13-AA-0005		Ocotillo C&F	5.3	1951	2005	19,588	25,000	25,006		
45	SV		45-AA-0058		Twin Bridges	21	1981	2005	88,291	200,000	200,000		
13	SS	IMP	13-AA-0008		Brawley LF	34.3	1984	2005	122,389	430,327	699,366		
43	SF		43-AN-0007		Zanker Rd. LF	47.1	1956	2005	746,341	1,022,263	1,233,861	1995	Combustion
10	SJV		10-AA-0013		Orange Ave.	29	1941	2005	534,399	1,122,053	1,983,341	2006	Combustion
54	SJV		54-AA-0004		Teapot Dome DS	71	1972	2005	679,732	1,646,300	2,810,691	2005	Combustion
1	SF		01-AA-0008		Tri-Cities LF	115	1968	2005	4,217,879	9,325,621	14,655,691	1990	Combustion
37	SD		37-AA-0005		Ramona LF	46	1969	2006	791,182	1,642,804	2,883,292	1997	Combustion
			19-AA-0009		Antelope Valley	57	1952	2006	269,364	3,743,346	9,607,924	2004	Combustion
36	SC		36-AA-0051		Colton LF	82	1964	2006	1,587,376	6,062,952	11,840,853	2001	Combustion
7	SF		07-AA-0001		W Contra Costa LF	160	1953	2006	4,483,715	9,410,067	15,665,749	1992	Combustion
36			36-AA-0067		USMC- 29 Palms	38.5	1951	2007	94,772	163,838	273,517		
12			12-AA-0005		Cummings Road LF	38	1969	2007	750,650	1,500,177	1,500,955	1997	Combustion
15			15-AA-0062		Tehachapi SLF	32	1973	2007	526,883	1,115,907	2,030,714		
36			36-AA-0046		Barstow RDS	47	1963	2007	835,445	1,645,120	2,949,622		
19	SC		19-AR-0008		Bradley Ave East & West	171	1959	2007	12,983,834	33,518,023	38,729,613	1990	Combustion
13	SS		13-AA-0009		Niland C&F	13.9	1951	2008	46,552	51,211	60,735		
15			15-AA-0050		Arvin SLF	143	1971	2008	1,669,202	3,519,658	3,520,296	2001	Combustion
					Sunshine Canyon City (Inactive Unit	-				, -,	,	-	
19	SC	SC	19-AR-0002		and Unit 2-I)	289	1958	2008	802,887	2,865,249	11,819,433	1992	Combustion
19	SC	SC	19-AA-0853		Sunshine Canyon Extension	215	1996	2008	0	12,656,411	36,856,158	1992	Combustion
24			24-AA-0002		Billy Wright LF	40	1973	2009	274,746	1,124,901	2,158,303		
			27-AA-0007		Crazy Horse LF	72	1960	2009	1,189,474	4,000,135	7,943,988	1993	Combustion
41	SF		41-AA-0008		Hillside LF	43	1968	2010	864,199	1,794,183	2,252,899	2002	Combustion

Lane	fill M	odel C	H4 Emission	s (April 3	8, 2008)								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
СО	AB	DIS	Number		-	(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
13	SS	IMP	13-AA-0019	1	Republic-Imperial	73	1971	2010	279,924	1,856,219	4,708,951		
33	MD	SC	33-AA-0016	1	Desert Center DS	7	1951	2011	136,083	150,088	150,817		
33	SS	SC	33-AA-0071	1	Mecca Landfill II	19	1983	2011	65,942	205,591	252,464		
43	SF	BA	43-AM-0001	1	Palo Alto RDS	126	1954	2011	893,847	1,548,051	1,913,153	1993	Combustion
37	SD		37-AA-0020	1	Miramar SWLF	470	1959	2011	6,156,512	27,951,838	52,513,559	1995	Combustion
13	SS	IMP	13-AA-0006		Holtville DS	24.5	1951	2012	100,652	150,014	150,358		
15			15-AA-0059		Ridgecrest SLF	91	1968	2012	734,267	1,632,378	2,660,395	2002	Combustion
40			40-AA-0004		Cold Canyon	88	1965	2012	1,321,918	3,827,673	6,599,415	1994	Combustion
19	MD	AV	19-AA-0050		Lancaster Waste Mgt.	209	1954	2012	1,253,944	4,921,267	12,577,703	1993	Combustion
15			15-AA-0045		Boron SLF	14	1965	2013	115,269	206,829	261,924		
36			36-AA-0057		Landers DS	42	1986	2013	201,694	936,892	2,324,132		
45			45-AA-0043		West Central (Phase 2)	100	1990	2013	106,919	2,101,253	4,581,004		
34			34-AA-0020		L & D LF	157	1977	2013	1,239,834	3,565,900	7,739,980	2004	Venting
30	SC		30-AB-0035		Olinda Alpha SLF	420	1960	2013	14,557,799	45,305,372	86,102,427	1990	Combustion
19	SC	SC	19-AA-0053		Puente Hills LF	640	1957	2013	55,110,679	116,141,687	185,036,763	1990	Combustion
15			15-AA-0058		Mojave-Rosamond SLF	27	1967	2014	279,771	521,676	689,218		
19	SC	SC	19-AA-0012		Scholl Canyon LF	440	1961	2014	19,443,400	27,791,673	36,374,233	1990	Combustion
40			40-AA-0002		Camp Roberts SWDS	11.7	1951	2015	67,395	100,000	100,000		
9	MC		09-AA-0003		Union Mine DS	21.8	1962	2015	1,101,623	1,502,320	1,523,377	1997	Combustion
32	MC		32-AA-0008		Gopher Hill LF	13	1974	2016	43,553	75,000	75,000		
36	SC		36-AA-0087		San Timoteo SWDS	114	1978	2016	773,034	3,200,222	6,832,341	2000	Combustion
1	SF		01-AA-0010	1	Vasco Road LF	222	1962	2016	3,990,878	11,845,745	21,368,916	1996	Combustion
43	SF		43-AN-0003		Newby Island	313.2	1932	2016	2,409,383	15,746,481	28,339,271	1992	Combustion
37	SD		37-AA-0023		Sycamore SW LF	324	1976	2016	2,984,513	14,111,841	31,614,977	1999	Combustion
42	SCC		42-AA-0016		City of Santa Maria LF	245	1940	2017	1,217,394	3,247,271	5,338,263	1998	Combustion
33	SC		33-AA-0006		Badlands DS	150	1966	2018	674,139	6,768,638	19,976,773	2001	Combustion
13	SS	IMP	13-AA-0011		Salton City C&F	7.8	1951	2019	47,770	50,740	61,849		
33	SS		33-AA-0015		Oasis DS	26	1951	2019	61,554	100,005	100,056		
50			50-AA-0001		Fink Rd LF	216	1973	2019	706,220	2,793,994	5,158,987	2004	Combustion
49	SF		49-AA-0001		Central LF	172	1972	2019	4,585,243	11,192,029	14,126,201	1990	Combustion
19	SC	SC	19-AA-0052		Chiquita Canyon	257	1972	2019	4,310,480	22,074,046	50,973,493	1995	Combustion
28	SF		28-AA-0002		Clover Flat LF	44	1984	2020	226,887	836,580	1,589,315		
16		SJU	16-AA-0004		Avenal LF	123.2	1980	2020	341,069	1,136,419	4,003,699		
43	SF		43-AN-0015		Guadalupe SLF	115	1929	2020	1,034,929	4,469,114	7,922,634	1990	Combustion
42	SCC		42-AA-0015		Tajiguas LF	118	1967	2020	2,654,471	6,235,959	10,283,897	1996	Combustion
39	SJV		39-AA-0015		Forward LF (+ Austin Rd LF -0001)	354.5	1973	2020	1,973,144	15,264,704	37,950,388	1991	Combustion
37	SD	SD	37-AA-0006	1	Borrego Springs LF	29	1951	2021	195,604	264,301	373,372		
			15-AA-0150		Edwards AFB Main LF	64	1978	2021	127,252	319,450	476,764		
11			11-AA-0001		Glenn County LF	50	1976	2021	342,393	797,154	1,189,403	4653	
			44-AA-0004		Buena Vista DS	61	1966	2021	1,321,475	3,250,261	5,415,161	1991	Combustion
37	SD		37-AA-0010		Otay SWLF	230	1963	2021	7,065,578	21,650,229	50,092,469	1991	Combustion
13			13-AA-0001		Imperial SWS	18	1951	2022	96,720	152,424	172,869		
13			13-AA-0004		Calexico DS	38	1951	2022	344,144	502,436	524,483		
			56-AA-0007		Simi Valley LF	185.61	1970	2022	4,946,498	13,739,823	27,823,257	1991	Combustion
30	SC		30-AB-0360		Frank R. Bowerman	341	1989	2022	6,541,179	36,445,683	75,897,049	1993	Combustion
			26-AA-0004		Benton Crossing	71.51	1988	2023	58,764	382,077	1,005,138	100-	
			44-AA-0002		City of Watsonville	31	1962	2023	583,714	1,080,517	1,734,443	1997	Combustion
52			52-AA-0001		Red Bluff LF	33.6	1956	2023	400,561	1,111,250	2,013,981	2005	Combustion
16			16-AA-0021		Kettleman Hills SLF	43	1998	2023	0	1,685,025	5,488,215	2005	Combustion
33	SC		33-AA-0007		Lamb Canyon DS	144.6	1970	2023	1,350,362	5,092,563	14,048,887	2002	Combustion
41	SF		41-AA-0002		Corinda Los Trancos LF (Ox Mtn)	191	1976	2023	3,102,621	16,593,446	29,255,388	1991	Combustion
			35-AA-0001		John Smith Road SWDS	44	1968	2024	712,443	1,667,101	2,905,134	1998	Combustion
54	SJV	SJU	54-AA-0009	1	Visalia DS	247	1952	2024	786,444	2,967,791	4,782,022	2004	Combustion

Lane	dfill M	odel C	H4 Emission	s (April 3	3, 2008)								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
СО	AB	DIS	Number		-	(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
43	SF	ΒA	43-AN-0008	1	Kirby Canyon LF	311	1986	2025	1,775,249	6,608,275	11,149,364	1996	Combustion
40		SLO	40-AA-0008	1	Chicago Grade	36.25	1986	2026	203,666	920,660	2,305,490	2006	Combustion
54		SJU	54-AA-0008	1	Woodville DS	153	1970	2026	1,258,544	2,644,186	3,755,863	2004	Combustion
13	SS	IMP	13-AA-0010		Hot Spa C&F	6	1951	2027	45,381	50,699	56,431		
18			18-AA-0010		Westwood DF	9	1951	2027	38,440	52,494	78,294		
17			17-AA-0001		Eastlake SLF	35	1960	2027	364,723	1,104,817	1,935,182		
15			15-AA-0057		Shafter-Wasco SLF	135	1972	2027	1,141,979	3,043,121	5,665,322	2002	Combustion
56			56-AA-0005		Toland Rd. LF	92	1970	2027	675,668	4,692,098	11,982,793	1997	Combustion
25			25-AA-0001		Alturas	27.5	1984	2028	46,952	100,000	100,000		
18			18-AA-0009		Bass Hill LF	32	1986	2028	79,828	348,082	737,637		
19	SC	SC	19-AA-0056		Calabasas LF	416	1961	2028	13,172,817	22,479,153	31,874,338	1990	Combustion
1	SF		01-AA-0009		Altamont LF	443	1980	2028	14,967,744	39,772,442	63,607,251	1990	Combustion
13	SS	IMP	13-AA-0007		Palo Verde C& F	9.4	1951	2029	49,728	50,010	50,132		
10			10-AA-0006		Coalinga DS	52	1970	2029	270,061	525,688	758,692	0000	Combustics
10			10-AA-0004		Clovis LF	50	1969 1983	2029	454,816 1,619,035	1,102,938 19,711,183	1,934,418	2006	Combustion
33	SC		33-AA-0217		El Sobrante SWLF	495		2030			59,173,030	1994	Combustion
40			40-AA-0001		Paso Robles LF	66 106	1970 1963	2031 2031	974,622 760,853	1,597,969	2,416,280	1997 2001	Combustion Combustion
36	SC SJV		36-AA-0017 10-AA-0009		California St. LF American Ave.	361	1963	2031	2,260,008	1,627,494	2,670,268 16,983,923	2001	
10	SJV	SJU	19-AA-0009			13	1971 1951	2031	35,407	8,990,687 51,662	64,244	2000	Combustion
19 18			19-AA-0063 18-AA-0013		US Navy LF (San Clemente Island) Sierra Army Depot	32	1951	2032	78,230	100,000	100,000		
46	MC		46-AA-0013		Loyalton LF	29	1974	2032	37,536	82,007	134,022		
57	SV		57-AA-0004		UC Davis LF	53	1974	2032	149,286	325,625	539,213	1996	Combustion
5			05-AA-0023		Rock Creek LF	57	1974	2032	5,326	576,705	1,452,714	1990	Compustion
19	SC		19-AA-0023		Pebbly Beach	5.6	1982	2032	17,751	56,903	113,846		
33			33-AA-0017		Blythe DS	78	1969	2033	415,345	795,266	1,190,551	1997	Combustion
20	SJV		20-AA-0002		Fairmead LF	77	1958	2033	661,128	2,309,543	4,781,653	1998	Combustion
39			39-AA-0022		North County LF	185	1990	2033	94,996	2,161,867	5,090,525	1000	Combastion
4			04-AA-0002		Neal RD LF	140	1970	2033	493,221	3,100,082	6,086,556	2002	Combustion
36	SC		36-AA-0055		Fontana RDS (Mid-Valley)	408	1958	2033	2,466,265	9,786,714	25,197,761	1995	Combustion
34			34-AA-0001		Kiefer LF	667	1967	2035	4,882,713	17,499,572	30,055,405	1994	Combustion
26			26-AA-0003		Pumice Valley	20	1951	2036	123,153	150,755	156,182		
31	SV		31-AA-0210		Western Regional LF	231	1980	2036	1,201,867	4,538,046	9,086,821	1993	Combustion
44			44-AA-0001		City of Santa Cruz LF	57.5	1966	2037	793,897	1,869,373	2,844,784	1991	Combustion
7	SF		07-AA-0032		Keller Canyon LF	244	1992	2037	0	7,678,238	22,690,827	1993	Combustion
15	SJV	SJU	15-AA-0052		Lost Hills SLF	25	1951	2038	72,069	100,000	100,000		
14	GBV	GBU	14-AA-0004		Independence DS	18.42	1951	2038	91,998	104,469	131,998		
15			15-AA-0273	1	Bakersfield SLF (Bena)	229	1992	2038	0	4,757,447	13,408,350	2000	Combustion
19	SC	SC	19-AH-0001	1	Whittier- Savage Canyon	132	1963	2039	3,027,749	6,176,012	7,618,193	1993	Combustion
21	SF		21-AA-0001		Redwood SLF	195	1958	2039	1,960,908	8,286,636	15,476,521	1990	Combustion
27			27-AA-0005		Johnson Cnyn LF	80	1976	2043	148,946	993,345	2,254,724	2000	Combustion
24			24-AA-0001		Hwy 59 DS	255	1972	2043	1,322,411	3,973,714	7,847,858		
32	MC		32-AA-0009		Chester LF	28	1973	2045	27,272	50,221	52,389		
57	SV		57-AA-0001	1	Yolo Co. Central LF	473	1975	2045	2,777,248	5,833,578	9,244,718	1992	Combustion
	SCC		42-AA-0017	1	Lompoc LF	39	1962	2047	259,256	1,119,417	2,068,142	2002	Combustion
45			45-AA-0020		Anderson LF	165	1976	2049	550,274	2,063,459	4,647,695	2006	Combustion
			14-AA-0007	1	Tecopa DS	9.3	1978	2050	50,000	50,000	50,000		
53			53-AA-0013		Weaverville LF	16.6	1976	2050	85,831	150,000	150,000		
14			14-AA-0006		Shoshone DS	4.7	1978	2052	25,000	25,000	25,000		
19	SC		19-AA-0040		Burbank LF #3	49	1971	2053	611,532	1,330,610	2,003,218	1995	Combustion
			14-AA-0005		Bishop Sunland	69.2	1983	2054	82,061	299,731	597,518		
39			39-AA-0004		Foothill LF	50	1965	2054	551,014	4,123,926	9,158,468		
36	MD	MOJ	36-AA-0045	1	Victorville RDS	341	1955	2059	1,067,804	4,348,479	10,626,492	2003	Combustion

Lan	dfill M	odel C	H4 Emission	s (April 3	3 <u>, 2008)</u>								
			CIWMB			Max. Waste							
			SWIS File	Count ^a	Facility/Site Name	Footprint	Open Year	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG	"Current" 2006
CO	AB	DIS	Number			(acres)	b	Year	(Tons)	(Tons)	(Tons)	Capture	Control Type
48	SF	BA	48-AA-0075	1	Potrero Hills	190	1986	2059	574,163	8,521,148	24,710,972	1993	Combustion
6	SV	COL	06-AA-0002	1	Stonyford LF	3.3	1951	2064	9,381	10,788	17,296		
47	NEP	SIS	47-AA-0002	1	Yreka LF	52	1984	2065	65,086	231,038	451,072		
58	SV	FR	58-AA-0011	1	Ostrom Road SLF	225	1995	2066	0	1,663,897	6,125,580	2003	Combustion
30	SC	SC	30-AB-0019	1	Prima Descha SLF	699	1976	2067	12,035,917	21,893,121	36,376,606	1991	Combustion
48	SV	YS	48-AA-0002	1	B & J Drop Box	260	1964	2070	1,529,609	3,911,141	7,168,617		
22	MC	MPA	22-AA-0001	1	Mariposa Co. SLF	40	1974	2081	149,274	330,547	562,699		
42	SCC	SB	42-AA-0012	1	Vandenburg AFB	172	1978	2084	133,140	340,242	480,687		
27	NCC	MBU	27-AA-0010	1	Monterey Peninsula LF	315	1966	2084	3,981,093	7,517,740	11,570,780	1990	Combustion
14	GBV	GBU	14-AA-0003	1	Lone Pine DS	26.6	1951	2087	69,767	107,801	164,761		
15	SJV	SJU	15-AA-0061	1	Taft SLF	85	1972	2123	568,630	1,083,515	1,644,864	2005	Combustion
26	GBV	GBU	26-AA-0005	1	Chalfant SLF	6.6	1951	2155	49,934	50,000	50,000		
26	GBV	GBU	26-AA-0001	1	Walker SLF	38.4	1951	2162	45,942	50,324	52,343		
37	SD	SD	37-AA-0903	1	Las Pulgas LF	88.7	1979	2184	321,545	833,131	1,486,508		
26	GBV	GBU	26-AA-0006	1	Benton SLF	7.4	1978	2212	77,607	100,000	100,000		
37	SD	SD	37-AA-0902	1	San Onofre LF	31	1951	2257	100,406	151,309	158,618		
36	MD	MOJ	36-AA-0068	1	Fort Irwin	467	1970	2405	137,707	264,636	383,515		
			Total CA										
			MSW										
			Landfills by										
			SWIS #	372	367	Landfills by Fa	acility/Site Nan	ne	618,564,139	1,231,428,174	1,970,372,763		
^a So	me fac	ilities a	are composed	l of more	that one SWIS # and were evaluated a	s a single facil	ity for emissio	n inventory	and cost analyis	purposes.			
L.	Den Year in Bold Indicates ARB Estimate												
Open Year in Boid Indicates ARB Estimate											1		

