

MOU MEASURE NO. 3 - ZERO-EMISSION BUS PROGRAM

This MOU Measure No. 3 is based on LAWA's Air Quality Improvement Measures plan for LAX (LAX AQIM), the LAWA Zero-Emission Bus Program to convert LAWA-owned buses at LAX to zero-emission buses and is attached to and a part of the MOU between LAWA and South Coast AQMD.

I. PROGRAM DESCRIPTION - Replace 20% and 100% of LAWA-owned and operated buses with zero-emission buses by January 1, 2023 and January 1, 2031, respectively.

II. PROGRAM TIMEFRAME - Upon execution through 2032.

III. LAWA OBLIGATIONS - LAWA shall:

A. Replace LAWA-owned buses to meet the specified targets.

B. Beginning in 2021, provide the following information to South Coast AQMD on an annual basis by June 1 for each preceding calendar year:

1. List of buses operating at LAWA with the following information:

- a. Vehicle Identification Number
- b. Vehicle model year
- c. Vehicle GVWR¹
- d. Bus engine model year
- e. Power rating (hp or kW)
- f. Odometer reading
- g. Vehicle miles traveled²

2. An emission inventory for the LAWA-owned bus fleet, following the methodology and calculations used to generate the 2017 baseline inventory report for the LAX AQIM.

3. List of buses replaced during the reported year and information specified in III.B.1. above on replaced and replacement buses (i.e., replaced buses scrapped or moved out of state).

¹ Gross Vehicle Weight Rating

² Vehicle miles traveled (VMT) will be based on actual annual mileage traveled by each bus in the LAWA-owned bus fleet.

**MOU MEASURE NO. 3
ZERO-EMISSION BUS PROGRAM**

Operating List

MOU Measure 3 III.B.1.

Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT
1	C-1308	1FDPF70J7SVA69431	1996	30000	1996	Gasoline	245	HP	14793 ^a	143
2	C-1608	1GDM7C1C21J505505	2001	17500	2001	Diesel	250	HP	8346 ^a	46
3	C-1643	1N9AMACG46C084063	2006	42760	2005	CNG	190	HP	42499	2720
4	C-1644	1N960B0286A140078	2006	68540	2006	CNG	320	HP	104408	3265
5	C-1645	1N960B02X6A140079	2006	68540	2006	CNG	320	HP	109883	4726
6	C-1646	1N960B0266A140080	2006	68540	2006	CNG	320	HP	112661 ^a	16795
7	C-1647	1N960B0286A140081	2006	68540	2006	CNG	320	HP	103819 ^a	11819
8	C-1648	1N960B02X6A140082	2006	68540	2006	CNG	320	HP	360717	255342
9	C-1649	1N960B0216A140083	2006	68540	2006	CNG	320	HP	88094 ^a	0
10	C-1650	1N960B0206A140124	2006	68540	2006	CNG	320	HP	121608 ^a	19108
11	C-1651	1N960B0226A140125	2006	68540	2006	CNG	320	HP	107635 ^a	11123
12	C-1652	1N960B0246A140126	2006	68540	2006	CNG	320	HP	98000 ^a	2244
13	C-1653	1N960B0266A140127	2006	68540	2006	CNG	320	HP	78754 ^a	0
14	C-1654	1N960B0286A140128	2006	68540	2006	CNG	320	HP	103378 ^a	8150
15	C-1655	1N960B02X6A140129	2006	68540	2006	CNG	320	HP	90924 ^a	5268
16	C-1658	1N90350877A140058	2007	42540	2006	CNG	280	HP	277971	7601
17	C-1659	1N90350897A140059	2007	42540	2006	CNG	280	HP	246169	8067
18	C-1660	1N90350857A140060	2007	42540	2006	CNG	280	HP	85213	10
19	C-1661	1N90350877A140061	2007	42540	2006	CNG	280	HP	469833	332432
20	C-1662	1N90350897A140062	2007	42540	2006	CNG	280	HP	256575	6938
21	C-1663	1N90350807A140063	2007	42540	2006	CNG	280	HP	271092	15258
22	C-1664	1N90350827A140064	2007	42540	2006	CNG	280	HP	136059	12942
23	C-1665	1N90350847A140065	2007	42540	2006	CNG	280	HP	119476	14843
24	C-1666	1N90350867A140066	2007	42540	2006	CNG	280	HP	68681	0
25	C-1667	1N90350887A140067	2007	42540	2006	CNG	280	HP	219480	12406
26	C-1668	1N903508X7A140068	2007	42540	2006	CNG	280	HP	118402	0
27	C-1670	1N90350887A140070	2007	42540	2006	CNG	280	HP	210845	12342
28	C-1671	1N90350887A140071	2007	42540	2006	CNG	280	HP	199056	19086
29	C-1672	1N90350817A140072	2007	42540	2006	CNG	280	HP	236580	19879
30	C-1673	1N90350887A140073	2007	42540	2006	CNG	280	HP	259610	559
31	C-1674	1N90350857A140074	2007	42540	2006	CNG	280	HP	161708	10
32	C-1675	1N90350877A140075	2007	42540	2006	CNG	280	HP	170921	16033
33	C-1676	1N90350897A140076	2007	42540	2006	CNG	280	HP	226086	8669
34	C-1678	1N90350827A140078	2007	42540	2006	CNG	280	HP	233624	19287
35	C-1683	1N90350828A140499	2008	42540	2007	CNG	320	HP	62377	0
36	C-1684	1N90350827A140500	2008	42540	2007	CNG	320	HP	150454	8435
37	C-1685	1N90350878A140501	2008	42540	2007	CNG	320	HP	279904	36074
38	C-1686	1N90350898A140502	2008	42540	2007	CNG	320	HP	144273	0
39	C-1687	1N90350808A140503	2008	42540	2007	CNG	320	HP	121818	27066