Worl	sheet	2		MSW-Accepting Landfills	Forecas	st to be S	Subject	to Cor	ntrol Re	equireme	nts																							
			5/7/2009																											Analysis	Year			
			CIWMB SWIS File		Ownership Status	Max. Waste Footprint	Average Rainfall		Close	1990 WIP	2006 WIP			Updated Control Type	Year >= 450,000 Tons	Control (WIP	Gas Heat Rate Calc.	New	2010	Gas Heat Cap.	Calc. (M	ate MM	Control	Annualized Capital	Year for Cap Cost		Annual Operation &		Annual Monitoring	-				
			Number 23-AA-0019	Count ^a Facility/Site Name 1 City of Ukiah SWDS	Local Govt.	(acres) a 40	(Inch/Yr) 39	Year ^b 1967	Year 2001	(Tons) 466,712	(Tons) 750,000	(Tons) 750,000	re 2004	(2009) ° Venting	WIP 1989	2010		Hardware? Coll. + Cntl.		Calc 2010		J/HR) (1 3.3	lump sum) \$781,000	Cost ° \$75,210	Amort. 2011	Amort. 2026	Mtce Cost \$193,000	(Cost/Test)	Frequency	2010	2011 \$75,210 \$193,000	2012 \$75,210 \$193,000	2013 \$75,210 \$193,000	
7	ee.	DA .	07-AA-0003	1 CUITTA CUSTA SEP (aka OBP	Private	74	15	1042	1002	656,050	897,051	907.051	1005	Combustion	1099	2010	Controlo	No	Closed	2010	2010 3		0	¢0	2013	2028		\$3,950	4	\$63,802 \$127		\$15,802	\$15,802 \$0	\$15,802
	JF	DA	07-AA-0003		Flivate	74	15	1943	1992	656,050	897,001	697,001	1995	Composition	1900	2010	Controls r		Ciused	2010	2010 3	5.5	0	30	2013	2028	Existing	\$7,308	4			\$77,233	Existing \$29,233	Existing
10	SJV 8	SJU	10-AA-0025	1 Chestnut Ave DS	Private	32	11	1969	1994	670,038	1,000,000	1,000,000	1998	Combustion	1988	2010	Controls F	No	Closed	2010	2010 1	2.9	0	\$0	2013	2028	Existing			\$127			\$0 Existing	\$0 Existing
																												\$3,160	4	\$127		\$60,641	\$12,641	
41	SF	BA	41-AA-0009	1 Burlingham LF	Local Govt.	41	23	1960	1994	1,000,000	1,000,000	1,000,000	1991	Combustion	1975	2010	Controls I	No	Closed	2010	2010 3	3.2	0	\$0	2013	2028	Existing	\$4,049	4			\$64,197	\$0 Existing \$16,197	
29	MC	NSI	29-AA-0001	1 McCourtney Rd LF	Local Govt.	36	53	1972	1997	943,465	1,000,000	1,000,000	1991	Combustion	1980	2010	Controls I	No	Closed	2010	2010 3	3.6	0	\$0	2013	2028	Existing			\$127			\$0 Existing	\$0
																			_								Existing	\$3,555	4	\$127		\$62,221	\$14,221	\$14,221
11	SV 0	GLE	11-AA-0001	1 Glenn County LF	Local Govt.	50	19	1976	2021	342,393	797,154	1,189,403			1991	2010	Controls I	Coll. + Cntl.	Open	2021	2021 3	3.4	\$970,000	\$93,411	2012	2027	\$235,000	\$4,938	4		\$67,752	\$93,411 \$235,000 \$19,752	\$93,411 \$235,000 \$19,752	
33	MD M	MOJ	33-AA-0017	1 Blythe DS	Local Govt.	78	3	1969	2033	415,345	795,266	1,190,551	1997	Combustion	1992	2010	Controls F	No	Open	2033	2033 3	3.2	0	\$0	2012	2027	Evipting			\$127	\$127	\$127 \$0	\$127 \$0	\$127 \$0
																											Existing	\$7,703	4	\$127	\$78,813 \$127	Existing \$30,813 \$127	Existing \$30,813 \$127	\$30,813 \$127
1	SF	BA	01-AA-0001	1 Turk Island Landfill	Private	66	17	1965	1986	1,200,000	1,200,000	1,200,000	1990	Combustion	1973	2010	Controls I	No	Closed	2010	2010 3	3.4	0	\$0	2012	2027	Existing	\$6,518	4		\$74,073	\$0 Existing \$26,073	\$0 Existing \$26,073	Existing
43	SF	BA ·	43-AN-0007	1 Zanker Rd. LF	Private	47.1	15	1956	2005	746,341	1,022,263	1,233,861	1995	Combustion	1981	2010	Controls F	No	Closed	2010	2010 3	3.3	0	\$0	2012	2027	Existing			\$127		\$0	\$0 Existing	\$0
																											Existing	\$4,652	4	\$127	\$66,606	Existing \$18,606	\$18,606	\$18,606
10	SJV	SJU	10-AA-0011	1 Sourtheast Regional	Local Govt.	67	11	1970	1990	1,300,000	1,300,000	1,300,000	1998	Combustion	1977	2010	Controls I	No	Closed	2010	2010 4	4.0	0	\$0	2012	2027	Existing	\$6,617	4		\$74,468	\$0 Existing \$26,468	\$0 Existing \$26,468	Existing
5	MC (CAL	05-AA-0023	1 Rock Creek LF	Local Govt.	57	19	1990	2032	5,326	576,705	1,452,714			2003	2010	Controls F	Coll. + Cntl.	Open	2032	2032 4	1.3	\$1,102,300	\$106,151	2011	2026	6004 400			\$127	\$106,151	\$106,151	\$106,151	\$106,151
																											\$264,400	\$5,629	4	\$70,517 \$127		\$22,517 \$127	\$264,400 \$22,517 \$127	\$22,517 \$127
37	SD	SD	37-AA-0903	1 Las Pulgas LF	Military	88.7	13	1979	2184	321,545	833,131	1,486,508			1993	2010	Controls I	Coll. + Cntl.	Open	2184	2033 4	4.3	\$1,701,430	\$163,848	2012	2027	\$397,540	\$8,760	4		\$83,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	
12	NC N	NCU	12-AA-0005	1 Cummings Road LF	Local Govt.	38	49	1969	2007	750,650	1,500,177	1,500,955	1997	Combustion	1986	2010	Controls F	No	Closed	2010	2010 8	3.2	0	\$0	2013	2028	Existing			\$127	\$127	\$127	\$127 \$0 Existing	
																											Existing	\$3,753	4	\$127		\$63,012	\$15,012	\$15,012
9	MC	ED	09-AA-0003	1 Union Mine DS	Local Govt.	21.8	35	1962	2015	1,101,623	1,502,320	1,523,377	1997	Combustion	1973	2010	Controls I	No	Open	2015	2015 5	5.9	0	\$0	2011	2026	Existing	\$2,153	4	\$56,612	\$0 Existing \$8,612	\$0 Existing \$8,612	\$0 Existing \$8,612	
28	SF	BA	28-AA-0002	1 Clover Flat LF	Private	44	39	1984	2020	226,887	836,580	1,589,315			1997	2010	Controls I	Coll. + Cntl.	Open	2020	2020 6	5.9	\$856,600	\$82,491	2012	2027	\$209,800			\$127		\$127 \$82,491 \$209,800	\$127 \$82,491 \$209,800	\$127 \$82,491
																											\$200,000	\$4,345	4	\$127	\$65,382 \$127	\$17,382 \$127	\$17,382 \$127	\$17,382 \$127
15	SJV	SJU	15-AA-0061	1 Taft SLF	Local Govt.	85	7	1972	2123	568,630	1,083,515	1,644,864	2005	Combustion	1980	2010	Controls	NO	Open	2123	2033 5	5.8	0	\$0	2012	2027	Existing	\$8,395	4		\$81,578	\$0 Existing \$33,578	\$0 Existing \$33,578	
44	NCC N	MBU	44-AA-0002	1 City of Watsonville	Local Govt.	31	25	1962	2023	583,714	1,080,517	1,734,443	1997	Combustion	1985	2010	Controls F	No	Open	2023	2023 6	3.6	0	\$0	2011	2026	Existing			\$127	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	
					Local Govt.							1,750,000							2						2012			\$3,062	4	\$60,246 \$127		\$12,246 \$127	\$12,246 \$127	\$12,246 \$127
16	SJV	530	16-AA-0009	1 Hanford LF	Local Govt.	79	9	1973	1998	1,159,295	1,750,000	1,750,000	2000	Compussion	1980	2010	Controls	INO	Closed	2010	2010 €	5.1	0	\$0	2012	2027	Existing	\$7,802	4		\$79,208	\$0 Existing \$31,208	\$0 Existing \$31,208	Existing
37	SD	SD	37-AA-0001	1 Jamacha	Local Govt.	46	13	1960	1978	1,800,000	1,800,000	1,800,000	1998	Combustion	1964	2010	Controls F	No	Closed	2010	2010 4	1.3	0	\$0	2012	2027	Existing			\$127		\$0 Existing	\$0 Existing	\$0 Existing
22	80	80	22.4.4.0005	4 Eleinare Landfill	Local Govt.	44	12	1052	1096	1 000 000	1 000 000	1,900,000	1002	Combustion	1062	2010	Controlo	No	Closed	2010	2010 4	10		¢0	2012	2027		\$4,543	4	\$127	\$66,172			\$18,172
	30	30	33-AA-0005	1 Elsinore Landfill	LOCAL GOVI.		13	1955	1900	1,900,000	1,900,000	1,900,000	1993	Combustion	1905	2010	Controls r		Ciused	2010	2010	+.9	0	\$U	2012	2027	Existing	\$1,073	4		\$52,291	Existing	Existing \$4,291	Existing
43	SF	BA	43-AM-0001	1 Palo Alto RDS	Local Govt.	126	15	1954	2011	893,847	1,548,051	1,913,153	1993	Combustion	1982	2010	Controls I	No	Open	2011	2011 5	5.5	0	\$0	2012	2027	Existing			\$127		\$0 Existing	\$0 Existing	
10	<u> </u>	0.11	10.00.0004	1 Clovis LF	Local Cost	50	12	1060	2020	454 946	1 102 029	1,934,418	2006	Combustion	1090	2010	Controlo	No	0000	2020	2029 5		0	\$0	2012	2027		\$12,444	4	\$127	\$97,775 \$127		\$49,775 \$0	\$49,775
10	337 .	330	10-AA-0004		LUCAI GOVI.	50	13	1909	2029	434,810	1,102,936	1,934,410	2000	Combustion	1909	2010	Controls r		Open	2029	2029 0	5.0	0	\$U	2012	2027	Existing	\$4,938	4		\$67,752	Existing \$19,752	Existing \$19,752	Existing \$19,752
17	LC I	LAK	17-AA-0001	1 Eastlake SLF	Local Govt.	35	29	1960	2027	364,723	1,104,817	1,935,182			1991	2010	Controls F	Coll. + Cntl.	Open	2027	2027 8	3.1	\$686,500	\$66,110	2012	2027	\$172,000			\$127	\$127	\$127 \$66,110 \$172,000		
40	0.11/	0.111	10.44.0040	1 Orange Ave.	Private		44	10.11	2005	524 000	1 100 050	1.000.044	2000	Combustia	1005	2010	Controls	No	Close	2010	2010 5				2012	2007	,	\$3,457	4	\$127	\$61,826 \$127	\$13,826 \$127	\$13,826 \$127	\$13,826 \$127
10	SJV	JU	10-AA-0013	i Urange AVê.	rnvate	29	11	1941	2005	534,399	1,122,053	1,983,341	2006	Compustion	1985	2010	Controls	0	CIUSED	2010	2010 5	.4	U	\$0	2012	2027	Existing	\$2,864	4		\$59,456	\$0 Existing \$11,456	\$0 Existing \$11,456	Existing
19	SC	SC	19-AR-0003	1 Ascon Sanitary LF	Private	62	13	1960	1981	2,000,000	2,000,000	2,000,000	1995	Combustion	1964	2010	Controls F	No	Closed	2010	2010 5	5.0	0	\$0	2013	2028	Existing			\$127			\$0 Existing	
								10							10				-								Landerig	\$1,512	4	\$127		\$54,046	\$6,046	\$6,046
15	SJV	SJU	15-AA-0044	1 Bakersfield	Local Govt.	115	7	1956	1983	2,000,000	2,000,000	2,000,000	2003	Compustion	1963	2010	Controls I	INÖ	Closed	2010	2010 5	5.0	0	\$0	2011	2026	Existing	\$11,357	4	\$93,430	\$0 Existing \$45,430	\$0 Existing \$45,430	\$0 Existing \$45,430	Existing
15	SJV S	SJU	15-AA-0048	1 China Grade SLF	Local Govt.	58	7	1978	1992	1,561,931	2,000,000	2,000,000	2002	Combustion	1980	2010	Controls F	No	Closed	2010	2010 5	5.0	0	\$0	2013	2028				\$127			\$0	

																											Surface	Ana	lysis Y	ear			
	CIW	VMB S File			Ownership Status	Max. Waste Footprint	Average Rainfall	Open	Close	1990 WIP	2006 WIP	2020 WIP	Year LFG Captu	Updated Control Type	Year >= 450.000	Effective Year of Control (WIP	Gas Heat Rate Calc.	New		Fina Gas Gas leat Hea Cap. Calo	Max. Gas t Rate	s Capital Cost of Control	Annualized Capital	Assumed Start Year for Cap Cost	Assumed End Year for Cap. Cost	Annual Operation &	Monitoring & Improved Cover A	nnual hitoring					
CO AB	DIS Num	mber Co	ount ^a	Facility/Site Name		(acres) ^d			Year	(Tons)	(Tons)	(Tons)	re	(2009) °	WIP	Criteria)		Hardware?		Calc Yea		(lump sum)		Amort.	Amort.	Mtce Cost Existing	(Cost/Test) Free		010	2011	2012	2013 Existing	
43 SF	BA 43-AO	D-0001	1 AI	Il Purpose LF	.ocal Govt.	25	15	1965	1993	1,637,887	2,000,000	2,000,000	1990	Combustion	1976	2010	Controls R	No	Closed 2	010 201) 6.7	C	\$0	2012	2027		\$5,728	4	\$127		\$70,912 \$0	\$0	\$0
																				_						Existing	\$2,469	4	\$127	\$57,876	Existing \$9,876		
43 SF	BA 43-AA	A-0006	1 SI	horeline-Mtn. View (Vista)	.ocal Govt.	150	17	1968	1993	1,973,885	2,000,000	2,000,000	1990	Combustion	1972	2010	Controls F	No	Closed 2	010 201	0 6.0	C	\$0	2012	2027	Existing	\$14.814	4		\$107.256	\$0 Existing	Existing	
39 SJV	SJU 39-AA	A-0003	1 H	arney Lane LF	.ocal Govt.	97	17	1948	1994	1,902,280	2,000,000	2,000,000	1993	Combustion	1966	2010	Controls R	No	Closed 2	010 201) 5.8	C	\$0	2013	2028		\$14,814	4	\$127	\$107,256	\$59,256	\$59,256	\$59,256 \$0
																										Existing	\$9,580	4	\$127		\$86,319	Existing \$38,319	
19 SC	SC 19-AA	A-0040	1 B	urbank LF #3	.ocal Govt.	49	19	1971	2053	611,532	1,330,610	2,003,218	1995	Combustion	1986	2010	Controls F	No	Open 2	053 203	3 5.8	C	\$0	2011	2026	Existing	\$1,195		\$52,778	\$0 Existing	\$0 Existing \$4,778	Existing	Existing
52 SV	TEH 52-AA	A-0001	1 R	ed Bluff LF	ocal Govt.	33.6	23	1956	2023	400,561	1,111,250	2,013,981	2005	Combustion	1991	2010	Controls F	No	Open 2	023 202	3 8.3	0	\$0	2012	2027		\$1,195	4 3	\$127	\$4,778 \$127	\$127 \$0	\$127 \$0 \$0	\$127 \$0
																				_						Existing	\$3,318	4	\$127	\$61,273 \$127	Existing \$13,273 \$127	\$13,273	Existing \$13,273 \$127
15 MD	KER 15-AA	A-0062	1 Te	ehachapi SLF	ocal Govt.	32	11	1973	2007	526,883	1,115,907	2,030,714		Open Flare	1991	2010	Controls #	Encl. Flare	Closed 2	010 201	0 5.5	\$284,590	\$27,406	2018	2033	\$159,400	\$3,160	4					
42 SCC	SB 42-AA	4-0017	1 Lo	ompoc LF	ocal Govt.	39	17	1962	2047	259,256	1,119,417	2,068,142	2002	Combustion	1994	2010	Controls F	No	Open 2	047 203	3 5.5	C	\$0	2011	2026		\$3,100	4	\$127	\$0	\$0		
			_																							Existing	\$3,852	4 9	\$63,407 \$127	Existing \$15,407 \$127	Existing \$15,407 \$127	\$15,407	\$15,407
24 SJV	SJU 24-AA	A-0002	1 Bi	illy Wright LF	.ocal Govt.	40	9	1973	2009	274,746	1,124,901	2,158,303			1995	2010	Controls R	Coll. + Cntl.	Closed 2	010 201	0 6.3	\$781,000	\$75,210	2011	2026	\$193,000	\$3,950	4 9	\$63,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$193,000	\$193,000
41 SF	BA 41-AA	A-0008	1 H	illside LF	Private	43	23	1968	2010	864,199	1,794,183	2,252,899	2002	Combustion	1981	2010	Controls F	No	Closed 2	010 201) 8.9	C	\$0	2013	2028		40,000		\$127	\$10,00L	¢10,002	\$0	\$0
																										Existing	\$4,247	4	\$127		\$64,987	Existing \$16,987	
27 NCC	MBU 27-AA	A-0005	1 Jo	ohnson Cnyn LF	.ocal Govt.	80	13	1976	2043	148,946	993,345	2,254,724	2000	Combustion	1998	2010	Controls I	No	Open 2	043 203	3 6.6	C	\$0	2011	2026	Existing	\$7,901	4 9	\$79,603	\$0 Existing \$31.603	\$0 Existing \$31.603	Existing	Existing
43 SF	BA 43-AA	4-0007	1 SI	unnyvale LF	ocal Govt.	92	15	1960	1994	1,889,967	2,300,000	2,300,000	1991	Combustion	1973	2010	Controls R	No	Closed 2	010 201	0 7.5	C	\$0	2012	2027	Folgetiere			\$127	\$127	\$127 \$0	\$127 \$0 \$0	\$127 \$0
																										Existing	\$9,086	4	\$127	\$84,344	Existing \$36,344	\$36,344	
40 SCC	SLO 40-AA	A-0008	1 C	hicago Grade	Private	36.25	19	1986	2026	203,666	920,660	2,305,490	2006	Combustion	1999	2010	Controls F	No	Open 2	026 202	6.8	0	\$0	2011	2026	Existing	\$3,580	4 9	\$62,320	\$0 Existing \$14,320	\$0 Existing \$14,320	Existing	
36 MD	MOJ 36-AA	A-0057	1 Lá	anders DS	ocal Govt.	42	7	1986	2013	201,694	936,892	2,324,132			1998	2010	Controls F	Coll. + Cntl.	Open 2	013 201	3 6.9	\$818,800	\$78,850	2012	2027	\$201,400			\$127	\$127	\$127 \$78,850 \$201,400	\$127 \$78,850	\$127 \$78,850
																										\$201,400	\$4,148	4	\$127	\$64,592 \$127	\$16,592 \$127	\$16,592 \$127	\$16,592
33 SC	SC 33-AA	A-0001	1 Te	equesquite/City of Riverside	.ocal Govt.	120	11	1958	1985	2,400,000	2,400,000	2,400,000	1995	Combustion	1963	2010	Controls F	No	Closed 2	010 201	0 6.3		\$0	2011	2026	Existing	\$2,926	4 9	\$59,702	\$0 Existing \$11,702	\$0 Existing \$11,702	Existing	Existing
40 SCC	SLO 40-AA	A-0001	1 Pi	aso Robles LF	ocal Govt.	66	13	1970	2031	974,622	1,597,969	2,416,280	1997	Combustion	1978	2010	Controls F	No	Open 2	031 203	1 6.7	C	\$0	2012	2027	Existing			\$127		\$0 Existing	\$0	\$0
																										Existing	\$6,518	4	\$127	\$74,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127
33 55	SC 33-AA	4-0012	1 0	oachella Valley DS	.ocal Govt.	75	3	19/2	1997	1,494,459	2,500,000	2,500,000	2000	Combustion	1981	2010	Controls #	NO	Closed	010 201	9.1		\$0	2011	2026	Existing	\$1,829	4 9	\$55,314	\$0 Existing \$7,314	\$0 Existing \$7,314	Existing	Existing
58 SV	FR 58-AA	A-0005	1	aba Gutter Diaposarino. Er	Private	33	21	1967	1997	909,422	2,500,000	2,500,000	1999	Combustion	1984	2010	Controls F	No	Closed 2	010 201) 3.9	0	\$0	2011	2026	Existing			\$127	\$0 Existing	\$0 Existing		\$0 Existing
29 85	PA 29 AA	A 0001	1 4	merican Canyon LF	.ocal Govt.	97	21	1040	2000	1 667 126	2 500 000	2,500,000	1000	Combustian	1079	2010	Controlo	No	Closed	010 201	0 11.5			2011	2026		\$3,259	4 9	\$61,036 \$127	\$13,036 \$0	\$13,036 \$0	\$13,036	\$13,036
20 JF	BA 20-AA	4-0001			Jucar Guvi.	97	21	1940	2000	1,007,130	2,300,000	2,500,000	1990	Compusion	1970	2010	Controls n		CIUSED	010 201	5 11.5		φu	2011	2020	Existing	\$9,580	4 9	\$86,319	\$0 Existing \$38,319	Existing \$38,319	Existing	Existing
33 SC	SC 33-AA	A-0009	1 M	ead Valley DS	ocal Govt.	60	13	1974	1997	1,315,088	2,528,951	2,528,951	1995	Combustion	1982	2010	Controls R	No	Closed	010 201	9.4	C	\$0	2011	2026	Existing			\$127	\$0 Existing	\$0 Existing		\$0 Existing
43 SF	BA 43-AA	A-0004	1 P:	acheco Pass LF	Private	91	19	1963	2004	862.677	2.064.554	2,581,707	1994	Combustion	1983	2010	Controls F	No	Closed 2	010 201	0 10.2	0	\$0	2011	2026		\$1,463	4 9	\$53,851 \$127	\$5,851 \$0	\$5,851		
											-,,	_,,														Existing	\$8,987	4 9	\$83,949	Existing \$35,949	Existing \$35,949	Existing	Existing
36 SC	SC 36-AA	A-0017	1 C	alifornia St. LF	ocal Govt.	106	13	1963	2031	760,853	1,627,494	2,670,268	2001	Combustion	1983	2010	Controls I	No	Open 2	031 203	1 7.6	C	\$0	2012	2027	Existing			\$127		\$0 Existing	Existing	\$0 Existing
54 SJV	SJU 54-AA	A-0004	1 1	eapot Dome DS	.ocal Govt.	71	11	1972	2005	679,732	1,646.300	2,810,691	2005	Combustion	1985	2010	Controls #	No	Closed	010 201) 8.1		\$0	2013	2028		\$2,584	4	\$127	\$58,337 \$127	\$10,337 \$127		\$127
																										Existing	\$7,012	4	\$107		\$76,048	Existing	Existing
44 NCC	MBU 44-AA	A-0001	1 C	ity of Santa Cruz LF	.ocal Govt.	57.5	33	1966	2037	793,897	1,869,373	2,844,784	1991	Combustion	1983	2010	Controls I	No	Open 2	037 203	3 11.1	C	\$0	2011	2026	Existing			\$127	\$0 Existing	\$0 Existing	Existing	Existing
37 SD	SD 37-AA	A-0005	1 R	amona LF	Private	46	15	1969	2006	791,182	1,642,804	2,883,292	1997	Combustion	1981	2010	Controls R	No	Closed 2	010 201	0 5.0	0	\$0	2012	2027		\$5,679	4 9	\$70,715 \$127	\$22,715 \$127	\$22,715 \$127 \$0	\$127	\$127
																										Existing	\$4,543	4	\$107	\$66,172	Existing \$18,172	Existing	Existing
35 NCC	MBU 35-AA	A-0001	1 Jo	ohn Smith Road SWDS	ocal Govt.	44	13	1968	2024	712,443	1,667,101	2,905,134	1998	Combustion	1981	2010	Controls F	No	Open 2	024 202	4 8.2	0	\$0	2011	2026	Existing			\$127	\$0 Existing	\$0 Existing	Existing	
36 MD	MOJ 36-AA	A-0046	1 Bi	arstow RDS	.ocal Govt.	47	5	1963	2007	835,445	1,645,120	2,949,622			1977	2010	Controls 8	Coll. + Cntl.	Closed 2	010 201) 8.2	\$913,300	\$87,951	2013	2028		\$4,345	4 9	\$65,382 \$127	\$17,382 \$127	\$17,382 \$127		\$127
																										\$222,400	\$4,642	4	\$127		\$66,567	\$222,400	\$222,400
37 SD	SD 37-AA	4-0022	1 S	outh Chollas	.ocal Govt.	120	11	1952	1981	3,000,000	3,000,000	3,000,000	1990	Combustion	1957	2010	Controls R	No	Closed	010 201	0 7.1	0	\$0	2013	2028				<i>4121</i>			\$0	\$0

																													Surface		Analysis	Year			
	CO AB	SWIS	S File	ount ª	Facility/Site Name		Waste Footprint	Rainfall					2020 WIP (Tons)	Captu	Control Type	Year >= 450,000 Tons	Year of Control (WIP	Heat Rate Calc.			Gas G Heat He Cap. Ca	as Max. eat Ra	te Cost M Contr	of Annu ol Ca	ualized Ye	Start E ear for fr p Cost	nd Year or Cap. Cost	Operation &	Monitoring & Improved Cover Maintenance	Monitoring	2010	2011	2012		
																												Existing	\$11,851	4			\$95,405		
<td>33 SC</td> <td>SC 33-AA</td> <td>A-0008</td> <td>1 D</td> <td>ouble Butte DS</td> <td>Local Govt.</td> <td>100</td> <td>11</td> <td>1973</td> <td>1995</td> <td>2,732,052</td> <td>3,000,000</td> <td>3,000,000</td> <td>1994</td> <td>Combustion</td> <td>1975</td> <td>2010</td> <td>Controls I</td> <td>No</td> <td>Closed</td> <td>2010 20</td> <td>10 9</td> <td>8</td> <td>0</td> <td>\$0</td> <td>2011</td> <td>2026</td> <td>Evicting</td> <td></td> <td></td> <td>\$127</td> <td>\$0</td> <td></td> <td></td> <td></td>	33 SC	SC 33-AA	A-0008	1 D	ouble Butte DS	Local Govt.	100	11	1973	1995	2,732,052	3,000,000	3,000,000	1994	Combustion	1975	2010	Controls I	No	Closed	2010 20	10 9	8	0	\$0	2011	2026	Evicting			\$127	\$0			
			-	_																		-						Existing	\$2,438	4		\$9,752			
<th< th=""></th<>	33 SC	SC 33-AA	A-0003	1 H	ighgrove LF	Local Govt.	71	13	1947	1998	1,284,218	3,002,920	3,002,920	1997	Combustion	1984	2010	Controls F	No	Closed	2010 20	10 11	.3	0	\$0	2012	2027	Existing			0121		÷-		\$0 Existing
																													\$1,731	4	\$127		\$6,924		
	41 SF	BA 41-AA	A-0012	2 N	larsh Road	Local Govt.	146	17	1961	1984	3,500,000	3,500,000	3,500,000	1991	Combustion	1963	2010	Controls I	No	Closed	2010 20	10 9	2	0	\$0	2013	2028	Existing						Existing	
																													\$14,419	4	\$127		\$105,676	\$57,676	\$57,676
	15 SJV	SJU 15-AA	A-0050	1 A	rvin SLF	Local Govt.	143	7	1971	2008	1,669,202	3,519,658	3,520,296	2001	Open Flare	1978	2010	Controls I	Encl. Flare	Closed	2010 20	10 4	0 \$284	,590 5	\$27,406	2018	2033	\$625,600	0 111100						
	54 S.W	S	A 0008	1 14	/oothillo DS		152	11	1070	2026	1 259 544	2 644 196	2 765 962	2004	Combustion	1079	2010	Controlo	No	0000	2026 20	06 10	7		£0	2012	2027		\$14,123	4	\$127		£0		50
	54 357	3JU 54-AA	A-0006		Oddville DS	Local Govi.	155		1970	2020	1,230,344	2,044,100	3,735,863	2004	Combustion	1976	2010	Controls r		Open	2020 20	20 10	./		φU .	2012	2021	Existing	\$15.110	4		\$108.441	Existing	Existing	
<	10 S.IV	SIU 10-AA	A-0002	1 0	hateau Fresno I F	Private	75	11	1950	1996	2 132 332	3,800,000	3 800 000	1993	Combustion	1979	2010	Controls F	ENo.	Closed	2010 20	10 21	0	0	\$0	2013	2028		\$10,110		\$127			\$127	\$127
2 3 3 3 3 3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Existing</td><td>\$7,407</td><td>4</td><td></td><td></td><td>\$77,628</td><td></td><td>Existing</td></td<>																												Existing	\$7,407	4			\$77,628		Existing
	33 SC	SC 33-AA	A-0004	1 C	orona Disposal Site	Local Govt.	95	11	1961	1986	4,000,000	4,000,000	4,000,000	1990	Combustion	1963	2010	Controls I	No	Closed	2010 20	10 10	.8	0	\$0	2013	2028				\$127				\$0
																												Existing	\$2,316	4			\$57,264		
	56 SCC	VEN 56-AA	A-0004	1	loro J. E)	Local Govt.	120	15	1962	1989	4,000,000	4,000,000	4,000,000	1991	Combustion	1965	2010	Controls I	No	Closed	2010 20	10 11	.5	0	\$0	2011	2026	Existe			\$127	\$0			\$0
																												Existing	\$11,851	4		\$47,405			
	34 SV	SAC 34-AA	A-0018	1 S	acramento City LF	Local Govt.	130	19	1960	1994	3,410,394	4,000,000	4,000,000	1991	Combustion	1967	2010	Controls F	No	Closed	2010 20	10 12	.7	0	\$0	2012	2027	Existing			V 121				\$0 Existing
																													\$12,839	4	\$127				
No No <th< td=""><td>56 SCC</td><td>VEN 56-AA</td><td>A-0011</td><td>1 B</td><td>ailard LF</td><td>Local Govt.</td><td>120</td><td>15</td><td>1989</td><td>1996</td><td>1,879,583</td><td>4,000,000</td><td>4,000,000</td><td>1991</td><td>Combustion</td><td>1988</td><td>2010</td><td>Controls I</td><td>No</td><td>Closed</td><td>2010 20</td><td>10 16</td><td>.0</td><td>0</td><td>\$0</td><td>2013</td><td>2028</td><td>Existing</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	56 SCC	VEN 56-AA	A-0011	1 B	ailard LF	Local Govt.	120	15	1989	1996	1,879,583	4,000,000	4,000,000	1991	Combustion	1988	2010	Controls I	No	Closed	2010 20	10 16	.0	0	\$0	2013	2028	Existing							
</td <td></td> <td>\$11,851</td> <td>4</td> <td>\$127</td> <td></td> <td>,</td> <td></td> <td></td>																													\$11,851	4	\$127		,		
N N N N N <th< td=""><td>16 SJV</td><td>SJU 16-AA</td><td>A-0004</td><td>1 A</td><td>venal LF</td><td>Local Govt.</td><td>123.2</td><td>7</td><td>1980</td><td>2020</td><td>341,069</td><td>1,136,419</td><td>4,003,699</td><td></td><td></td><td>1997</td><td>2010</td><td>Controls I</td><td>Coll. + Cntl.</td><td>Open</td><td>2020 20</td><td>20 11</td><td>.6 \$2,353</td><td>,480 \$2</td><td>226,640</td><td>2011</td><td>2026</td><td>\$542,440</td><td></td><td></td><td></td><td>\$542,440</td><td>\$542,440</td><td>\$542,440</td><td>\$542,440</td></th<>	16 SJV	SJU 16-AA	A-0004	1 A	venal LF	Local Govt.	123.2	7	1980	2020	341,069	1,136,419	4,003,699			1997	2010	Controls I	Coll. + Cntl.	Open	2020 20	20 11	.6 \$2,353	,480 \$2	226,640	2011	2026	\$542,440				\$542,440	\$542,440	\$542,440	\$542,440
	45 01/	0110 45 44			(and Oracles) (Direct O)		400	07	4000	0040	400.040	0.404.050	4 504 004			4000	0040	O controllo I	0-11 - 0-11	0	0040	40.00	0 64.045	000 0	101.115	0040	0007		\$12,167	4			\$127	\$127	\$127
N N N N N <	45 SV	SHA 45-AA	A-0043	1 1	Vest Central (Phase 2)	Local Govt.	100	3/	1990	2013	106,919	2,101,253	4,581,004			1993	2010	Controls	Coll. + Chu.	Open	2013 20	13 20	.9 \$1,915	,000 \$	184,415	2012	2027	\$445,000	£0.976			\$97 E04	\$445,000	\$445,000	\$445,000
	45 SV	SHA 45-AA	A-0020	1 A	nderson LF	Private	165	29	1976	2049	550.274	2.063.459	4.647.695	2006	Combustion	1988	2010	Controls F	No	Open	2049 20	33 20	9	0	\$0	2012	2027		\$3,070	-	\$127		\$127	\$127	
						T THORE	100		10/0	2010	000,214	2,000,100	4,047,000	2000	Combuction	1000	2010			open	2010 20						LOLI	Existing	\$16,295	4		\$113,182	Existing	Existing	Existing
I I I I I <	10 SJV	SJU 10-AA	A-0005	1 C	ity of Fresno LF	Local Govt.	145	11	1937	1987	4,700,000	4,700,000	4,700,000	2000	Combustion	1945	2010	Controls I	No	Closed	2010 20	10 11	.5	0	\$0	2011	2026				\$127	\$127	\$127		\$0
10 10 10 10 10																												Existing	\$14,320	4		\$57,281			
<td>13 SS</td> <td>IMP 13-AA</td> <td>A-0019</td> <td>1 R</td> <td>epublic-Imperial</td> <td>Private</td> <td>73</td> <td>3</td> <td>1971</td> <td>2010</td> <td>279,924</td> <td>1,856,219</td> <td>4,708,951</td> <td></td> <td></td> <td>1993</td> <td>2010</td> <td>Controls F</td> <td>Coll. + Cntl.</td> <td>Closed</td> <td>2010 20</td> <td>10 13</td> <td>.8 \$1,404</td> <td>,700 \$</td> <td>135,273</td> <td>2012</td> <td>2027</td> <td></td> <td></td> <td></td> <td>\$127</td> <td></td> <td></td> <td></td> <td></td>	13 SS	IMP 13-AA	A-0019	1 R	epublic-Imperial	Private	73	3	1971	2010	279,924	1,856,219	4,708,951			1993	2010	Controls F	Coll. + Cntl.	Closed	2010 20	10 13	.8 \$1,404	,700 \$	135,273	2012	2027				\$127				
N N N N N <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$331,600</td><td>\$7,209</td><td>4</td><td>\$107</td><td>\$76,838</td><td></td><td></td><td></td></th<>																												\$331,600	\$7,209	4	\$107	\$76,838			
N N N N N	20 SJV	SJU 20-AA	A-0002	1 F	airmead LF	Local Govt.	77	11	1958	2033	661,128	2,309,543	4,781,653	1998	Combustion	1986	2010	Controls I	No	Open	2033 20	33 13	.8	0	\$0	2012	2027	Existing			\$127				
5 5 5 5 5 <				_																		_							\$7,605	4	\$127		\$30,418	\$30,418	\$30,418
N N	54 SJV	SJU 54-AA	A-0009	1 V	isalia DS	Local Govt.	247	11	1952	2024	786,444	2,967,791	4,782,022	2004	Combustion	1987	2010	Controls I	No	Open	2024 20	24 14	.3	0	\$0	2012	2027	Existing					Existing	Existing	\$0 Existing
																							_						\$24,394	4	\$127		\$127	\$127	\$127
N N	1 SF	BA U1-AA	A-0006	1 0	avis Street	Local Govt.	194	21	1965	1980	4,800,000	4,800,000	4,800,000	1990	Combustion	1965	2010	Controls I	NO	Closed	2010 20	10 12	.5	0	\$0	2012	2027	Existing	640.450			6404 000	Existing	Existing	Existing
	39 S.IV	SIII 39-64	A-0022	1 N	orth County LE	Local Govt	185	17	1990	2033	94.996	2 161 867	5 090 525		Combustion	1993	2010	Controls I	No	Open	2033 20	133 16	3	0	\$0	2012	2027		\$19,159	4	\$127	\$124,030			\$70,038
N N																												Existing	\$18,271	4		\$121,082	Existing	Existing	
	50 SJV	SJU 50-AA	A-0001	1 F	ink Rd LF	Local Govt.	216	11	1973	2019	706,220	2,793,994	5,158,987	2004	Combustion	1986	2010	Controls I	No	Open	2019 20	19 15	.1	0	\$0	2011	2026				\$127	\$127	\$127	\$127	\$127
42 32 32 42 42 42 42 </td <td></td> <td>Existing</td> <td>\$21,332</td> <td>4</td> <td></td> <td>\$85,329</td> <td>\$85,329</td> <td>\$85,329</td> <td>\$85,329</td>																												Existing	\$21,332	4		\$85,329	\$85,329	\$85,329	\$85,329
<tr< td=""><td>42 SCC</td><td>SB 42-AA</td><td>A-0016</td><td>1 C</td><td>ity of Santa Maria LF</td><td>Local Govt.</td><td>245</td><td>15</td><td>1940</td><td>2017</td><td>1,217,394</td><td>3,247,271</td><td>5,338,263</td><td>1998</td><td>Combustion</td><td>1981</td><td>2010</td><td>Controls F</td><td>No</td><td>Open</td><td>2017 20</td><td>17 15</td><td>.5</td><td>0</td><td>\$0</td><td>2011</td><td>2026</td><td></td><td></td><td></td><td>\$127</td><td>\$0</td><td>\$0</td><td>\$0</td><td>\$0</td></tr<>	42 SCC	SB 42-AA	A-0016	1 C	ity of Santa Maria LF	Local Govt.	245	15	1940	2017	1,217,394	3,247,271	5,338,263	1998	Combustion	1981	2010	Controls F	No	Open	2017 20	17 15	.5	0	\$0	2011	2026				\$127	\$0	\$0	\$0	\$0
44 ACC MEU 44-A-000 1 Buena Vista DS Local Gent 6 2 9 5 9 0 0 0 0 <																												Existing	\$24,196	4		\$96,785	\$96,785	\$96,785	\$96,785
Image: Second	44 NCC	MBU 44-AA	A-0004	1 B	uena Vista DS	Local Govt.	61	23	1966	2021	1,321,475	3,250,261	5,415,161	1991	Combustion	1977	2010	Controls I	No	Open	2021 20	21 21	.8	0	\$0	2011	2026	Evictica			\$127	\$0	\$0	\$0	\$0
16 No 16 Actual number line SA Private 43 7 198 20 0 0 0 0 <																												CNOULD	\$6,024	4		\$24,097	\$24,097	\$24,097	\$24,097
I I I I <th<< td=""><td>16 SJV</td><td>SJU 16-AA</td><td>A-0021</td><td>1 K</td><td>ettleman Hills SLF</td><td>Private</td><td>43</td><td>7</td><td>1998</td><td>2023</td><td>0</td><td>1,685,025</td><td>5,488,215</td><td>2005</td><td>Combustion</td><td>2000</td><td>2010</td><td>Controls I</td><td>No</td><td>Open</td><td>2023 20</td><td>23 16</td><td>2</td><td>0</td><td>\$0</td><td>2011</td><td>2026</td><td>Existing</td><td></td><td></td><td></td><td>\$0 Existing</td><td>\$0 Existing</td><td>\$0</td><td>\$0 Existing</td></th<<>	16 SJV	SJU 16-AA	A-0021	1 K	ettleman Hills SLF	Private	43	7	1998	2023	0	1,685,025	5,488,215	2005	Combustion	2000	2010	Controls I	No	Open	2023 20	23 16	2	0	\$0	2011	2026	Existing				\$0 Existing	\$0 Existing	\$0	\$0 Existing
Image: 1 1mage: 1																													\$4,247	4		\$16,987	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127
Image: 1	15 SJV	SJU 15-AA	A-0057	1 S	halter-Wasco SLF	Local Govt.	135	7	1972	2027	1,141,979	3,043,121	5,665,322	2002	Combustion	1983	2010	Controls I	No	Open	2027 20	27 6	5	0	\$0	2012	2027	Existing				040107	Existing	Existing	Existing
Image: Second	27 05	8D 07.41	A 00000	1 2	an Marnan I E		107	10	1070	1007	2 492 500	6 000 000	6 000 000	1000	Combustis	1004	2010	Contrat	No	Close	2010	10			60	2012	2027		\$13,333	4	\$127		\$127	\$127	\$127
Image: Second	3/ 50	30 37-AA		- 5	an widicus LF	LUCAI GOVI.	107	13	19/9	1997	2,403,308	3,000,000	6,000,000	1990	SUMPLIESTICA	1984	2010	Controis	U.V.	00500	2010 20	23	-	0	. U¢	2012	2021	Existing	\$10.567			\$00.260	Existing	Existing	Existing
1 1	4 SV	BUT 04-AA	A-0002	1 N	eal RD LF	Local Govt	140	29	1970	2033	493,221	3,100.082	6,086.556	2002	Combustion	1989	2010	Controls F	No	Open	2033 20	33 27	.0	0	\$0	2011	2026		910,507	4	\$127				
\$127 \$127 \$127 \$127 \$127																												Existing	\$13,826	4		Existing \$55,306	Existing \$55,306	Existing \$55,306	Existing \$55,306
	58 SV	FR 58-AA	A-0011	1 C	strom Road SLF	Private	225	21	1995	2066	0	1,663,897	6,125,580	2003	Open Flare	2001	2010	Controls F	Encl. Flare	Open	2066 20	33 30	.1 \$370	,419 9	\$35,671	2018	2033								

	Annual phitoring equency 2010 4 \$127	2011 20	012 2013	2011
Image: Note of the state o	4 \$127	+		2014
Existing Exi		7 \$127	\$127 \$1	27 \$127
				\$0 \$0
	4 \$127	\$82,764	\$34,764 \$34,7 \$127	
36 SC SC 36:AA-0087 1 San Timoteo SWDS Local Govt. 114 15 1978 2016 773,034 3,200,222 6,832,341 2000 Combustion 1987 2010 Controls No. Open 2016 20.1 0 \$0 2012 2027 Existing Existing				\$0 \$0 ng Existing
\$2,779	4 \$127		\$11,117 \$11,1 \$127 \$1	
19 SC SC 19/AA-0013 1 Azusa LF (Zone I) Private 77 17 1958 1991 4,980,097 5,331,470 7,167,957 1990 Combustion 1960 2010 Closed 2010 17.4 0 \$0 2013 2028			Existi	
\$1,877	4 \$127		\$55,509 \$7,5	
48 SV YS 48-AA-0002 1 B & J Drop Box Private 260 21 1964 2070 1,529,609 3,911,141 7,168,617 Combustion 1973 2010 Controls (No Open 2073 28.2 0 \$0 2012 2027			Existing Existi	
	4 \$127		\$102,710 \$102,7 \$127 \$1	27 \$127
7 SF BA 07-AA-0002 1 Acme Sanitary LF Private 109 17 1954 2003 6,429,329 7,488,750 1991 Combustion 1955 2010 Closed 2010 19.4 0 \$0 2012 2027 - <td< td=""><td></td><td></td><td>\$0 Existing Existi \$43,059 \$43,0</td><td></td></td<>			\$0 Existing Existi \$43,059 \$43,0	
19 SC SC 19.4H-0001 1 Whiter-Savage Carryon Local Gov. 132 15 1963 20.39 7.618,193 1993 Combustion 1966 2010 Controls (No Open 2033 20.5 0 \$0 2012 2027 2027	\$127			so so
	4		Existing Existi \$12,873 \$12,8	ng Existing
34 SV SAC 34-AA-0020 1 L&DLF Private 157 19 1977 2013 1,239,834 3,565,900 7,739,980 2004 Venting 1981 2010 Controls [Coll.+Cntl. Open 2013 2013 22.6 \$2,992,300 \$288,158 2011 2026	\$127	7 \$127	\$127 \$1 288,158 \$288,1	27 \$127
\$684,400 \$15,505	4 \$110,021		\$684,400 \$684,4 \$62,021 \$62,0	
24 SJV SJU 24-AA-0001 1 Hwy59 DS Local Govt. 255 13 1972 2043 1,322,411 3,973,714 7,847,858 Carbon 1980 2010 Controls [Encl. Flare Open 2043 23.3 23.0 \$347,872 \$33,500 2012 2027	\$127	9	\$127 \$1 \$33,500 \$33,5	00 \$33,500
1 1	4	\$148,735 \$1		35 \$100,735
43 SF BA 43-AN-0015 1 Guadalupe SLF Private 115 25 1929 0.034,929 4,469,114 7,922,634 1990 Combustion 1984 2010 Controls No. Open 2020 10.6 0 \$001 2020 2020 10.8 0 <	\$127	\$0		\$0 \$0
Existing Strategy Str	4 \$93,430	0 \$45,430 \$	Existing Existi \$45,430 \$45,4	30 \$45,430
27 NC MBU 27-AA-0007 1 Crazy Horse LF Local Govt. 72 15 1960 2009 1,189,474 4,000,135 7,943,988 1993 Combustion 1981 2010 Controls No Closed 2010 2010 23.2 0 \$\$0 2011 2026 Existing	\$127	\$0	\$127 \$1 \$0 Existing Existi	\$0 \$0
	4 \$76,443 \$127	3 \$28,443 \$	\$28,443 \$28,4	43 \$28,443
19 SC SC 19-AR-0006 1 Penrose Pit Private 72 17 1960 1985 9,000,000 9,000,000 1990 Combustion 1960 2010 Controls No Closed 2010 2010 23.8 0 \$0 2012 2027 Existing			\$0 Existing Existi	\$0 \$0 ng Existing
\$1,755	4 \$127	\$55,021	\$7,021 \$7,0	
31 SV PLA 31-AA-0210 1 Western Regional LF Local Govt. 231 21 1980 2036 1,201,867 4,538,046 9,086,821 1993 Combustion 1984 2010 Controls No Open 2036 2033 39.9 0 \$0 2011 2026 Existing		\$0	\$0 Existing Existi	\$0 \$0 ng Existing
\$22,814	4 \$139,254 \$127		\$91,254 \$91,2 \$127 \$1	
39 \$JV \$JU 39-AA-0004 1 Foothill LF Local Govt. 50 17 1965 2054 51,014 4,123,926 9,158,468 Open Flare 1989 2010 Controls (Encl. Flare Open 2054 2033 27.2 \$347,872 \$33,500 2018 2033 - 4				
Image: Section of the section of th	4 \$127	7 \$127 \$0	\$127 \$1 \$0	27 \$127 \$0 \$0
37 37 17 197 2040 2/17 2/10 2/11 2/10 2/	4 \$234.854	Existing I	Existing Existi 5186.854 \$186.8	ng Existing
Image: Control in the state of the	\$127		\$127 \$1	
Image: Construction	4	<u> </u>	Existi \$70,517 \$22,5	ng Existing
42 SCC SB 42-AA-0015 1 Tajiguas LF Local Govt. 118 17 1967 2020 2,654,471 6,235,959 10,283,897 1996 Combustion 1974 2010 Controls (No Open 2020 2020 29.6 0 \$0 2011 2026	\$127	7 \$0		\$0 \$0
Existing \$11,654	4 \$94,615	5 \$46,615 \$	Existing Existi \$46,615 \$46,6	15 \$46,615
36 MD MOJ 36-AA-0045 1 Victorville RDS Local Govt. 341 7 1955 2059 10,626,492 2003 Combustion 1980 2010 Controls (No. Open 2059 2033 30.7 0 \$\$0 2011 2026	\$127	\$0		\$0 \$0
Existing State Sta	4 \$182,709 \$127	9 \$134,709 \$1	Existing Existing \$134,709 \$134,70 \$127 \$1	09 \$134,709
43 SF BA 43-AN-0008 1 Kirby Canyon LF Private 311 23 1986 2025 1,775,249 6,608,275 11,149,364 1996 Combustion 1986 2010 Controls No Open 2025 2025 26.3 0 \$0 2012 2027 Existing	\$12/			\$0 \$0
	4 \$127	\$170,857 \$1	\$122,857 \$122,8 \$127 \$1	57 \$122,857
27 NC MBU 27-AA-0010 1 Monterey Peninsula LF Local Govt. 315 15 196 208 3,981,093 7,517,740 11,570,780 199 Combustion 1969 2010 Controls No Open 2084 2033 32.0 0 \$0 2011 2026 Existing		\$0		\$0 \$0
\$31,109	4 \$172,438 \$127	8 \$124,438 \$1		38 \$124,438
19 SC SC 19-AR-0002 1 Summer carryon			Existing Existi	\$0 \$0 ng Existing
\$7,046	4 \$127		\$28,183 \$28,1	
36 SC SC 36 AA-0051 1 Colton LF Local Govt. 82 13 1964 2006 1,897,376 6,062,952 11,840,853 2010 Combustion 1982 2010 Controls No Closed 2010 34.4 0 \$0 2012 2027 Existing -			Existing Existi	
6 SCC VEN 56-AA-0005 1 Toland Rd. LF Local Gov. 92 19 1970 2027 675,668 4,682,098 11,982,793 1997 Combustion 1983 2010 Controls (No Open 2027 34.4 0 \$0 2011 2026	4 \$127		\$7,997 \$7,9	97 \$7,997 \$0 \$0
	4 \$84.344	Existing I	Existing Existi \$36,344 \$36,3	ng Existing
A A	\$127		\$127 \$1	
	4 \$61,653	Existing 8 3 \$13,653 5	Existing Existi \$13,653 \$13,6	ng Existing
19 MD AV 19-AA-0050 1 Lancaster Waste Mgt. Private 209 7 1954 2012 1,253,944 4,921,267 12,577,703 1993 Combustion 1978 2010 Controls No. Open 2012 2012 10.6 0 \$\$0 2011 2026	\$127	7 \$0		\$0 \$0
Image: Constraint of the second sec	4 \$130,563	3 \$82,563 \$	Existing Existi \$82,563 \$82,5	
	\$127	\$0	\$127 \$0	\$0 \$0
33 SS SC 33-AA-0011 1 Edom Hill DS Local Govt. 148 5 1967 2004 1,681,656 6,983,228 12,733,398 2001 Combustion 1980 2010 Controls No. Closed 2010 36.7 0 \$0 2011 2020		Existing I	Existing Existi	
33 SS SC 33-AA-0011 1 Edom Hill DS Local Got. 148 5 1967 2004 1,681,856 6,983,228 12,733,388 201 Combustion 1980 2010 Closed 2010 36.7 0 \$0 2011 2026 Existing 1<	4 \$62,433	3 \$14,433 \$	\$14,433 \$14,4	33 \$14,433
Image: Note of the state of the st	4 \$62,433 \$127	3 \$14,433 \$		\$0 \$0
Image: Contract of the contract		3 \$14,433 \$		\$0 \$0 ng Existing