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Operating List

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Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT
40	C-1688	1N90350828A140504	2008	42540	2007	CNG	320	HP	354831	21911
41	C-1690	1N90350868A140506	2008	42540	2007	CNG	320	HP	170382	0
42	C-1691	1N90350888A140507	2008	42540	2007	CNG	320	HP	116529	38855
43	C-1692	1N903508X8A140508	2008	42540	2007	CNG	320	HP	155722	34921
44	C-1693	1N90350818A140509	2008	42540	2007	CNG	320	HP	306470	42483
45	C-1694	1N90350888A140510	2008	42540	2007	CNG	320	HP	356219	30407
46	C-1695	1N903508X8A140511	2008	42540	2007	CNG	320	HP	201546	2352
47	C-1696	1N90350818A140512	2008	42540	2007	CNG	320	HP	174857	38164
48	C-1697	1N90350838A140513	2008	42540	2007	CNG	320	HP	304921	39593
49	C-1698	1N90350858A140514	2010	42540	2007	CNG	320	HP	238271	15395
50	C-1699	1N90350878A140515	2008	42540	2007	CNG	320	HP	247925	21941
51	C-1700	1N90350898A140516	2008	42540	2007	CNG	320	HP	153733	33788
52	C-1701	1N90350808A140517	2008	42540	2007	CNG	320	HP	107407	0
53	C-1702	1N90350828A140518	2008	42540	2007	CNG	320	HP	76816	0
54	C-1710	1N904220E8A140611	2008	42560	2008	CNG	280	HP	106730 ^a	1257
55	C-1711	1N90422058A140614	2008	42560	2008	CNG	280	HP	154224 ^a	1525
56	C-1712	1N9351819AA140433	2010	42540	2009	CNG	320	HP	74156	10
57	C-1713	1N9351810AA140434	2010	42540	2009	CNG	320	HP	228926	10
58	C-1714	1N9351812AA140435	2010	42540	2009	CNG	320	HP	276910	42
59	C-1715	1N9351814AA140436	2010	42540	2009	CNG	320	HP	213515	10
60	C-1716	1N9351816AA140437	2010	42540	2009	CNG	320	HP	274090	97
61	C-1717	1N9351818AA140438	2010	42540	2009	CNG	320	HP	487163	288510
62	C-1718	1N935181XAA140439	2010	42540	2009	CNG	320	HP	474010	32676
63	C-1753	4UZAEJF6XKCKC3839	2019	25990	2019	CNG	220	HP	8281	0
64	C-1754	4UZAEJE72JJP8151	2019	25990	2019	CNG	220	HP	5087	0
65	C-1755	4UZAEJF65LCLU5935	2019	25990	2019	CNG	220	HP	10712	0
66	C-1756	4UZAEJF69LCLU5937	2019	25990	2019	CNG	220	HP	8100	0
67	C-1757	4UZAEJF67LCLU5936	2019	25990	2019	CNG	220	HP	8253	0
68	C-1758	4UZAEJF60LCLU5938	2019	25990	2019	CNG	220	HP	7279	0
69	C-1759	4UZAEJF66LCLU5944	2019	25990	2019	CNG	220	HP	8422	0
70	C-1760	4UZAEJF69LCLU5940	2019	25990	2019	CNG	220	HP	6826	0
71	C-1761	4UZAEJF62LCLU5939	2019	25990	2019	CNG	220	HP	10306	0
72	C-1762	4UZAEJF6XLCLU5946	2019	25990	2019	CNG	220	HP	6681	0
73	C-1763	4UZAEJF64LCLU5943	2019	25990	2019	CNG	220	HP	10571	0
74	C-1764	4UZAEJF68LCLU5945	2019	25990	2019	CNG	220	HP	9375	0
75	C-1765	4UZAEJF63LCLU5948	2019	25990	2019	CNG	220	HP	10113	0
76	C-1766	4UZAEJF65LCLU5949	2019	25990	2019	CNG	220	HP	5280	0
77	C-1767	4UZAEJF62LCLU5942	2019	25990	2019	CNG	220	HP	9110	0
78	C-1768	4UZAEJF60LCLU5941	2019	25990	2019	CNG	220	HP	12355	0
79	C-1769	4UZAEJF63LCLU5951	2019	25990	2019	CNG	220	HP	11851	0