																												Surface	A	nalysis	Year			
	CIWM SWIS F	File			Ownership Status	Waste Footprint	Average Rainfall			1990 WIP	2006 WIP	2020 WIP		Updated Control Type	450,000 Tons	Effective Year of Control (WIP	Heat Rate Calc.	New	2010	Gas Heat Cap.	Heat Calc.	Max. Gas Rate (MM	Cost of Control	Annualized Capital Cost ^c	Start Year for Cap Cost		Annual Operation &	Monitoring & Improved Cover Maintenance	Annual Aonitoring	2010	0014	2010	2042	2014
CO AB	DIS Numb	ber Cou	unt -	Facility/Site Name		(acres) -	(Inch/Yr)	Year -	Year	(Tons)	(Tons)	(Tons)	re	(2009) °	WIP	Criteria)	Test?	Hardware?	Status	Calc	Year	BIU/HR) (lump sum)	Cost -	Amort.	Amort.	Mtce Cost Existing	(Cost/Test) \$22,616	Frequency	2010	2011 \$138,464	2012 Existing \$90,464		
33 SC	SC 33-AA-0	0007	1 La	mb Canyon DS	Local Govt.	144.6	17	1970	2023	1,350,362	5,092,563	14,048,887	2002	Combustion	1981	2010	Controls	RNo .	Open	2023	2023	40.6	0	\$0	2011	2026		\$22,010		\$127		\$127	\$127	\$127
																											Existing	\$3,525	4	\$62,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	\$14,101
49 SF	BA 49-AA-0	0001	1 Ce	ntral LF	Local Govt.	172	29	1972	2019	4,585,243	11,192,029	14,126,201	1990	Combustion	1974	2010	Controls	No	Open	2019	2019	59.8	0	\$0	2011	2026				\$127	\$127 \$0	\$127 \$0	\$0	\$0
																											Existing	\$16,987	4	\$115,947 \$127	Existing \$67,947 \$127	Existing \$67,947 \$127	\$67,947	\$67,947
1 SF	BA 01-AA-0	8000	1 Tri	-Cities LF	Private	115	15	1968	2005	4,217,879	9,325,621	14,655,691	1990	Combustion	1971	2010	Controls	No	Closed	2010	2010	49.5	0	\$0	2013	2028	Existing			\$127	φ127	ψ127	\$0 Existing	\$0
																												\$11,357	4	\$127		\$93,430		
21 SF	BA 21-AA-0	0001	1 Re	dwood SLF	Private	195	29	1958	2039	1,960,908	8,286,636	15,476,521	1990	Combustion	1981	2010	Controls	FNo	Open	2039	2033	82.3	0	\$0	2011	2026	Existing				\$0 Existing	\$0 Existing	Existing	Existing
				0		100		1050				15.005.510																\$19,258	4	\$125,033 \$127	\$77,033 \$127	\$77,033 \$127	\$127	\$127
7 5F	BA 07-AA-0	0001	1 VV	Contra Costa LF	Private	160	23	1953	2006	4,483,715	9,410,067	15,665,749	1992	Combustion	1960	2010	Controls	INO	Closed	2010	2010	59.6	0	\$0	2012	2027	Existing	\$15,802	4		\$111,206	\$0 Existing \$63,206	Existing	
19 SC	SC 19-AA-0	0819	1 To	von	Local Govt.	90	17	1957	1986	16.000.000	16.000.000	16,000,000	1990	Combustion	1957	2010	Controls	8No	Closed	2010	2010	42.3	0	\$0	2012	2027		\$10,002		\$127	¢111,200	\$00,200		\$0
																											Existing	\$2,194	4		\$56,777	Existing \$8,777	Existing	
10 SJV	SJU 10-AA-0	0009	1 An	nerican Ave.	Local Govt.	361	9	1971	2031	2,260,008	8,990,687	16,983,923	2000	Combustion	1974	2010	Controls	No	Open	2031	2031	49.2	0	\$0	2011	2026				\$127	\$0	\$0		\$0
		_	_																	_							Existing	\$35,652	4	\$190,609 \$127	Existing \$142,609 \$127	Existing \$142,609 \$127	\$142,609	\$142,609
19 SC	SC 19-AA-0	0015	1 Sp	adra LF	State Govt.	173	17	1957	2000	10,144,050	17,536,915	17,536,915	1990	Combustion	1961	2010	Controls	No	Closed	2010	2010	100.1	0	\$0	2013	2028	Existing			¥12/	φ12 <i>1</i>	<i>4121</i>	\$127 \$0 Existing	\$0 Existing
																												\$4,218	4	\$127		\$64,871		\$16,871
19 SC	SC 19-AA-0	0820	1 Lo	pez Canyon LF	Local Govt.	166	19	1975	1996	14,616,276	19,000,000	19,000,000	1990	Combustion	1974	2010	Controls	fNo	Closed	2010	2010	65.8	0	\$0	2012	2027	Existing					\$0 Existing	Existing	\$0 Existing
22 50	SC 33-AA-0	0006	1 Ba	dlands DS	Local Govt.	150	15	1066	2018	674 139	6 769 639	19,976,773	2001	Combustion	1097	2010	Controle	No	0000	2018	2018	57.9	0	¢/	2011	2026		\$4,047	4	\$127	\$64,188 \$0	\$16,188		\$16,188
33 30	3C 33-AA-0	0008	i Da	ularius Do	Local Govi.	150	15	1900	2018	074,139	0,700,030	19,970,773	2001	Composition	1967	2010	Controls		Open	2018	2018	57.6	0	φu	2011	2020	Existing	\$3.657	4	\$62,628	Existing \$14.628	Existing \$14.628	Existing	
1 SF	BA 01-AA-0	0010	1 Va	isco Road LF	Private	222	15	1962	2016	3,990,878	11,845,745	21,368,916	1996	Combustion	1973	2010	Controls	No	Open	2016	2016	59.4	0	\$0	2012	2027				\$127	\$127	\$127 \$0	\$127	
																											Existing	\$21,925	4		\$135,699	Existing \$87,699	\$87,699	\$87,699
19 SC	SC 19-AA-0	0836	1 (NI	DL Site)	Private	190	17	1948	1984	22,000,000	22,000,000	22,000,000	1995	Combustion	1948	2010	Controls	No	Closed	2010	2010	53.4	0	\$0	2011	2026				\$127	\$127 \$0	\$127 \$0	\$0	\$0
																											Existing	\$4,632	4	\$66,529 \$127	Existing \$18,529	Existing \$18,529		
7 SF	BA 07-AA-0	0032	1 Ke	ller Canyon LF	Private	244	17	1992	2037	0	7,678,238	22,690,827	1993	Combustion	1994	2010	Controls	No	Open	2037	2033	99.5	0	\$0	2011	2026	Existing			\$127	\$0 Existing	\$0 Existing		
																												\$24,097	4	\$144,390 \$127	\$96,390	\$96,390 \$127	\$96,390	\$96,390 \$127
19 SC	SC 19-AE-0	0001	1 Pa	los Verdes	Local Govt.	291	13	1957	1980	23,600,000	23,600,000	23,600,000	1990	Combustion	1956	2010	Controls	FNo .	Closed	2010 :	2010	57.8	0	\$0	2011	2026	Existing	07.005		0.00.000	\$0 Existing	\$0 Existing	Existing	Existing
49 SE	BA 48-AA-0	0075	1 Po	trero Hills	Private	190	21	1096	2059	574 163	8 521 1/8	24,710,972	1003	Compution	1080	2010	Controle	No	0000	2059	2022	112.2	0	¢/	2011	2026		\$7,095	4	\$76,378 \$127	\$28,378 \$0	\$28,378 \$0		
40 51	DA 40-AA-0	00/3			Tivate	130	21	1300	2005	3/4,103	0,021,140	24,110,312	1335	Combastion	1303	2010	Controls		Орен	2033	2000	112.2		φ0	2011	2020	Existing	\$18,764	4	\$123,058	Existing \$75,058	Existing \$75,058	Existing	Existing
36 SC	SC 36-AA-0	0055	1 Fo	ntana RDS (Mid-Valley)	Local Govt.	408	21	1958	2033	2,466,265	9,786,714	25,197,761	1995	Combustion	1974	2010	Controls	No	Open	2033	2033	111.2	0	\$0	2011	2026				\$127	\$127 \$0	\$127 \$0	\$127	\$127
																											Existing	\$9,947	4	\$87,788	Existing \$39,788	Existing \$39,788	\$39,788	\$39,788
19 SC	SC 10 AA	0021	3	asion Canyon	Local Govt.	375	19	1958	1981	26,800,000	26,800,000	26,800,000	1990	Combustion	1957	2010	Controls	No	Closed	2010	2010	5.7	0	\$0	2011	2026	Existing			\$127	\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$0
																											Existing	\$9,143	4	\$84,570 \$127	\$36,570	\$36,570		
30 SC	SC 30-AB-0	0017	1 Co	yote Canyon SLF	Private	325	13	1963	1990	27,000,000	27,000,000	27,000,000	1990	Combustion	1962	2010	Controls	No	Closed	2010	2010	105.6	0	\$0	2013	2028	Existing						\$0 Existing	Existing
56 000	VEN 56-AA-0	0007	1 0	mi Valley I E	Private	185.61	45	1070	2022	4 946 409	12 730 822	27,823,257	1001	Combustia-	1074	2010	Control-	ENIO.	0000	2022	2022	05 F	^		2011	2026		\$7,924	4	\$127	\$0	\$79,694		\$31,694
30 300	- LIN JO-MA-U		. oir		, iivaid	100.01	10	1370	2022	-1,010,430	13,138,023	21,023,237	1001	Somousuufi	13/1	2010	Sonauls		Open	2022	-022	33.3	0		2011	2020	Existing	\$18,331	4	\$121,323	Existing	Existing	Existing	
43 SF	BA 43-AN-0	0003	1 Ne	wby Island	Private	313.2	15	1932	2016	2,409,383	15,746,481	28,339,271	1992	Combustion	1985	2010	Controls	No	Open	2016	2016	58.6	0	\$0	2011	2026				\$127	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0
																											Existing	\$30,932	4	\$171,727		\$123,727	\$123,727	Existing \$123,727
41 SF	BA 41-AA-0	0002	1 1		Private	191	33	1976	2023	3,102,621	16,593,446	29,255,388	1991	Combustion	1983	2010	Controls	No	Open	2023	2023	171.5	0	\$0	2011	2026	Existing			\$127	\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$0
																											LAISUIIG	\$18,863	4	\$123,453 \$127			\$75,453	\$75,453
34 SV	SAC 34-AA-0	0001	1 Kie	afer LF	Local Govt.	667	19	1967	2035	4,882,713	17,499,572	30,055,405	1994	Combustion	1976	2010	Controls	FNo	Open	2035	2033	88.7	0	\$0	2011	2026	Existing				\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing
	00 (\$65,873	4	\$311,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127
3/ SD	5U 37-AA-0	0023	1 Sy	camore SW LF	Private	324	13	1976	2016	2,984,513	14,111,841	31,614,977	1999	Compustion	1979	2010	Controls	n NO	Open	2016	∠016	143.2	0	\$0	2011	2026	Existing	\$31,998	4	\$175,993	\$0 Existing \$127,993		Existing	Existing
19 SC	SC 19-AA-0	0056	1 Ca	labasas LF	Local Govt	416	19	1961	2028	13,172,817	22,479,153	31,874,338	1990	Combustion	1961	2010	Controls	No	Open	2028	2028	144.1	0	\$0	2011	2026		401,998	*	\$175,993 \$127	\$127,993 \$127 \$0	\$127 \$0	\$127 \$0	\$127
										., .,																	Existing	\$10,142	4	\$88,568	Existing \$40,568	Existing	Existing	Existing
19 SC	SC 19-AA-0	0012	1 Sc	holl Canyon LF	Local Govt.	440	19	1961	2014	19,443,400	27,791,673	36,374,233	1990	Combustion	1960	2010	Controls	No	Open	2014	2014	149.8	0	\$0	2012	2027				\$127	\$127	\$127 \$0	\$0	\$0
																											Existing	\$10,727	4	610-	\$90,909	Existing \$42,909	\$42,909	\$42,909
30 SC	SC 30-AB-0	0019	1 Pri	ima Descha SLF	Local Govt.	699	13	1976	2067	12,035,917	21,893,121	36,376,606	1991	Combustion	1975	2010	Controls	No	Open	2067 :	2033	72.1	0	\$0	2012	2027	Existing			\$127	\$127	\$127 \$0 Existing	\$0	\$0
		-	-					-							-		-	1		-	_							\$17,042	4	\$127	\$116,166 \$127		\$68,166	\$68,166 \$127
19 SC	SC 19-AA-0	0853	1 Su	inshine Canyon Extension	Private	215	21	1996	2008	0	12,656,411	36,856,158	1992	Combustion	1997	2010	Controls	No	Closed	2010	2010	281.2	0	\$0	2012	2027						\$0		

																													1	Analysis Y	ear			·
CO AE	B DIS	CIWMB SWIS File Number	Count ^a	Facility/Site Name	Ownership Status	Waste	Average Rainfall (Inch/Yr)		Close Year	1990 WIP (Tons)	2006 WIP (Tons)	2020 WIP (Tons)	Year LFG Captu re	Updated Control Type (2009) [°]			Heat Rate Calc.	New Hardware?	2010	Gas Heat Cap.	Heat Calc.	Max. Gas Rate (MM BTU/HR)	Capital Cost of Control (lump sum)	Annualized Capital Cost ^c				Maintenance Mo (Cost/Test) Fre		2010	2011	2012 Existing	2013 Existing	2014 Existing
39 SJ	v sju	J 39-AA-0015	1	PORVATU EP (* Ausuit Ru EP	Private	354.5	15	1973	2020	1,973,144	15,264,704	37,950,388	1991	Combustion	1978	2010	Controls	RNo .	Open	2020	2020	66.9	0	\$0	2011	2026	Existing	\$5,242	4	\$127	\$68,967 \$0 Existing	\$20,967 \$0 Existing	\$20,967 \$0 Existing	\$0
19 SC	c sc	19-AR-0008	1	Bradley Ave East & West	Private	171	17	1959	2007	12,983,834	33,518,023	38,729,613	1990	Combustion	1960	2010	Controls	No	Closed	2010	2010	144.1	0	\$0	2012	2027	Existing	\$35,010	4	\$188,042 \$127	\$140,042 \$127		\$140,042 \$127 \$0 Existing	\$127 \$0
19 SC	c sc	19-AF-0001	1	DAA WEST COVIIIA (CIASS 1	Private	370	17	1962	1996	29,126,627	45,800,000	45,800,000	1990	Combustion	1963	2010	Controls	RNo .	Closed	2010	2010	162.7	0	\$0	2011	2026	Existing	\$4,169	4	\$127	\$64,676 \$0 Existing	\$16,676 \$0 Existing	\$16,676 \$0 Existing	\$16,676 \$0
37 SE	D SD	37-AA-0010	1	Otay SWLF	Private	230	11	1963	2021	7,065,578	21,650,229	50,092,469	1991	Combustion	1965	2010	Controls	PNo	Open	2021	2021	237.8	0	\$0	2011	2026	Existing	\$9,021	4	\$84,082 \$127	\$36,082 \$0	\$36,082 \$0	\$36,082 \$0	\$36,082 \$0
19 SC	c sc	19-AA-0052	1	Chiquita Canyon	Private	257	15	1972	2019	4,310,480	22,074,046	50,973,493	1995	Combustion	1975	2010	Controls	No	Open	2019	2019	147.4	0	\$0	2011	2026	Existing	\$22,715	4	\$138,859 \$127	Existing \$90,859 \$127 \$0 Existing	Existing \$90,859 \$127 \$0 Existing	Existing \$90,859 \$127 \$0 Existing	\$90,859 \$127 \$0
37 SE	D SD	37-AA-0020	1	Miramar SWLF	Military	470	11	1959	2011	6,156,512	27,951,838	52,513,559	1995	Combustion	1979	2010	Controls	RNo.	Open	2011	2011	156.6	0	\$0	2011	2026		\$6,266	4	\$73,063 \$127	\$25,063 \$127 \$0	\$25,063 \$127 \$0	\$25,063 \$127 \$0	\$25,063 \$127 \$0
33 SC	c sc	33-AA-0217	1	EI Sobrante SWLF	Private	495	13	1983	2030	1,619,035	19,711,183	59,173,030	1994	Combustion	1984	2010	Controls	f No	Open	2030	2030	173.9	0	\$0	2012	2027	Existing	\$46,417	4	\$233,669 \$127	Existing \$185,669 \$127	Existing \$185,669 \$0	\$0	\$185,669 \$0
1 SF	F BA	01-AA-0009	1	Altamont LF	Private	443	15	1980	2028	14,967,744	39,772,442	63,607,251	1990	Combustion	1979	2010	Controls	No	Open	2028	2028	141.3	0	\$0	2012	2027	Existing	\$12,068	4	\$127	\$96,272 \$127	Existing \$48,272 \$127 \$0	Existing \$48,272 \$127 \$0	\$48,272 \$127 \$0
30 SC	c sc	30-AB-0360	1	Frank R. Bowerman	Local Govt.	341	15	1989	2022	6,541,179	36,445,683	75,897,049	1993	Combustion	1988	2010	Controls	FNo	Open	2022	2022	195.2	0	\$0	2012	2027	Existing	\$43,751	4	\$127	\$223,003 \$127	Existing \$175,003 \$127 \$0 Existing	Existing \$175,003 \$127 \$0 Existing	\$175,003 \$127 \$0
30 SC	c sc	30-AB-0035	1	Olinda Alpha SLF	Local Govt.	420	15	1960	2013	14,557,799	45,305,372	86,102,427	1990	Combustion	1961	2010	Controls	l No	Open	2013	2013	319.9	0	\$0	2012	2027		\$8,314	4	\$127	\$81,254 \$127	\$33,254 \$127 \$0	\$33,254 \$127 \$0	\$33,254 \$127 \$0
19 SC	c sc	19-AA-0053	1	Puente Hills LF	Local Govt.	640	17	1957	2013	55,110,679	116,141,687	185,036,763	1990	Combustion	1956	2010	Controls	No	Open	2013	2013	970.5	0	\$0	2012	2027	Existing	\$10,240	4	\$127	\$88,958 \$127	Existing \$40,958 \$127 \$0	Existing \$40,958 \$127 \$0	\$40,958 \$0
						23,247														Dpen							Existing \$7,177,980		4 n. Tot.	\$127 \$6,387,065 \$			\$127 \$13,299,285	\$62,413 \$13,298,647
						Tot. # Acre	s												08 0	Closed								Capital Costs O&M Costs Monitoring Costs Reporting Costs Capital Costs		\$0 \$0 \$2,141,857 \$6,247 \$0	\$3,077,983 \$3,060	\$1,225,800 \$2,860,346 \$3,060	\$1,225,800 \$2,380,346 \$2,805	\$1,225,800 \$2,380,346
				146																								O&M Costs O&M Costs Monitoring Costs Reporting Costs Capital Costs		\$0 \$4,226,595	\$1,192,840 \$5,612,410	\$3,739,780 \$4,600,306	\$3,962,180 \$4,024,306	\$3,962,180
Affected		W Landfills (by	/ SWIS #		6 By Facility/	0.4				554 400 547	4 450 004 700	1,885,065,570											\$18,911,752					O&M Costs O&M Costs Monitoring Costs Reporting Costs		\$0 \$6,368,451	\$1,877,240 \$8,690,393 \$9,944	\$4,965,580 \$7,460,652 \$9,689	\$5,187,980 \$6,404,652 \$9,434	\$5,187,980 \$6,404,652 \$8,797
			149		Number of A		fills by Own	ership Ty		551,129,547	1,153,601,723	1,885,065,370						146			Elere (rec									\$0,307,003		\$14,043,183	\$13,299,203	413,236,047
					Private: Local Govt: State Govt:		94												13 1	lew Coll.	+ Cntl. Sy	stems nbustion C	open flares an Control	d i carbon ad	sorption uni									
					Fed. Govt: Tribal Govt.: Military: All Govt:		0	97																			Landfills w/o C (private & gov			02	\$771 271	\$1 575 767	\$1 663 718	\$1,663,718
a Some for	cilities o	ire composed of	more the	at one SWIS # and were evalu		e facility for		Total:	146																			O&M Costs O&M Costs Monitoring Costs Reporting Costs Total:		\$0 \$404,811 \$1,657	\$1,877,240 \$671,744	\$3,869,580 \$402,311 \$1,147	\$4,091,980 \$354,311 \$1,147	\$4,091,980 \$354,311 \$765
^b Open Ye ^c Using a (^d Entry in I	ar in Bo Capital F Bold de	old Indicates AF	RB Estima r of 0.096 informatio	ate i3, for n = 15 years, I = 5%	nnou ao d Singi			ornory affi		ayaa purpusets.																	Landfills w/ Co (private & gov	ontrols:		\$406,468	\$3,321,503	\$5,848,806	\$6,111,157	
																												O&M Costs O&M Costs Monitoring Costs Reporting Costs Total:		\$0 \$5,963,641 \$16,956 \$5,980,597	\$0 \$8,018,649 \$8,797	\$1,096,000 \$7,058,341 \$8,542	\$1,096,000 \$6,050,341 \$8,287	\$1,096,000 \$6,050,341 \$8,032
																														\$6,387,065				