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Operating List
MOU Measure 3 III.B.1.

Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT
80	C-1770	4UZAEJF61LCLU5950	2019	25990	2019	CNG	220	HP	7213	0
81	C-1771	4UZAEJF65LCLU5952	2019	25990	2019	CNG	220	HP	11081	0
82	C-1772	4UZAEJF61LCLU5947	2019	25990	2019	CNG	220	HP	7934	0
83	C-1773	4UZAEJF67LCLU5953	2019	25990	2019	CNG	220	HP	6451	0
84	C-1774	4UZAEJF60LCLU5954	2019	25990	2019	CNG	220	HP	8508	0
85	C-1775	4UZAEJF69LCLU5954	2019	25990	2019	CNG	220	HP	8304	0
86	C-1776	4UZAEJF62LCLU5956	2019	25990	2019	CNG	220	HP	8181	0
87	C-1777	4UZAEJF66LCLU5958	2019	25990	2019	CNG	220	HP	8130	0
88	C-1778	4UZAEJF64LCLU5957	2019	25990	2019	CNG	220	HP	6660	0
89	C-1779	4UZAEJF68LCLU5959	2019	25990	2019	CNG	220	HP	10088	0
90	C-1780	4UZAEJF61LCLU5964	2019	25990	2019	CNG	220	HP	11172	0
91	C-1781	4UZAEJF68LCLU5962	2019	25990	2019	CNG	220	HP	10312	0
92	C-1782	4UZAEJF67LCLU9559	2019	25990	2019	CNG	220	HP	4186	0
93	C-1783	4UZAEJF66LCLU5961	2019	25990	2019	CNG	220	HP	9965	0
94	C-1784	4UZAEJF64LCLU5960	2019	25990	2019	CNG	220	HP	8857	0
95	C-1785	4UZAEJF65LCLV9561	2019	25990	2019	CNG	220	HP	1464	0
96	C-1786	4UZAEJF6XLCLU5963	2019	25990	2019	CNG	220	HP	5443	0
97	C-1787	4UZAEJF63LCLV9560	2019	25990	2019	CNG	220	HP	4855	0
98	C-1788	4UZAEJF65LCLV9558	2019	25990	2019	CNG	220	HP	8241	0
99	C-1900	4B9KCGA81K2038024	2019	66138	2019	Electric	180x2	kW	14501 ^a	768
100	C-1901	4B9KCGA84K2038017	2019	66138	2019	Electric	180x2	kW	21482	5597
101	C-1902	4B9KCGA86K2038018	2019	66138	2019	Electric	180x2	kW	23015 ^a	9015
102	C-1903	4B9KCGA88K2038019	2019	66138	2019	Electric	180x2	kW	23358 ^a	8386
103	C-1904	4B9KCGA8XK2038023	2019	66138	2019	Electric	180x2	kW	21079	8879
104	C-1905	4B9KCGA81K2038010	2019	66138	2019	Electric	180x2	kW	19942 ^a	7083
105	C-1906	4B9KCGA83K2038011	2019	66138	2019	Electric	180x2	kW	22696 ^a	7833
106	C-1907	4B9KCGA85K2038012	2019	66138	2019	Electric	180x2	kW	23925	6924
107	C-1908	4B9KCGA88K2038005	2019	66138	2019	Electric	180x2	kW	22732 ^a	7764
108	C-1909	4B9KCGA8XK2038006	2019	66138	2019	Electric	180x2	kW	23199	11471
109	C-1910	4B9KCGA81K2038007	2019	66138	2019	Electric	180x2	kW	16996	6492
110	C-1911	4B9KCGA83K2038008	2019	66138	2019	Electric	180x2	kW	22584 ^a	12786
111	C-1912	4B9KCGA85K2038009	2019	66138	2019	Electric	180x2	kW	16225 ^a	5151
112	C-1913	4B9KCGA87K2038013	2019	66138	2019	Electric	180x2	kW	20909	9524
113	C-1914	4B9KCGA89K2038014	2019	66138	2019	Electric	180x2	kW	21640	9140
114	C-1915	4B9KCGA80K2038015	2019	66138	2019	Electric	180x2	kW	15240 ^a	9240
115	C-1916	4B9KCGA82K2038016	2019	66138	2019	Electric	180x2	kW	14220	7769
116	C-1917	4B9KCGA84K2038020	2019	66138	2019	Electric	180x2	kW	16411 ^a	9261
117	C-1918	4B9KCGA86K2038021	2019	66138	2019	Electric	180x2	kW	6909 ^a	2624
118	C-1919	4B9KCGA88K2038022	2019	66138	2019	Electric	180x2	kW	12262 ^a	4262

**MOU MEASURE NO. 3
ZERO-EMISSION BUS PROGRAM**

Operating List

MOU Measure 3 III.B.1.

Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT
119	C-3886	1FDFE4FS3HDC76054	2018	14500	2017	CNG	350	HP	52576	13181
120	C-3887	1FDFE4FS5HDC76055	2018	14500	2017	CNG	350	HP	44911	12311
121	C-3888	1FDFE4FS7HDC76056	2018	14500	2017	CNG	350	HP	40139	10550
122	C-3889	1FDFE4FS2HDC76062	2018	14500	2017	CNG	350	HP	56366	14346

^a December 31, 2022 odometer reading was estimated by prorating available maintenance records.

**Emission Inventory
MOU Measure 3 III.B.2.**

- I. PROGRAM DESCRIPTION - Replace 20% and 100% of LAWA-owned and operated buses with zero-emissions buses by January 1, 2023 and January 1, 2031, respectively.
 II. PROGRAM TIMEFRAME - Upon execution through 2032.

Fleet as of December 31, 2022 ¹

Reporting Year	Bus Fleet Count	% Electric	Emissions						
			<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>Mtpy</i>	
			ROG	CO	NOx	PM10	PM2.5	SOx	CO2e
2022	50	40%	0.11	58.57	0.63	0.24	0.09	<0.01	2,595

2022 Total Operating Fleet ^{1,2}

Reporting Year	Bus Fleet Count	% Electric	Emissions						
			<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>tpy</i>	<i>Mtpy</i>	
			ROG	CO	NOx	PM10	PM2.5	SOx	CO2e
2022	77	26%	0.21	115.02	1.18	0.36	0.14	<0.01	4,969

1. During the 2022 Reporting Year, a substantial number of buses were retired from the LAWA-operated bus fleet. These buses have been temporarily replaced with buses operated by private contractors pending the opening of the LAX Automated People Mover system. Emissions from both LAWA-operated and contractor-operated buses are included in this inventory, which is provided for disclosure purposes.
2. Only fleet buses with non-zero VMT (77 of 122) were included in the 2022 Total Operating Fleet Emissions Inventory estimates.