																			Capital Co	osts				Annual C	peration &	Maintenar	nce Costs
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Subtotal	Private			Fed Govt. Tribal Govt. Militar	y Subtotal	Private	Local Govt.	State Govt.
\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802		\$193,000	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802	\$193,000 \$15,802		\$1,128,155		\$1,128,155			\$4,439,00	0	\$4,439,000)
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0				s	0 \$0	1							
\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233 \$0	\$29,233	\$29,233	\$29,233	\$29,233	\$29,233	\$29,233	\$0	\$0							
Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641	Existing \$12,641						ş	0 \$0		
\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	\$0 Existing \$16,197	Existing \$16,197	Existing \$16,197	Existing \$16,197	Existing \$16,197	Existing \$16,197	Existing \$16,197	\$0		\$C			s	0	\$0)
\$0 Existing	\$0 Existing	\$0	\$0	\$0	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				0	\$0							
\$14,221 \$93,411	\$14,221	\$14,221			\$14,221	\$14,221 \$93,411	\$14,221 \$93,411	\$14,221 \$93,411	\$14,221 \$93,411	\$14,221 \$93,411	\$14,221 \$93,411	\$14,221	\$14,221	\$14,221	\$14,221	\$14,221	\$14,221		\$1,401,165		\$1,401,165						
\$235,000 \$19,752 \$127	\$235,000 \$19,752 \$127	\$235,000 \$19,752 \$127	\$235,000	\$235,000 \$19,752	\$235,000 \$19,752 \$127	\$235,000 \$19,752 \$127	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752	\$235,000 \$19,752		\$1,401,100		\$1,401,103			\$5,170,00	0	\$5,170,000)
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			S	0	\$0)
\$30,813 \$127 \$0	\$30,813 \$127 \$0	\$30,813 \$127 \$0	\$127 \$0	\$127 \$0	\$30,813 \$127 \$0	\$30,813 \$127	\$30,813 \$127	\$30,813 \$127	\$30,813 \$127	\$30,813 \$127	\$127	\$127	\$0	\$0													
Existing \$26,073	Existing \$26,073		\$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073		Existing \$26,073	Existing \$26,073		Existing \$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073	Existing \$26,073						\$	0 \$0		
\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606		\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	\$0 Existing \$18,606	Existing \$18,606	Existing \$18,606	Existing \$18,606	Existing \$18,606	Existing \$18,606	Existing \$18,606	Existing \$18,606	\$0	\$0				s	0 \$0		
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			s	0	\$0)
\$26,468 \$106,151	\$26,468 \$106,151	\$26,468 \$106,151			\$26,468 \$106,151	\$26,468 \$106,151	\$26,468 \$106,151	\$26,468 \$106,151	\$26,468 \$106,151	\$26,468 \$106,151	\$26,468	\$26,468	\$26,468	\$26,468	\$26,468	\$26,468	\$26,468	\$26,468	\$1,592,272		\$1,592,272						
\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127			\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$264,400 \$22,517 \$127	\$22,517						\$6,081,20	0	\$6,081,200							
\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35,040	\$163,848 \$397,540 \$35.040	\$397,540 \$35,040	\$397,540 \$35.040	\$397,540 \$35.040	\$397,540 \$35,040	\$397,540 \$35,040	\$397,540 \$35,040	\$397,540	\$2,457,716				\$2,457,	716 \$8,745,88	0		
\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0	\$127 \$0 Existing	\$127 \$0 Existing	\$127 Existing	\$127 Existing	\$127 Existing	\$127 Existing	\$127 Existing	\$127 Existing	\$0		\$0				0	\$0							
\$15,012 \$0	\$15,012	\$15,012 \$0	\$15,012	\$15,012	\$15,012	\$15,012 \$0	\$15,012 \$0	\$15,012 \$0	\$15,012 \$0	\$15,012 \$0	\$15,012	\$15,012	\$15,012	\$15,012	\$15,012	\$15,012	\$15,012		\$0		SO						
Existing \$8,612 \$127	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing \$8,612	Existing \$8,612						\$	0	\$0)						
\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$82,491 \$209,800 \$17,382	\$209,800 \$17,382	\$209,800 \$17,382	\$209,800 \$17,382	\$209,800 \$17,382	\$209,800 \$17,382			\$1,237,359	\$1,237,359				\$4,615,60	0 \$4,615,600		
\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$127 \$0 Existing	\$17,302 \$127 \$0 Existing		\$127 \$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$17,362 \$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0						
\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127	\$33,578 \$127									30	
\$0 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	Existing \$12,246	50 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	\$0 Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	Existing \$12,246	\$0		\$0			S	0	\$0	
\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$	0	\$0)
\$31,208	\$31,208	\$31,208	\$31,208	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208 \$0	\$31,208	\$31,208	\$31,208	\$31,208	\$31,208	\$31,208	\$31,208	\$0		\$0	•					
Existing \$18,172	\$18,172	\$18,172	\$18,172	\$18,172		Existing \$18,172	\$18,172	\$18,172				Existing \$18,172	Existing \$18,172	Existing \$18,172										\$		\$0	
\$0 Existing \$4,291				Existing	\$0 Existing \$4,291	Existing \$4,291	Existing \$4,291	Existing \$4,291	Existing \$4,291	Existing \$4,291	Existing \$4,291		\$0		\$0			S	0	\$0							
\$0 Existing		Existing	Existing			\$0 Existing	\$0 Existing		\$0 Existing		\$0 Existing	Existing	Existing	Existing	Existing				\$0		\$0			s	0	\$0	
\$49,775 \$0	\$0	\$0	\$0	\$0	\$49,775 \$0	\$49,775 \$0	\$0	\$49,775 \$0	\$49,775 \$0	\$49,775 \$0	\$49,775 \$0	\$49,775	\$49,775	\$49,775	\$49,775				\$0		\$0						
Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752	Existing \$19,752 \$127	Existing \$19,752 \$127		Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752 \$127	Existing \$19,752	Existing \$19,752	Existing \$19,752							S	0	\$0	
\$66,110 \$172,000 \$13,826	\$66,110	\$66,110	\$66,110 \$172,000	\$66,110 \$172,000	\$66,110	\$66,110 \$172,000 \$13,826	\$66,110 \$172,000	\$66,110	\$66,110 \$172,000 \$13,826	\$66,110	\$66,110 \$172,000		\$172,000 \$13,826		\$172,000 \$13,826	\$172,000 \$13,826		\$172,000 \$13,826	\$991,649		\$991,649			\$3,784,00	0	\$3,784,000	
\$127 \$0 Existing	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0 Existing	\$127 \$0	\$127 \$0	\$127 \$0 Existing	\$127 \$0	\$127 \$0	\$127 Existing	Existing	Existing	Existing				\$0	\$0				•	0 \$0		
\$11,456 \$0	\$11,456 \$0	\$11,456			\$11,456	\$11,456 \$0		\$11,456 \$0	\$11,456 \$0	\$11,456 \$0	\$11,456 \$0	\$11,456 \$0	\$11,456	\$11,456	\$11,456	\$11,456			\$0	¢∩							
So Existing \$6,046		Existing	Existing	Existing	Existing \$6,046	\$0 Existing \$6,046			Existing \$6,046	Existing	Existing \$6,046	Existing \$6,046	Existing \$6,046	Existing \$6,046	Existing \$6,046					30				\$	0 \$0		
\$0 Existing						\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing				\$0			ş	0	\$0)
\$45,430 \$0	\$45,430					\$45,430 \$0			\$45,430 \$0				\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$0		\$0						

																		1	Capital Co	osts					Annual O	peration &	Maintenance Costs
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Subtotal	Private	Local Govt. State Govt.	Fed Govt.	Tribal Govt.	Military	Subtotal	Private	Local Govt. State Govt.
Existing \$22,912				Existing \$22,912				Existing \$22,912	Existing \$22,912	Existing \$22,912			Existing \$22,912	Existing \$22,912	Existing \$22,912			Existing \$22,912							\$0		\$0
\$0	\$0		\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0								\$0		\$0	-					
Existing \$9,876	Existing \$9,876	Existing	Existing	Existing	Existing	Existing	Existing	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876	Existing \$9,876							\$0		\$0
\$0	\$0,510		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	40,010		40,010				10,010	\$0		\$0						
Existing \$59,256		Existing	Existing	Existing	Existing	Existing	Existing	Existing \$59,256	Existing \$59,256	Existing \$59,256			Existing \$59,256	Existing \$59,256	Existing \$59,256	Existing \$59,256	Existing \$59,256	Existing \$59,256							\$0		\$0
\$0	\$00,200		\$00,200					\$00,200	\$00,200	\$00,200	\$0	\$00,200	\$00,200	\$00,200	\$00,200	\$00,200	400,200	\$00,200	\$0		\$0						
Existing \$38,319	Existing \$38,319	Existing	Existing	\$0 Existing \$38,319	Existing		Existing	Existing \$38,319	Existing \$38,319	Existing \$38,319	Existing	Existing \$38,319							\$0		\$0						
\$30,513	\$50,513		\$00,519	\$00,013		\$00,513	\$00,513	\$30,313	\$00,513	\$30,513	\$30,313	430,313	\$30,313	400,013	\$30,513	\$30,313	\$30,313	400,010	\$0		\$0						
Existing \$4,778	Existing \$4,778	Existing	Existing	Existing	Existing	Existing	Existing	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778	Existing \$4,778		Existing \$4,778	30						\$0		\$0
\$127	\$127	\$127		\$127		\$127 \$0	\$127	\$127	\$127 \$0	\$127 \$0	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$0		80						
Existing \$13,273	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing \$13,273	Existing \$13,273	Existing \$13,273	Existing	Existing \$13,273	\$ 0						\$0		\$0						
\$13,273	\$13,273		\$13,273 \$127 \$27,406	\$127	\$127	\$127	\$127	\$13,273 \$127 \$27,406	\$13,273	\$27,406	\$13,273	\$27,406	\$13,273	\$13,273	\$27,406		\$27,406	\$13,273	\$411,090		\$411,090						
		600.044	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$159,400	\$411,090		3411,030				\$2,550,400		\$2,550,400
		\$60,641		\$12,641		\$12,641		\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$12,641	\$0		60						
\$0 Existing \$15,407	\$0 Existing \$15,407	Existing		Existing		\$0 Existing	Existing	SU Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0						\$0		\$0
\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$15,407 \$127 \$75,210	\$15,407 \$127 \$75,210	\$15,407 \$127 \$75,210	\$15,407 \$127	\$15,407 \$127	\$15,407 \$127	\$15,407 \$127	\$15,407 \$127		\$15,407 \$127		\$1 100 455		\$1 129 155						
\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$75,210 \$193,000 \$15,802	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000		\$193,000	\$193,000	\$1,128,155		\$1,128,155				\$4,439,000		\$4,439,000
\$15,802								\$15,802	\$15,802	\$15,802 \$0		\$15,802	\$15,802	\$15,802	\$15,802	\$15,802	\$15,802	\$15,802	\$0								
Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing		\$0 Existing	Existing	SU Existing	SU Existing	Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing		Existing	Existing	\$0						\$0	\$0	
\$16,987	\$16,987							\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987	\$16,987			**						
\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				\$0		\$0
\$31,603 \$127	\$31,603 \$127	\$127	\$127	\$127	\$127	\$31,603 \$127	\$127	\$31,603 \$127	\$31,603 \$127	\$31,603 \$127	\$127	\$31,603 \$127	\$31,603 \$127	\$31,603 \$127	\$31,603 \$127		\$31,603 \$127	\$31,603 \$127									
\$0 Existing	\$0 Existing	Existing	Existing	\$0 Existing	Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0		\$0				\$0		\$0						
\$36,344	1.5.575							\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344	\$36,344									
\$0 Existing	\$0 Existing	Existing	\$0 Existing			\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0					\$0	\$0	
\$14,320 \$127	\$14,320 \$127	\$127	\$127	\$14,320 \$127	\$127	\$14,320 \$127	\$127	\$14,320 \$127	\$14,320 \$127	\$14,320 \$127	\$14,320 \$127	\$14,320	\$14,320	\$14,320	\$14,320	\$14,320	\$14,320	\$14,320									
\$78,850 \$201,400		\$201,400	\$201,400	\$201,400	\$201,400	\$78,850 \$201,400	\$201,400	\$78,850 \$201,400	\$78,850 \$201,400	\$78,850 \$201,400	\$201,400	\$201,400	\$201,400	\$201,400	\$201,400		\$201,400	\$201,400	\$1,182,757		\$1,182,757				\$4,430,800		\$4,430,800
\$16,592	\$16,592			\$16,592		\$16,592		\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592	\$16,592									
\$0 Existing	\$0 Existing	Existing			Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				\$0		\$0
\$11,702	\$11,702		\$11,702			\$11,702		\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702	\$11,702									
\$0 Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0		\$0				\$0		\$0						
\$26,073 \$127	\$26,073 \$127	\$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073 \$127	\$26,073	\$26,073									
\$0 Existing	\$0 Existing	Existing		Existing	Existing	\$0 Existing	Existing		\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				\$0		\$0
\$7,314	\$7,314		\$7,314		\$7,314			\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314	\$7,314									
\$0 Existing		Existing		\$0 Existing		\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0					\$0	\$0	
\$13,036	\$13,036				\$13,036	\$13,036		\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036	\$13,036									
\$0 Existing	\$0 Existing	Existing		\$0 Existing		\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing		Existing	Existing	\$0		\$0				\$0		\$0
\$38,319				\$38,319		\$38,319		\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319	\$38,319									
\$0 Existing	Existing	Existing					Existing	\$0 Existing	\$0 Existing	\$0 Existing			Existing	Existing	Existing		Existing	Existing	\$0		\$0				\$0		\$0
\$5,851								\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851	\$5,851									
\$0 Existing		Existing					Existing		\$0 Existing	\$0 Existing				Existing	Existing			Existing	\$0	\$0					\$0	\$0	
\$35,949						\$35,949		\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949	\$35,949									
\$0 Existing		Existing	Existing	\$0 Existing	Existing		Existing		\$0 Existing	\$0 Existing				Existing	Existing		Existing	Existing	\$0		\$0				\$0		\$0
\$10,337 \$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$10,337 \$127	\$10,337 \$127	\$10,337 \$127	\$127	\$127	\$10,337 \$127	\$10,337 \$127	\$10,337 \$127		\$10,337	\$10,337	-								
\$0 Existing	\$0 Existing	Existing	Existing		Existing		Existing		\$0 Existing	\$0 Existing				Existing	Existing				\$0		\$0				\$0		\$0
\$28,048								\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048	\$28,048									
\$0 Existing	Existing	Existing		Existing	Existing		Existing		\$0 Existing	\$0 Existing			Existing	Existing	Existing		Existing	Existing	\$0		\$0				\$0		\$0
\$22,715 \$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$22,715 \$127	\$22,715 \$127	\$22,715 \$127	\$127	\$22,715 \$127															
\$0 Existing	Existing	Existing	Existing	Existing	Existing		Existing	\$0 Existing	\$0 Existing	\$0 Existing		Existing		Existing	Existing		Existing	Existing	\$0	\$0					\$0	\$0	
\$18,172								\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172	\$18,172									
\$0 Existing		Existing			Existing				\$0 Existing	\$0 Existing			Existing	Existing	Existing			Existing	\$0		\$0				\$0		\$0
\$17,382 \$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$17,382 \$127	\$17,382 \$127	\$17,382			\$17,382	\$17,382	\$17,382	\$17,382	\$17,382	\$17,382				1					
\$87,951 \$222,400	\$222,400	\$222,400	\$222,400	\$222,400	\$222,400	\$222,400	\$222,400		\$87,951 \$222,400	\$87,951 \$222,400	\$222,400								\$1,319,262		\$1,319,262				\$4,670,400		\$4,670,400
\$18,567								\$18,567	\$18,567	\$18,567				\$18,567	\$18,567	\$18,567	\$18,567	\$18,567									
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0							\$0		\$0						

																			Capital Co	osts				Annual O	peration &	Maintenance Costs
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Subtotal		Local Govt. State Govt.	Fed Govt.	Tribal Govt.	Subtotal		Local Govt. State Govt.
Existing \$47,405				Existing \$47,405				Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405		Existing \$47,405	Existing \$47,405	Existing \$47,405									 \$0		\$0
\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing			\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$0		\$0
\$9,752								\$9,752	\$9,752	\$9,752	\$9,752		\$9,752	\$9,752	\$9,752									 \$ 0		
\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			 \$0		\$0
\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924	\$6,924								
\$0 Existing		Existing	\$0 Existing	\$0 Existing	Existing		Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing		Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$0		\$0
\$57,676	\$57,676	\$57,676	\$57,676 \$27,406	\$57,676			\$57,676 \$27,406	\$57,676 \$27,406	\$57,676 \$27,406	\$57,676 \$27,406	\$57,676 \$27,406		\$57,676 \$27,406	\$57,676 \$27,406	\$57,676 \$27,406			\$57,676	\$411,090		\$411,090					
		\$104,491	\$625,600	\$625,600 \$56,491	\$625,600	\$625,600	\$625,600	\$625,600 \$56,491	\$625,600 \$56,491	\$625,600 \$56,491	\$625,600 \$56,491	\$625,600	\$625,600 \$56,491	\$625,600 \$56,491	\$625,600 \$56,491	\$625,600	\$625,600	\$625,600 \$56,491	Q#11,030					\$10,009,600		\$10,009,600
\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0								\$0		\$0					
Existing \$60,441	\$60,441	\$60,441	Existing \$60,441	Existing \$60,441	\$60,441		\$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441	Existing \$60,441						\$0		\$0
\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0				 \$0	\$0	
\$29,628				\$29,628			\$29,628		\$29,628		\$29,628			\$29,628	\$29,628			\$29,628						 		
\$0 Existing		Existing		\$0 Existing	Existing			\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing		Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$0		\$0
\$9,264								\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	\$9,264	6 0							
\$0 Existing \$47,405	SC Existing \$47,405	Existing	\$0 Existing \$47,405	\$0 Existing \$47,405	Existing	\$0 Existing \$47,405	\$0 Existing \$47,405	Existing \$47,405	Existing \$47,405	50 Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	Existing \$47,405	\$0		20			\$0		\$0
\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0			•				•	\$0		\$0					
Existing \$51,355			Existing \$51,355	Existing \$51,355		Existing \$51,355		Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355	Existing \$51,355						\$0		\$0
\$0 Existing	\$0 Existing		\$0 Eviating	\$0 Evicting		\$0 Evicting	\$0 Existing	\$0 Existing	\$0 Eviating	\$0 Existing	\$0 Existing	\$0 Existing	Evicting	Existing	Existing	Eviating	Existing	Existing	\$0		\$0			¢0,		<u></u>
\$47,405			Existing \$47,405	Existing \$47,405	Existing \$47,405			\$47,405	Existing \$47,405	\$47,405	\$47,405		Existing \$47,405	\$47,405	\$47,405	Existing \$47,405								\$0		\$0
\$226,640 \$542,440				\$226,640 \$542,440				\$226,640 \$542,440	\$226,640 \$542,440	\$226,640 \$542,440	\$542,440			\$542,440	\$542,440	\$542,440	\$542,440		\$3,399,602		\$3,399,602			\$12,476,120		\$12,476,120
\$48,669 \$127	\$127	\$127	\$48,669 \$127	\$48,669 \$127	\$127	\$48,669		\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669	\$48,669								
\$184,415 \$445,000 \$20,504	\$445,000	\$445,000	\$445,000	\$184,415 \$445,000 \$39,504	\$445,000	\$445,000	\$445,000	\$184,415 \$445,000	\$184,415 \$445,000	\$184,415 \$445,000	\$184,415 \$445,000		\$445,000	\$445,000	\$445,000 \$39,504			\$445,000 \$39,504	\$2,766,218		\$2,766,218			\$9,790,000		\$9,790,000
\$39,504	\$39,30		\$39,504	\$39,504		\$39,504		\$39,504 \$0	\$39,504 \$0	\$39,504	\$39,504	\$39,504	\$39,504	\$39,504	\$39,304	\$39,504	\$39,304	\$39,304	\$0	\$0						
Existing \$65,182	Existing	Existing	Existing \$65,182	Existing \$65,182	Existing	Existing	Existing	Existing \$65,182	Existing \$65,182	Existing \$65,182	Existing \$65,182	Existing \$65,182	Existing \$65,182	Existing \$65,182	Existing \$65,182		Existing \$65,182	Existing \$65,182						\$0	\$0	
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Existing \$57,281	Existing \$57,281		Existing \$57,281	Existing \$57,281			Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281	Existing \$57,281						\$0		\$0
\$135,273 \$331,600			\$135,273 \$331,600	\$135,273 \$331,600				\$135,273 \$331,600	\$135,273 \$331,600	\$135,273 \$331,600	\$135,273 \$331,600	\$331,600	\$331,600	\$331,600	\$331,600	\$331,600	\$331,600	\$331,600	\$2,029,089	\$2,029,089				\$7,295,200	\$7,295,200	
\$28,838			\$28,838	\$28,838		\$28,838		\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838	\$28,838						 		
\$0 Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing	Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$0		\$0
\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$127	\$30,418 \$127 \$0	\$30,418 \$127 \$0		\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$30,418 \$127 \$0	\$30,418 \$127	\$30,418 \$127	\$30,418 \$127	\$30,418 \$127	\$30,418 \$127	\$30,418 \$127	\$30,418 \$127	\$0		\$0					
Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	\$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575	Existing \$97,575						\$0		\$0
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Existing \$76,638			Existing \$76,638	Existing \$76,638				Existing \$76,638	Existing \$76,638	Existing \$76,638	Existing \$76,638	Existing \$76,638	Existing \$76,638	Existing \$76,638	Existing \$76,638		Existing \$76,638	Existing \$76,638						\$0		\$0
\$0 Existing			\$0 Existing	\$0 Existing		\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0			\$0		\$0
\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127	\$73,082 \$127				\$73,082 \$127	\$73,082 \$127	\$73,082	\$73,082	\$73,082 \$127								
\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing		\$0 Existing			Existing		Existing	Existing				\$0		\$0			\$0		\$0
\$85,329 \$127 \$0	\$127	\$127	\$85,329 \$127 \$0	\$85,329 \$127 \$0		\$85,329 \$0		\$85,329 \$0	\$85,329 \$0	\$85,329 \$0	\$85,329	\$85,329	\$85,329	\$85,329	\$85,329	\$85,329	\$85,329	\$85,329	\$0		\$0					
Existing \$96,785	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing \$96,785	Existing \$96,785	Existing \$96,785				Existing \$96,785	Existing \$96,785		Existing \$96,785		<i>40</i>					 \$0		\$0
\$127 \$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0									\$0		\$0			 		
Existing \$24,097 \$127	\$24,097	\$24,097	\$24,097	\$24,097	\$24,097	\$24,097	\$24,097		Existing \$24,097					Existing \$24,097	Existing \$24,097									 \$0		\$0
\$127 \$0 Existing	\$0	\$0	\$0	\$127 \$0 Existing	\$0	\$0	\$0	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0				\$0	\$0	
\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987 \$127	\$16,987	\$16,987	\$16,987			\$16,987	\$16,987											
\$0 Existing	Existing	Existing			Existing	Existing	Existing		\$0 Existing	\$0 Existing	\$0 Existing			Existing	Existing			Existing	\$0		\$0			\$0		\$0
\$53,330 \$127 \$0		\$127	\$53,330 \$127 \$0	\$53,330 \$127 \$0	\$127		\$127	\$53,330 \$127 \$0	\$53,330 \$127 \$0	\$53,330 \$127 \$0	\$53,330 \$127 \$0	\$53,330 \$127	\$53,330	\$53,330	\$53,330	\$53,330	\$53,330	\$53,330	\$0		\$0			 		
Existing \$42,269	Existing	Existing	Existing		Existing	Existing	Existing	Existing	Existing \$42,269	Existing	Existing			Existing \$42,269	Existing \$42,269									\$0		\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0									\$0		\$0					
Existing \$55,306 \$127	\$55,306	\$55,306	\$55,306	\$55,306	\$55,306	\$55,306	\$55,306	\$55,306	Existing \$55,306	\$55,306		\$55,306	\$55,306	Existing \$55,306	Existing \$55,306	\$55,306	\$55,306							\$0		\$0
\$127	\$127	\$127	\$127 \$35,671	\$127 \$35,671				\$127 \$35,671	\$127 \$35,671	\$127 \$35,671	\$127 \$35,671		\$127 \$35,671	\$127 \$35,671	\$127 \$35,671				\$535,070	\$535,070						