The 2017 emission inventory baseline was performed for the LAX AQIM. The methodology and calculations were replicated to develop an emissions inventory for MOU reporting. In summary, these are the general steps used to calculate the Emission Inventory:

UBUS aggregate data is downloaded for the reporting year from CARB's EMFAC2017 (v1.0.3) model for each type of fuel - gasoline, diesel, natural gas, and electricity.

An Excel SUMPRODUCT calculation is performed that multiplies the EMFAC value per fuel type [per day] times the fleet count of that fuel type, which is then divided by the fleet count total to get an average value per bus. Example: average Vehicle Miles Traveled (VMT) per day per bus, average tons per day of NOx per bus.

The average pollutant amounts [tons per day] are then divided by the average VMT per bus to get a tons per mile emissions amount. (It is at this step that the Global Warming Potential of CH4 and N2O are incorporated so that CO2e can be calculated.)

Then, the average VMT per bus per day is multiplied by the fleet count and converted to per year (multiplied by ~365), resulting in total VMT for all buses per year.

This VMT [miles per year] is then multiplied by each of the pollutant values [tons per mile] resulting in **tons per year**. This is the annual emissions inventory.

*Note: consistent with the 2017 LAX AQIM emissions inventory methodology, theoretical EMFAC VMT was used to calculate the **Emission Inventory**. The **Operating and Replacement/Replaced List** in this report shows actual VMT for each bus from available field logs.