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Subtotal Private Local Govt. State Govt. Tribal Govt. 50 5070.000 \$370.000 <	Military Subtotal \$15,520,00			
bit bit<	\$15,520,00			Local Govt. State Govt.
S0 S0<		,000 \$15,	\$15,520,000	
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2505/105 220	\$15,741,20	,200 \$15,	\$15,741,200	
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																		1	Capital Co	osts					Annual O	peration &	Maintena	nce Costs
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Subtotal	Private	Local Govt. State Govt.	Fed Govt.	Tribal Govt	Military	Subtotal	Private	Local Govt.	State Govt.
Existing \$90,464	Existing \$90,464		Existing	Existing	Existing \$90,464	Existing \$90,464	Existing \$90,464		Existing \$90,464	Existing \$90,464	Existing \$90,464	Existing \$90,464	Existing \$90,464	Existing \$90,464		Existing \$90,464	Existing	Existing \$90,464							\$0		\$0	
\$127 \$0	\$127 \$0		\$0	\$0	\$127 \$0	\$127 \$0		\$127 \$0	\$127 \$0	\$127 \$0	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$0		\$0							
Existing \$14,101	Existing \$14,101	\$14,101	\$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101		Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101	Existing \$14,101							\$0		\$0	
\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$127 \$0 Existing	\$0	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0	<u> </u>			\$0		\$0	
\$67,947 \$127	\$67,947 \$127	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947		\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947	\$67,947										
\$0 Existing	\$0 Existing			Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0					\$0	\$0		
\$45,430	\$45,430	\$45,430	\$45,430	\$45,430 \$0	\$45,430	\$45,430 \$0	\$45,430 \$0	\$45,430	\$45,430	\$45,430 \$0	\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$45,430	\$0	\$0								
Existing \$77,033	Existing	Existing	Existing	Existing		Existing \$77,033	Existing	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033	Existing \$77,033		Existing \$77,033							\$0	\$0		
\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0 Existing	\$127 \$0	\$127 Existing	\$127	\$127	\$127 Existing	\$127 Eviation	\$127 Existing	\$127 Existing	\$0	\$0) 							
\$63,206	\$63,206	Existing \$63,206			\$63,206	Existing \$63,206	Existing \$63,206	Existing \$63,206	Existing \$63,206	\$63,206	Existing \$63,206	\$63,206	Existing \$63,206	Existing \$63,206		Existing \$63,206	\$63,206	\$63,206							30	30		
\$0 Existing	\$0 Existing				\$0 Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0		\$0				\$0		\$0							
\$8,777	\$8,777				\$8,777 \$0	\$8,777	\$8,777	\$8,777 \$0	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$8,777	\$0		\$0							
Existing \$142,609	\$0 Existing \$142,609	Existing		Existing	Existing	\$0 Existing \$142,609	Existing	Existing	\$0 Existing \$142,609	\$0 Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	Existing \$142,609	\$0		50				\$0		\$0	
\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127	\$127	\$127	\$127			\$0		\$0							
Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871	Existing \$16,871							\$0			\$0
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0		\$0				\$0		\$0							
\$16,188	\$16,188	\$16,188	\$16,188	\$16,188		\$16,188		\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188	\$16,188										
\$0 Existing \$14.628	\$0 Existing \$14.628			\$0 Existing \$14.628	\$0 Existing \$14.628	\$0 Existing \$14.628	\$0 Existing \$14.628	\$0 Existing \$14,628	\$0 Existing \$14.628	\$0 Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	Existing \$14.628	\$0		\$0				\$0		\$0	
\$127	\$127				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,020	\$14,020	\$14,020	¢14,020	\$14,020	¢14,020	\$14,020	\$0	\$0))	-						
Existing \$87,699	Existing \$87,699	\$87,699		Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699	Existing \$87,699							\$0	\$0		
\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0)				\$0	\$0		
\$18,529	\$18,529				\$18,529	\$18,529			\$18,529	\$18,529	\$18,529	\$18,529	\$18,529	\$18,529	\$18,529	\$18,529		\$18,529										
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0					\$0	\$0		
\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$127		\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127 \$0	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$96,390 \$127	\$0		\$0							
Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing	Existing	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378	Existing \$28,378							\$0		\$0	
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0) 				\$0			
\$75,058 \$127	\$75,058 \$127	\$75,058		\$75,058	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127	\$75,058 \$127										
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				\$0		\$0	
\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127	\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127	\$39,788 \$127 \$0	\$39,788 \$127 \$0	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$39,788 \$127	\$0		02							
Existing \$36,570	Existing \$36,570	Existing	Existing	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570	Existing \$36,570							\$0		\$0	
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0							\$0	\$0)							
Existing \$31,694	Existing \$31,694			Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694	Existing \$31,694							\$0	\$0		
\$0 Existing		Existing			\$0 Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing		Existing	Existing	Existing	\$0	\$0					\$0	\$0		
\$73,323 \$127 \$0	\$73,323 \$127 \$0	\$127	\$127	\$127		\$73,323 \$127 \$0	\$73,323 \$127 \$0		\$73,323 \$0	\$73,323 \$0	\$73,323	\$73,323	\$73,323	\$73,323	\$73,323	\$73,323	\$73,323	\$73,323	\$0	\$0								
Existing \$123,727	Existing	Existing	Existing	Existing	Existing	Existing \$123,727	Existing	Existing	Existing		Existing \$123,727	Existing \$123,727	Existing \$123,727	Existing \$123,727	Existing \$123,727	Existing \$123,727		Existing \$123,727	\$0						\$0	\$0		
\$127 \$0	\$127 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0								
Existing \$75,453 \$127			\$75,453	\$75,453		Existing \$75,453 \$127			Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453	Existing \$75,453							\$0	\$0		
\$127 \$0 Existing	\$0	\$0	\$0	\$0	\$0 Existing	\$127 \$0 Existing	\$0 Existing	\$0	\$0 Existing	\$0 Existing	Existing	Existing	Existing			Existing	Existing	Existing	\$0		\$0				\$0		\$0	
\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127	\$263,492 \$127				\$263,492 \$127		\$263,492 \$127										
\$0 Existing \$127.993	\$0 Existing \$127.993	Existing	Existing	Existing	\$0 Existing \$127,993	\$0 Existing \$127,993		\$0 Existing \$127,993	\$0 Existing \$127,993		Existing \$127,993	Existing \$127,993	Existing \$127,993	Existing \$127.993	Existing \$127,993	Existing \$127,993	Existing \$127,993	Existing \$127.993	\$0	\$0					\$0	\$0		
\$127 \$0	\$127 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0									\$0		\$0							
Existing \$40,568	\$40,568	\$40,568	\$40,568	\$40,568	\$40,568	Existing \$40,568	\$40,568	\$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568	Existing \$40,568							\$0		\$0	
\$127 \$0 Existing	\$127 \$0 Existing	\$0	\$0	\$0	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 \$0 Existing	\$127 Existing	\$127 Existing	Existing	Existing	Existing	Existing	Existing	\$0		\$0				\$0		\$0	
\$42,909	\$42,909	\$42,909	\$42,909	\$42,909		\$42,909	\$42,909		\$42,909	\$42,909	\$42,909	\$42,909	\$42,909					\$42,909										
\$0 Existing \$68,166	\$0 Existing \$68.166			Existing	\$0 Existing \$68,166	\$0 Existing \$68.166	\$0 Existing \$68.166	\$0 Existing \$68.166	\$0 Existing \$68,166	\$0 Existing \$68,166	\$0 Existing \$68.166	Existing \$68.166	Existing \$68.166	Existing \$68,166	Existing \$68,166	Existing \$68.166	Existing \$68,166	Existing \$68.166	\$0		\$0				\$0		\$0	
\$127	\$127	\$127	\$127	\$127	\$00,100 \$127 \$0	\$127 \$127	\$127	\$127	\$127	\$08,108 \$127 \$0	\$00,100 \$127 \$0	\$127	\$127	\$127	\$127	\$127		\$127	\$0	\$0								

																			Capital Co	osts						Annual O	peration & Maintenance Costs
2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Subtotal	Private	Local Govt	State Govt.	Fed Govt.	Tribal Govt	Military	Subtotal	Private Local Govt. State Govt.
Existing \$20,967	Existing \$20,967	Existing \$20,967	Existing	Existing	Existing	Existing \$20,967	Existing		Existing \$20,967	Existing \$20,967		Existing \$20,967	Existing		Existing \$20,967		Existing \$20,967	Existing \$20,967								\$0	\$0
					\$20,907				\$20,907		\$20,907	\$20,907	\$20,967	\$20,907	\$20,907	\$20,907	\$20,907	320,907									
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing		Existing	Existing	Existing	Existing	Existing	\$0	\$0						\$0	\$0
\$140,042 \$127	\$140,042 \$127	\$140,042 \$127	\$140,042 \$127	\$140,042 \$127	\$140,042 \$127	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042	\$140,042									
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Faladaa	Frinting	E. dette e	Existin a	Existin a	Friedran	E de tie e	\$0	\$0							
Existing \$16,676	Existing \$16,676	Existing \$16,676	Existing \$16,676			Existing \$16,676		Existing \$16,676	Existing \$16,676	Existing \$16,676	Existing \$16,676	Existing \$16,676		Existing \$16,676	Existing \$16,676	Existing \$16,676	Existing \$16,676	Existing \$16,676								50	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	ŝn	\$0	\$0	\$0									\$0	\$0		+					
Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing								\$0	\$0
\$36,082	\$36,082	\$36,082		\$36,082		\$36,082			\$36,082		\$36,082	\$36,082	\$36,082	\$36,082	\$36,082	\$36,082	\$36,082	\$36,082									
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0						\$0	\$0
\$90,859 \$127	\$90,859 \$127	\$90,859 \$127	\$90,859 \$127	\$90,859	\$90,859 \$127	\$90,859 \$127	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859	\$90,859									
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0							0.2
\$25,063	\$25,063	\$25,063	\$25,063	\$25,063		\$25,063		\$25,063	\$25,063	\$25,063	\$25,063	\$25,063		\$25,063	\$25,063	\$25,063	\$25,063	\$25,063								50	
\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$0	\$0	\$0	\$0	\$0	\$0									\$0						\$0	0	
Existing \$185.669	Existing	Existing	Existing		Existing	Existing		Existing \$185,669	Existing		Existing \$185,669	Existing			Existing \$185,669	Existing \$185,669	Existing \$185,669	Existing \$185,669								\$0	
\$185,669	\$185,669	\$185,669	\$185,669			\$185,669			\$185,669	\$185,669	\$100,009	\$185,669	\$100,009	\$185,669	\$165,009	a 100,009	\$100,009	\$100,009									
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	\$0	\$0						\$0	\$0
\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272	\$48,272	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272 \$127	\$48,272	\$48,272	\$48,272									
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					Folgelog	Evintin e	Frietlan	\$0	\$0							
Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	\$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003		Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003	Existing \$175,003								şı	\$0
\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0		\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127 \$0	\$127	\$127						\$0		\$C						
Existing \$33,254	Existing \$33,254	Existing \$33,254	Existing \$33,254		Existing \$33,254	Existing \$33,254	Existing \$33,254	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing \$33,254	Existing \$33,254								\$0	\$0
\$127	\$127	\$127	\$127	\$127	\$127	\$127	\$127		\$33,254		\$33,254	\$33,254	\$33,254	\$33,254	\$33,254	\$33,254	\$33,204	\$33,204									
\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing		\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	\$0 Existing	Existing		Existing	Existing	Existing	Existing	Existing	\$0		\$0					\$0	\$0
\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958	\$40,958									
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0								\$0		\$0	þ					
Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413			Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413		Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413	Existing \$62,413								\$0	\$0
\$13,298,520	\$13,298,392	\$13,667,650	\$15,589,506	\$15,589,379	\$15,588,996	\$15,588,359	\$15,587,976	\$15,587,721	\$15,587,084	\$15,586,829	\$14,815,331	\$13,977,179	\$13,888,846	\$13,888,591	\$13,888,463	\$13,888,336	\$13,887,953	\$13,763,842	\$335,348,090								
	\$505,922 \$1,225,800					\$541,593	\$541,593	\$541,593	\$541,593	\$541,593 \$2,195,800	\$253,435	\$35,671	\$35,671 \$2,195,800	\$35,671 \$2,195,800		\$35,671 \$2,195,800	\$35,671 \$2,195,800	\$0 \$2,195,800	\$8,123,895 \$43,172,000		1						
\$2,380,346	\$2,380,346	\$2,517,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$59,626,482			-					
	\$2,677 \$1,191,297			\$1,279,609	\$1,279,609		\$1,657 \$1,279,609			\$1,275 \$1,279,609	\$1,147 \$796,396	\$1,020 \$176,263		\$892 \$88,312	\$892 \$88,312	\$765 \$88,312	\$765 \$88,312	\$765 \$0	\$19,194,131								
\$3,962,180	\$3,962,180 \$4,024,306	\$3,962,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180			\$4,982,180	\$4,982,180			\$4,982,180 \$4,113,190		\$4,982,180	\$104,458,400 \$100.604,768								
\$5,992		\$5,737	\$5,610	\$5,482	\$5,227	\$4,972	\$4,717	\$4,590	\$4,207	\$3,952	\$3,952	\$3,825 \$211,934	\$3,442	\$3,315	\$3,187	\$3,187	\$2,805	\$2,677	\$121,370								
\$5,187,980	\$5,187,980	\$5,187,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$147,630,400							1	
\$8,669		\$8,032	\$7,904	\$7,777	\$7,394	\$6,757	\$6,375	\$6,120	\$5,482	\$5,227	\$5,100	\$4,845	\$4,462	\$4,207	\$4,080	\$6,582,420 \$3,952	\$3,570	\$3,442	\$160,231,250 \$168,414								
\$13,298,520	\$13,298,392	\$13,667,650	\$15,589,506	\$15,589,379	\$15,588,996	\$15,588,359			\$15,587,084	\$15,586,829	\$14,815,331	\$13,977,179		\$13,888,591 dfills_Reporti				\$13,763,842	\$335,348,090								
												Subtotals	Private	Local Govt.	State Govt.	Fed Govt.	Fribal Govt.	Military	607 040 000							£147.000 (0)	
												\$139,178	\$10,098						\$27,318,026	\$8,123,895						\$147,630,400	\$43,172,000
														\$87,994	\$3,769						\$16,736,415	5 \$0					\$95,712,520 \$0
																\$12,641	\$0						\$0	so	1		
																	ψU	\$24,676			ļ	-			\$2,457,710	5	
	\$1,663,718 \$4.091,980						\$1,663,718 \$4,091,980			\$1,663,718 \$4,091,980			\$0 \$4,091,980	\$0 \$4.091.980	\$0 \$4,091,980	\$0 \$4.091.980	\$0 \$4,091.980	\$0 \$4.091.980	\$24,955,774 \$91,678,400								
\$354,311	\$354,311 \$765						\$354,311 \$382						\$354,311 \$255			\$354,311 \$255			\$8,919,405			-					
\$765 \$6,110,775	\$6,110,775															\$255 \$4,446,546			\$14,661		1	1					
\$33,500	\$33.500	\$33.500	\$157.483	\$157 483	\$157,483	\$157 482	\$157 483	\$157.483	\$157 493	\$157,483	\$157 493	\$123 082	\$123.983	\$123,983	\$123,983	\$123,983	\$123,983	¢0	\$2,362,252								
\$1,096,000	\$1,096,000	\$1,096,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$3,086,000	\$55,952,000		1						
\$7,904	\$7,777	\$7,267	\$7,139		\$6,629	\$6,247	\$5,992	\$5,737	\$5,100		\$4,717	\$4,462		\$3,952	\$3,825	\$6,228,109 \$3,697	\$3,315	\$3,315	\$151,311,844 \$153,753								
	\$7,187,618									\$9,476,437			\$9,442,299			\$9,441,789		\$9,317,424	\$209,779,849								
\$13,298,520	\$13,298,392	\$13,667,650	\$15,589,506	\$15,589,379	\$15,588,996	\$15,588,359	\$15,587,976	\$15,587,721	\$15,587,084	\$15,586,829	\$14,815,331	\$13,977,179	\$13,888,846	\$13,888,591	\$13,888,463	\$13,888,336	\$13,887,953	\$13,763,842 \$335,348,090	\$335,348,090	Total All LFs Subj. to	Control/Mon						
																	-	4000,0 4 0,090		parici a auuj. K	Somol/WON.	1 1		1	1	1	· · · · · ·

		Monitorin	g Costs						LF Gas He	at Calc. Reporting Cost			Costs per	Landfill			
																	ARB
Fed Govt.	Tribal Govt. Military	Subtotal	Private	Local Govt.	State Govt.	Fed Govt.	Tribal Govt.	Military	Subtotal	Private Local Govt. State Govt. Fed Govt.	Tribal Govt.	Military		Reports	Review By ARI ARB? Ad Yes	LEA Re res R 40	teview Repor
		\$427,238		\$427,238											165		
									\$127	\$127			\$5,994,520	1	No		
		\$691,125	\$691,125						6407	5402							_
									\$127	\$127			\$691,253	1	No		
		\$326,108	\$326,108						\$127	\$127				1			
													\$326,236		No		
		\$404,326		\$404,326					\$127	\$127				1			
				0000.070									\$404,454		Yes	36	_
		\$360,872		\$360,872					\$127	\$127			\$360,999	1	No		
		\$502,296		\$502,296									\$500,333				
									\$1,530	\$1,530			\$7,074,991	12	No		
		\$756,702		\$756,702													
									\$3,060	\$3,060			\$759,762	24	No		
		\$647,671	\$647,671						\$127	\$127				1			_
									\$121	\$127			\$647,798		No		
		\$475,947	\$475,947						\$127	\$127				1			
													\$476,074		No		
		\$656,757		\$656,757					\$127	\$127			-	1			
		\$588,415		\$588,415									\$656,884		Yes	57	
		\$588,415		\$388,415					\$2,932	\$2,932			\$8,264,819	23	No		_
	\$8,745,8	80 \$853,921						\$853,921					\$0,201,010				
									\$3,060			\$3,060	\$12,060,576	24	Yes	38	
		\$378,253		\$378,253													
									\$127	\$127			\$378,381	1	Yes	21.8	
		\$254,685		\$254,685					\$765	\$765				6		_	
													\$255,450		No	_	_
		\$447,780	\$447,780						\$1,402	\$1,402				11			
													\$6,302,142		No		
		\$820,303		\$820,303					\$3,060	\$3,060			\$823,363	24	No		
		\$341,910		\$341,910									\$623,303		NU		
									\$1,785	\$1,785			\$343,695	14	No	_	_
		\$765,788		\$765,788													
									\$127	\$127			\$765,915	1	No		
		\$465,952		\$465,952					\$127	\$127				1			
		-							ψ127	\$127			\$466,080		No		
		\$146,690		\$146,690					\$127	\$127				1			
													\$146,818		No		
		\$1,192,826		\$1,192,826					\$255	\$255			\$1,193,081	2	No		
		\$502,296		\$502,296									\$1,193,081		INO		
		4302,290		4JU2,290					\$2,550	\$2,550			\$504,846	20	No		
		\$366,007		\$366,007													
									\$2,295	\$2,295			\$5,143,951	18	No		
]		\$311,492	\$311,492							6407							
									\$127	\$127			\$311,619	1	No		
					1	1	1						l		I		
		\$181,017	\$181,017						\$127	\$127				1			
		\$181,017		\$1,138,310					\$127	\$127			\$181,145	1	No		

				Monitorin	g Costs					LF Gas He	at Calc. R	eporting C	ost				Costs per	Landfill			
Fed Gov	rt. Tribal G	iovt.	Military	Subtotal	Private Local Govt.	State Govt.	Fed Govt.	Tribal Govt.	Military	Subtotal	Private	Local Govt.	State Govt.	Fed Govt.	Tribal Govt.	Military		Number of Reports	Review By ARB?	ARB LEA Acres	ARB Reviewed Reports
	-			\$552,071	\$552,071					\$127		\$127						1			
																	\$552,199		No		
				\$275,148	\$275,148					\$127		\$127						1			
																	\$275,275		No		
				\$1,410,888	\$1,410,888					\$127		\$127						1			
																	\$1,411,015		No		
				\$891,015	\$891,015					\$127		\$127						1			
																	\$891,143		No		
				\$162,684	\$162,684					\$3,060		\$3,060					8405 740	24	N1-		ļ
				\$353,287	\$353,287												\$165,743		No		
				\$333,267	3333,267					\$1,785		\$1,785					\$355,072	14	No		
				\$262,902	\$262,902												\$305,072		NO		
				\$202,902	\$202,902					\$127		\$127					\$3,224,520	1	No		
				\$417,757	\$417,757												\$3,224,320				<u> </u>
		_		<i>\</i>						\$3,060		\$3,060					\$420,817	24	No		
	_			\$427,238	\$427,238																
										\$127		\$127					\$5,994,520	1	No		
				\$421,708	\$421,708																
										\$127	\$127						\$421,835	1	No		
				\$806,477	\$806,477																
										\$3,060		\$3,060					\$809,537	24	No		
				\$883,905	\$883,905																
										\$127		\$127					\$884,032	1	No		
				\$391,685	\$391,685																
										\$2,167	\$2,167						\$393,852	17	No		
				\$429,609	\$429,609					\$510		\$510						4			
										\$510		\$510					\$6,043,675	4	No		<u> </u>
				\$328,858	\$328,858					\$127		\$127						1			
												•••=•					\$328,985		No		
				\$647,671	\$647,671					\$2,805		\$2,805						22			
																	\$650,476		No		
				\$223,536	\$223,536					\$127		\$127						1			
																	\$223,663		No		
				\$360,872	\$360,872					\$127	\$127							1			
																	\$360,999		No		
	_			\$967,653	\$967,653					\$127		\$127					8007 70	1	No		
				¢199.400	£100 100												\$967,781		No		
	-			\$188,429	\$188,429					\$127		\$127					\$188,556	1	No		
	-	_		\$910,767	\$910,767												\$100,000				
				4010,707						\$127	\$127						\$910,895	1	No		
				\$285,754	\$285,754												2010,000				
	-									\$2,805		\$2,805					\$288,559	22	No		
				\$665,052	\$665,052																
										\$127		\$127					\$665,180	1	No		
				\$593,155	\$593,155																
										\$3,060		\$3,060					\$596,215	24	No		[
				\$465,952	\$465,952																
										\$127	\$127						\$466,080	1	No		
				\$465,162	\$465,162												<u> </u>				ļ
										\$1,912		\$1,912					\$467,075	15	No		
				\$456,471	\$456,471							A									
										\$127		\$127					\$6,446,261	1	No		1