**MOU MEASURE NO. 3
ZERO-EMISSION BUS PROGRAM**

**Replacement/Replaced List
MOU Measure 3 III.B.3.**

Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT	Replacement or replaced vehicle?	Purchase Date	Retired Date	Replaced Details
1	C-1435	TAW6985101U951120	1996	44975	1996	Diesel	136	HP	18077	0	Yes	3/5/1997	10/28/2020	Scrapped
2	C-1436	TAW6985101U951121	1996	44975	1996	Diesel	136	HP	21245	0	Yes	3/5/1997	10/28/2020	Scrapped
3	C-1437	TAW6985101U951122	1996	44975	1996	Diesel	136	HP	13602	0	Yes	3/5/1997	10/28/2020	Scrapped
4	C-1439	TAW6985101U951124	1996	44975	1996	Diesel	136	HP	17878	0	Yes	3/5/1997	9/16/2020	Scrapped
5	C-1440	TAW6985101U951125	1996	44975	1996	Diesel	136	HP	17999	0	Yes	3/5/1997	9/16/2020	Scrapped
6	C-1441	TAW6985101U951126	1996	44975	1996	Diesel	136	HP	17621	0	Yes	3/5/1997	9/16/2020	Scrapped
7	C-1444	TAW6985101U951127	1996	44975	1996	Diesel	136	HP	12253	0	Yes	3/5/1997	9/16/2020	Scrapped
8	C-1445	TAW6985101U951130	1996	44975	1996	Diesel	136	HP	20570	0	Yes	3/5/1997	10/28/2020	Scrapped
9	C-1446	TAW6985101U951131	1996	44975	1996	Diesel	136	HP	12295	0	Yes	3/5/1997	10/28/2020	Scrapped
10	C-1447	TAW6985101U951132	1996	44975	1996	Diesel	136	HP	22344	0	Yes	3/5/1997	10/28/2020	Scrapped
11	C-1449	TAW6985101U951184	1996	44975	1996	Diesel	136	HP	12440	0	Yes	3/5/1997	10/28/2020	Scrapped
12	C-1649	1N960B0216A140083	2006	68540	2006	CNG	320	HP	88094	0	Yes	7/31/2006	11/28/2022	Scrapped
13	C-1658	1N90350877A140058	2007	42540	2006	CNG	280	HP	277971	7601	Yes	8/3/2007	8/24/2022	Scrapped
14	C-1659	1N90350897A140059	2007	42540	2006	CNG	280	HP	246169	8067	Yes	8/3/2007	8/24/2022	Scrapped
15	C-1660	1N90350857A140060	2007	42540	2006	CNG	280	HP	85213	10	Yes	8/3/2007	3/17/2022	Scrapped
16	C-1661	1N90350877A140061	2007	42540	2006	CNG	280	HP	469833	332432	Yes	8/22/2007	8/24/2022	Scrapped
17	C-1662	1N90350897A140062	2007	42540	2006	CNG	280	HP	256575	6938	Yes	8/31/2007	8/24/2022	Scrapped
18	C-1663	1N90350807A140063	2007	42540	2006	CNG	280	HP	271092	15258	Yes	8/22/2007	11/1/2022	Scrapped
19	C-1664	1N90350827A140064	2007	42540	2006	CNG	280	HP	136059	12942	Yes	8/22/2007	7/15/2022	Scrapped
20	C-1665	1N90350847A140065	2007	42540	2006	CNG	280	HP	119476	14843	Yes	8/29/2007	10/27/2022	Scrapped
21	C-1666	1N90350867A140066	2007	42540	2006	CNG	280	HP	68681	0	Yes	8/29/2017	7/15/2022	Scrapped
22	C-1667	1N90350887A140067	2007	42540	2006	CNG	280	HP	219480	12406	Yes	8/29/2007	7/15/2022	Scrapped
23	C-1668	1N903508X7A140068	2007	42540	2006	CNG	280	HP	118402	0	Yes	8/31/2007	11/1/2022	Scrapped
24	C-1669	1N90350887A140069	2007	42540	2006	CNG	280	HP	144525	0	Yes	8/31/2007	7/14/2020	Scrapped
25	C-1670	1N90350887A140070	2007	42540	2006	CNG	280	HP	210845	12342	Yes	9/5/2007	10/27/2022	Scrapped