			Monitorin	g Costs						LF Gas He	at Calc. R	eporting C	Cost			Costs per	Landfill			
Fed Govt.	Tribal Govt.		Subtotal		Local Govt.	State Govt.	Fed Govt.	Tribal Govt.	Military				State Govt. Fed Govt.	Tribal Govt.	Military		Number of Reports	Review By ARB?	ARB LEA Acres	ARB Reviewed Reports
			\$1,090,906		\$1,090,906					0.07		2107								
										\$127		\$127				\$1,091,033	1	No		
			\$282,048		\$282,048					6407		6407								
										\$127		\$127				\$282,175	1	No		
			\$207,250		\$207,250					\$127		\$127					1			
										\$121		\$127				\$207,378		No		
			\$1,316,868		\$1,316,868					\$127		\$127					1			
												ψ121				\$1,316,996		No		
			\$1,008,342		\$1,008,342					\$127		\$127					1			
																\$11,429,160		No		
			\$1,438,146		\$1,438,146					\$2,167		\$2,167					17			
																\$1,440,313		No		
			\$699,816	\$699,816						\$127	\$127						1			
																\$699,943		No		
			\$251,817		\$251,817					\$127		\$127					1			
																\$251,944		No		
			\$1,185,715		\$1,185,715					\$127		\$127					1			
																\$1,185,843		No		
			\$1,229,170		\$1,229,170					\$127		\$127					1			
			\$1,090,906		64 000 000											\$1,229,297		No		
			\$1,090,906		\$1,090,906					\$127		\$127				\$1,091,033	1	NI-		
			\$1,216,054		\$1,216,054											\$1,091,033		No		
			\$1,210,034		\$1,210,004					\$1,402		\$1,402				\$17,093,179	11	No		
			\$956,592		\$956,592											\$11,000,110				
										\$510		\$510				\$13,513,319	4	No		
			\$1,547,177	\$1,547,177																
										\$3,060	\$3,060					\$1,550,237	24	No		
			\$1,422,739		\$1,422,739															
										\$127		\$127				\$1,422,867	1	Yes	73	
			\$711,272	\$711,272																
										\$127	\$127					\$10,035,689	1	No		1
			\$747,616		\$747,616															
										\$3,060		\$3,060				\$750,676	24	No		
			\$2,292,222		\$2,292,222					\$1,912		\$1,912					15			
										\$1,912		\$1,912				\$2,294,135	15	No		
			\$1,810,668		\$1,810,668					\$127		\$127					1			
										φ121		\$127				\$1,810,796		No		
			\$1,728,895		\$1,728,895					\$3,060		\$3,060					24			
																\$1,731,955		No		
			\$2,095,887		\$2,095,887					\$1,275		\$1,275					10			
																\$2,097,162		No		
			\$2,370,835		\$2,370,835					\$1,020		\$1,020					8			
																\$2,371,855		No		
			\$626,339		\$626,339					\$1,530		\$1,530					12			
																\$627,868		No		
			\$455,681	\$455,681						\$1,785	\$1,785						14			
					0 · 0 · · · · ·											\$457,466		No		
			\$1,274,599		\$1,274,599					\$2,295		\$2,295					18	N.		
			£1.000.100		£1.000.100											\$1,276,894		No		
	-		\$1,020,193		\$1,020,193					\$127		\$127				\$1,020,321	1	No		
			\$1,375,334		\$1,375,334											a1,020,321				
	1		\$1,373,334		φ1,373,334					\$3,060		\$3,060				\$1,378,394	24	No		
L	1	I	1	1	I	1	I			1			I	1	1	φ1,3/8,394		011		

		Monitorin	g Costs					LF Gas He	at Calc. R	eporting C	Cost			Costs per	Landfill			
Fed Govt.	Tribal Govt.	Subtotal		Local Govt.	State Govt.	Fed Govt.	Tribal Govt.				State Govt. Fed Govt.	Tribal Govt.	Military		Number of Reports	Review By ARB?	ARB LEA Acres	ARB Reviewed Reports
		\$1,559,028	\$1,559,028															
								\$3,060	\$3,060					\$17,617,158	24	No		
		\$847,561	\$847,561															
								\$382	\$382					\$847,943	3	No		
		\$303,697		\$303,697														
								\$892		\$892				\$304,590	7	No		
		\$213,199	\$213,199															
								\$127	\$127					\$213,326	1	No		
		\$2,410,339	\$2,410,339															
								\$3,060	\$3,060					\$2,413,399	24	No		
		\$1,038,365	\$1,038,365					 										
								 \$127	\$127					\$1,038,493	1	No		
		\$344,071		\$344,071														
								\$3,060		\$3,060				\$347,130	24	No		
		\$1,536.511	\$1,536,511															
		¢.,300,011	£ .,500,011					\$510	\$510					\$21,600,598	4	No		=
		\$2,364,910		\$2,364,910										+= 1,000,000				
	1	v=,004,010		<i>↓</i> 2,004,010				\$3,060		\$3,060				\$26,982,470	24	No		
		\$1 400 040	\$1,138,310											Ψ20,902,470				
		\$1,138,310	\$1,138,310					\$1,402	\$1,402					\$1,139,713	11	N		
		A200.000		0700.000										\$1,139,713		No		
		\$730,629		\$730,629				\$127		\$127				0-00	1			
														\$730,757		No		
		\$209,493	\$209,493					\$127	\$127						1			
														\$209,621		No		
		\$2,238,102		\$2,238,102				 \$3,060		\$3,060					24			
														\$2,241,162		No		
		\$383,784		\$383,784				\$3,060		\$3,060					24			
														\$4,649,344		No		
		\$4,532,494		\$4,532,494				\$3,060		\$3,060					24			
														\$4,535,554		No		
		\$543,380	\$543,380					\$127	\$127						1			
														\$543,508		No		
		\$1,166,753		\$1,166,753				 \$1,402		\$1,402					11			
														\$1,168,156		No		
		\$3,281,007		\$3,281,007				 \$3,060		\$3,060					24			
		 						 						\$3,284,067		No		
		\$2,873,721	\$2,873,721					\$2,040	\$2,040						16			
		 												\$2,875,761		No		
		\$3,034,502		\$3,034,502				\$3,060		\$3,060					24			
								40,000		ψ0,000				\$3,037,562		No		=
	İ	 \$696,215	\$696,215					\$127	\$127						1			
								φ121	ψ12 <i>1</i>					\$696,343		No		
	1	\$231,923		\$231,923				\$127		\$127				1	4			
		 						 \$127		\$127				\$232,050	1	No		
		 \$920,248		\$920,248				A0.0		Ac c					40			
	1							\$2,295		\$2,295				\$922,543	18	No		
		\$375,667		\$375,667														
	-							 \$127		\$127			l	\$375,795	1	No		
		\$2,029,521	\$2,029,521															
		 l 						 \$382	\$382					\$2,029,903	3	No		
		\$394,391		\$394,391														
								 \$127		\$127				\$394,519	1	No		
		\$326,907	\$326,907															
								\$127	\$127					\$327,035	1	No		
L					1			ı I			I			-0L1,000				

			Monitorin	g Costs					LF Gas He	at Calc. R	eporting C	ost				Costs per	Landfill			
Fed Govt.	Tribal Govt.	Military	Subtotal		Local Govt.	State Govt.	Fed Govt.	Tribal Govt. Military	Subtotal		Local Govt.		Fed Govt.	Tribal Govt.	Military		Number of Reports	Review By ARB?	ARB LEA Acres	ARB Reviewed Reports
			\$2,128,676		\$2,128,676				\$3,060		\$3,060						24			
									\$3,060		\$3,060					\$2,131,735	24	No		
			\$386,433		\$386,433				\$1,785		\$1,785						14			
									\$1,765		\$1,705					\$388,218	14	No		
-			\$1,678,725		\$1,678,725				\$1,275		\$1,275						10			
									\$1,210		\$1,270					\$1,680,000		No		
			\$1,047,451	\$1,047,451					\$127	\$127							1			
																\$1,047,579		No		
			\$1,896,787	\$1,896,787	7				\$3,060	\$3,060							24			
																\$1,899,847		No		
			\$1,501,747	\$1,501,747	7				\$127	\$127							1			
																\$1,501,875		No		
			\$249,866		\$249,866				\$127		\$127						1			
																\$249,994		No		
			\$3,470,627		\$3,470,627				\$2,805		\$2,805						22			
			-													\$3,473,431		No		
			\$419,161			\$419,161			\$127			\$127				6440.000	1	N -		
			£400.004		\$420,331											\$419,289		No		
			\$420,331		\$420,331				\$127		\$127					\$420,459	1	No		
			\$399,072		\$399,072											\$420,439		NU		
			\$399,072		\$399,012				\$1,147		\$1,147					\$400,219	9	No		
			\$2,065,074	\$2,065,074	1											\$400,213				
									\$892	\$892						\$2,065,967	7	No		
			\$492,691	\$492,691																
									\$127	\$127						\$492,819	1	No		
			\$2,361,354	\$2,361,354	1															
									\$3,060	\$3,060						\$2,364,414	24	No		
			\$729,080		\$729,080															
									\$127		\$127					\$729,207	1	No		
			\$1,849,382	\$1,849,382	2															
									\$3,060	\$3,060						\$1,852,442	24	No		
			\$1,002,916		\$1,002,916															
									\$3,060		\$3,060					\$1,005,976	24	No		
			\$925,680		\$925,680		-		\$127		\$127						1			
									\$127		\$127					\$925,807		No		
			\$745,268	\$745,268	3				\$127	\$127							1			
										\$127						\$745,395		No		
			\$1,807,761	\$1,807,761	1				\$1,657	\$1,657							13			
									\$1,007	ψ1,007						\$1,809,418		No		
			\$3,017,437	\$3,017,437	r				\$892	\$892							7			
									+	çude						\$3,018,329		No		
			\$1,858,863	\$1,858,863	3				\$1,785	\$1,785							14			
																\$1,860,648		No		
			\$6,371,800		\$6,371,800				\$3,060		\$3,060						24			
																\$6,374,860		No		
			\$3,119,831	\$3,119,831					\$892	\$892							7			
					-											\$3,120,723		No		
			\$1,021,640		\$1,021,640				\$2,422		\$2,422						19			
																\$1,024,062		No		
			\$1,034,902		\$1,034,902				\$637		\$637						5			
			64 645 677													\$1,035,540		No		
			\$1,615,829		\$1,615,829				\$3,060		\$3,060						24	N.		
L					1	I	1								I	\$1,618,889		No	I	

		Monitorin	g Costs						LF Gas He	eat Calc. R	eporting C	ost				Costs per	Landfill			
			Ĭ																	
																				ARB
Fed Govt.	Tribal Govt. Military	Subtotal	Private	Local Govt.	State Govt. Fed	Govt. T	Fribal Govt.	Military	Subtotal	Private	Local Govt.	State Govt.	Fed Govt.	Tribal Govt.	Military		Number of Reports	Review By ARB?	ARB LEA Acres	Reviewed Reports
	initial j						ingai oora		oubtotui		2000.0010	olato oorta	· ou oora		, , , , , , , , , , , , , , , , , , ,					
		\$530,236	\$530,236	5					A 107	0.000										
									\$127	\$127						\$530,364	1	No		
																4000,004		NO		
		\$3,409,000	\$3,409,000)																
									\$1,402	\$1,402						\$3,410,403	11	No		
																\$0,110,100				
		\$431,546	\$431,546	6																
-									\$127	\$127						\$431,674	1	No		
																\$431,074		INU		
		\$913,978	\$913,978	8																
									\$127	\$127						\$914,105	1	No		
																3914,103				
		\$2,228,621	\$2,228,621																	
-									\$1,530	\$1,530						\$2,230,151	12	No		
																\$2,230,131		INU		
		\$649,503	\$649,503	8																
									\$1,275	\$1,275						8050 770	10	No		
	\$0															\$650,778		No		
		\$4,504,051						\$4,504,051												
									\$255						\$255	64	2	Ne		
	<u> </u>			-												\$4,504,306		No		
		\$1,158,265	\$1,158,265	6												<u> </u>				
									\$2,677	\$2,677							21			
																\$1,160,942		No		
		\$4,073,063	\$4,073,063	8																
									\$2,422	\$2,422							19			
																\$4,075,485		No		
		\$812,849		\$812,849																
		**=							\$1,657		\$1,657						13			
																\$814,507		No		
		\$990,043		\$990,043																
		\$000,010		\$555,515					\$510		\$510						4			
																\$990,553		No		
		\$1,483,494		\$1,483,494																
		\$1,100,101		\$1,100,101					\$510		\$510						4			
																\$1,484,004		1321		33
																			265.8	
																	\$335,348,090			
																		6	# for APB P	onionu
																\$26,982,470		140	# for ARB R # for District	Review
																\$146,818				
																+				
				1												+				
																+				
		\$160,231,250							\$168,414							\$335,487,268	Per-Category S	ubtotals (all s	sectors)	
			\$59,626,482	\$94,827,634						\$47,044	\$117,928					\$110,979,519	Private Sector Local Govt. Sec			
				φ94,0∠1,034	\$419,161						a117,928	\$127				\$423,058	State Govt. Sec	tor		
\$0					, .	\$0						,	\$0			\$12,641	Fed. Govt. Sec	tor		
	\$0 \$8,745,880						\$0	\$5,357,972						\$0	60.045	\$0 \$16,589,559	Tribal Govt. Se	ctor		
	<u>۵</u> 8,745,880							φυ,357,972							\$3,315	\$335,487.268	Total Reg. Co:	st		
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				1																
				-																
				1																
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Worksheet 3

Cost Subtotals

5/7/2009

Note: See staff report (Appendix F) for additional discussion and more detailed information (including reference citations.)

\$48,000

1. Waste-in-Place (WIP) Report Preparation & Submittal

Assumptions:

Assumptions: 1) Landfills are currently required to submit periodic WIP reports to the California Integrated Waste Management Board. 2)This cost estimate assumes that a recent CIWMB report will either be updated or copied and submitted to ARB. 3) No allowance is given for office overhead, supplies, etc., since these are minimal cost items given the short duration and scope of this work assignment.

Cost:			
Engineering Staff Time:	2 hours @	61.77 \$/hr. =	\$124
Clerical Staff Time:	1 hours @	43.85 \$/hr. =	\$44
WIP Report Preparation & Submittal Cost:		-	\$167

Ref.: USDL, 2009b

2. Calculation of Landfill Gas Heat Input Capacity

Assumptions:

1) Time needed to prepare and submit Calculation as outlined in proposed regulation.

2) No allowance is given for office overhead, supplies, etc., since these are minimal cost items given the short duration and scope of this work assignment.

Cost:			
Engineering Staff Time:	1.5 hours @	65.14 \$/hr. =	\$98
Clerical Staff Time:	1 hours @	29.78 \$/hr. =	\$30
Calculation of Landfill Gas Heat Input Capacity (Cost:	-	\$127

Ref.: USDL, 2009b

3a. Surface Emissions/Contol & Collection System Monitoring--Capital Cost

Assumptions:

Monitoring equipment to be used by landfills will be the same as used by ARB for reg. enforcement.

Monitoring Equipment Capital Cost:			\$48,000	
Includes the following: (3) Portable Organic Vapor Analyzers (1) Calibration System (3) Vacuum Measuring Devices	@ @	\$5,000 ea. = \$3,000 ea. = \$1,000 ea. =	\$15,000 \$3,000 \$3.000	
(3) Portable Oxygen Analyzers Spare Parts Tools (3) Datalogging Systems	e	\$3,500 ea. = \$500 = \$1,000 = \$5,000 =	\$10,500 \$500 \$1,000 \$15,000	
(-,			\$48,000	

3b. Surface Emissions/Contol & Collection System Monitoring--Cost per Landfill-Acre

Assumptions:

Includes calibration of monitor and downloading of monitoring data from datalogger.

Increased Monitoring Cost (SCAQMD only): Engrg. Tech. Staff Time:	0.5 hours @	48.76	\$/hr. =	\$24 Per-Acre Cost:
Monitoring Cost + Surface Maintenance Allowance (non-SCAQMD landfills): Engrg. Tech. Staff Time: Improved Surface Maintenance Co	1 hours @ ost Allowance:	48.76 50	\$/hr. = \$/AC =	\$49 Per-Acre Cost: \$50 \$99 Total Per-Acre Cost

Ref.: USDL, 2009b

4. Upgrade of Existing Collection/Control System--Capital Cost

Assumptions:

For landfills with existing open flare systems, work to be performed will consist of changeout of existing control device to a new enclosed flare. Ref.: John Zink Co. "ZTOF" model

		E	Enclosed Flare	Cost Lookup Ta	ble ⁶					elivered Flar		
Flare Size	Delivered	Flare		Start-up				Flare Stack	Propane Pilot	Blower	Tranportation	Delivered
(MM Btu/Hr.)	Flare Cost 1	Installation ²	Permits 3	Source Test 4	Misc. 5	Total Cost		& Controls	Gas System	Skid	To Site	Flare Cost
3.0	\$174,590	\$30,000	\$5,000	\$25,000	\$50,000	\$284,590	3	\$75,000	\$1,000	\$75,000	\$10,000	\$174,590
6.1	\$189,405	\$33,462	\$6,000	\$25,000	\$50,000	\$303,867	6	\$80,000	\$1,000	\$80,769	\$13,077	\$189,405
10.6	\$207,490	\$36,924	\$7,000	\$25,000	\$50,000	\$326,414	11	\$88,000	\$1,000	\$86,538	\$16,154	\$207,490
18.2	\$224,486	\$40,386	\$8,000	\$25,000	\$50,000	\$347,872	18	\$95,000	\$1,000	\$92,307	\$19,231	\$224,486
27.3	\$242,571	\$43,848	\$9,000	\$25,000	\$50,000	\$370,419	27	\$103,000	\$1,000	\$98,076	\$22,308	\$242,571
39.5	\$265,016	\$47,310	\$10,000	\$25,000	\$50,000	\$397,326	39	\$115,000	\$1,000	\$103,845	\$25,385	\$265,016
51.6	\$285,281	\$50,772	\$15,000	\$25,000	\$50,000	\$426,053	52	\$125,000	\$1,000	\$109,614	\$28,462	\$285,281
66.8	\$305,546	\$54,234	\$20,000	\$25,000	\$50,000	\$454,780	67	\$135,000	\$1,000	\$115,383	\$31,539	\$305,546
81.9	\$325,812	\$57,696	\$25,000	\$25,000	\$50,000	\$483,508	82	\$145,000	\$1,000	\$121,152	\$34,616	\$325,812
100.2	\$346,077	\$61,158	\$30,000	\$25,000	\$50,000	\$512,235	100	\$155,000	\$1,000	\$126,921	\$37,693	\$346,077
115.4	\$366,342	\$64,620	\$35,000	\$25,000	\$50,000	\$540,962	115	\$165,000	\$1,000	\$132,690	\$40,770	\$366,342
136.6	\$386,607	\$68,082	\$40,000	\$25,000	\$50,000	\$569,689	137	\$175,000	\$1,000	\$138,459	\$43,847	\$386,607
182.1	\$596,090	\$71,544	\$45,000	\$25,000	\$50,000	\$787,634	182	\$350,000	\$1,000	\$150,000	\$50,000	\$596,090
364.3	\$1,001,430	\$75,000	\$50,000	\$25,000	\$50,000	\$1,201,430	364	\$525,000	\$2,000	\$300,000	\$100,000	\$1,001,430
546.5	\$1,001,430	\$150,000	\$55,000	\$50,000	\$50,000	\$1,306,430	546	\$700,000	\$3,000	\$450,000	\$150,000	\$1,406,770
728.6	\$1,406,770	\$225,000	\$60,000	\$75,000	\$50,000	\$1,816,770	728	\$875,000	\$4,000	\$600,000	\$200,000	\$1,812,110
910.8	\$1,812,110	\$300,000	\$65,000	\$100,000	\$50,000	\$2,327,110	911	\$1,050,000	\$5,000	\$750,000	\$250,000	\$2,217,450
	\$2,217,450	\$375,000	\$70,000	\$125,000	\$50,000	\$2,837,450		\$1,050,000	\$6,000	\$900,000	\$300,000	\$2,432,040

¹ Includes the following: enclosed flare cost (includes stack ,control panel, flame arrester, safety shutoff valve, flow meter, and chart recorder), \$1,000 for propane pilot gas system, tranportation to CA (not taxed), and 9% sales tax.

² Includes site evaluation, application engineering, and actual installation work.

³ Includes air district (application & authority-to-construct fees) and building permits.

⁴ Source test for criteria pollutants and CH4 (EPA Method 18) to ensure permit compliance.

⁵ Allowance for electrical service work, including line extension and service drop work, etc.

⁶ 182 MM Btu/Hr. (about 6,000 SCFM) is the largest stock single enclosed flare size; larger sizes assume using multiple flares as required for control.

Ref.: Locke, 2009a, Locke 2009b

5a. Installation of New Collection and Control System--Capital Cost

Assumptions:

includes site assessment, design and installation of collection and control systems (enclosed flare assumed as control technology choice)

2007 \$	2008 \$		
\$18,000	\$18,900	Cost/ LF acre:	\$18,900
		Source Test:	\$25,000

Ref.: U.S. EPA. 2009

5b. Annual Operation & Maintenance Cost of New Collection and Control System

2007 \$ 4,000	2008 \$ 4,200		Cost/ LF acre:	\$4,200
		\$25,000	\$0	\$25,000
		Source Test	Misc	

Ref.: U.S. EPA. 2009

6. Costs to ARB for Enforcement and Outreach Activities

Note: Items 6a through 6e are used to calculate the low end of the cost range, 6f through 6j are used to calculate the high end of the cost range.

Calculation of ARB Loaded Labor Rate Used for Estimation Purposes (includes benefits, overhead, etc.): ARB Annual Employee Loaded Cost = \$170,000¹ Number of Employee Production Hours/Yr.: 1,904 \$170,000/1,904 = \$89.29/hr.

Ref.: Ford, 20091

6a. ARB Enforcement--Site Inspections & Associated Work (low end of cost range)

Assumptions:

Assumptions: 1) Six landfills located in local air districts w/o delegated LEA authority from ARB will be inspected annually by ARB for enforcement purposes. 2) Three of the six landfills are remotely located, requiring additional travel time beyond that for a typical inspection. 3) A typical inspection is a one-day trip w/do overnight lodging, but includes limited (4hrs.) O/T. O/T = 1.5x normal pay rate. 4) A remote inspection includes two nights' lodging expenses + per-diem and two days for travel.

5) Landfill population is relatively stable over time -- no large increases in the number of landfills. Maaitasiaa

				Equipment \$48,000			One-Time Eq. Cost \$48,000
			Travel Cost	Labor	Labor Cost		
	# of Landfills	Travel (unit cost	Subtotal	(hrs./insp.)	Subtotal		
Typical Inspection:	3	\$80	\$240	14	\$3,750	Annual	Annual
Remote Inspection:	3	\$520	\$1,560	24	\$6,429	Travel Cost	Labor Cost
			\$1,800	-	\$10,179	\$1,800	\$10,179

6b. ARB Enforcement--Design Plan Reviews (low end of cost range)

Assumptions:

1) Each intial Design Plan review by ARB staff includes 12 hrs. for a site visit.

2) 25% of Design Plans submitted will be updated and resubmitted annually.

3) Landfill population is relatively stable over time -- no large increases in the number of landfills.

Initial Design Plan Review¹:

	30 hours @ Travel Costs (avg.):	89.29 \$/hr. =	\$2,679 \$240		
		Total:	\$2,919		
Updated Design Plan Review1:					
	8 hours @	89.29 \$/hr. =	\$714		
Cost Calculation:				One-Time	One-Time
	# of Affected Labor	Review Cost			
	Landfills Cost/Revie			Travel Cost	Labor Cost
Initial Review:	5 \$2,	679 \$13,394		\$1,200	\$13,394
Update Review:	1 \$	714 \$714			
					Annual
					Labor Cost
					\$714

Ref.: Judge, 20091

6c. ARB Enforcement--Monitoring Data Review (low end of cost range) Assumptions:

1) Monitoring data review includes staff time to receive, review, and archive data.

2) Four monitoring reports per year are reviewed.

3) Landfill population is relatively stable over time -- no large increases in the number of landfills.

4) Report review workload is constant over the 23-year analysis period.

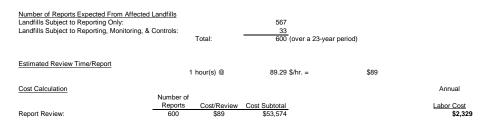
Review Cost per Reporting Cycle (expressed on a per-acre basis):

	0.1 hours @	89.29 \$/hr. =	\$9	A
	Number of			Annual
	Affected Review C	ost		
	Landfill- (\$/acre)	Cost Subtotal		Labor Cost
Report Review:	266	\$9 \$2,373		\$9,493

6d. ARB Enforcement--Review of WIP and Heat Calculation Reports (low end of cost range)

Assumptions:

Report review workload is constant over the 23-year analysis period.
 Landfill population is relatively stable over time-- no large increases in the number of landfills.