26	C-1671	1N90350887A140071	2007	42540	2006	CNG	280	HP	199056	19086	Yes	9/5/2007	7/15/2022	Scrapped
27	C-1673	1N90350887A140073	2007	42540	2006	CNG	280	HP	259610	559	Yes	9/24/2007	3/17/2022	Scrapped
28	C-1674	1N90350857A140074	2007	42540	2006	CNG	280	HP	161708	10	Yes	9/24/2007	3/17/2022	Scrapped
29	C-1675	1N90350877A140075	2007	42540	2006	CNG	280	HP	170921	16033	Yes	9/24/2007	7/15/2022	Scrapped
30	C-1676	1N90350897A140076	2007	42540	2006	CNG	280	HP	226086	8669	Yes	9/24/2007	7/15/2022	Scrapped
31	C-1677	1N90350807A140077	2007	42540	2006	CNG	280	HP	123458	0	Yes	9/24/2007	11/9/2021	Scrapped
32	C-1678	1N90350827A140078	2007	42540	2006	CNG	280	HP	233624	19287	Yes	9/24/2007	11/1/2022	Scrapped
33	C-1683	1N90350828A140499	2008	42540	2007	CNG	320	HP	62377	0	Yes	8/20/2008	7/15/2022	Scrapped
34	C-1684	1N90350827A140500	2008	42540	2007	CNG	320	HP	150454	8435	Yes	8/20/2008	10/27/2022	Scrapped
35	C-1686	1N90350898A140502	2008	42540	2007	CNG	320	HP	144273	0	Yes	8/20/2008	10/27/2022	Scrapped
36	C-1688	1N90350828A140504	2008	42540	2007	CNG	320	HP	354831	21911	Yes	8/20/2008	11/1/2022	Scrapped
37	C-1689	1N90350848A140505	2008	42540	2007	CNG	320	HP	201567	0	Yes	9/2/2008	11/16/2021	Scrapped
38	C-1690	1N90350868A140506	2008	42540	2007	CNG	320	HP	170382	0	Yes	9/2/2008	7/15/2022	Scrapped
39	C-1695	1N903508X8A140511	2008	42540	2007	CNG	320	HP	201546	2352	Yes	9/2/2008	7/15/2022	Scrapped
40	C-1698	1N90350858A140514	2010	42540	2007	CNG	320	HP	238271	15395	Yes	9/2/2008	7/15/2022	Scrapped
41	C-1699	1N90350878A140515	2008	42540	2007	CNG	320	HP	247925	21941	Yes	9/2/2008	7/15/2022	Scrapped
42	C-1701	1N90350808A140517	2008	42540	2007	CNG	320	HP	107407	0	Yes	9/30/2008	7/15/2022	Scrapped
43	C-1702	1N90350828A140518	2008	42540	2007	CNG	320	HP	76816	0	Yes	9/30/2008	11/1/2022	Scrapped
44	C-1712	1N9351819AA140433	2010	42540	2009	CNG	320	HP	74156	10	Yes	1/1/2011	3/17/2022	Scrapped
45	C-1713	1N9351810AA140434	2010	42540	2009	CNG	320	HP	228926	10	Yes	1/1/2011	3/17/2022	Scrapped
46	C-1714	1N9351812AA140435	2010	42540	2009	CNG	320	HP	276910	42	Yes	1/1/2011	3/17/2022	Scrapped
47	C-1715	1N9351814AA140436	2010	42540	2009	CNG	320	HP	213515	10	Yes	1/1/2011	3/17/2022	Scrapped
48	C-1716	1N9351816AA140437	2010	42540	2009	CNG	320	HP	274090	97	Yes	1/1/2011	3/17/2022	Scrapped
49	C-1717	1N9351818AA140438	2010	42540	2009	CNG	320	HP	487163	288510	Yes	1/1/2011	8/24/2022	Scrapped
50	C-1718	1N935181XAA140439	2010	42540	2009	CNG	320	HP	474010	32676	Yes	1/1/2011	8/24/2022	Scrapped
51	C-1753	4UZAEIF6XKCKC3839	2019	25990	2019	CNG	220	HP	8281	0	Yes	9/30/2019	9/26/2022	Affidavit of Non-Use
52	C-1754	4UZAIEJ72JCJP8151	2019	25990	2019	CNG	220	HP	5087	0	Yes	9/30/2019	9/26/2022	Affidavit of Non-Use