6e. ARB Implementation--Outreach and Compliance Assistance Activities (low end of cost range) Assumptions:

1) Mailout audience is estimated at 218 x 1.25 = 273; this is the 218 potentially affected CA landfills plus 25% additional to include associated regulatory agencies (local air districts (35), CIWMB, RWCB, and EPA), equipment and service providers, and other interested parties. 2) Preparation of 75-page outreach document for landfills is performed.

Preparation of Outreach Materials

(1) 75-page outreach document ARB Staff Time:	120 h	iours @	89.29 \$/h	ır. =	\$10,715	
	(# of units)	(cost/unit)	Quantity			
Reproduction Costs:						
400 copies = 273 + 127 extras	75	\$0.04	400	\$1,200		
Mailout:						
cover letter	2	\$0.04	273	\$22		
envelope	1	\$0.72	273	\$197		
postage (8 oz.) (after 5/09 rate increase)	1	\$2.07	273	\$565		
					\$1,984	
Informational Workshop(s)						
(Outreach materials & staff time costs cover	ed/absorbed in c	urrent budget all	ocation.)			
Travel- one person/one week				\$1,200		One-Time Non- One-Time
						Labor Expenses Travel Exp.
Trade Show Attendance						\$2,484 \$2,400
(Staff time costs covered/absorbed in curren	t budget allocati	on.)				
Travel- one person/one week				\$1,200		One-Time
Registration Fees				\$500		Labor Cost
						\$10,715

Low-End of Cost Range Summary

	<u>Cost (\$)</u>
Annual (Recurring) Costs:	
ARB Staff Time	\$22,716
Travel	\$1,800
	\$24,516
"Low-End Annual Costs to ARB are approxim	ately \$24,500."
One-Time Costs:	
ARB Staff Time	\$24,108
Travel	\$3,600
Monitoring Equipment + Mailout Expenses	\$50,484
	\$78,192

"Low-End One-Time Costs to ARB are approximately \$78,000."

6f. ARB Enforcement--Site Inspections & Associated Work (high end of cost range) Assumptions:

1) All California landfills will be inspected annually by ARB for enforcement purposes.

2) Landfill population is relatively stable over time-- no large increases in the number of landfills.

Labor Cost 8 hrs./insp. + 1.3 hrs. travel allowance = 10 hrs./inspection 367 Landfills x 10 hrs. Staff Time/Landfill = 3,670 hrs. 3,670 hrs 2 PYs 2 PYs x \$170,000/PY ¹ = \$340,000	Monitoring Equipment \$ 48,000	One-Time <u>Eq. Cost</u> 48,000
Travel Cost		Annual Annual
40% of Inspections on Per-Diem (~36.7 weeks/yr. for 2 PYs)	Travel Labor Cost \$44,040 \$ 340,000	Travel Cost Labor Cost \$44,040 \$340,000
Cost for One Week of Travel (5 days, 4 nights)		
Lodging \$560		
Round-Trip Airfare \$240		
Car Rental (incl. gas.) \$200		
Food and Incidentals \$200		
\$1,200		
36.7 Travel Weeks/yr. x \$1,200/week = \$44,040		
Ref.: Ford, 2009 ¹		
 6g. ARB EnforcementDesign Plan Reviews (high end of assumptions: 1) Each initial Design Plan review by ARB staff includes 12 hrs. for a s 2) 25% of Design Plans submitted will be updated and resubmitted and 3) Landfill population is relatively stable over time no large increases 	ite visit. nually.	
Initial Design Plan Review ¹ :		

Initial Design Plan Review ¹ :	30 I Travel Costs (a	nours @ avg.):	89.29 \$	δ/hr. = Γotal:	\$2,679 \$240 \$2,919		
Updated Design Plan Review ¹ :		nours @	89.29 \$	N/h #	\$714		
	01	iours @	69.29 3	¢/rir. =	\$714		
Cost Calculation:						One-Time	One-Time
	# of Affected	Labor	Review Cost				
	Landfills	Cost/Review	Subtotal			Travel Cost	Labor Cost
Initial Review:	146	\$2,679	\$391,090			\$35,040	\$391,090
Update Review:	37	\$714	\$26,073				
							Annual Labor Cost \$26,073

Ref.: Judge, 20091

6h. ARB EnforcementMonitor Assumptions: 1) Monitoring data review includes st 2) Four monitoring reports per year 3) Landfill population is relatively sta 4) Report review workload is constar	aff time to receive, revie are reviewed. ble over time no large	ew, and archiv	ve data.		
Review Cost per Reporting Cycle (ex		oasis): nour(s) @	89.29 \$/hr. =	\$9	
	0.11	iou.(o) ©	00.20 ¢/m. –	ψũ	Annual
	Number of				
	Affected				
	Landfill-	Review Cost			
	Acres	(\$/acre)	Cost Subtotal		Labor Cost
Report Review:	23,247	\$	§9 \$207,573		\$830,292

6i. ARB Enforcement--Review of WIP and Heat Calculation Reports (high end of cost range) Assumptions:
 Report review workload is constant over the 23-year analysis period.
 Landfill population is relatively stable over time-- no large increases in the number of landfills.

Number of Reports Expected From Affected Landfills

Landfills Subject to Reporting Only: Landfills Subject to Reporting, Monitoring, & Controls	: Total:	888 1,321 2,209		
Estimated Review Time/Report	1 hour(s) @	89.29 \$/hr. =	\$89	
Cost Calculation Numb	er of			Annual
Report Review: 2,20		Cost Subtotal \$197,242		Labor Cost \$8,576

6j. ARB Implementation--Outreach and Compliance Assistance Activities (high end of cost range)

Assumptions:

Assumptions. 1) Mailout audience is estimated at 372 x 1.25 = 465; this is all of the 372 potentially affected CA landfills plus 25% additional to include associated regulatory agencies (local air districts (35), CIWMB, RWCB, and EPA), equipment and service providers, and other interested parties. 2) Preparation of 75-page outreach document for landfills is performed.

Preparation of Outreach Materials

 75-page outreach document 							
ARB Staff Time:	120 h	our(s) @	89.29 \$/h	nr. =	\$10,715		
	(# of units)	(cost/unit)	Quantity				
Reproduction Costs:			-				
500 copies = 465 + 35 extras	75	\$0.04	500	\$1,500			
Mailout:							
cover letter	2	\$0.04	465	\$37			
envelope	1	\$0.72	465	\$335			
postage (8 oz.) (after 5/09 rate increase)	1	\$2.07	465	\$963			
					\$2,835	-	
Informational Workshop(s)							
(Outreach materials & staff time costs cover	ed/absorbed in c	urrent budget all	ocation.)				
Travel- one person/one week		0	,	\$1,200			
Trade Show Attendance							
(Staff time costs covered/absorbed in curren	nt budget allocation	on.)					
				\$1,200			
Travel- one person/one week							
Registration Fees				\$500			
						One-Time	One-Time Non-
						One-Time Travel Exp.	

One-Time Labor Cost **\$10,715**

High-End of Cost Range Summary

	<u>Cost (\$)</u>
Annual (Recurring) Costs:	
ARB Staff Time	\$1,204,940
Travel	\$44,040
	\$1,248,980
"High-End Annual Costs to ARB are approx	ximately 1.2 million dollars."

One-Time Costs:	
ARB Staff Time	\$401,805
Travel	\$37,440
Monitoring Equipment + Mailout Expenses	\$50,835
	\$490,080

"High-End One-Time Costs to ARB are approximately \$490,000."

Worksheet 4

Estimated Cost-Effectiveness

(for the period 2010 to 2033, inclusive)

5/7/2009

This is the overall cost-effectiveness, where reporting requirement, collection and control system, and monitoring costs are summed and divided by the CO2 reductions attributable to the proposed regulation (emission benefits for landfills in the SCAQMD excluded from the emission reductions listed below.)

1) Cost-Effectiveness of Proposed Regulation

,		Emission Red. ³	Cost-Effectiveness
Year ¹	Annual Cost ² (\$)	(MTCO2E)	(\$/MTCO2E)
2010	\$6,404,217	1,163,439	5.50 Low
2011	\$11,356,839	1,198,633	9.47
2012	\$14,052,745	1,234,336	11.38 High
2013	\$13,306,546	1,270,563	10.47
2014	\$13,305,574	1,307,328	10.18
2015	\$13,305,151	1,344,646	9.89
2016	\$13,304,856	1,382,532	9.62
2017	\$13,673,947	1,421,002	9.62
2018	\$15,595,468	1,460,071	10.68
2019	\$15,595,341	1,499,756	10.40
2020	\$15,594,456	1,540,071	10.13
2021	\$15,593,819	1,581,034	9.86
2022	\$15,592,974	1,622,662	9.61
2023	\$15,592,424	1,664,971	9.36
2024	\$15,591,659	1,707,980	9.13
2025	\$15,591,404	1,751,704	8.90
2026	\$14,819,906	1,796,163	8.25
2027	\$13,981,754	1,841,375	7.59
2028	\$13,893,086	1,887,358	7.36
2029	\$13,892,536	1,934,132	7.18
2030	\$13,892,114	1,981,715	7.01
2031	\$13,891,986	2,030,127	6.84
2032	\$13,891,604	2,079,389	6.68
2033	\$13,766,863	2,129,520	6.46
	\$335,487,268	38,830,509	8.64 Avg.

¹ These are the individual years in the analysis period.

² Annual costs are the sum of the reporting, collection and control systems improvements, and monitoring costs for all affected CA landfills (including those in the SCAQMD.) Costs are from the Landfills_Reporting_Only and Landfills_Controlled worksheets in this file.

³ Emission reductions are for all affected CA landfills except for those in the SCAQMD.

Cost Summary Worksheet 5

5/4/2009

1) Costs for Landfills Subject to Reporting Requirements Only (projected to have less than 450,000 tons WIP)

_	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Private LFs:	\$2,989	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$295	\$295	\$295	\$295	\$295	\$295	\$127
Government LFs (all): Local:	\$14,163 \$11.055	\$7,428 \$4.950	\$7,094 \$4.615	\$6,799 \$4,448	\$6,464 \$4.113	\$6,169 \$3,985	\$6,002 \$3,985	\$5,834 \$3,985	\$5,500 \$3.818	\$5,500 \$3.818	\$4,997 \$3,316	\$4,997 \$3,316	\$4,703 \$3.316	\$4,408 \$3.021	\$4,280 \$2,893	\$4,280 \$2,893	\$4,280 \$2,893	\$4,280 \$2,893	\$4,113 \$2,726
State: Federal:	\$295 \$1,387	\$295 \$757	\$295 \$757	\$295 \$630	\$295 \$630	\$127 \$630	\$127 \$630	\$127 \$462	\$3,818 \$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462	\$127 \$462
Tribal:	\$0	\$0 \$1,427	\$0	\$030 \$0 \$1.427	\$030 \$0 \$1.427	\$0	\$0	\$402 \$0 \$1,259	\$0	\$0	\$402 \$0 \$1.092	\$0	\$0	\$402 \$0 \$797	\$402 \$0 \$797	\$402 \$0 \$797	\$402 \$0 \$797	\$402 \$0 \$797	\$402 \$0 \$797
Military:	\$1,427 \$17,152	\$1,427 \$7,891	\$1,427 \$7,556	\$1,427 \$7,261	\$1,427 \$6,926	\$1,427 \$6,631	\$1,259 \$6,464	\$1,259 \$6,297	\$1,092 \$5,962	\$1,092 \$5,962	\$1,092 \$5,460	\$1,092 \$5,460	\$797 \$4,997	\$4,703	\$797 \$4,575	\$797 \$4,575	\$797 \$4,575	\$797 \$4,575	\$4,240
LFs Subject to WIP Rep. Only: LFs Subject to Both WIP & Heat Calc. Rep'ting: Total by Year:	\$5,356 <u>\$11,795</u> \$17,152	\$5,356 \$2,534 \$7,891	\$5,022 \$2,534 \$7,556	\$4,854 \$2,407 \$7,261	\$4,687 \$2,239 \$6,926	\$4,687 \$1,944 \$6,631	\$4,520 \$1,944 \$6,464	\$4,352 \$1,944 \$6,297	\$4,352 \$1,610 \$5,962	\$4,352 \$1,610 \$5,962	\$4,017 \$1,442 \$5,460	\$4,017 \$1,442 \$5,460	\$3,850 \$1,147 \$4,997	\$3,683 \$1,020 \$4,703	\$3,683 \$892 \$4,575	\$3,683 \$892 \$4,575	\$3,683 \$892 \$4,575	\$3,683 \$892 \$4,575	\$3,348 <u>\$892</u> \$4,240

2) Costs for Landfills Subject to Reporting, Monitoring, and Control Requirements (typical businesses; projected to have greater than or equal to 450,000 tons WIP)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Private LFs: Capital Costs	\$0	\$288,158	\$505,922	\$505,922	\$505,922	\$505,922	\$505,922	\$505,922	\$541,593	\$541,593	\$541,593	\$541,593	\$541,593	\$541,593	\$541,593	\$541,593	\$253,435	\$35,671	\$35,671
O&M Costs	\$0	\$684,400	\$1,225,800	\$1,225,800	\$1,225,800	\$1,225,800	\$1,225,800	\$1,225,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800
Monitoring Costs	\$2,141,857	\$3,077,983	\$2,860,346	\$2,380,346	\$2,380,346	\$2,380,346	\$2,380,346	\$2,517,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230
Reporting Costs	\$6,247	\$3,060	\$3,060	\$2,805	\$2,677	\$2,677	\$2,677	\$2,295	\$2,295	\$2,295	\$2,167	\$1,785	\$1,657	\$1,530	\$1,275	\$1,275	\$1,147	\$1,020	\$1,020
	\$2,148,104	\$4,053,602	\$4,595,128	\$4,114,873	\$4,114,745	\$4,114,745	\$4,114,745	\$4,251,247	\$5,208,918	\$5,208,918	\$5,208,790	\$5,208,408	\$5,208,280	\$5,208,153	\$5,207,898	\$5,207,898	\$4,919,612	\$4,701,721	\$4,701,721
Govt. LFs: Capital Costs	\$0	\$483,212	\$1,103,346	\$1,191,297	\$1,191,297	\$1,191,297	\$1,191,297	\$1,191,297	\$1,279,609	\$1,279,609	\$1,279,609	\$1,279,609	\$1,279,609	\$1,279,609	\$1,279,609	\$1,279,609	\$796,396	\$176,263	\$88,312
O&M Costs	\$0	\$1,192,840	\$3,739,780	\$3,962,180	\$3,962,180	\$3,962,180	\$3,962,180	\$3,962,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180
Monitoring Costs	\$4,226,595	\$5,612,410	\$4,600,306	\$4,024,306	\$4,024,306	\$4,024,306	\$4,024,306	\$4,257,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190
Reporting Costs	\$12,367	\$6,884	\$6,629	\$6,629	\$6,120	\$5,992	\$5,865	\$5,737	\$5,610	\$5,482	\$5,227	\$4,972	\$4,717	\$4,590	\$4,207	\$3,952	\$3,952	\$3,825	\$3,442
	\$4,238,961	\$7,295,346	\$9,450,061	\$9,184,412	\$9,183,902	\$9,183,775	\$9,183,647	\$9,416,404	\$10,380,588	\$10,380,461	\$10,380,206	\$10,379,951	\$10,379,696	\$10,379,568	\$10,379,186	\$10,378,931	\$9,895,719	\$9,275,458	\$9,187,124
Recurring Costs (all):	\$6,387,065	\$10,577,577	\$12,435,921	\$11,602,066	\$11,601,429	\$11,601,302	\$11,601,174	\$11,970,432	\$13,768,305	\$13,768,177	\$13,767,795	\$13,767,157	\$13,766,775	\$13,766,520	\$13,765,882	\$13,765,627	\$13,765,500	\$13,765,245	
Annualized Cap. Cost:	\$0	\$771,371	\$1,609,268	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,049,831	\$211,934	\$123,983
Subtotals: Capital Costs	\$0	\$771,371	\$1,609,268	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,049,831	\$211,934	\$123,983
O&M Costs	\$0	\$1,877,240	\$4,965,580	\$5,187,980	\$5,187,980	\$5,187,980	\$5,187,980	\$5,187,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980
Monitoring Costs	\$6,368,451	\$8,690,393	\$7,460,652	\$6,404,652	\$6,404,652	\$6,404,652	\$6,404,652	\$6,774,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420
Reporting Costs	\$18,614	\$9,944	\$9,689	\$9,434	\$8,797	\$8,669	\$8,542	\$8,032	\$7,904	\$7,777	\$7,394	\$6,757	\$6,375	\$6,120	\$5,482	\$5,227	\$5,100	\$4,845	\$4,462
Totals:	\$6,387,065	\$11,348,948	\$14,045,189	\$13,299,285	\$13,298,647	\$13,298,520	\$13,298,392	\$13,667,650	\$15,589,506	\$15,589,379	\$15,588,996	\$15,588,359	\$15,587,976	\$15,587,721	\$15,587,084	\$15,586,829	\$14,815,331	\$13,977,179	\$13,888,846

3) Reporting Costs for All Landfills

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Reporting Only LFs:																			
Private	\$2,989	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$462	\$295	\$295	\$295	\$295	\$295	\$295	\$127
Government:	\$14,163	\$7,428	\$7,094	\$6,799	\$6,464	\$6,169	\$6,002	\$5,834	\$5,500	\$5,500	\$4,997	\$4,997	\$4,703	\$4,408	\$4,280	\$4,280	\$4,280	\$4,280	\$4,113
	\$17,152	\$7,891	\$7,556	\$7,261	\$6,926	\$6,631	\$6,464	\$6,297	\$5,962	\$5,962	\$5,460	\$5,460	\$4,997	\$4,703	\$4,575	\$4,575	\$4,575	\$4,575	\$4,240
Cntl/Monitoring LFs:																			
Private	\$6,247	\$3,060	\$3,060	\$2,805	\$2,677	\$2,677	\$2,677	\$2,295	\$2,295	\$2,295	\$2,167	\$1,785	\$1,657	\$1,530	\$1,275	\$1,275	\$1,147	\$1,020	\$1,020
Government:	\$12,367	\$6,884	\$6,629	\$6,629	\$6,120	\$5,992	\$5,865	\$5,737	\$5,610	\$5,482	\$5,227	\$4,972	\$4,717	\$4,590	\$4,207	\$3,952	\$3,952	\$3,825	\$3,442
	\$18,614	\$9,944	\$9,689	\$9,434	\$8,797	\$8,669	\$8,542	\$8,032	\$7,904	\$7,777	\$7,394	\$6,757	\$6,375	\$6,120	\$5,482	\$5,227	\$5,100	\$4,845	\$4,462
Total (all):	\$35,765	\$17,835	\$17,245	\$16,695	\$15,723	\$15,301	\$15,006	\$14,328	\$13,866	\$13,739	\$12,854	\$12,217	\$11,372	\$10,822	\$10,057	\$9,802	\$9,675	\$9,420	\$8,702

4) Total Cost of Regulation to Afffected Landfills

Cost Category																			
Capital Costs	\$0	\$771,371	\$1,609,268	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,697,218	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,821,202	\$1,049,831	\$211,934	\$123,983
O&M Costs	\$0	\$1,877,240		\$5,187,980														\$7,177,980	
Monitoring Costs	\$6,368,451	\$8,690,393	\$7,460,652	\$6,404,652	\$6,404,652	\$6,404,652	\$6,404,652	\$6,774,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420
Reporting Costs	\$18,614	\$9,944	\$9,689	\$9,434	\$8,797	\$8,669	\$8,542	\$8,032	\$7,904	\$7,777	\$7,394	\$6,757	\$6,375	\$6,120	\$5,482	\$5,227	\$5,100	\$4,845	\$4,462
Annual Totals:	\$6,387,065	\$11,348,948	\$14,045,189	\$13,299,285	\$13,298,647	\$13,298,520	\$13,298,392	\$13,667,650	\$15,589,506	\$15,589,379	\$15,588,996	\$15,588,359	\$15,587,976	\$15,587,721	\$15,587,084	\$15,586,829	\$14,815,331	\$13,977,179	\$13,888,846
	Lowest Yr.								Highest Yr.										

5) Cost Per California Household Calculation

Total Cost of Prop. Reg. Div. by # of CA Households:

Cost/ CA Household Div. by # of Months in Analysis Period:

0.09 \$/mon/household

\$26

	Totals	2033	2032	2031	2030	2029
	\$10,098	\$0	\$0	\$0	\$0	\$127
	\$129,080	\$3,021	\$3,650	\$3,650	\$3,650	\$3,818
	\$87,994	\$2,224	\$2,391	\$2,391	\$2,391	\$2,559
	\$3,769	\$0	\$127	\$127	\$127	\$127
	\$12,641	\$335	\$335	\$335	\$335	\$335
	\$0	\$0	\$0	\$0	\$0	\$0
	\$24,676	\$462	\$797	\$797	\$797	\$797
	\$139,178	\$3,021	\$3,650	\$3,650	\$3,650	\$3,945
	\$95,914	\$2,511	\$3,013	\$3,013	\$3,013	\$3,180
	\$43,264	\$510	\$637	\$637	\$637	\$765
\$139,17		\$3,021	\$3,650	\$3,650	\$3,650	\$3,945

	Totals	2033	2032	2031	2030	2029
	\$8,123,895	\$0	\$35,671	\$35,671	\$35,671	\$35,671
	\$43,172,000	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800	\$2,195,800
	\$59,626,482	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230	\$2,469,230
	\$47,044	\$765	\$765	\$765	\$892	\$892
	\$110,969,421	\$4,665,795	\$4,701,466	\$4,701,466	\$4,701,594	\$4,701,594
	\$19,194,131	\$0	\$88,312	\$88,312	\$88,312	\$88,312
	\$104,458,400	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180	\$4,982,180
	\$100,604,768	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190	\$4,113,190
	\$121,370	\$2,677	\$2,805	\$3,187	\$3,187	\$3,315
	\$224,378,669	\$9,098,047	\$9,186,487	\$9,186,869	\$9,186,869	\$9,186,997
	\$308,030,064	\$13,763,842	\$13,763,970	\$13,764,352	\$13,764,480	\$13,764,607
	\$27,318,026	\$0	\$123,983	\$123,983	\$123,983	\$123,983
	\$27,318,026	\$0	\$123,983	\$123,983	\$123,983	\$123,983
	\$147,630,400	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980	\$7,177,980
	\$160,231,250	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420	\$6,582,420
	\$168,414	\$3,442	\$3,570	\$3,952	\$4,080	\$4,207
\$335,348,0		\$13,763,842	\$13,887,953	\$13,888,336	\$13,888,463	\$13,888,591
\$335,487,26	-					

	Totals	2033	2032	2031	2030	2029
	\$10.098	\$0	\$0	\$0	\$0	\$127
	\$129,080	\$3,021	\$3,650	\$3,650	\$3,650	\$3,818
\$139,178		\$3,021	\$3,650	\$3,650	\$3,650	\$3,945
	\$47,044	\$765	\$765	\$765	\$892	\$892
	\$121,370	\$2,677	\$2,805	\$3,187	\$3,187	\$3,315
\$168,414		\$3,442	\$3,570	\$3,952	\$4,080	\$4,207
\$307,59		\$6,463	\$7,220	\$7,603	\$7,730	\$8,153

18,026
30,400
31,250
07,593 (incl. reporting only LFs)
37,268
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