**MOU MEASURE NO. 3
ZERO-EMISSION BUS PROGRAM**

**Replacement/Replaced List
MOU Measure 3 III.B.3.**

Reporting year: 2022

#	LAWA ID #	VIN	Vehicle Model Year	Vehicle GVWR	Engine Model Year	Fuel Type	Power Rating	Power Rating Unit	Odometer End	VMT	Replacement or replaced vehicle?	Purchase Date	Retired Date	Replaced Details
53	C-1755	4UZAEIF65LCLU5935	2019	25990	2019	CNG	220	HP	10712	0	Yes	9/30/2019	9/26/2022	Affidavit of Non-Use
54	C-1756	4UZAEIF69LCLU5937	2019	25990	2019	CNG	220	HP	8100	0	Yes	9/30/2019	9/26/2022	Affidavit of Non-Use
55	C-1757	4UZAEIF67LCLU5936	2019	25990	2019	CNG	220	HP	8253	0	Yes	10/9/2019	9/26/2022	Affidavit of Non-Use
56	C-1758	4UZAEIF60LCLU5938	2019	25990	2019	CNG	220	HP	7279	0	Yes	10/24/2019	9/26/2022	Affidavit of Non-Use
57	C-1759	4UZAEIF66LCLU5944	2019	25990	2019	CNG	220	HP	8422	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
58	C-1760	4UZAEIF69LCLU5940	2019	25990	2019	CNG	220	HP	6826	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
59	C-1761	4UZAEIF62LCLU5939	2019	25990	2019	CNG	220	HP	10306	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
60	C-1762	4UZAEIF6XLCLU5946	2019	25990	2019	CNG	220	HP	6681	0	Yes	10/9/2019	9/26/2022	Affidavit of Non-Use
61	C-1763	4UZAEIF64LCLU5943	2019	25990	2019	CNG	220	HP	10571	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
62	C-1764	4UZAEIF68LCLU5945	2019	25990	2019	CNG	220	HP	9375	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
63	C-1765	4UZAEIF63LCLU5948	2019	25990	2019	CNG	220	HP	10113	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
64	C-1766	4UZAEIF65LCLU5949	2019	25990	2019	CNG	220	HP	5280	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
65	C-1767	4UZAEIF62LCLU5942	2019	25990	2019	CNG	220	HP	9110	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
66	C-1768	4UZAEIF60LCLU5941	2019	25990	2019	CNG	220	HP	12355	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
67	C-1769	4UZAEIF63LCLU5951	2019	25990	2019	CNG	220	HP	11851	0	Yes	10/24/2019	9/26/2022	Affidavit of Non-Use
68	C-1770	4UZAEIF61LCLU5950	2019	25990	2019	CNG	220	HP	7213	0	Yes	10/22/2019	9/26/2022	Affidavit of Non-Use
69	C-1771	4UZAEIF65LCLU5952	2019	25990	2019	CNG	220	HP	11081	0	Yes	10/18/2019	9/26/2022	Affidavit of Non-Use
70	C-1772	4UZAEIF61LCLU5947	2019	25990	2019	CNG	220	HP	7934	0	Yes	10/24/2019	9/26/2022	Affidavit of Non-Use
71	C-1773	4UZAEIF67LCLU5953	2019	25990	2019	CNG	220	HP	6451	0	Yes	10/31/2019	9/26/2022	Affidavit of Non-Use
72	C-1774	4UZAEIF60LCLU5954	2019	25990	2019	CNG	220	HP	8508	0	Yes	10/31/2019	9/26/2022	Affidavit of Non-Use
73	C-1775	4UZAEIF69LCLU5954	2019	25990	2019	CNG	220	HP	8304	0	Yes	10/31/2019	9/26/2022	Affidavit of Non-Use
74	C-1776	4UZAEIF62LCLU5956	2019	25990	2019	CNG	220	HP	8181	0	Yes	10/31/2019	9/26/2022	Affidavit of Non-Use
75	C-1777	4UZAEIF66LCLU5958	2019	25990	2019	CNG	220	HP	8130	0	Yes	11/8/2019	9/26/2022	Affidavit of Non-Use
76	C-1778	4UZAEIF64LCLU5957	2019	25990	2019	CNG	220	HP	6660	0	Yes	11/8/2019	9/26/2022	Affidavit of Non-Use
77	C-1779	4UZAEIF68LCLU5959	2019	25990	2019	CNG	220	HP	10088	0	Yes	11/13/2019	9/26/2022	Affidavit of Non-Use
78	C-1780	4UZAEIF61LCLU5964	2019	25990	2019	CNG	220	HP	11172	0	Yes	11/13/2019	9/26/2022	Affidavit of Non-Use
79	C-1781	4UZAEIF68LCLU5962	2019	25990	2019	CNG	220	HP	10312	0	Yes	11/8/2019	9/26/2022	Affidavit of Non-Use
80	C-1782	4UZAEIF67LCLU9559	2019	25990	2019	CNG	220	HP	4186	0	Yes	11/14/2019	9/26/2022	Affidavit of Non-Use
81	C-1783	4UZAEIF66LCLU5961	2019	25990	2019	CNG	220	HP	9965	0	Yes	11/8/2019	9/26/2022	Affidavit of Non-Use
82	C-1784	4UZAEIF64LCLU5960	2019	25990	2019	CNG	220	HP	8857	0	Yes	11/14/2019	9/26/2022	Affidavit of Non-Use
83	C-1785	4UZAEIF65LCLU9561	2019	25990	2019	CNG	220	HP	1464	0	Yes	11/26/2019	9/26/2022	Affidavit of Non-Use
84	C-1786	4UZAEIF6XLCLU5963	2019	25990	2019	CNG	220	HP	5443	0	Yes	12/4/2019	9/26/2022	Affidavit of Non-Use
85	C-1787	4UZAEIF63LCLU9560	2019	25990	2019	CNG	220	HP	4855	0	Yes	12/4/2019	9/26/2022	Affidavit of Non-Use
86	C-1788	4UZAEIF65LCLU9558	2019	25990	2019	CNG	220	HP	8241	0	Yes	12/4/2019	9/26/2022	Affidavit of Non-Use